

Determinations of the Commission in Investigations Nos. 731-TA-342 and 346 (Final) Under the Tariff Act of 1930 Together With the Information Obtained in the Investigations

USITC PUBLICATION 1999

AUGUST 1987

United States International Trade Commission / Washington, DC 20436

UNITED STATES INTERNATIONAL TRADE COMMISSION

COMMISSIONERS

Susan Liebeler, Chairman

Anne E. Brunsdale, Vice Chairman

Alfred E. Eckes

Seeley G. Lodwick

David B. Rohr

Staff assigned:

Janine Wedel, Investigator
Jerry Tepper, Financial Analyst
Debbie Ladomirak, Commodity-Industry Analyst
Elizabeth Henning, Economist
Phyllis Smithey, Attorney
Lynn Featherstone, Supervisory Investigator

Address all communications to
Kenneth R. Mason, Secretary to the Commission
United States International Trade Commission
Washington, DC 20436

	rage
Determination	1
Views of Commissioner Eckes, Commissioner Lodwick, and	_
Commissioner Rohr	3
Additional Views of Commissioner Eckes	23
Concurring and Dissenting Views of Vice Chairman Brunsdale	29
Views of Chairman Liebeler	52
Information obtained in the investigations:	
Introduction	A1
Background	A-1
Previous investigations and scope of the current investiga-	_
tions	A-2
The product	A3
Description and uses	A-3
Self-contained tapered roller-bearing packages	A7
Mounted bearing units	A-7
Finished and unfinished components of tapered roller bearings.	A8
Manufacturing process	A-8
Mounted bearing units	A-10
Cartridge bearing units	A-10
Unfinished tapered roller-bearing components	A10
U.S. tariff treatment	
Problems with product definition	A13
Nature and extent of sales at LTFV	
The U.S. market	
U.S. producers	
Major changes in the U.S. industry	
The experience of Hyatt Clark	
U.S. importers	
Character of the U.S. market	
U.S. consumption	
Channels of distribution	
Summary of the U.S. industry and market	
Related party issues	
Consideration of alleged material injury	
Capacity, production, and capacity utilization	
U.S. producers' domestic and export shipments	
U.S. producers' inventories	
U.S. producers' purchases	
U.S. employment and wages	
Financial experience of U.S. producers	
Overall establishment operations	
Operations on tapered roller bearings	
Operations of the Timken Company	
Operations of Hyatt Clark Industries	A-40
Investment in productive facilities	
Capital expenditures	
Research and development	
Capital and investment	
Summary of U.S. Producers' Performance	
Consideration of alleged threat of material injury	
U.S. importers' inventories	
Ability of foreign producers to generate exports	H48

	Page
Information obtained in the investigations—Continued:	
Consideration of the causal relationship between LTFV imports and	
the alleged material injury:	
U.S. imports	A-50
China and Hong Kong	A-51
Hungary	A-51
Italy	A-54
Romania	A-55
Yugoslavia	A-55
Japan	A-55
Market penetration	A-57
Cumulative effects of imports under investigation	A-59
· · · · · · · · · · · · · · · · · · ·	A-62
Imports and market shares of LTFV merchandise	
Quality considerations	A-62
Critical circumstances	A-65
Prices	A66
Price trends	A-68
Price comparisons	A-76
Lost sales and lost revenues	A-76
Exchange rates	A-86
Appendix A. Federal Register notices of the Commission	a-1
Appendix B. List of witnesses appearing at the Commission's	
hearing	a-9
Appendix C. Federal Register notices of Commerce	a-15
Appendix D. Documents pertaining to quality issues	a-45
inpution by bookingtoo per cariffing to quartoy roomeofficient in the first of the period of the per	u 15
FIGURES	
FIGURES	
Figure 1 Transport wellow hearing	A-5
Figure 2. Finishing operations on tapered roller bearings	A-11
Figure 3. Apparent U.S. consumption, U.S. producers' shipments,	
and U.S. imports of tapered roller bearings, 1980-86	A-24
TABLES	
1. Tapered roller bearings: U.S. rates of duty, by TSUSA items	A-12
2. Tapered roller bearings: U.S. producers, their share of 1983 and	
1986 shipments, and positions with regard to the petition	A-15
3. Tapered roller bearings: Major U.S. importers and their	
share of 1986 imports, by value	A-19
4. Tapered roller bearings: Shares (by quantity) of U.S. producers'	п 17
domestic shipments, imports, and apparent consumption	A 31
accounted for by types of markets, 1984-86	A-21
5. Tapered roller bearings: Shares (by quantity) of markets	
accounted for by U.S. producers' domestic shipments and	
imports, 1984-86	A23
6. Tapered roller bearings: Apparent U.S. consumption, 1983-86	A-26

TABLES---Continued

		Page
7.	Tapered roller bearings: U.S. producers' production, capacity, and capacity utilization, 1983—86, January—March 1986, and	-
8.	January-March 1987	A29
9.	January-March 1986, and January-March 1987	A-30
	tories, 1983-86, January-March 1986, and January-March 1987	A-31
10.	Tapered roller bearings: U.S. producers' purchases and imports, 1984-86, January-March 1986, and January-March 1987	A32
11.	Average number of production and related workers engaged in the manufacture of tapered roller bearings, hours worked by such workers, wages paid, and total compensation, 1983—86, January—	
10	March 1986, and January-March 1987	A-33
12.	Income-and-loss experience of 10 U.S. producers on the overall operations of their establishments within which tapered roller	
13.	bearings are produced, accounting years 1983—86	A-35
	operations producing tapered roller bearings, accounting years 1983—86, and interim periods ended Mar. 31, 1986, and Mar. 31,	
14.	1987 Income—and—loss experience of Timken Company on its operations	A-36
14.	producing tapered roller bearings, accounting years 1983—86, and interim periods ended Mar. 31, 1986, and Mar. 31, 1987	A-38
15.	Income-and-loss experience of 10 U.S. producers on their	11-30
	operations producing tapered roller bearings, by selected pro- ducers, accounting years 1983—86, and interim periods ended	
16.	Mar. 31, 1986, and Mar. 31, 1987 Tapered roller bearings: U.S. producers' end-of-period valuation	A-41
10.	of fixed assets, accounting years 1983—86, and interim periods ended Mar. 31, 1986, and Mar. 31, 1987	A-42
17.	Tapered roller bearings: Capital expenditures, accounting years 1983-86, and interim periods ended Mar. 31, 1986, and	
10	Mar. 31, 1987	A-43
18.	Tapered roller bearings: U.S. producers' capacity, production, and capacity utilization by selected producers, 1983–86, and	
10	interim periods ended March 31, 1986, and March 31, 1987	A-45
19.	Tapered roller bearings: U.S. producers' domestic shipments, market shares, employment, and operating income and loss to net sales by selected producers, 1983-86, January—March, and	
	January-March 1987	A46
20.	Tapered roller bearings: U.S. importers' inventories, by quantity and as a ratio to reported imports, 1983-86, January-March	
01	1986, and January-March 1987	A-48
21.	Tapered roller bearings: Foreign producer data, 1983—86, January—March 1986, and January—March 1987	A-49
22.	Tapered roller bearings and parts thereof: Total U.S. imports, by quantity, 1983-86, January-March 1986, and January-March	
	1987	A-52

TABLES -- Continued

		Page
23.	Tapered roller bearings and parts thereof: Total U.S. imports, by value, 1983–86, January-March 1986, and January-March	
24.	1987 Tapered roller bearings and parts thereof: U.S. imports from Japan subject to investigation, 1983-86, January-March 1986,	A-53
	and January-March 1987	A56
25.	Tapered roller bearings: Market shares of U.S. producers and imports, by sources, 1983-86, January-March 1986, and January-March 1987	A-58
26.	Tapered roller bearings: Apparent U.S. consumption, LTFV imports, and market shares of LTFV imports, 1983-86, January-	
27.	March 1986, and January March 1987	A60
	distributors, as reported by U.S. producers and importers, by quarters, January 1984—March 1987	A69
28.	Tapered roller bearings: Weighted—average prices for sales of LM11949 cone assemblies to OEM's and distributors, as reported	
29.	by U.S. producers and importers, in dollars per bearing, by quarters, January 1984—March 1987	A69
29.	HM212049 cone assemblies to OEM's and distributors, as reported by U.S. producers and importers, in dollars per bearing, by	
30.	quarters, January 1984—March 1987	A70
	HM212010 cups (4.8125-inch outside diameter), to OEM's and distributors, as reported by U.S. producers and importers, by	
31.	quarters, January 1984—March 1987	A70
	producers and importers, in dollars per bearing, by quarters, January 1984-March 1987	A71
32.	Tapered roller bearings: Weighted—average prices for purchasers of LM11949/10 sets by OEM's and distributors, as reported by U.S.	
	purchasers, dollars per bearing, by quarters, January 1984— December 1986	A-73
33.	Tapered roller bearings: Weighted—average prices for purchases of 22580 cone assemblies by OEM's and distributors, as reported	
34.	by U.S. purchasers, by quarters, January 1984—December 1986 Tapered roller bearings: Weighted—average prices for purchases	A73
	of LM11949 cone assemblies by OEMs and distributors, as reported by U.S. purchasers, by quarters, January 1984—June 1986	A74
35.	Tapered roller bearings: Weighted—average prices for purchases of HM212049 cone assemblies by OEM's and distributors, as reported	A 7.
36.	by U.S. purchasers, by quarters, January 1984—December 1986 Tapered roller bearings: Weighted—average prices for purchases of	H-/4
	HM212010 cups by OEM's and distributors, as reported by U.S. purchasers, by quarters, January 1984—December 1986	A75

,

TABLES—Continued

2.7	Toward wallow baseless. Maisband accompany maissa for moust-	Page
37.	Tapered roller bearings: Weighted—average prices for purchases of LM67010 cups by OEM's and distributors, as reported by U.S. purchasers, by quarters, January 1984—December 1986	A-75
38.	Tapered roller bearings: Average margins (per unit) by which imports of LM11949/10 sets (1.7810—inch outside diameter) undersold or (oversold) the U.S.—produced product, by countries	
	of origin, types of customer, and quarters, January 1984—March	A77
39.	Tapered roller bearings: Average margins (per unit) by which imports of LM11949 cone assemblies undersold or (oversold) the U.S.—produced product, by countries of origin, types of	
40.	customer, and quarters, January 1984—March 1987	A78
	U.Sproduced product; by country of origin, types of customer,	
41.	and quarters, January 1984—June 1987 Tapered roller bearings: Average margins (per unit) by which	A79
	imports of HM212010 cups (4.8125—inch outside diameter) undersold or (oversold) the U.S.—produced product, by countries of origin, types of customer, and quarters, January 1984—March 1987	A80
42.	Tapered roller bearings: Average margins (per unit) by which imports of LM67010 cups undersold or (oversold) the U.Sproduced	00
	product, by countries of origin, types of customer, and quarters, January 1984—March 1987	ΔΩ1
43.	Tapered roller bearings: Average margins (per unit) by which purchases of imports of LM11949/10 sets by purchasers, undersold	H01
	or (oversold) the U.Sproduced product, by countries of origin, types of customer, and quarters, January 1984—December 1986	A82
44.	Tapered roller bearings: Average margins (per unit) by which purchases of imports of LM11949 cone assemblies by purchasers	02
	undersold or (oversold) the U.S.—produced product, by countries of origin, types of customer, and quarters, January 1984—December	
	1986	A-83
45.	Tapered roller bearings: Average margins (per unit) by which purchases of imports of 25580 cone assemblies by purchasers	
	undersold or (oversold) the U.S.—produced product, by countries of origin, types of customer, and quarters, January 1984—December	
	1986	A-84
46.	Tapered roller bearings: Average margins (per unit) by which purchases of imports of HM212049 cone assemblies by purchasers	
	undersold or (oversold) the U.Sproduced product, by countries of origin, types of customer, and quarters, January 1984-December	
	1986	A-85
47.	Tapered roller bearings: Average margins (per unit) by which purchases of imports of HM212010 cups by purchasers undersold or	
	(oversold) the U.Sproduced product, by countries of origin, types of customer, and quarters, January 1984-December 1986	Δ O F
	- cypes of cuscomer, and quarters, salluary 1304-becember 1300	4-03

TABLES—Continued

		Page
48.	Tapered roller bearings: Average margins (per unit) by which	
	purchases of imports of HM212049 cone assemblies by purchasers	
	undersold or (oversold) the U.Sproduced product; by countries	
	of origin, types of customer, and quarters, January 1984–June	
	1986	A-86
49.	Exchange rates: Nominal-exchange-rate equivalents of selected	
	currencies in U.S. dollars, real-exchange-rate equivalents, and	
	producer price indicators in specified countries, indexed by	
	guarters, January 1984-March 1987	A-87

Note.—Information that would reveal the confidential operations of individual concerns may not be published and therefore has been deleted from this report. Deletions are indicated by asterisks.

UNITED STATES INTERNATIONAL TRADE COMMISSION Washington, DC

Investigations Nos. 731-TA-342 and 346 (Final)

Tapered Roller Bearings and Parts Thereof and Certain Housings Incorporating Tapered Rollers from Italy and Yugoslavia

Determination -

On the basis of the record 1/ developed in the subject investigations, the Commission determines, pursuant to section 735(b)(1) of the Tariff Act of 1930 (19 U.S.C. § 1673d(b)(1)), that an industry in the United States is materially injured by reason of imports from Italy 2/ and Yugoslavia 3/ of tapered roller bearings and parts thereof, and certain housings incorporating tapered rollers, all the foregoing provided for in items 680.3040, 680.3932, 680.3934, 680.3938, 680.3940, 681.1010, or 692.3295 of the Tariff Schedules of the United States annotated, that have been found by the Department of Commerce to be sold in the United States at less than fair value (LTFV).

Further, pursuant to section 735(b)(4)(A) of the Act (19 U.S.C. § 1673d(b)(4)(A)), the Commission determines that the material injury in the investigation by reason of imports from Italy is not by reason of massive imports over a relatively short period to an extent that, in order to prevent such material injury from recurring, it is necessary to impose antidumping duties retroactively on those imports. 4/

Background

The Commission instituted these investigations effective February 6, 1987, following preliminary determinations by the Department of Commerce that

¹/ The record is defined in sec. 207.2(i) of the Commission's Rules of Practice and Procedure (19 CFR § 207.2(i)).

^{2/} Chairman Liebeler dissenting.

^{3/} Chairman Liebeler and Vice-Chairman Brunsdale dissenting.

^{4/} Commissioner Eckes dissenting.

imports of the subject merchandise from Italy and Yugoslavia are being sold at LTFV within the meaning of section 731 of the Act (19 U.S.C. § 1673). Notice of the institution of the Commission's investigations and of a public hearing to be held in connection therewith was given by posting copies of the notice in the Office of the Secretary, U.S. International Trade Commission, Washington, DC, and by publishing the notice in the Federal Register of February 26, 1987 (52 F.R. 5841). The hearing was held in Washington, DC, on May 21, 1987, and all persons who requested the opportunity were permitted to appear in person or by counsel.

VIEWS OF COMMISSIONER ECKES COMMISSIONER LODWICK, AND COMMISSIONER ROHR

We determine that an industry in the United States is materially injured by reason of imports of tapered roller bearings and parts thereof and certain housings incorporating tapered rollers from Italy and Yugoslavia, articles which the U.S. Department of Commerce has determined are being, or are likely to be, sold in the United States at less than fair value (LTFV). $\frac{1}{2}$ Our affirmative determinations are based on an assessment of the cumulative volume and effects of imports from Italy and Yugoslavia together with imports from Japan, which are currently subject to investigation, $\frac{2}{2}$ and imports from Hungary, the People's Republic of China (PRC), and Romania, which are the subject of recently issued final antidumping duty orders. $\frac{3}{2}$ $\frac{4}{2}$ We have

^{1/} See 52 Fed. Reg. 24198 and 24200 (June 29, 1987).

^{2/} Inv. No. 731-TA-343 (Final), Tapered Roller Bearings and Parts Thereof, and Certain Housings Incorporating Tapered Rollers from Japan. See 52 Fed. Reg. 11347 (Apr. 8, 1987). See also 52 Fed. Reg. 9905 (Mar. 27, 1987); 52 Fed. Reg. 11722 (Apr. 10, 1987).

^{3/} See 52 Fed. Reg. 22667 (June 15, 1987) (China); 52 Fed. Reg. 22319 (June 19, 1987) (Hungary); 52 Fed. Reg. 23320 (June 19, 1987) (Romania). (Invs. Nos. 731-TA-341, 344, and 345 (Final), Tapered Roller Bearings and Parts Thereof, and Certain Housings Incorporating Tapered Rollers from Hungary, The People's Republic of China (PRC), and Romania).

^{4/} Preliminary investigations Nos. 731-TA-341 through 346 were instituted together on the basis of the same Timken petition, and each investigation covered the same types of merchandise. See 51 Fed. Reg. 31732 (Sept. 4, 1986); 51 Fed. Reg. 36874 (Oct. 16, 1986); Tapered Roller Bearings and Parts Thereof, and Certain Housings Incorporating Tapered Rollers, from Hungary, Italy, Japan, the People's Republic of China, Romania, and Yugoslavia, (Footnote continued on next page)

found that the performance indicators of the domestic industry have deteriorated over the period of investigation, the volume and penetration of imports are significant and have increased or remained constant during the period under investigation, the value of such imports has increased, and the increasing levels of imports have had an adverse impact on prices in the United States for the like product.

Commissioners Lodwick and Rohr further determine that the material injury to a domestic industry is not by reason of massive imports from Italy to an extent that, in order to prevent such material injury from recurring, it is necessary to impose antidumping duties retroactively on those imports.

Commissioner Eckes determines that the material injury is by reason of massive imports from Italy to an extent that, in order to prevent such material injury from recurring, it is necessary to impose antidumping duties retroactively. $\frac{5}{}$

Domestic Industry

In final antidumping investigations under title VII of the Tariff Act of 1930, the Commission begins its analysis by defining the domestic industry to

⁽Footnote continued from previous page)
Invs. Nos. 731-TA-341 through 346 (Preliminary), USTIC Pub. 1899 (Oct. 1986).
The final investigations have proceeded according to different schedules
because Commerce extended its deadline for issuing preliminary and/or final
LTFV determinations as to the imports from the six countries in question. See
19 U.S.C. § 1673d(b)(2); 52 Fed. Reg. 5841 (Feb. 26, 1987); 52 Fed. Reg. 11347
and 11348 (Apr. 8, 1987). See also nn. 57 and 58.

^{5/} See the Additional Views of Commissioner Alfred Eckes.

be examined in order to determine, pursuant to section 735(b)(1), $\frac{6}{}$ whether there is material injury or a threat thereof by reason of the subject imports. $\frac{7}{}$ Section 771(4)(A) defines the term "industry" as "the domestic producers as a whole of a like product, or those producers whose collective output of the like product constitutes a major proportion of the total domestic production of that product." $\frac{8}{}$ "Like product," in turn, is defined as "a product which is like, or in the absence of like, most similar in characteristics and uses with, the article[s] subject to an investigation $\frac{9}{}$

1. Like Product

The imports under investigation are tapered roller bearings and parts thereof (finished or unfinished); flange, take-up, cartridge, and hanger units incorporating tapered roller bearings; and tapered roller housings (except pillow blocks) incorporating tapered rollers, with or without spindles and whether or not for automotive use. $\frac{10}{}$

^{6/ 19} U.S.C. § 1673d(b)(1).

⁷/ Section 735(b)(1) also directs the Commission to determine whether the establishment of an industry is materially retarded by reason of the subject imports. 19 U.S.C. § 1673d(b)(1). Material retardation is not an issue in these investigations, however, and will not be discussed in this opinion.

^{8/ 19} U.S.C. § 1677(4)(A).

^{9/ 19} U.S.C. § 1677(10).

^{10/} See 52 Fed. Reg. 24198 and 52 Fed. Reg. 24200 (June 29, 1987). For a description of the characteristics of, uses of, and markets for the articles under investigation, see generally the attached Report of Information Obtained in the Investigations (Report) at A-3 through A-13 and A-20 through A-24.

In the preliminary investigations of imports from Italy and Yugoslavia and in the recently concluded final investigations of tapered roller bearings from Hungary, the PRC, and Romania, we concluded that the domestically produced articles constituted a single like product. $\frac{11}{}$

For purposes of the current final investigation of Italian imports, respondent RIV-SKF Officine di Villar Perosa S.p.A. (RIV-SKF) argued that the Commission should find four separate like products:

- 1. standardized part number "LM11900 Series" bearings and miscellaneous single-row inch-sized tapered roller bearings 4 inches or less in outside diameter;
- 2. miscellaneous single-row inch-size bearings over 4 inches in outside diameter;
- 3. metric single-row bearings;
- 4. double-row tapered bearing units for use on the axles of railway freight cars (TBUs). $\frac{12}{13}$

For the reasons set forth below, we decline to adopt RIV-SKF's proposed like product delineations:

^{11/} See USTIC Pub. 1899 at 4-6 (Oct. 1986); Tapered Roller Bearings and Parts Thereof, and Certain Housings Incorporating Tapered Rollers, from Hungary, the People's Republic of China, and Romania, Invs. Nos. 731-TA-341, 344, and 345 (Final), USTIC Pub. 1983 at 3-9 (June 1987).

^{12/} See Letter to Kenneth R. Mason from White & Case, counsel for RIV-SKF, dated Apr. 2, 1987; Prehearing Brief of RIV-SKF at 2-13; RIV-SKF's Posthearing Brief at 1-6; RIV-SKF's Supplemental Brief at 9-11.

^{13/} TBUs from Italy and Japan were the subject of final antidumping investigations conducted in 1983 and 1984, which resulted in negative final injury determinations. See Report at A-3; Certain Tapered Roller Bearings and Parts Thereof from Japan and Italy, Invs. Nos. 731-TA-120 and 122 (Final), USTIC Pub. 1497 (Feb. 1984). In those investigations, the subject imports were referred to as "railway freight car journal roller bearings."

(1) Physical characteristics and uses. Tapered roller bearings are designed and sized for specific applications in a variety of products and industries. $\frac{14}{}$ Tapered roller bearings thus are available in a wide range of sizes in inch-size or metric dimensions and with many possible variations in design. $\frac{15}{}$ All tapered roller bearings have the same basic elements, however, which enable them to carry both radial loads and thrust loads. $\frac{16}{}$ All tapered roller bearings also perform the same essential function—namely, the reduction of friction between moving and fixed parts, by holding or guiding the moving parts to minimize friction and wear. $\frac{17}{}$

Yugoslavian respondent Unis Ro Promet argued that the Yugoslavian imports are so inferior to the domestic products that the Yugoslavian imports are not like and do not compete with the domestic products. $\frac{18}{}$ We note, however, that despite differences in quality, all tapered roller bearings, domestic and foreign, have the same elements and the same essential use. Moreover, again despite differences in quality, the domestic products do compete with imports from Yugoslavia. $\frac{19}{}$

^{14/} See Report at A-4 and A-20 through A-24.

^{15/} See generally id. at A-3 through A-8; USTIC Pub. 1497 at A-2 through A-5.

¹⁶/ See generally Report at A-3 through A-6; USITC Pub. 1497 at A-3 through A-5.

^{17/} Report at A-3 through A-7; USITC Pub. 1497 at A-3.

^{18/} Brief of Unis Ro Promet at 6-7.

^{19/} See Report at A-21.

(2) Interchangeability. Owing to the wide range of available sizes, dimensions, characteristics, and types, all tapered roller bearings are not interchangeable or substitutable for each other. 20/ However, there is a certain degree of standardization among various types of tapered roller bearings. Tapered roller bearings are classified according to part numbers which identify such important characteristics as the outside and inside diameters of the bearing, the roller angle, and various interchange dimensions. 21/ Specifications such as the internal geometries and specific tolerances of the bearing vary from manufacturer to manufacturer. 22/ That fact, inter alia, prevents bearings of the same part number, but produced by different manufacturers, from being identical. But within the given range of specifications, they are sufficiently interchangeable.

As we pointed out in the previous investigations of imports from Hungary, the PRC, and Romania, if the Commission were to make distinctions based on

<u>20</u>/ In support of its argument that metric bearings should be considered a discrete like product, RIV-SKF argued that metric bearings are not substitutable for inch-size bearings. <u>See</u> Prehearing Brief of RIV-SKF at 33-37; RIV-SKF's Posthearing Brief at 5-6. We note, however, that the problems of non-interchangeability and non-substitutability apply to metric bearings as a single class of merchandise (as well as applying to all inch-size tapered roller bearings). Like inch-size bearings, metric bearings come in different sizes. Hence all metric bearings are not interchangeable or substitutable for each other. We also note that inasmuch as tapered roller bearings are designed and sized for specific uses and applications, metric bearings are substitutable for inch-size bearings at the design stage, as manufacturers contemplate designing and building equipment to metric specifications.

^{21/} Report at A-4 and A-6.

^{22/} Id. at A-6.

sizes, dimensions, physical characteristics, or uses of bearings, there would be a multitude of possible alternatives, but no clear appropriate dividing lines. $\frac{23}{}$ When the Commission has considered this problem in the past, it has usually concluded that there is one like product, viewing the product in terms of a continuum. $\frac{24}{}$

RIV-SKF argued that TBUs should be treated as a separate like product because they are used primarily for railway applications. $\frac{25}{}$ We note, however, that while TBUs are designed for and used predominantly on railway freight cars, like other types of tapered roller bearings, TBUs can be used in other industries and applications. $\frac{26}{}$ Other types of tapered roller bearings are used in some of those industries and applications as well. $\frac{27}{}$ Further, all TBUs are not interchangeable or substitutable for each

^{23/} See USITC Pub. 1983 at 6-7.

^{24/} Id. at 7, n.14. See also Certain Steel Wire Nails from the Republic of Korea, Inv. No. 701-TA-145 (Preliminary), USITC Pub. 1223 at 4 (Mar. 1982); Carton-Closing Staples and Nonautomatic Carton-Closing Staple Machines from Sweden, Invs. Nos. 731-TA-116 and 117 (Final), USITC Pub. 1341 at 7, n.13 (Jan. 1983); Certain Steel Wire Nails from Japan, the Republic of Korea, and Yugoslavia, Invs. Nos. 731-TA-45, 46, and 47 (Preliminary), USITC Pub. 1175 at 12 (Aug. 1981); and Portable Electric Nibblers from Switzerland, Inv. No. 731-TA-35 (Preliminary), USITC Pub. 1108 at 4-5 (Nov. 1980).

^{25/} RIV-SKF's Posthearing Brief at 10.

^{26/} See USTIC Pub. 1497 at A-3.

^{27/} See Report at A-4 and A-20 through A-24.

other. $\frac{28}{}$

The fact that TBUs were a discrete like product in the 1983-84 investigations of TBUs from Italy and Japan does not compel similar treatment of TBUs in the present investigations. Section 771(10) provides that the like product is "a product which is like, or in the absence of like, most similar in characteristics and uses with, the article[s] subject to an investigation . . . ". 29/ In investigations Nos. 731-TA-120 and 122 (Final), railway freight car journal roller bearings (TBUs) (of three sizes) were the only articles subject to investigation. 30/ Thus it was appropriate to define such bearings as a discrete like product. 31/ In the current investigations, however, a wide range of articles is subject to investigation; and the range includes "tapered roller bearings," a category which encompasses TBUs. 32/

RIV-SKF argues that its metric imports cannot be a cause of material injury to a domestic industry because no other domestic producer manufactures true metric bearings in the United States. $\frac{33}{2}$

^{28/} Like other types of tapered roller bearings, TBUs come in different sizes. USITC Pub. 1497 at A-3. See also RIV-SKF's Prehearing Brief at 4.

^{29/ 19} U.S.C. § 1677(10). (Emphasis added).

^{30/} See 48 Fed. Reg. 44280 (Sept. 28, 1983).

^{31/} See Certain Tapered Roller Bearings and Parts Thereof from Japan, The Federal Republic of Germany, and Italy, USTIC Pub. 1359, Invs. Nos. 731-TA-120 through 122 (Preliminary) at 3-5 and 11 (Mar. 1983); USTIC Pub. 1497 at A-4.

^{32/} See 52 Fed. Reg. 5841 (Feb. 26, 1987).

^{33/} RIV-SKF's Prehearing Brief at 33-37; RIV-SKF's Posthearing Brief at 5-6.

Timken has conceded that its J-Line metric bearings are not identical to standard 3000 series International Standards Organization (ISO) metric bearings, but notes that the J-Line bearings are very similar to the standard 3000 series and are produced according to the ISO specifications for metric bearings. $\frac{34}{}$

Timken's J-Line bearings are the domestic products having characteristics most similar to the Italian metric bearings and both compete in the same segments of the market. 35/ We conclude that such bearings are sufficiently similar in characteristics and uses to be considered as part of the single all-encompassing like product that is to be examined in determining whether a domestic industry is materially injured or threatened with such injury by reason of the Italian imports (of all types).

- (3) Channels of distribution. Tapered roller bearings of various sizes and types also have common or similar channels of distribution. $\frac{36}{}$
- (4) Common Manufacturing facilities and production employees. Some tapered roller bearing producers make bearings of various sizes and types at the same manufacturing facilities and, in some instances, on common production

^{34/} See Invs. Nos. 731-TA-341-346 (Preliminary), Transcript of Proceedings, Conference of Sept. 16, 1986, at 46-48; Timken's Rebuttal Memorandum (Hearing Exhibit No. 3 in Invs. Nos. 731-TA-341 through 346 (Final)) at 5.

^{35/} See Report at A-21; Letter to Kenneth R. Mason from RIV-SKF's counsel, White & Case, dated June 30, 1987.

^{36/} Report at A-27; USITC Pub. 1497 at A-8 and A-9.

machinery. $\frac{37}{}$

For the foregoing reasons, we again conclude that it would not be appropriate to find multiple like products based on sizes, dimensions, physical characteristics, or uses. We therefore determine that there is but a single like product consisting of tapered roller bearings and parts thereof—finished or unfinished; flange, take-up cartridge, and hanger units incorporating tapered roller bearings, and tapered roller housings (except pillow blocks) incorporating tapered rollers, with or without spindles, and whether or not for automotive use.

2. <u>Definition of the Domestic Industry</u>

In the preliminary investigations of imports from Italy and Yugoslavia and in the recently concluded final investigations of imports from Hungary, the PRC, and Romania, we found that there was one domestic industry and that it included all domestic producers. $\frac{38}{}$ We have no reason to revise that definition here. $\frac{39}{}$ Therefore, we again determine that the relevant

^{37/} Report at A-8 and A-9; USTIC Pub. 1497 at A-9.

^{38/} USITC Pub. 1899 at 7-8; USITC Pub. 1983 at 9-10.

^{39/} Several domestic producers have imported—or are related to an exporter or importer of—the merchandise subject to investigation. See Report at A-28, A-31, A-32, and A-55. Section 771(4)(D) of the Act provides in pertinent part that "[w]hen some producers are related to the exporters or importers, or are themselves importers of the allegedly subsidized or dumped merchandise, the term 'industry' may be applied in appropriate circumstances by excluding such producers from those included in that industry." 19 U.S.C. § 1677(4)(B).

(Footnote continued on next page)

domestic industry consists of the ten domestic companies that produced tapered roller bearings and parts thereof during the period under investigation. $\frac{40}{}$

Condition of the domestic industry

In determining the condition of the domestic industry, the Commission considers, among other factors, domestic consumption, U.S. production, capacity, capacity utilization, shipments, inventories, employment, and financial performance. $\frac{41}{}$

The Commission recently examined the condition of the domestic tapered roller bearing industry in the final investigations of imports from Hungary, the PRC, and Romania. In those investigations, for which the Commission had data for the period 1983-1986, we noted adverse trends in many of the

⁽Footnote continued from previous page)

Application of the related parties provision is discretionary, and depends on the Commission's assessment of the facts in each case.

In the instant investigations, we did not apply the provision to exclude any of the aforesaid domestic producers from the domestic industry. The relevant data for each producer are confidential. We note, however, that in 1986, the companies in question together accounted for a relatively small percentage of total U.S. shipments by value. And in each case, either the company's imports accounted for a nominal share by value of its U.S. shipments, or its performance indicators were consistent with the industry as a whole. Including the related producers within the domestic industry therefore does not significantly distort the economic data or fail to provide an accurate picture of the domestic industry as a whole.

^{40/} Those producers are Timken Co., Brenco, Inc., Hyatt-Clark Industries, The Torrington Co., American NTN Bearing Manufacturing Corp., Federal Mogul Corp., Koyo Corp. of U.S.A., NTN-Bower Corp., SKF Industries, Inc., and L&S Bearing Co. See Report at A-14 through A-16.

^{41/ 19} U.S.C. § 1677(7)(C)(iii).

aforesaid indicators traditionally considered by the Commission. $\frac{42}{}$ Although the data in those investigations showed that some of the domestic industry's performance indicators improved from 1983-84, the industry's performance deteriorated from 1985-86, and overall 1986 levels were below those for 1983. $\frac{43}{}$

In the present investigations, the Commission obtained data for the first quarter of 1987. During that period, as compared with the corresponding period in 1986, the declines generally continued in the volume and value of total apparent U.S. consumption of tapered roller bearings, $\frac{44}{}$ and domestic shipments. $\frac{45}{}$ The production of tapered roller bearing cone assemblies and cups also declined, $\frac{46}{}$ as did capacity, $\frac{47}{}$ and capacity utilization for cups. $\frac{48}{}$ Although total compensation per hour was slightly greater during interim 1987 as compared with the corresponding period in 1986, the number of

^{42/} USTIC Pub. 1983 at 10-12.

^{43/} Id.

^{44/} Report at A-25, Table 6.

^{45/} Id. at A-30, Table 8.

 $[\]underline{46}$ / \underline{Id} . at A-29, Table 7. Production of tapered roller bearing sets increased 29.3 percent, however. \underline{Id} .

^{47/} Id. at A-29, Table 7.

 $[\]underline{48}/\underline{1d}$. Capacity utilization for cone assemblies increased during interim 1987, but only by 7.6 percent. $\underline{1d}$.

workers, hours worked, and wages decreased. $\frac{49}{}$ Total inventories increased—in quantity and as a share of U.S. shipments—during interim 1987 compared with the corresponding period of 1986. $\frac{50}{}$ Sales also continued to decline, $\frac{51}{}$ and a net operating loss was incurred. $\frac{52}{}$

On the basis of the information obtained in the current final investigations, we again determine that the domestic tapered roller bearing industry is experiencing material injury.

Cumulation

The Commission is required to cumulatively assess the volume and effect of imports subject to investigation from two or more countries if the imports: (1) compete with other imports and with the domestic like product, (2) are subject to investigation, and (3) are marketed within a reasonably coincident period. $\frac{53}{}$ In the preliminary investigations of imports from Italy and Yugoslavia and in the recently concluded final investigations of imports from Hungary, the PRC, and Romania, we found it appropriate to cumulate the effect of prices and volumes of imports from Hungary, Italy,

^{49/} Id. at A-33, Table 11.

^{50/} Id. at A-31, Table 9.

^{51/} Id. at A-34.

^{52/} Id.

^{53/ 19} U.S.C. § 1677(7)(C)(iv); H.R. Rep. No. 725, 98th Cong., 2nd Sess. 36-37 (1984).

Japan, the PRC, Romania, and Yugoslavia. $\frac{54}{}$ In the present final investigations of imports from Italy and Yugoslavia, no new information has been brought to our attention that leads us to believe that cumulation is inappropriate or that imports from any individual country should be excluded from a cumulative analysis. $\frac{55}{}$ We do note that the imports from Hungary, the PRC, and Romania are now subject to final antidumping orders. $\frac{56}{}$ However, those orders are so recent that it is appropriate to consider those imports for purposes of the present investigations. $\frac{57}{}$ We therefore

^{54/} USTIC Pub. 1899 at 11-14; USTIC Pub. 1983 at 12-15.

⁵⁵/ Compare USTIC Pub. 1983 at A-52 through A-57 and Appendix D with Report at A-62 through A-65 and Appendix D.

^{56/} Supra n.3.

^{57/} The orders became effective on June 15 and 19, 1987. Id. We note that the Commission's preliminary investigations of imports from Hungary, Italy, Japan, the PRC, Romania, and Yugoslavia were instituted simultaneously on the basis of the same Timken petition, and were concluded on the same date. See 19 U.S.C. § 1673a(b); 51 Fed. Reg. 31732 (Sept. 4, 1986); 19 U.S.C. § 1672b(a); 51 Fed. Reg. 36874 (Oct. 16, 1986); USITC Pub. 1899. The Commission's final investigations have different termination dates (supra n. 4) because Commerce extended its deadlines for issuing preliminary and/or final LTFV determinations with respect to imports from the six countries in question. See 19 U.S.C. § 1673d(b)(2); 52 Fed. Reg. 2125 (Jan. 20, 1987) (Japan); See 52 Fed. Reg. 6361 (Mar. 3, 1987) (Italy); 52 Fed. Reg. 6366 (Mar. 3, 1987) as amended at 52 Fed. Reg. 8404 (Mar. 17, 1987) (Yugoslavia); 52 Fed. Reg. 8088 (Mar. 16, 1987) (the PRC); 52 Fed. Reg. 11721 (Apr. 10, 1987) (Hungary); 52 Fed. Reg. 11722 (Apr. 10, 1987) (Japan); 52 Fed. Reg. 11722 (Apr. 10, 1987) (Romania).

^{58/} Commissioner Lodwick notes that Commerce extended its deadline for issuing a preliminary LTFV determination concerning imports from Japan after (Footnote continued on next page)

again determine that there is sufficient competition among the imports from the six countries in question and between the imports and the domestic product for purposes of mandatory cumulation. $\frac{59}{}$ The volume and effect of the imports from the subject countries accordingly will be cumulatively assessed.

Material injury by reason of unfairly traded imports

In determining whether the domestic industry is materially injured "by reason of" LTFV imports from Hungary, the PRC, and Romania, the Commission considers, among other factors, the volume of imports, the effect of imports on prices in the United States for the like product, and the impact of such imports on the relevant domestic industry. $\frac{60}{}$

60/ 19 U.S.C. § 1677(7)(B).

⁽Footnote continued from previous page)
determining that the case was extraordinarily complicated. See 52 Fed. Reg.
2125 (Jan. 20, 1987). He notes further that Commerce extended its deadline
for issuing final LTFV determinations concerning imports from the six
countries in question at the request of certain respondents. See 52 Fed. Reg.
6361 (Mar. 3, 1987) (Italy); 52 Fed. Reg. 6366 (Mar. 3, 1987) as amended at 52
Fed. Reg. 8404 (Mar. 17, 1987) (Yugoslavia); 52 Fed. Reg. 8088 (Mar. 16, 1987)
(PRC); 52 Fed. Reg. 11721 (Apr. 10, 1987) (Hungary); 52 Fed. Reg. 11722 (Apr.
10, 1987) (Japan); 52 Fed. Reg. 11722 (Apr. 10, 1987) (Romania).

^{59/} Commissioner Eckes notes that the volume of imports varies from country to country in these investigations. Some respondents argued against cumulation on the basis that the volume of imports from individual countries are deminimis, or relatively insignificant, and/or declining and thus are not a cause of material injury to the domestic industry. In addressing these contentions, he cites the discussion of the Court of International Trade in USX Corp. v. United States, 655 F. Supp. 487, 492-94 (Ct. Int'l Trade 1987) where the Court discusses the relevance of the "contributing effect test" to the analysis of the impact of imports on the domestic industry. In sum, the Court explains that the "factual connection" between imports and material injury is provided for by the "competition" test in the statutory provisions on cumulation.

As in the recently concluded final investigations of imports from Hungary, the PRC, and Romania, $\frac{61}{}$ we have data for the period 1983-1986, and find that the large and stable volume and penetration of imports and increasing value at a time of declining shipments by the domestic industry, together with evidence of fairly consistent underselling by imports at a time of declining prices, demonstrates that the subject imports are a cause of material injury to the domestic industry.

Additional data obtained in the present investigations for the period January-March 1987 indicate that the volume of cumulated LTFV imports increased significantly during January-March 1987 compared with the corresponding period of 1987. $\frac{62}{}$ The market share of imports in terms of value also increased substantially during interim 1987. $\frac{63}{}$

The additional pricing data obtained reflect general price decreases in the first quarter of 1987 compared with the corresponding period of 1986, and nearly universal underselling by the imports. $\frac{64}{65}$ The record also shows that revenues have been insufficient to cover operating costs. $\frac{66}{6}$

^{61/} USITC Pub. 1983 at 15-16.

^{62/} Report at A-60, Table 26.

^{63/} Id. at A-61, Table 26.

^{64/} Except for certain Japanese tapered roller bearing cups. Id. at A-76.

^{65/} Id. at Tables 38-42.

^{66/} See generally id. at A-34 through A-37.

For the foregoing reasons, we determine that the domestic industry producing tapered roller bearings and parts thereof and certain housings incorporating tapered rollers is materially injured by reason of LTFV imports from Italy and Yugoslavia.

Critical Circumstances 67/

On June 22, 1987, Commerce determined that critical circumstances exist with regard to imports of tapered roller bearings from Italy. $\frac{68}{}$ Thus, for those imports, the Commission must determine whether:

the material injury is by reason of massive imports . . . to an extent that, in order to prevent such material injury from recurring, it is necessary to impose [antidumping duties] . . . retroactively on these imports. $\frac{69}{}$

An affirmative critical circumstances determination involves a finding that, absent retroactive relief, massive imports that occurred after the case was filed but before Commerce made its preliminary determination will prolong or will cause a recurrence of material injury to the domestic industry. The purpose of the provision is to provide relief from a surge of imports that occurred immediately prior to the suspension of liquidation and to deter

^{67/} Having reached an affirmative determination on the issue of critical circumstances, Commissioner Eckes does not join the discussion below. See the Additional Views of Commissioner Alfred Eckes for his findings and conclusions regarding critical circumstances.

^{68/ 52} Fed. Reg. 24198 (June 29, 1987).

^{69/ 19} U.S.C. § 1673d(b)(4)(A).

importers from attempting to circumvent the antidumping laws by massive shipments immediately after the filing of an antidumping petition. $\frac{70}{}$

For the 5-month period between the date the petition was filed (August 25, 1986) and the effective date of Commerce's preliminary LTFV determination as to imports from Italy (February 6, 1987), $\frac{71}{}$ the subject Italian imports were 6.1 percent higher by quantity, compared with the volume of imports during the 5-month period preceding the date the petition was filed. $\frac{72}{}$

Commissioner Lodwick notes that the volume of imports from Italy increased substantially from 1983 to 1986. However, both the volume and percentage increases in 1986 were smaller than in 1984 and 1985, and the increases during September-January 1987 (the time between the preliminary determinations of the Commission and the Department of Commerce) over the preceding five months were even smaller. Further, the volume of imports from Italy remained well below 1 percent of U.S. apparent consumption during the critical circumstances period. In addition, import and shipment data show no indication that importers were stockpiling material during this period. Finally, pricing data provide no indication that importers slashed prices to boost exports to the U.S. during this period. Therefore, he does not find (1) a pattern of import volume which indicates an attempt to circumvent the

^{70/} H.R. Rep. No. 317, 96th Cong., 1st Sess. 63 (1979).

^{71/} See 52 Fed. Reg. 3835 (Feb. 6, 1987).

^{72/} Report at A-65.

antidumping laws, or (2) that the importing during the critical circumstances period will prolong the injury to the domestic industry.

Commissioner Rohr notes that the injury findings required in the context of critical circumstances determinations are made on an individual country basis and that the purpose of the determination is "to prevent such material injury from recurring." $\frac{73}{}$ The courts have stated that the Commission is "to determine whether the extent of massive imports will carry the injury already found to have occurred, beyond its normal duration" $\frac{74}{}$ The statute sets forth no specific factors for the Commission to consider. Commissioner Rohr believes that two obviously important factors are the volumes of imports and of import inventories as these relate to market conditions.

He notes that the volume of imports from Italy did not increase significantly in the 5-month period after the petition was filed but before Commerce issued its preliminary determiniation relative to the preceding 5 months. 75/ Although this volume was substantially greater than the corresponding period of 1985-86, it remained small relative to the total U.S. market. Further, although importers did not provide separate inventory data

^{73/ 19} U.S.C. § 1673d(b)(4)(A).

^{74/} ICC Industries, Inc. v. United States, 632 F. Supp. 36, 40 (Ct. Int'l Trade 1986), affirmed, 812 F.2d 694 (Fed. Cir. 1987).

^{75/} See Report at A-65 and A-66.

for Italian bearings, based on import and shipments data, there is no indication that importers were stockpiling a large inventory of the subject imports from Italy during the 5-month period in question. The finally, he notes that the petitioner provides no other reasonable basis for finding that these imports were having the requisite injurious effect. The cannot conclude from this information that the massive Italian imports found to exist by the Department of Commerce were made in such a manner as to substantially lessen or delay the impact of the duties to be assessed on imports as a result of this investigation. They will not carry the injury "beyond its normal duration."

Commissioners Lodwick and Rohr therefore find that the material injury to a domestic industry in this case is not by reason of massive imports from Italy to an extent that, in order to prevent such material injury from recurring, it is necessary to impose antidumping duties retroactively on those imports.

^{76/} See Id. at A-48 (footnote to Table 20).

^{77/} See Timken's Prehearing Brief at 127-133.

ADDITIONAL VIEWS OF COMMISSIONER ECKES

I respectfully disagree with my colleagues' negative determination on the question of critical circumstances regarding imports from Italy. Based on import data available to the Commission, it is evident that importers attempted to circumvent the trade laws of the United States and anticipated the Department of Commerce's preliminary affirmative determination by shipping massive quantities of tapered roller bearings into the United States before the suspension of liquidation.

Subsequently, the Department of Commerce made an affirmative critical circumstances determination; thus, the Commission has the following statutory mandate:

If the finding of the administering authority [Department of Commerce] under subsection (a)(2) of this section is affirmative, then the final determination of the Commission shall include a finding as to whether the material injury is by reason of massive imports described in subsection (a)(3) of this section[massive imports of the merchandise which is the subject of the investigation over a relatively short period] to an extent that, in order to prevent such material injury from recurring, it is necessary to impose the duty imposed by section [731] retroactively on those imports. 1/

The relevant legislative history to this section of the statute states:

The provision is designed to provide prompt relief to domestic industries suffering from large volumes of, or a surge over a short period of, imports and to deter exporters whose merchandise is subject to an investigation from circumventing the intent of the law

^{1/ 19} U.S.C. 1673d (b) (4) (A).

by increasing their exports to the United States during the period between initiation of an investigation and a preliminary determination by the Authority [Department of Commerce]. 1/

Recent judicial review provides further guidance on the purpose of this determination -- "to prevent the injury from recurring or continuing and inhibits injury by importers who attempt to circumvent the antidumping laws by shipping in massive imports after an antidumping petition is filed with the Commission and the ITA but before suspension of liquidation can occur." 2/

In this investigation the appropriate period for the Commission to examine is the five-month period from September 1986 through January 1987. 3/4/ During this period imports from Italy were 117 percent higher than during the same period one year earlier. Further, imports from Italy during the entire year 1986 were 16 percent higher than in 1985. These trends contrast sharply with the trends encountered in the Commission's earlier negative critical circumstances determination on imports from Romania. 5/ In that instance,

^{1/} H.R. No. 317, 96th Cong., 1st Sess. 63 (1979).

 $[\]overline{2}$ / ICC Industries, Inc. v. United States, 812 F.2d 694, 700 (Fed. Cir. 1987).

^{3/} The Department of Commerce initiated its preliminary LTFV investigation on September 19, 1986, and issued its preliminary LTFV determination on February 6, 1987.

^{4/} My determination is based on data regarding finished tapered roller bearings only, since imports of parts are an insignificant share of Italian imports.

^{5/} See Tapered Roller Bearings and Parts thereof, and Certain Housings Incorporating Tapered Rollers from Hungary, The People's Republic of China, and Romania, Invs. Nos. 731-TA-341, 344, and 345 (Final), USITC Pub. 1983 at 17-19 (June 1987).

imports during the period September 1986 through January 1987 were only 3.7 percent higher when compared with those imports during September 1985 through January 1986. And, there was a 24 percent decline in total 1986 imports from Romania compared with 1985.

Additional analysis of monthly import data indicates that import trends during the relevant period departed from historical trends. The data show imports climbed during the period preceding Commerce's preliminary determination. During the five-month period from September 1985 through January 1986 imports accounted for only 28 per cent of Italian roller bearings imported for the twelve-month period February 1985 to January 1986. But, during the corresponding period September 1986 to January 1987 imports accounted for 47 per cent of all such roller bearings for the twelve-month period February 1986 to January 1987. 1/ Thus, significantly more imports arrived in the short period under consideration after the petition was filed than is consistent with longer-term trends preceding this investigation.

Other information favoring an affirmative critical circumstances finding appears in the monthly trade data. These suggest the surge quality of Italian imports. In November 1986 imports reached 242,000 units--one of the highest monthly totals since January 1985. Slightly higher levels were reached

^{1/} The petition in this investigation was filed in August, 1986. When the August imports are included in this last calculation, the six-month total for Aug. 1986 to Jan. 1987 accounts for almost 70 per cent of imports from Italy for the twelve-month period.

in August 1986 (243,000 units), the month the petition was filed. A decline in imports after the preliminary Commerce determination emphasizes in a different way the significance of abnormally high imports before the preliminary determination. Imports totaled only 35,000 units in February through to May, 1987, compared with 210,000 during the same four-month period in 1986. Once the suspension of liquidation became effective, the increase in imports evident during the pendency of the preliminary determination ceased. Thus, these trends contribute to my conclusion that import growth was motivated by an attempt to enter the U.S. before the Commerce Department suspended liquidation.

I am not persuaded by statements that the imports during the relevant period entered the U.S. market for immediate shipment and thus did not accumulate in inventories. The record suggests that as the result of both the Commission and the Department of Commerce investigations some of the articles subject to this investigation are indeed carried in inventories. 1/ Moreover, the absence of an inventory does not necessarily mandate a negative determination. The Court of International Trade has made it clear that the Commission in making these determinations is not required to isolate

^{1/} See Confidential Memorandum to the Commission from the Acting Director of Investigations, INV-K-092, dated July 29, 1987.

the impact of these massive imports on the domestic industry:

In the opinion of the Court, where a finding has been made that imports priced at less than fair value are being knowingly entered in massive quantities during an investigation, the ITC is not required by law or considerations of fairness to isolate the massive quantities and make them the separate subject of an injury determination.

In those circumstances it is sufficient if the ITC concentrates on the capacity of the massive imports to render ineffectual the normal imposition of duties (prospectively from the date of publication of the preliminary determination) and thereby bring about a recurrence of the material injury primarily caused by normal levels of importation [emphasis added]. 1/

On the basis of information cited above, I conclude:

Before the suspension of liquidation in this investigation, the importers entered massive volumes of imports having no relation to historical trends or other market considerations, such as swings in the cycle or shipment lags. Although the import volume from Italy was small in relation to total market volumes, the Italian import pattern diverged significantly from historical trends, as well as trends from other foreign sources, like Romania. At a time when the domestic industry was experiencing material injury from previous imports, it is clear to me that Italian suppliers increased their imports in order to circumvent the imposition of duties. This has prolonged injury to the domestic industry. It necessitates an affirmative critical circumstances determination.

^{1/} ICC Industries, Inc. v. United States, 632 F. Supp. 36, 40
(Ct. Int'l. Trade 1986), affirmed, 812 F.2d 694 (Fed. Cir.
1987).

.

VIEWS OF VICE CHAIRMAN ANNE E. BRUNSDALE

Tapered Roller Bearings from Italy and Yugoslavia Investigation No. 731-TA-342 and 346 (Final)

August 5, 1987

In this investigation, I concur with Commissioners Eckes,
Lodwick, and Rohr on many points. I agree with their definition
of like product (with reservations), their definition of domestic
industry, and their finding that the domestic industry is
materially injured. I also agree with my colleagues that
domestic producers are materially injured by reason of dumped
imports from Italy, although I use a different analysis; and I
agree that critical circumstances with respect to dumped imports
from Italy are not present in this case. Finally, I disagree
with my colleagues' conclusion that dumped imports from
Yugoslavia have materially injured the domestic industry.

Definition of the Like Product and Domestic Industry

To repeat, I agree that the like product in these investigations is all tapered roller bearings and parts thereof, plus certain housings incorporating tapered rollers, and that the ten producers of that like product constitute the domestic industry. But, I reach my conclusion on the definition of like product with strong reservations.

Of the six factors traditionally relied on by the Commission I in making a like-product determination, several are not satisfied in this case. As I discuss below, there is significant evidence that the quality of the bearings imported from Yugoslavia, as well as from Hungary, the PRC, and Romania, is so low that customers do not view or use these bearings as reasonable substitutes for the higher-quality Italian, Japanese, and U.S. products. Indeed, this evidence is so strong that I would find it difficult to agree with my colleagues' decision on like product in this case if it were not for the controlling language of the statute.

In cases where there is no identical domestic substitute, the statute directs the Commission to examine the domestic

These factors are generally identified as (1) the physical appearance of each product, (2) the uses, (3) whether the products are interchangeable, (4) customer perceptions of the articles, (5) channels of distribution, and (6) whether there are common manufacturing facilities and production employees. Each of these factors is considered on a case-by-case basis. As I have stated in earlier opinions, all of these factors address the essential question of product substitutability from the standpoint of consumers or producers of the products in question. See, e.g., Certain Copier Toner from Japan, Inv. 731-TA-373 (Preliminary), USITC Pub. 1960 at 25 (March 1987) (Concurring views of Chairman Susan Liebeler and Vice Chairman Anne E. Brunsdale).

See 19 U.S.C. 1677(10). The statute defines "like product" as "a product which is like, or in the absence of like, most similar in characteristics and uses with, the article subject to an investigation..."

article. The domestic products most similar to the low-quality roller bearings imported from Yugoslavia, Hungary, Romania, and the People's Republic of China are the high-quality roller bearings produced by the domestic industry. Thus, even though I analyze the issue differently, I reach the same conclusion as my colleagues. Based on my reading of the statute and the facts in this case, I conclude that the like product in these investigations consists of all tapered roller bearings and parts thereof, and certain housings incorporating tapered rollers.

Condition of Industry

In determining the condition of the domestic industry, the Commission considers, among other factors, domestic consumption, U.S. production, productive capacity, capacity utilization, inventories, shipments, employment, and financial

See id.

See Staff Report at A-4. Tapered roller bearings of both low and high quality are designed to absorb both radial and thrust loads created by moving parts in machinery. Both low and high quality bearings have the same basic components.

Id. The differences between low and high quality bearings include the materials used to manufacture these bearings, and the process by which the bearings are produced. See id. at A-7, A-62-65.

Apparent consumption of tapered roller bearings increased from 1980 to 1981, declined from 1981 to 1983, increased from 1983 to 1984, declined from 1984 to 1986, and declined over 10 percent in the first quarter of 1987 when compared with the first quarter of 1986. Domestic production generally paralleled consumption, with U.S. firms producing 193,520,000 tapered roller bearings in 1983, 236,249,000 in 1984, 210,268,000 in 1985, and 180,569,000 in 1986. Domestic production thus increased from 1983 to 1984 and declined thereafter, but ended up in 1986 only 6.7 percent below its 1983 U.S. productive capacity, however, remained generally level. stable during the 1983-1986 period, while capacity utilization jumped sharply from 55 percent in 1983 to over 65 percent in 1984, before settling at approximately 61 percent in the first quarter of 1987.

The figures for domestic shipments and inventories parallel those for consumption and production. Shipments increased from

⁵ | 19 U.S.C. 1677(7)(C)(iii).

⁶See Staff Report at A-25 (Table 6), A-26 (Figure 3).

See Staff Report at A-29 (Table 7). The domestic industry produced 36,800,000 bearings in the first quarter of 1987, compared with 39,023,000 bearings in the first quarter of 1986, a six percent decline. Id.

Id.

e Id.

1983 to 1984 and then declined from 1985 through the first
10
quarter of 1987. Specifically, they fell from 190,391,000
11
units in 1983 to 164,249,000 units in 1986 and from
12
\$612,610,000 in 1983 to \$567,407,000 in 1986. Likewise,
end-of-period inventories increased from 1983 to 1984 and then
13
declined. Inventories were 5.9 percent higher in the first
14
quarter of 1987 than in 1983.

With respect to employment and wages, the number of production and related workers employed in the manufacture of tapered roller bearings declined in the 1983-87 period from 7,506 to 6,191 or about 17.5 percent, and average hourly wages fell from \$12.88 to \$12.02 or about 6.6 percent, as did average total hourly compensation, although to a lesser degree.

¹⁰ <u>See id</u>. at A-30 (Table 8).

Id. Shipments in the first quarter of 1987 were 37,477,000, compared with 44,123,000 in the first quarter of 1986. Id.

¹²See id. at A-30 (Table 8). For the first quarter of 1987, \overline{U} .S. producers shipped bearings valued at \$140,586,000 versus shipments in the first quarter of 1986 valued at \$166,453,000. Id.

See id. at A-31 (Table 9). Inventories did increase slightly in the first quarter of 1987 to 39,044,000 units. Id.

¹⁴ <u>Id</u>.

¹⁵See id. at A-33 (Table 11).

¹⁶ Id.

The financial performance of tapered roller bearing operations of the major U.S. producers was, not unexpectedly, strongest in 1984. The industry experienced operating losses throughout the period of investigation. As a percent of net sales, however, these losses declined from 1985 through the first In addition, the stock price of the Timken quarter of 1987. Company, the largest producer in the U.S. market, is at its highest level in five years, although the price has been fairly stable over that period. In sum, although there is some evidence to the contrary, the record contains evidence that the tapered roller bearing industry experienced difficulties during the period under investigation. I therefore conclude for purposes of this investigation that the domestic industry is suffering material injury.

Cumulation for Assessing Material Injury

Section 771(7)(C)(iv) of the Tariff Act of 1930 requires that the Commission cumulatively assess the volume and price effects of

<sup>17
&</sup>lt;u>See id</u>. at A-35 (Table 12), A-37 (Table 13). The data for the first quarter of 1987 is only available for operations producing tapered roller bearings.

¹⁸Id. at A-37 (Table 13)

<sup>19
&</sup>lt;u>Id</u>. at A-40. The highest price for Timken in 1987 is 73, only 8 points higher than the high of 65 in 1982. <u>Id</u>.

imports from different countries if they are subject to investigation and if they compete with each other and with the 20 domestic like product. Cumulation is intended to allow the Commission to assess injury to domestic industry correctly in situations where the alleged harm is caused by the combined effect of unfair imports from many sources operating in the market.

Petitioner in these investigations urges the Commission to cumulate dumped (LTFV) imports from Yugoslavia and Italy with dumped imports of tapered roller bearings from Japan, Hungary, 21 the People's Republic of China, and Romania. It is

Trade and Tariff Act of 1984, Pub. L. No. 98-573, 98
Stat. 2948, 3033 (codified at 19 U.S.C. 1677(7)(C)(iv). The purpose of this provision, added by Congress in 1984, was to codify and mandate the Commission's previously discretionary practice of applying cumulation on a case-by-case basis.

See Trade and Tariff Act of 1984, Conference Report to Accompany H.R. 3398, H.R. Rep. No. 1156, 98th Cong., 2nd Sess. 173 (1984); see also generally Mock, Cumulation of Import Statistics in Injury Investigations before the International Trade Commission, 7 Nw. J. of L. & Bus. 433, 439-40 (1986).

²¹

See Prehearing Brief of the Timken Company at 53-56.
The Department of Commerce made final determinations that imports from Hungary, Romania, and the People's Republic of China are being sold at LTFV. See Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, from the Hungarian People's Republic; Final Determination of Sales at Less Than Fair Value, 52 Fed. Reg. 17,428 (ITA May 8, 1987); Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From the Socialist Republic of Romania; Final (Footnote continued on next page)

indisputable that bearings from all of these countries were in the domestic market at the same time. Therefore, the only question is whether imports of all of these countries are subject to investigation. The Commission has already made its final determination on bearings from three of the countries that were under investigation -- Hungary, the PRC, and Romania -- and Commerce has instituted its final dumping orders in those cases. I do not think, however, that this fact justifies a refusal to cumulate bearings from those three countries. The Commerce

⁽Footnote continued from previous page) Determination of Sales at Less Than Fair Value, 52 Fed. Req. 17,433 (ITC May 8, 1987); Tapered Roller Bearings From the People's Republic of China; Final Determination of Sales at Less Than Fair Value, 52 Fed. Reg. 19,748 (ITA May 27, The Department of Commerce has made a preliminary determination that imports from Japan are being sold at See Tapered Roller Bearings and Parts Thereof, Finished or Unfinished From Japan; Preliminary Determination at Less Than Fair Value, 52 Fed. Reg. 9,906 (ITA Mar. 27, For a complete discussion of cumulation, see Tapered Roller Bearings and Parts Thereof, and Certain Housings Incorporating Tapered Rollers from Hungary, the People's Republic of China, and Romania, Inv. Nos. 731-TA-341, 344 and 345 (Final), USITC Pub. No. 1983 at 43-53 (June 1987) [hereinafter referred to as Tapered Roller Bearings from Hungary, the PRC, and Romania].

²²

See Tapered Roller Bearings from Hungary, the PRC, and Romania, supra note 21, at 3; Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, from the Socialist Republic of Romania; Antidumnping Duty Order, 52 Fed. Reg. 23,320 (ITA June 19, 1987); Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, from the Hungarian People's Republic; Antidumping Duty Order, 52 Fed. Reg. (Footnote continued on next page)

Department separated these six investigations, which the petitioner had originally filed together, after determining that 23 some of them would require more time. Because all six investigations were filed at the same time and because the time between final determinations is relatively short, I believe it is within the meaning of the statute to cumulate Hungary, the PRC, 24 and China in these investigations.

However, respondents argue that the imports from the Communist countries should not be cumulated with those from Japan or Italy because tapered roller bearings from all of the various importing countries do not sufficiently "compete." Because the facts of these final investigations show that the imports

⁽Footnote continued from previous page)
23,319 (ITA June 19, 1987); Tapered Roller Bearings and
Parts Thereof, Finished or Unfinished, from the People's
Republic of China; Antidumping Duty Order, 52 Fed. Reg.
22,667 (ITA June 15, 1987).

²³ See 19 U.S.C. 1673d(b)(2); 52 Fed. Reg. 2,125 (ITA Jan. 30, 1987) (extension for Japan), 52 Fed. Reg. 6,361 (ITA Mar. 3, 1987) (extension for Italy), 52 Fed. Reg. 6,366 (ITA Mar. 3, 1987) as amended at 52 Fed. Reg. 8,404 (ITA Mar. 17, 1987) (extension for Yugoslavia).

This approach is consistent with previous decisions by the Commission. See, e.g., Certain Welded Carbon Steel
Pipes and Tubes from Taiwan, Inv. No. 731-TA-349 (Final),
USITC Pub. 1994 at 18-20 (July 1987); Butt-Weld Pipe
Fittings from Japan, Inv. No. 731-TA-309 (Final), USITC Pub.
1943 at 8-9, nn.25 and 26 (Jan. 1987).

See, e.g., Brief of Unis Ro Promet at 7.

from the Communist countries are not sufficiently competitive with imports from Japan and Italy, I assess the impact of the Communist bearings on the U.S. industry separately from the impact of the Japanese and Italian bearings.

Central to the question of whether domestic and imported bearings compete with each other is the issue of their 27 substitutability. As I noted in Tapered Roller Bearings from

²⁶

Petitioner contend that the question of whether imports "compete" for purposes of possible cumulation is the same as the "like product" inquiry for purposes of defining the relevant domestic industry. See Prehearing Brief of the Timken Company at 56. The Commission has never agreed with this view although it has been considered in previous cases. See, e.g., Welded Carbon Steel Pipe and Tube from Yugoslavia, Turkey, India, and Taiwan, Invs. 701-TA-251, 252 and 253 (Preliminary) and 731-TA-271, 272, 273, and 274 (Preliminary), USITC Pub. 1742 at 12, n. 28 (August 1985); Oil Country Tubular Goods from Austria, Romania and Venezuela, Invs. 701-TA-240 and 241 (Preliminary) and 731-TA-249-251 (Preliminary), USITC Pub. 1679 at 9 (April 1985). The one case supporting this point of view, American Grape Growers Alliance v. United States, 615 F. Supp. 603 (CIT 1985), was overuled by the Court of Appeals for the Federal Circuit in American Lamb Co. v. United States, 785 F.2d 994 (Fed. Cir. 1986). Moreover, the Court's discussion of this issue in the Grape Growers case was strictly in the context of the Commission's consideration of cumulation at the preliminary phase of the investigation, not the final phase where, as here, the facts have been fully developed. As the court stated: "the decision not to cumulate was erroneous because it depended on a depth of analysis and specificity of information which is unreasonable to expect, and unlawful to demand, in the preliminary phase of the investigation." 615 F. Supp. at 605.

²⁷

The degree of substitutability includes consideration of (Footnote continued on next page)

Hungary, the PRC, and Romania, there is substantial evidence that tapered roller bearings from the Communist countries are inferior to the bearings from Japan and Italy. In addition, bearings from the Communist countries are sold into different, less-demanding segments of the market, are viewed as inferior by purchasers, and are not offered with the same testing and engineering services as bearings from Italy and Japan. Clearly, there is a significant difference between the bearings from the two groups of countries. They are not sufficiently close substitutes to

⁽Footnote continued from previous page)
specific customer requirements and other quality-related
questions. See Certain Carbon Steel Products from Austria,
Czechoslovakia, East Germany, Hungary, Norway, Poland,
Romania, Sweden, and Venezuela, Inv. Nos. 731-TA-213-217,
219, 221-226, and 228-235 (Preliminary), USITC Pub. 1642 at
13 (February 1985). In a case where all LTFV imports are
not substitutable and should not be cumulated, it still
might be appropriate to assess separately the impact of
imports in light of the impact of other unfairly traded
imports even though cumulation is not appropriate.

²⁸

See Tapered Roller Bearings from Hungary, the PRC, and Romania, supra note 21, at 47-49. Those investigations revealed the following facts that clearly indicate that Communist bearings are inferior to Italian and Japanese bearings: the Communist bearings are made of carbon steel, they are "through hardened" instead of "case hardened", they have lower tolerances, they are used in the less-demanding segments of the bearing market, and they are not supported by engineering and technical services. See Tapered Roller Bearings from Hungary, the PRC, and Romania, supra note 20, at A-54-57; Staff Report at A-7, A-21 (Table 4), A-24 (Table 5), and A-62-65. These differences were presented by producers and customers and verified by Commission staff. See id. at A-62-65.

support the cumulation of all imports in the analysis of the causation of potential injury in this case. Accordingly, in this opinion I divide my causation analysis into two parts, cumulating the imports of Japan and Italy in the first part, and cumulating the imports of Yugoslavia, Hungary, the People's Republic of China, and Romania in the second.

Causation Analysis: Material Injury by Reason of LTFV Imports from Italy:

Material Injury. I agree with my colleagues in the majority that dumped imports from Italy have materially injured the domestic industry. However, I arrive at this conclusion using an analysis somewhat different from theirs.

To analyze the effect of dumped imports on the domestic industry, I believe it is necessary to consider, among other key factors, the import penetration ratio for the dumped imports and the dumping margin reported by the Department of Commerce.

The available evidence for Italy and Japan, even though much of it is confidential, did reveal that the dumped imports from the two cumulated countries, Italy and Japan, captured a much greater share of the U.S. market than did the dumped imports from the

For a discussion of the role of import penetration ratio and the dumping margin in assessing harm to a domestic industry, see Memorandum from the Office of Economics, EC-J-010 (January 7, 1986), at 29-31.

low-quality cumulated countries (see below). Moreover, from 1984 through 1986, the market share of these dumped imports was large 30 and stable when measured by quantity, and increased slightly 31 when measured by value. Finally, the number of units sold at less than fair value from these two countries in 1986 was large 32 -- over 40 million units.

The weighted average dumping margins for these two countries 33 are also high. The final margin for Italy is 124.75 percent, and the weighted average margin for Japan, based upon Commerce's 34 preliminary determination, is 19.1 percent. Using these margins, the quantity-weighted average dumping margin for the two countries is greater than 20 percent.

As I noted in my discussion of cumulation, there is a high degree of substitutability between the domestic and the Italian

³⁰See Staff Report at A-60 (Table 26).

See Staff id.

This compares with production by U.S. industry of 180,569,000 units in 1986. See Staff Report at A-29 (Table 7).

Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From Italy; Final Determination of Sales at Less Than Fair Value, 52 Fed. Reg. 24,198 (ITA June 29, 1987).

This figure was calculated from individual margins found in Commerce's preliminary determination. Commerce has not issued a final determination for its investigation of (Footnote continued on next page)

and Japanese bearings. As a consequence, they compete head-to-head in many segments of the tapered roller bearing 35 market. Given close substitutability for the Italian,

Japanese, and U.S. bearings and the high elasticity for domestic 36 supply, the combination of large import penetration ratios and high dumping margins would have been likely to have had an immediate impact on domestic sales. The revenue loss suffered by the domestic industry in such a case would be significant.

The combination of a large weighted-average dumping margin, high product substitutability, and high penetration of dumped imports from these two countries on both a quantity and a value basis leads me to conclude that the cumulated imports from Italy and Japan have caused material injury to the domestic industry.

<u>Critical Circumstances</u>. Petitioner alleged and the Department of Commerce determined that critical circumstances were present in

⁽Footnote continued from previous page)
Japanese producers. Tapered Roller Bearings and Parts
Thereof, Finished or Unfinished, From Japan; Preliminary
Determination of Sales at Less Than Fair Value, 52 Fed. reg.
9,905 (ITA Mar. 27, 1987).

See Staff Report at A-21 (Table 4), A-24 (Table 5).

³⁶See Memorandum from the Office of Economics, EC-K-302 at at 2 (July 28, 1987).

this case with respect to dumped imports from Italy. When Commerce finds critical circumstances, the statute directs the Commission to determine whether the injury in the case is the result of such massive imports that it is necessary to impose duties retroactively to avoid material injury as a result of 38 those imports.

In this case, the level of imports of Italian tapered roller bearings increased somewhat during the five-month period between the initiation of the investigation and Commerce's preliminary 39 determination. However, the imports in that period were only 6 percent greater than the imports for the five months prior to the initiation of the investigation. Second, the staff found no evidence of stockpiling of Italian imports before Commerce's preliminary determination to support the conclusion that the 1 Italians were attempting to evade potential dumping duties. Third, the quantity and value of LTFV imports from Italy were not

See Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From Italy; Final Determination of Sales at Less Than Fair Value, 52 Fed. Reg. 24,198 (ITA June 29, 1987).

³⁸ <u>See</u> 19 U.S.C. 1673d(a)(3), (b)(4)(A).

See Staff Report at A-60 (Table 26).

⁴⁰ Id.

⁴¹ $\underline{\text{See}}$ 19 U.S.C. 1673d(b)(4)(A); $\underline{\text{see}}$ also Staff Report at A-47 (confidential).

high enough to cause the effect anticipated by Congress under 42 this section of the statute. Therefore, I find that critical circumstances are not present in this case.

Material Injury by Reason of LTFV Imports from Yugoslavia:

Material Injury. Dumped imports from the four low-quality cumulated countries, Yugoslavia, Hungary, the PRC, and Romania, were a relatively tiny part of domestic consumption throughout the period of investigation. The share of dumped imports from these four countries was 3.7 percent in 1984, 5.0 percent in 43 1985, and 4.6 percent in 1986 when measured by quantity, and only 0.9 percent in 1984, 1.4 percent in 1985, and 1.2 percent in 44 1986 when measured by value.

The weighted average dumping margins for these four countries were also low. Final margins were 7.42 percent for

⁴² <u>See</u> 19 U.S.C. 1673d(b)(4)(A).

⁴³Staff Report at A-60 (Table 26).

⁴⁴ <u>Id</u>. at A-61 (Table 26).

Hungary, 0.97 percent for the PRC, 8.7 percent for
47

Romania, and 33.61 percent for Yugoslavia. Using these
margins, the quantity-weighted average dumping margin for the
49
four cumulated countries is 11 percent.

As in my previous final determination involving tapered roller bearings, I assume here that the entire dumping margin was 50 passed through to reduce the price of the cumulated imports.

⁴⁵

Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From the Hungarian People's Republic; Final Determination of Sales at Less Than Fair Value, 52 Fed. Reg. 17,428 (ITA May 8, 1987).

⁴⁶

<u>See</u> Tapered Roller Bearings from the People's Republic of China; Final Determination of Sales at Less Than Fair Value, 52 Fed. Reg. 19,748 (ITA May 27, 1987).

⁴⁷

Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From the Socialist Republic of Romania; Final Determination of Sales at Less Than Fair Value, 52 Fed. Reg. 17,433 (ITA May 8, 1987).

⁴⁸

Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From Yugoslavia; Final Determination of Sales at Less Than Fair Value, 52 Fed. Reg. 24,200 (ITA June 29, 1987).

⁴⁹

This margin is slightly overstated because the Department of Commerce concluded that there were no direct, LTFV sales by PRC producers. The dumping margin on PRC goods was determined to exist only on certain sales by a Hong Kong trading company. See Tapered Roller Bearings From the People's Republic of China; Final Determination of Sales at Less Than Fair Value, 52 Fed. Reg. 19,748 (ITA May 27, 1987).

⁵⁰

If, as is likely, the entire dumping margin was not actually passed through to the imported goods, then my analysis overstates the magnitude of the adverse effects on the domestic industry caused by dumped imports.

Thus, I assume that if importers had to pay a "fair" price for these tapered roller bearings, they would have had to pay in the aggregate at most only 11 percent more for the imported product than they in fact paid.

It is obviously impossible to quantify exactly the volume, price, and revenue impacts of the cumulated dumped imports having this price advantage. But we can make a reasonable estimate through the following approach -- using volume and pricing data for 1986, and assuming that domestic demand for total imports would have remained fairly close to its historic performance.

There is no evidence to suggest that the cumulated imports would have disappeared from the market simply because they were priced 11 percent higher. Assuming that overall domestic demand remained constant (or at least did not change in a dramatically different way for imported and domestic products), the cumulated imports would have remained in the market and the quantity of their sales would have depended on their perceived attractiveness to consumers in light of the available alternatives. At the most, 12,006,000 units would have been sold (the number of cumulated units actually sold in 1986) at an average price of 81 cents per unit (the 1986 average price of 73 cents per unit, plus

The reasonableness of this latter assumption is supported by the analysis of the Commission's Office of Economics in Memorandum EC-K-216.

11 percent). At the least, sales of the cumulated imports would have been zero (a circumstance that would occur if consumers switched entirely to the available alternatives).

The principal alternatives available to consumers were the higher quality bearings either produced by domestic companies or imported from Japan and Italy. How many of the sales of cumulated imports would have been sales of domestic bearings if the cumulated imports had been priced 11 percent higher?

For purposes of this analysis, assume that the domestic companies were the only other producers in the market. This assumption eliminates the possibility that the Italian and Japanese would have captured some of the sales, something I am willing to do because Commerce has already found the Italian bearings to be dumped and is now investigating a dumping charge against the Japanese. The assumption also ignores the very real presence of producers from other countries not now subject to dumping investigations — producers that in 1986 accounted for over 3.4 percent (on a value basis) of the sales of all bearings excluding those now subject to dumping investigations.

Making the foregoing assumptions — that is, if the producers of the cumulated imports and the domestic companies were the only

⁵²See Staff Report at A-60-61 (Table 26).

⁵³See Staff Report at A-58-59 (Table 25).

producers in the market -- domestic sales would have increased by 12,006,000 units in 1986 at the <u>most</u>. This result assumes that not a single customer purchased any of the cumulated import products from the Communist producers.

To determine the positive revenue impact on the domestic industry if the cumulated imports had been priced entirely out of the market, it is necessary to make an assumption about the average per-unit price at which the domestic bearings could have been sold to customers who bought the cumulated imports instead. As I noted at the outset, fair pricing on its own would not have eliminated the cumulated imports; it simply would have meant that the cumulated imports would have been priced 11 percent higher -that is at 81 cents per unit (based on actual 1986 average prices of 73 cents plus 11 percent). Ignoring relevant quality differences (whose importance I discuss below), the domestic products would have had to be priced no higher than the same 81 cents per unit (on average) to supplant the cumulated imports completely. At that price, domestic producers would have received additional revenues of only \$9,724,860 if they gained all the sales that went instead to cumulated imports. That amount is only 1.7 percent of the value of the domestic

This revenue figure is derived simply by multiplying the per-unit average price times the number of units of cumulated imports sold in 1986.

industry's actual shipments, less than 1.5 percent of the industry's net sales from roller bearing operations, and less than 1.0 percent of the domestic industry's net sales from establishments producing roller bearings in 1986. I do not believe that a gross revenue loss of only 1.5 percent is material injury within the meaning of the controlling statutes.

The domestic industry's revenue loss caused by the cumulated imports could have been significantly higher than 1.5 percent only if domestic sales could have supplanted the cumulated imports from the Communist producers at average prices materially 56 higher than 81 cents per unit. I find that possibility to be extremely unlikely. It is true that the quality of domestic bearings is significantly greater than the quality of the cumulated imports. In another situation this factor would suggest that the domestic products could be priced somewhat

⁵⁵See Staff Report at A-58-59 (Table 25), A-60-61 (Table 26), A-35 (Table 12), A-37 (Table 13).

⁵⁶

Dumped imports from the Communist countries are not expected to depress domestic prices significantly because these low-quality LTFV bearings and domestic bearings are not close substitutes. Furthermore, an expansion of domestic production by 12 million bearings (an increase of only 6.6 percent over the 1986 production level) would not have had much effect on the price for bearings supplied by the domestic inductry. This is the case because the domestic supply curve is highly elastic regarding price increases. See Memorandum from the Office of Economics EC-K-302 (July 28, 1987) (regarding the supply elasticity of domestic producers).

higher than the inferior imports because some customers would be willing to pay a premium for a better quality product. But the sales at issue in this case are sales to market segments where quality is a distant secondary consideration and price is most important. As I explained above, the evidence is overwhelming that the vast majority of the cumulated imports are sold for use in applications where the higher quality of the domestic product is not a material advantage. In a case such as this, it is not realistic to expect that the domestic producers could supplant sales of the cumulated imports if the domestic goods were priced materially higher than the imported alternatives.

Based on the foregoing analysis, it is apparent that the adverse effect on the domestic industry from dumped imports from the cumulated countries was trivial. Accordingly, I conclude that dumped imports from Yugoslavia, Hungary, Romania, and the PRC were not a cause of material injury.

⁵⁷

Even if the high quality of domestic bearings allowed them to be priced somewhat higher than the cumulated imports, there are other reasons why domestic producers could not reasonably expect to capture all of the historic cumulated import sales and thereby increase their total revenues above the estimated \$9.7 million figure. There is some evidence that some customers do not want to deal with domestic producers at higher or equal prices. See Staff Report at A-83 (confidential). Moreover, there is no reason to believe the quantity of tapered roller bearings demanded is absolutely fixed. If prices were higher as a result of antidumping duties (or simply fair pricing), it is reasonable to assume that there would be at least some decrease in demand for the cumulated imports.

Threat of Material Injury. In a dumping case, the Commission must consider a number of factors when determining whether imports threaten a domestic industry with material injury. These factors include increases in production capacity or existing unused capacity in the exporting country, rapid increases in U.S. market penetration by imports from the exporting country, the probability of price supression or depression in the U.S. market caused by imports from the exporting country, substantial inventories of the product in the United States, and the potential for product-shifting in the exporting country. In the present case, the domestic industry is not threatened with material injury by reason of imports from Yugoslavia.

Taking the above factors in order, the Yugoslavian industry was operating at an extremely high percent of capacity in 1986, indicating almost no ability to flood the U.S. market by 59 producing more bearings. The market penetration of Yugoslavian imports has not increased rapidly over the period; instead, the value and quantity of imports has gone down over the

⁵⁸ See 19 U.S.C. 1677(7)(F)(i).

Id. at A-49. The Staff Report had no indication that the Yugoslavians were planning to expand their production facilities.

60

last several years. Inventory levels have risen somewhat, but are still miniscule when compared with the size of the 61 domestic market. Finally, the record in this investigation indicated no potential for product-shifting based upon outstanding dumping or countervailing duty orders, and contained no evidence that would cause me to believe that Yugoslavian imports had the potential for causing price supression or depression in the U.S. market. Therefore, I determine that the U.S. industry is not threatened with material injury by reason of Yugoslavian imports.

⁶⁰See Staff Report at A-60-61 (Table 26).

⁶¹See id. at A-48 (Table 20) (confidential), A-25 (Table 6).

VIEWS OF CHAIRMAN LIEBELER

Inv. Nos. 731-TA-342 and 346 (Final)
Tapered Roller Bearings and Parts Thereof,
and Certain Housings Incorporating Tapered
Rollers from Italy and Yugoslavia

I determine that an industry in the United States is not materially injured or threatened with material injury by reason of imports of tapered roller bearings and parts thereof, and certain housings incorporating tapered rollers, from Italy and Yugoslavia which the Department of Commerce has determined are being sold at less than fair

value (LTFV). I concur with the majority in its discussion of related parties and definition of the domestic industry. I also concur with the majority in its discussion of like product, albeit with the same reservations advanced by Vice Chairman Brunsdale in her opinion.

With respect to the issue of cumulation, I dissent from the opinion of the majority, and concur with the views expressed by Vice Chairman Brunsdale in her opinion,

Material retardation is not an issue because the industry is well established.

as well as those expressed by the Vice Chairman on pages 43 to 53 of her earlier opinion in the case of <u>Tapered</u>

Roller Bearings and Parts Thereof, and Certain Housings

Incorporating Tapered Rollers From Hungary, the People's

Republic of China, and Romania, Inv. Nos. 731-TA-341, 344, and 345 (Final) (USITC Pub. No. 1983, June

1987) (hereinafter cited as "TRB I"). For purposes of assessing causation of material injury in these investigations, I thus cumulate the imports of Hungary, the People's Republic of China(PRC), Romania, and Yugolavia, and separately cumulate the imports of Italy and Japan. These separate cumulations are based on differences in quality between imports from Hungary, the PRC, Romania, and Yugoslavia, and those from Italy and Japan.

With respect to the issue of condition of the domestic industry, I concur with the views set forth by Vice Chairman Brunsdale in her opinion. What follows are my views with respect to the issue of causation.

Material Injury by Reason of Imports

In order for a domestic industry to prevail in a final investigation, the Commission must determine that dumped or subsidized imports cause or threaten to cause material injury to the domestic industry producing the like product. First, the Commission must determine whether the domestic industry producing the like product is materially injured or is threatened with material injury. Second, the Commission must determine whether any injury or threat thereof is by reason of the dumped or subsidized imports. Only if the Commission finds both injury and causation, will it make an affirmative determination in the investigation.

Before analyzing the data, however, the first question is whether the statute is clear or whether one must resort to the legislative history in order to interpret the relevant sections of the antidumping law. In general, the accepted rule of statutory construction is that a statute, clear and unambiguous on its face, need not and cannot be interpreted using secondary sources.

Only statutes that are of doubtful meaning are subject to such statutory interpretation.

^{2/} Sands, Sutherland Statutory Construction Sec.
45.02 (4th Ed.)

The statutory language used for both parts of the two-part analysis is ambiguous. "Material injury" is defined as "harm which is not inconsequential, immaterial, or unimportant."

This definition leaves unclear what is meant by harm. As for the causation test, "by reason of" lends itself to no easy interpretation, and has been the subject of much debate by past and present commissioners. Clearly, well-informed persons may differ as to the interpretation of the causation and material injury sections of title VII. Therefore, the legislative history becomes helpful in interpreting title VII.

The ambiguity arises in part because it is clear that the presence in the United States of additional foreign supply will always make the domestic industry worse off. Any time a foreign producer exports products to the United States, the increase in supply, ceteris paribus, must result in a lower price of the product than would otherwise prevail. If a downward effect on price, accompanied by a Department of Commerce dumping or subsidy finding and a Commission finding that financial indicators

^{3/ 19} U.S.C. sec. 1977(7)(A)(1982).

were down were all that were required for an affirmative determination, there would be no need to inquire further into causation.

But the legislative history shows that the mere presence of LTFV or subsidized imports is not sufficient to establish causation. In the legislative history to the Trade Agreements Acts of 1979, Congress stated:

[T]he ITC will consider information which indicates that harm is caused by factors other than the subsidized imports.

The Finance Committee emphasized the need for an exhaustive causation analysis, stating, "the Commission must satisfy itself that, in light of all the information presented, there is a sufficient causal link between the less-than-fair-value imports and the requisite injury."

The Senate Finance Committee acknowledged that the causation analysis would not be easy: "The determination of the ITC with respect to causation is, under current

Appendix Appendix Act of 1979, S. Rep. No. 249, 96th Cong. 1st Sess. 58 (1979).

^{5/} Id.

law, and will be, under section 735, complex and difficult, and is matter for the judgment of the ITC." Since the domestic industry is no doubt worse off by the presence of any imports (whether LTFV, subsidized, or fairly traded) and Congress has directed that this is not enough upon which to base an affirmative determination, the Commission must delve further to find what condition Congress has attempted to remedy.

In the legislative history to the 1974 Act, the Senate Finance Committee stated:

This Act is not a 'protectionist' statute designed to bar or restrict U.S. imports; rather, it is a statute designed to free U.S. imports from unfair price discrimination practices. * * * The Antidumping Act is designed to discourage and prevent foreign suppliers from using unfair price discrimination practices to the detriment of a United States industry.

Thus, the focus of the analysis must be on what constitutes unfair price discrimination and what harm results therefrom:

^{6/} Id.

^{7/} Trade Reform Act of 1974, S. Rep. 1298, 93rd Cong. 2d Sess. 179.

[T]he Antidumping Act does not proscribe transactions which involve selling an imported product at a price which is not lower than that needed to make the product competitive in the U.S. market, even though the price of the imported product is lower than its home market price.

This "difficult and complex" judgment by the Commission is aided greatly by the use of economic and financial analysis. One of the most important assumptions of traditional microeconomic theory is that firms attempt to maximize profits. Congress was obviously familiar

to maximize profits. Congress was obviously familiar with the economist's tools: "[I]mporters as prudent businessmen dealing fairly would be interested in maximizing profits by selling at prices as high as the U.S. market would bear."

An assertion of unfair price discrimination should be accompanied by a factual record that can support such a conclusion. In accord with economic theory and the

^{8/} Id.

See, e.g., P. Samuelson & W. Nordhaus, Economics 42-45 (12th ed. 1985); W. Nicholson, Intermediate Microeconomics and Its Application 7 (3d ed. 1983).

^{10/} Trade Reform Act of 1974, S. Rep. 1298, 93rd Cong. 2d Sess. 179.

legislative history, foreign firms should be presumed to behave rationally. Therefore, if the factual setting in which the unfair imports occur does not support any gain to be had by unfair price discrimination, it is reasonable to conclude that any injury or threat of injury to the domestic industry is not "by reason of" such imports.

In many cases unfair price discrimination by a competitor would be irrational. In general, it is not rational to charge a price below that necessary to sell one's product. In certain circumstances, a firm may try to capture a sufficient market share to be able to raise its price in the future. To move from a position where the firm has no market power to a position where the firm has such power, the firm may lower its price below that which is necessary to meet competition. It is this condition which Congress must have meant when it charged us "to discourage and prevent foreign suppliers from using unfair price discrimination practices to the detriment of a United States industry."

^{11/} Trade Reform Act of 1974, S. Rep. 1298, 93rd Cong. 2d Sess. 179.

In <u>Certain Red Raspberries from Canada</u>, I set forth a framework for examining what factual setting would merit an affirmative finding under the law interpreted in light of the cited legislative history.

The stronger the evidence of the following . . . the more likely that an affirmative determination will be made: (1) large and increasing market share, (2) high dumping or subsidy margins, (3) homogeneous products, (4) declining prices and (5) barriers to entry to other foreign producers (low elasticity of supply of other imports).

The statute requires the Commission to examine the volume of imports, the effect of imports on prices, and the

general impact of imports on domestic producers. The legislative history provides some guidance for applying these criteria. The factors incorporate both the statutory criteria and the guidance provided by the legislative history. Each of these factors is evaluated, in turn, for both Italy and Yugoslavia.

^{12/} Inv. No. 731-TA-196 (Final), USITC Pub. 1680, at 11-19 (1985) (Additional Views of Vice Chairman Liebeler).

^{13/} Id. at 16.

^{14/ 19} U.S.C. 1677(7)(B)-(C) (1980 & cum. supp. 1985).

Causation analysis-Italy

Let us start with import penetration data. A large market share is a necessary condition for a seller to obtain or enhance market power through unfair price discrimination. LTFV imports of tapered roller bearings from Italy and Japan were, on a quantity basis, under twenty percent of apparent U.S. consumption from 1983 through the first quarter of 1987. $\frac{15}{}$ On a value basis, Japanese and Italian imports were around ten percent of apparent U.S. consumption during this same time Thus, particularly on a value basis, Japanese and Italian imports have not been large. Moreover, the market share of imports from these countries has been relatively stable. Thus, the first factor is not consistent with the presence of unfair price discrimination.

The second factor is a high margin of dumping or subsidy. The higher the margin, ceteris paribus, the more

^{15/} Report at Table 26.

^{16/} Id.

likely it is that the product is being sold below the \$\frac{17}{2}\$ and the more likely it is that the domestic producers will be adversely affected. While the LTFV margin for Italy is 124.75, the preliminary LTFV margins for Japanese imports are much lower, ranging from 17.62 to 38.90. Since in 1986 imports from Japan were approximately twenty-five times greater than those from Italy, the cumulated weighted dumping margin for these two countries is thus much closer to the Japanese margin than to that for Italy. Based on 1986 quantity figures, the weighted dumping margin for Japan and Italy is under 25 percent. This margin is not large, and does not suggest the presence of material injury.

The third factor is the homogeneity of the products.

The more homogeneous the products, the greater will be the effect of any allegedly unfair practice on domestic producers. While there are some differences, the Japanese and Italian products are basically fungible with domestic

^{17/} See text accompanying note 8, supra.

^{18/} Report at A-19.

^{19/} Report at Appendix C, a-16.

^{20/} Report at Table 26.

products. Thus, this factor is not inconsistent with a finding of unfair price discrimination.

As to the fourth factor, evidence of declining domestic prices, ceteris paribus, might indicate that domestic producers were lowering their prices to maintain market share. For the products investigated, domestic prices have generally decreased from 1984 to March,

21/
1987. Producer prices decreased for seven of the ten available price series, and price declines for these seven series ranged from 1 percent to 41 percent. This factor is thus also not inconsistent with a finding of unfair price discrimination.

The fifth factor is barriers to entry (foreign supply elasticity). If there are barriers to entry (or low foreign elasticity of supply) it is more likely that a producer can gain market power. While 1986 imports from Japan and Italy constituted a clear majority of those tapered roller bearings imported into the United

^{21/} Report at A-89.

^{22/} Report at Tables 27 to 31.

States, tapered roller bearings were also imported from a wide variety of other countries. In 1986, countries from which over 500,000 tapered roller bearing units were imported included: Australia, Brazil, Canada, France, West Germany, Hong Kong, Hungary, Mexico, Romania, While the imports from some of these and Yugoslavia. countries are currently subject to anti-dumping orders and some of these imports as well as others may differ in quality as compared to those from Japan and Italy, the fact remains that imports from a wide variety of countries other than Italy and Japan enter the U.S. market. It thus appears that imports from other countries do constitute a restraint on Japanese and Italian market power, although the precise degree of this restraint is difficult to assess.

All of these factors must be considered in each case to reach a sound determination. While Japanese and Italian imports are essentially homogeneous with U.S. products, it is somewhat difficult to precisely assess

^{23/} Report at Table 22.

^{24/} Official Statistics of the U.S. Department of Commerce, 1986.

barriers to entry, and U.S. product prices have generally been declining, other factors appear to cut against an affirmative determination. As noted earlier, market share plays an important role in determining whether unfair price discrimination could be occuring. In this case the market penetration ratios indicate that what we are observing is not related to unfair price discrimination. These ratios are, particularly on a value basis, rather low and have been relatively stable. In addition, the approximate cumulated quantity weighted dumping margin is not large. Consequently, the evidence in this case is not consistent with finding material injury by reason of dumped imports of tapered roller bearings from Italy.

Causation Analysis-Yugolsavia

Examining import penetration data is relevant because unfair price discrimination has as its goal, and cannot take place in the absence, of market power. Imports of tapered roller bearings from Hungary, the PRC, Romania and Yugoslavia have been small, whether measured on a quantity or a value basis. On a cumulated quantity basis, these

imports represented 4.3 percent of U.S. consumption in 1983, 3.7 percent in 1984, 5.0 percent in 1985, 4.5 percent in 1986, and 7.7 percent for the first quarter of 25/20 On a cumulated value basis, imports from these countries constituted 1.1 percent of U.S. consumption in 1983, 0.9 percent in 1984, 1.4 percent in 1985, 1.2 percent in 1986, and 1.7 percent for the first quarter of 1987. Thus imports from Hungary, the PRC, Romania, and Yugoslavia account for a very small and relatively stable market share. Consequently, the first indicator suggests that unfair price discrimination conditions are not likely to exist.

The second factor is a high margin of dumping or subsidy. The higher the margin, ceteris paribus, the more likely it is that the product is being sold below the competitive price—and the more likely it is that the domestic producers will be adversely affected. The Department of Commerce has calculated the percentage dumping margin for imported tapered roller bearings from

^{25/} Report at Table 26.

^{26/} Id.

^{27/} See text accompanying note 8, supra.

Hungary to be 7.42 percent , the margin for Romanian imports to be 8.70 percent , the margin for imports from the PRC to be 0.97 percent , and the margin for imports from Yugoslavia to be 33.61 percent. The weighted dumping margin for these countries based on 1986 imports is approximately 11.0 percent. This weighted margin is not large, and not consistent with a finding of unfair price discrimination.

The third factor is the homogeneity of the products.

The more homogeneous the products, the greater will be the effect of any allegedly unfair practices on domestic producers of the like product. While tapered roller bearings from Hungary, Romania, the PRC and Yugoslavia do meet minimal professional standards, there is considerable evidence that roller bearings from these countries are inferior in quality to American bearings and to bearings

^{28/} Report at Appendix C, a-18.

^{29/} Report at Appendix C, a-23.

^{30/} Report at Appendix C, a-30.

Report at Appendix C, a-40. This is the same as the preliminary dumping margin for this country. See generally TRB I at 30 (Views of Chairman Liebeler).

32/

made in other countries. Among other things, bearings from these countries generally have lower tolerances and fatigue life and less precise geometries than their American, Japanese, and Italian counterparts. As a consequence, sales of these lower quality bearings are generally restricted to the low-end, less-demanding segments of the tapered roller bearing market. There also appear to be some distinct differences in the level of services provided by importers/distributors of bearings from these countries and those provided by U.S. producers and importers/distributors from tother countries. find that imported tapered roller bearings from Hungary, the PRC, Romania, and Yugoslavia are generally not close substitutes for domestic products.

As to the fourth factor, evidence of declining domestic prices, ceteris paribus, might indicate that domestic producers were lowering their prices to maintain

^{32/} Report at A-79 to A-85.

^{33/} Report at A-79.

^{34/} Report at A-80.

^{35/} Report at A-85.

market share. For the products investigated, domestic prices have generally decreased from 1984 to March, $\frac{36}{}$ Producer prices decreased for seven of the ten available price series, and price declines for these seven series ranged from 1 to 41 percent. Thus, the price data are not inconsistent with a finding of unfair price discrimination.

The fifth factor in the five factor test is barriers to entry (foreign supply elasticity). If there are barriers to entry (or low foreign elasticity of supply) it is likely that a producer can gain market power. Imports from Hungary, the PRC, Romania, and Yugoslavia account for a small minority of U.S. imports of tapered roller bearings and parts thereof. Japanese and Italian imports make up the lionshare of the tapered roller bearings coming into the United States , although bearings are also imported from a wide variety of other countries including Australia, Brazil, Canada, France,

^{36/} Report at A-89.

^{37/} Report at Tables 27 to 31.

^{38/} Report at Table 26.

^{39/} Id.

Mexico, and West Germany. While imports from some of the above countries may differ in quality with those from Hungary, the PRC, Romania, and Yugoslavia, and while imports from Japan and Italy are currently subject to preliminary anti-dumping determinations, the fact remains that vast numbers of imports from countries other than Yugoslavia and the countries cumulated with it enter the United States each year. It thus appears that imports from other countries do constitute a strong restraint on Hungarian, Romanian, PRC, and Yugoslavian market power, although the precise degree of this restraint is difficult to assess.

These factors must be balanced in each case to reach a sound determination. While domestic producer prices have been declining, and it is somewhat difficult to precisely assess barriers to entry, all other factors rather clearly support a negative determination on the issue of material injury. Import penetration is very small, the quantity weighted LTFV margin is low, and the products are not homogeneous with domestic products.

Thus, there is no indication of material injury by reason

^{40/} See note 24 supra and accompanying text.

of dumped imports of tapered roller bearings and certain housings incorporating tapered rollers from Yugoslavia.

Threat of Material Injury-Italy

In determining whether an industry in the United States is threatened with material injury by reason of imports the Commission takes into consideration various factors including the rate of increase of the subject imports, the rate of increase in U.S. market penetration by such imports, increases of imports held in inventory in the United States, and the capacity of producers in the exporting countries to generate exports. For the most recent annual period for which there is available data, 1986, imports of tapered roller bearings from Italy and from Italy and Japan together increased only minimally over the previous year. Moreover, combined 1986 Italian and Japanese imports were lower than those of two

^{41/} See 19 U.S.C. sec. 1677(7)(F).

^{42/} Report at Table 26.

years earlier in 1984. While import penetration figures for Japan and Italy together were somewhat higher in 1986 than in 1985, these figures were, on a quantity basis, lower in 1986 than in 1984. In addition, 1986 Italian import penetration was, on a quantity basis, the same as in 1985. Moreover, the prices do not indicate that the imports would cause future injury. These figures thus do not indicate that the domestic industry faces threat of material injury which is "real" and actual injury which is "imminent" by reason of these imports.

Other data also support this conclusion. In 1986, the Italian market was operating at very high levels of capacity indicating almost no ability to sharply increase U.S. market share by producing more bearings.

Overall Italian production of tapered roller bearings has,

^{43/} Id.

^{44/} Id.

^{45/} Id.

^{46/} See 19 U.S.C. sec. 1677(7)(F)(ii).

^{47/} Report at Table 21.

however, fallen in recent years. Importer inventories of Italian bearings are virtually non-existent, and inventories of Japanese and Italian bearings combined have fallen in recent years. I thus find that the domestic industry is not threatened with material injury by reason of imports of tapered roller bearings and parts thereof and certain housings incorporating tapered rollers from Italy.

Threat of Material Injury-Yugoslavia

As noted above, in determining whether an industry in the United States is threatened with material injury by reason of imports the Commission takes into consideration various factors including the rate of increase of the subject imports, the rate of increase in U.S. market penetration by such imports, increases of imports held in inventory in the United States, and the capacity of producers in the exporting countries to generate

^{48/} Id.

^{49/} Report at Table 20.

exports. For the most recent annual period for which there is available data, imports of tapered roller bearings from Yugoslavia fell considerably as did combined imports from Hungary, Romania, the PRC, and Yugoslavia. Import penetration from Yugoslavia individually, and from Yugoslavia, the PRC, Hungary, and Romania combined, also declined over the past year, whether measured on a quantity or value basis. These figures clearly cut against a determination that the domestic industry is threatened with material injury by reason of these imports.

Other data also support this conclusion. In 1986, the Yugoslavian market was operating at very high levels of capacity indicating almost no ability to should increase U.S. market share by producing more bearings. Overall Yugoslavian production of tapered roller bearings has, however, remained stable or fallen

^{50/} See 19 U.S.C. sec 1677(7)(F).

^{51/} Report at Table 26.

^{52/ &}lt;u>Id.</u>

^{53/} Report at Table 21

slightly in recent years. Importer inventories of Yugoslavian bearings have increased somewhat over the past year, but remain very small when compared with the size of the domestic market. Moreover, combined inventories from Yugoslavia, the PRC, Hungary, and Romania have been essentially stable or declining. In addition, the prices do not indicate that the imports would cause future injury. I thus find that the domestic industry is not threatened with material injury by reason of imports of tapered roller bearings and parts thereof and certain housings incorporating tapered rollers from Yugoslavia.

Conclusion

Therefore, I conclude that an industry in the United States is not materially injured or threatened with material injury by reason of dumped imports of tapered roller bearings and parts thereof, and certain housings incorporating tapered rollers from Italy and Yugoslavia.

^{54/} Id.

^{55/} Report at Tables 20 and 26

^{56/} See TRB I at 35 & n.34 (Views of Chairman Liebeler).

INFORMATION OBTAINED IN THE INVESTIGATIONS

Introduction

Following preliminary determinations by the U.S. Department of Commerce that imports from Italy and Yugoslavia of tapered roller bearings and parts thereof, and certain housings containing tapered rollers 1/ are being sold in the United States at less than fair value (LTFV), the U.S. International Trade Commission instituted antidumping investigations Nos. 731-TA-342 and 346 (Final) to determine whether an industry in the United States is materially injured, or threatened with material injury, by reason of the subject imports.

The petition leading to these investigations also covered imports of the subject products from Hungary, the People's Republic of China (China), Romania, and Japan. As a result of Department of Commerce extensions, however, the Commission's schedules for the conduct of investigations on imports of tapered roller bearings from Italy, Yugoslavia, and Japan are later than those for China, Hungary, and Romania. 2/ The Commission's hearing on May 12, 1987, covered all six countries, however, and this report includes trade data on all of those countries. Notice of the institution of the Commission's antidumping investigations and of the public hearing held in connection with them was given by posting copies of the notice in the Office of the Secretary, U.S. International Trade Commission, Washington, DC, and by publishing the notice in the Federal Register of February 26, 1987 (52 F.R. 5841). 3/

Background

On August 25, 1986, a petition was filed with the U.S. International Trade Commission and the U.S. Department of Commerce on behalf of The Timken Co. (Timken), Canton, OH, alleging that imports of tapered roller bearings and parts thereof, finished or unfinished, and certain housings containing tapered rollers from Hungary, Italy, Japan, The People's Republic of China, Romania, and Yugoslavia are being sold at LTFV and that an industry in the United States is materially injured and threatened with material injury by reason of

^{1/} Tapered roller bearings and parts thereof and certain housings containing tapered rollers are imported under Tariff Schedules of the United States (TSUS) items 680.30, 680.39, 681.10, 692.32, and elsewhere as provided for in the TSUS.

^{2/} The Commission made affirmative determinations (Chairman Liebeler and Vice Chairman Brunsdale dissenting) in the investigations involving Hungary, the People's Republic of China, and Romania (invs. Nos. 731-TA-341, 344, and 345). The vote was taken on May 27, 1987, and the Commission transmitted its determinations to the Department of Commerce on June 5, 1987. Commerce is scheduled to make its final determination on imports from Japan on Aug. 10, 1987. Supplemental briefs and a supplemental staff memorandum will be submitted to the Commission following Commerce's final LTFV determination on Japan, if that determination is affirmative.

^{3/} Copies of the Commission's notices are presented in app. A. A list of witnesses who appeared at the Commission's hearing is presented in app. B. The Commission's authority to conduct these investigations is under section 735(b) of the Tariff Act of 1930 (19 U.S.C. 1673d(b)).

such imports. Accordingly, effective August 25, 1986, the Commission instituted antidumping investigations Nos. 731-TA-341-346 (Preliminary) under section 733(a) of the Tariff Act of 1930 (19 U.S.C. 1673b(a)) to determine whether there was a reasonable indication that an industry in the United States is materially injured or threatened with material injury, or the establishment of an industry in the United States is materially retarded, by reason of such imports. In a public briefing and vote held on October 2, 1986, the Commission unanimously determined that there was such a reasonable indication of material injury.

Previous Investigations and Scope of the Current Investigations

In addition to the cases just mentioned on imports from China, Hungary, and Romania, tapered roller bearings have been the subject of four other investigations conducted by the Commission. In 1974, upon advice (as amended) from the U.S. Department of the Treasury that tapered roller bearings from Japan were being, or were likely to be sold at LTFV, the Commission conducted an investigation under section 201(a) of the Antidumping Act, 1921 (19 U.S.C. 160 (a)). In that investigation, No. AA1921-143, the Commission determined that an industry in the United States was likely to be injured by reason of LTFV imports of tapered roller bearings, including inner race or cone assemblies and outer races or cups, from Japan. 1/ The Treasury Department subsequently published its finding of dumping with regard to these imports (41 F.R. 34974, Aug. 18, 1976).

The Department of Commerce has since clarified the scope of this antidumping order and revoked the order with respect to one Japanese producer. The outstanding dumping order at present applies only to finished tapered roller bearing sets, cone (inner race) assemblies, and cups (outer races) of four inches or less in outside diameter (46 F.R. 40550, Aug. 10, 1981) and excludes these bearings produced by NTN Toyo Bearing Co. Ltd. (NTN Toyo) (47 F.R. 25757, June 15, 1982). The revocation of the antidumping order for NTN Toyo was appealed by the petitioner to the U.S. Court of International Trade (CIT), which remanded the case to Commerce for redetermination. During the second remand ordered by the CIT, Commerce determined that LTFV sales by NTN Toyo had occurred during the period for which it had previously based its revocation decision. Accordingly, Commerce has recently recommended to the CIT that Commerce's revocation be rescinded with regard to NTN Toyo. Commerce stated in its notice of preliminary determination of LTFV sales from Japan that "if during the course of this investigation the Department rescinds its revocation with respect to NTN and that rescission is affirmed by final judicial order, this antidumping investigation would be terminated with regard to any bearings manufactured by NTN that would be covered by the outstanding dumping finding" (52 F.R. 9906, Mar. 27, 1987).

^{1/} Tapered Roller Bearings and Certain Components Thereof from Japan, USITC Publication 714, January 1975.

In March 1983, the Commission conducted preliminary investigations Nos. 731-TA-120-122 (Preliminary) under section 733(a) of the Tariff Act of 1930 concerning railway freight car journal roller bearings from Japan, the Federal Republic of Germany (West Germany), and Italy. 1/ The Commission determined that there was a reasonable indication of material injury to the domestic industry, and on August 30, 1983, Commerce determined that imports from Japan and Italy (but not West Germany) were being sold in the United States at LTFV. Accordingly, the Commission instituted final antidumping investigations under section 735 of the Tariff Act of 1930 on certain tapered roller bearings and parts thereof from Japan and Italy (investigation Nos. 731-TA-120-121 (Final)), but made negative determinations with respect to both investigations. 2/

Finally, following receipt of a request dated March 29, 1985, from the Chairman of the Subcommittee on Trade of the House Committee on Ways and Means, the Commission instituted investigation No. 332-211, a competitive assessment of the U.S. ball and roller bearing industry under section 332(b) of the Tariff Act of 1930 (19 U.S.C. 1332(b)), and reported to the subcommittee on January 2, 1986. The investigation evaluated the competitive position of the U.S. industry producing antifriction balls and rollers and ball and roller bearings in domestic and world markets. 3/

The Product

The scope of these investigations as defined by the Department of Commerce includes tapered roller bearings, finished and unfinished components of tapered roller bearings, and certain mounted and self-contained tapered roller bearings. 4/ Each of these products is discussed in detail below in the sections on product description and manufacturing process, as well as in the section on U.S. tariff treatment. However, Commission staff has determined that not all of the products included within the scope of the investigation are produced by the U.S. tapered roller bearing industry or are imported from the countries subject to investigation. A discussion of this issue is presented in the section following U.S. tariff treatment.

Description and uses

Tapered roller bearings are part of the larger product category of antifriction bearings. Antifriction bearings are machine components that permit free motion between moving and fixed parts by holding or guiding the moving parts to minimize friction and wear. In a bearing, a series of rollers

^{1/} Certain Tapered Roller searings and Parts Thereof from Japan, the Federal Republic of Germany, and Italy, USITC Publication 1359, March 1983.
2/ Certain Tapered Roller Bearings and Parts Thereof From Japan and Italy,

USITC Publication 1497, February 1984.

^{3/} Competitive Assessment of the U.S. Ball and Roller Bearing Industry, USITC Publication 1797, January 1986.

^{4/} For a precise definition of Commerce's scope, see its notices presented in app. C.

or balls are usually mounted in a separator called a cage and enclosed between two rings called races. The rolling elements are very important, since they transmit the physical load or force from the moving parts to the stationary support. The two principal types of antifriction bearings are ball bearings and roller bearings, depending on which type of rolling elements are employed. Tapered roller bearings are preferred instead of ball bearings for many applications because they are able to absorb both radial and thrust loads, unlike ball bearings, which typically withstand only radial force. 1/

Tapered roller bearings are designed and sized for specific applications in a variety of products and industries. Sizes vary considerably, from one—half inch in outside diameter to over 100 inches in outside diameter. The principal applications for these bearings are in automotive equipment, farm and industrial machinery, construction equipment, conveyors, railroad equipment, and various miscellaneous vehicles. 2/ Tapered roller bearings are also precision machine parts, with acceptable variances in their dimensions often measured in millionths of an inch. 3/

There are four basic components in a tapered roller bearing: the cup, the cone, the cage, and the rollers. Figure 1 illustrates an assembled tapered roller bearing, as well as the individual components and nomenclature associated with the products. The cup, also called the outer ring, is the largest part of the assembly, and its inner surface is tapered to conform with the angle of the roller assembly. The narrow edge of the cup is called the front face and the wide edge is called the back face. The cage keeps the rollers equally distributed around the cup and cone. Industry sources indicate that while pressed steel cages dominate the market, nylon (polymer) cages are used in small industrial applications and in some automotive uses. The tapered rollers (rolling elements) fit into openings in the cage. The number of rollers is a function of the size of the cages, which is determined by the end usage of the bearing. The cage, rollers, and cone are joined together to form a cone assembly, which, when joined with a cup, forms a tapered roller bearing set. Sets, cone assemblies, and cups are the three major market products; rollers, parts, and unfinished components are rarely sold as a commodity in the U.S. market.

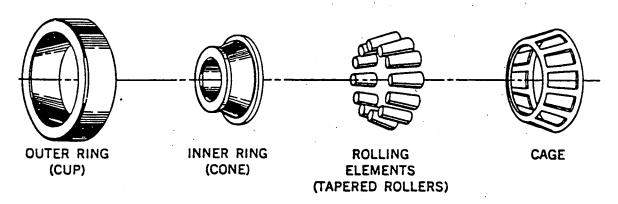
Sets, cone assemblies, and cups are specified by part numbers that are based on standardized industry designations. Generally the part number will indicate such important characteristics as the outside and inside diameter, roller angle, and various interchange dimensions. Bearing industry officials indicate that for the same part numbers, only the internal geometries and

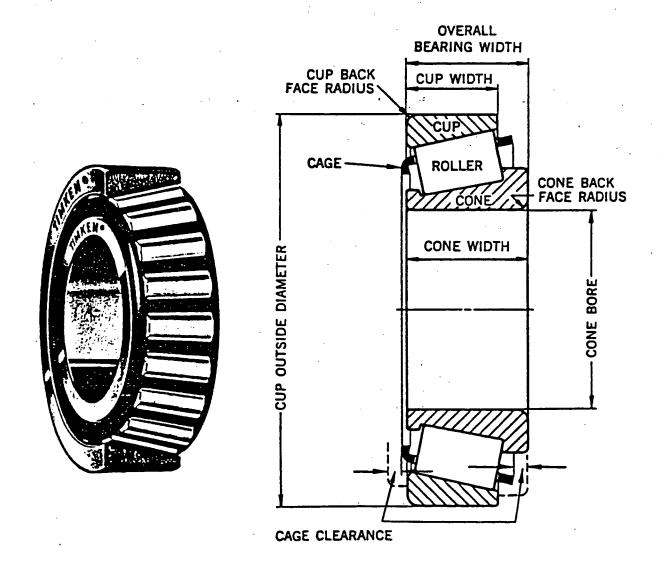
^{1/} Radial loads are those perpendicular to the axis of rotation, whereas thrust loads are normally parallel to the level of rotation. "Bearing, Antifriction," in McGraw-Hill Encyclopedia of Science and Technology, 1977, p. 129.

^{2/} Competitive Assessment of the U.S. Ball and Roller Bearing Industry, USITC Publication 1797, January 1986, p. 11.

^{3/} This range, or variance, in the dimensions of a bearing is called "tolerance."

Figure 1
Tapered Roller Bearing





ource: The Timken Company training materials

tolerances will be different, regardless of manufacturer. 1/ The remaining specifications will be constant, allowing for a degree of standardization in the industry. There are two basic systems of standardization in tapered roller bearings. The AFBMA (Antifriction Bearing Manufacturers Association) system specifies dimensions in inches whereas the ISO (International Standards Organization) system uses metric specifications.

The choice of which specific tapered roller bearing or component to use relates to such factors as the load-carrying ability of the assembly, the type of loads to be carried, and the desired useful life of the bearing. Tapered roller bearings are employed when it is necessary to counteract friction caused by both radial and thrust loads on axles and in various machinery. Life expectancy is based on the results of tests on a large number of identical bearings under comparable conditions. The life expectancy of a tapered roller bearing is expressed as a certain number of hours at a designated number of rotations and load. The figure assumes that 90 percent of all bearings will achieve their life expectancy under the listed conditions.

The price of a tapered roller bearing typically includes all related engineering and servicing functions to integrate the bearing into the final product. This often involves detailed consultations at the design stage. Additionally, bearings come with a warranty of 1 to 2 years for materials and workmanship. In recent years, however, there has been pressure from various end users for warranties exceeding 3 years.

In regard to refurbishing tapered roller bearings, only very large bearings are typically remachined. This operation involves the regrinding of some of the components and the installation of a new cage. It is not cost effective to perform this work on smaller bearings, as the labor and material costs would be only slightly less than the cost of a new product. Bearings used in milling and rolling machines, mining equipment, and railroad journal bearings are the only major bearing types normally refurbished.

Roller and ball bearings in general are not functionally interchangeable, although the original determination of which type of roller element (i.e., ball or tapered roller) to use is sometimes an engineering choice at the initial design phase of the product incorporating the bearing. As stated earlier, the choice would depend on the amount and type of load—carrying ability, as well as other factors. However, industry sources have indicated that as production of automobiles has trended toward smaller, lighter weight, front—wheel drive vehicles, there has been some substitution of ball bearings for the tapered roller bearings that had previously been used. 2/ Neverthe—less, in many industrial applications of both radial and thrust loads, there is a much lower degree of interchange between roller and ball bearings.

^{1/} Internal geometries relate to the precise configuration of rollers, cones, and cups—all of which have slightly crowned surfaces to minimize friction by minimizing the points of contact between components. The specific tolerances and internal geometries are proprietary to each manufacturer.

2/ "Availability is the key for the 1980's," Purchasing, Feb. 10, 1983, p. 60.

Industry sources and respondents in these investigations indicate that there are distinct qualities of tapered roller bearings in the U.S. market—a poorer quality bearing from China, Hungary, Romania, and Yugoslavia that serves the low end of the U.S. market, and superior bearings from the United States, Japan, and Italy that serve the major OEM markets. The differences in quality of these two groups of bearings are discussed in this report in the section entitled "Cumulative effects of imports under investigation."

Self-contained tapered roller bearing packages.—Self-contained tapered roller bearing packages include cartridge bearing units and wheel hub units. Cartridge bearing units are prelubricated, preset, double-row tapered roller bearings that contain the cone assemblies sealed within a tapered roller bearing cup. 1/ Bearing cartridge units are a relatively new product in the U.S. market (about 10 years), but they have been used extensively in Europe for about 30 years (although the European bearings incorporate ball bearings and not tapered roller bearings). Bearing cartridge units, both the ball and tapered roller styles, are used almost exclusively in the United States on the front axle of front wheel drive cars. 2/ These units eliminate the need for adjustment of the close tolerances required with the traditional assembly of separate bearings and components, and are lighter and easier to assemble than the separate bearing components. 3/ Industry sources indicate the units were developed in response to requirements by the automobile industry for more modular assemblies, in addition to lighter weight components.

Wheel hub units are also prelubricated, preset, double—row tapered roller bearings that have been sealed; however, instead of a cup, the cone assemblies are sealed into a cast, flanged housing with bolt holes for direct mounting onto the wheel hub. The flanged housing performs as the outer race of the bearing, taking the place of the typical tapered roller bearing cup. The useful life of both of these types of bearing units is the life of the automobile, and the next generation of the self—contained units will have flanged inner and outer rings as part of the assembly. This will allow it to take over the functions of other, usually separate, components in the wheel hub system. Cartridge bearing units and whell hub units incorporating tapered rollers are directly substitutable with ball bearing units for certain part numbers, and in most cases a ball bearing unit or a tapered roller bearing unit may be selected at the initial design stage of the automobile. 4/

Mounted bearing units.—Mounted bearing units covered by this investigation are flange, cartridge, take-up, and hanger assemblies. These assemblies are premounted bearings and may incorporate ball bearings, tapered roller bearings, or other types of antifriction bearings. Mounted bearing units consist of the bearing element that is set and sealed into a housing, which is then mounted onto a machine frame. Mounted bearing units allow the movement of a shaft through the housing itself, with flange, take-up, and cartridge units each providing for a different positioning of a shaft within or on a machine frame. 5/

^{1/} Timken, the major U.S. producer of these bearings, has trademarked them as Unipac and Unipac Plus. Unipac Plus is the flanged version of this type of bearing, and ***.

^{2/} There is also a limited application for these units for engine fan hubs.

^{3/} Because these units are preset, ***.

^{4/} Interview with officials of The Timken Co., Sept. 11-12, 1986.

^{5/} Machine Design, "Bearing Reference Issue," Mar. 10, 1966, vol. 38, no. 6.

Finished and unfinished components of tapered roller bearings.— Finished components of tapered roller bearings are the rollers, cages, cones, and miscellaneous small parts (i.e., spacers and seals) that have been completely machined and polished and are ready for final assembly into a tapered roller bearing. The industry considers the finished cup to be a tapered roller bearing of the same genre as the cone assembly and not a component of a tapered roller bearing. Unfinished bearing components are the cones, cups, and rollers that have been green machined and heat treated (see section on the manufacturing process) but that require final finishing, as described later in this report, before they can be assembled or finished into a tapered roller bearing and thus act as an antifriction device.

Manufacturing process 1/

There are four major steps in the production of tapered roller bearings: green machining, heat treating, finishing, and assembly and inspection. Special bearing grade alloy steel in the form of 12 to 15 foot seamless tubing is the raw material utilized in the production of most cups and cones, while alloy wire, in the form of coils, is the base material for roller manufacture. There is a generally accepted minimum industry standard for the steel utilized in tapered roller bearing production; however, the raw material used by most bearing manufacturers exceeds this standard in quality.

Green machining is an industry term that relates to the machining operations performed on the raw materials prior to heat treatment for cups, cones, and rollers. For cups and cones, the steel tubing is machined on single or multiple screw machines. When the desired contour and shape is reached, the cup or cone is sheared off the end of the tube. The green machining of the cone, however, involves more steps because of the increased complexity of the design and function of this component. The cones and cups are then inspected and electronically gauged to ensure adherence to the prescribed specifications.

The next operation involves the removal by a chambering machine of the "burr," the sharp edge of the cups and cones. The country of origin, part number, and company are then stamped on the product for identification. The green machining of rollers begins with coil wire drawn into a cold header machine where the rollers are sheared in rapid succession and are "headed" or butted in a die to form the desired shape. The bearing components are then

I/ Although there are major similarities in the production process between firms, especially with regard to heat treating and final finishing, a few U.S. producers use a "hot roll ring forming" process instead of green machining. This method involves the feeding of steel bars into an electric induction furnace where the bars are heated to almost 2,200 degrees. Prescribed lengths of the heated bars are then sheared, and the slugs are pressed and pierced in a rapid succession of dies to form a donut shape. Removal of the burr, heat treatment, carburization, and finishing operations are comparable to those utilized in the green machining process. The reported advantages of hot roll ring forming include cheaper raw materials, greatly reduced waste, and a grain structure which gives longitudinal and transverse strength. Industry sources indicate, however, that hot roll ring forming is really viable only for bearings greater than 4 pounds in weight.

heat treated in a two-stage process to ensure durability, hardness, and shock resistance. The first step in this process, carburization, heats the green—machined components in a carbon rich atmosphere to impregnate carbon into the surface of the product. After quenching (emersion in an oil bath) the high-carbon case becomes very hard, while the lower carbon core remains comparatively soft. The high carbon content of the outer layer ensures that the rolling contact surfaces will be hard and wear resistant, while the "softer" core enables the bearing to absorb shocks more easily. Although the vast majority of tapered roller bearings produced in the United States are "case hardened," there are some bearings that are "through hardened"; that is, these bearings have not been carburized, but simply heat treated.

After carburization, the components are placed in a hardening furnace and heated to high temperatures for an extended period of time. This stage of heat treatment permanently fixes the carbon in the bearing component. To complete this process, the cups and cones are "plugged" in a stamping die to reshape them (the heating process distorts their size) and quenched in an oil bath. On average, the heat treatment process takes 10 to 12 hours to complete.

The third phase of production—finishing—consists mainly of a series of grinding and honing operations to ensure the components are sized to the required precise tolerances and polished to ensure the smoothest possible rolling surface. Cup and cone grinding are done in various steps as shown in the following tabulation:

<u>Grinding steps</u>	Cup	Cone
1st	outside diameter grind inside diameter	face or cone grind race or outside diameter grind bore or inside diameter grind rib face grind

Honing involves the polishing of the inside diameter of the cup and the outside diameter of the cone. A honing machine utilizing a very fine grade of sandpaper performs these operations. Honing is especially important as these surfaces of the cups and cones come in contact with the rollers and must be as smooth as possible to reduce friction. Throughout this process, the components are visually inspected for flaws and gauged to ensure dimensional compliance.

Rollers are finished somewhat differently than cups and cones. The basic steps are rough grind of the roller body, grinding of the roller end, a finishing grind of the roller body, and roller honing. Rollers initially pass through a number of grinding machines that remove steel from the outside diameter before it reaches the specified size. During end grinding, steel is removed from the large end of the roller, leaving a slightly convex shape. Final grinding and honing then takes place and the rollers are inspected, gauged, and packaged in their sequential order of production to minimize the variance of a complement of rollers in a cone assembly.

Cages are produced from cold—rolled strip steel. The steel is fed into a "cut and carry press" that performs the blanking, bottoming, perforation, and winging operations that produce a finished cage. The cut and carry press has multiple stations within it, and an internal conveyor that moves the material

along through the various processes. Blanking involves forming the strip steel into a dish shape, whereas bottoming involves the punching out of the bottom of the cage. The cage is then perforated with holes around its diameter. A winging operation removes any sharp corners on the perforations, and spreads the large end of the cage for roller installation. Cages are then annealed to relieve any stresses. Annealing involves heating the cages to a specific temperature for a specified time and then cooling the cage to increase its hardness. This is followed by shot blasting to remove scale on the cage and to improve the finish.

In the assembly stage, cages are mounted on an assembly nest and the rollers are placed in the openings or pockets of the cage. The cone is then inserted into the middle of the cage and put in a close—in press that slightly presses or "crimps" the assembly together to keep the components intact. The cups and cone assemblies are then demagnetized, inspected, and slushed with a protective anti—rust solution and packaged for shipment.

Bearing production involves a high degree of mechanization because, in large part, of the very tight tolerances required in the products. The use of computer—aided manufacturing, microprocessors, laser—gauging equipment, and highly automated material—handling equipment are often employed in the production of tapered roller bearings. Employees perform very little of the actual production; they are primarily machine operators and quality control inspectors. Each worker is responsible for the product coming out of his or her station; consequently, there is a high percentage of gauging and inspection. All components are tested several times throughout the production process, and cone assemblies and cups are subject to 100 percent inspection.

Mounted bearing units.—Only *** U.S. producer of tapered roller bearings reported manufacturing these type of assemblies and then only ***. ****. No importers of tapered roller bearings from the countries subject to investigation imported mounted bearing units incorporating tapered roller bearings. In addition, importers identified by the Customs net import file as importers of mounted bearing units from the subject countries reported to Commission staff that these mounted bearing units incorporated ball bearings or antifriction bearings other than tapered roller bearings.

<u>Cartridge bearing units.</u>—Timken is the largest U.S. producer of these bearings, and ***. ***.

Unfinished tapered roller bearing components.—Unfinished tapered roller bearing components—specifically, rollers, cups, and cones—are ground, polished, and assembled into finished tapered roller bearings in the manner described earlier. Three U.S. producers, NTN, Koyo Corporation of U.S.A. (Koyo), and *** import unfinished bearing parts and complete them into final bearing products. Koyo ***. The company manufactures its own rollers from imported steel coil. NTN ***. Both firms import the components from their Japanese parent companies. ***.

With regard to the degree of transformation that unfinished components must go through to become tapered roller bearings, Koyo calculated that more than *** percent of the transfer value of its finished goods is added in the

finishing process. 1/ In addition, in its clarification of products subject to the outstanding dumping order on tapered roller bearings from Japan, the Department of Commerce determined that unfinished tapered roller bearing components from Japan have more than half of their value added in the U.S. finishing process (46 F.R. 40550, Aug. 10, 1981). Figure 2 illustrates the finishing process of Koyo Corp. in its U.S. facility.

Figure 2.—Finishing operations on tapered roller bearings

* * * * * * *

U.S. Tariff Treatment

Tapered roller bearings and parts are classified for tariff purposes in TSUSA items 680.39 and 680.30 and statistically reported under a number of Tariff Schedules of the United States Annotated (TSUSA) items depending on their condition at the time of importation. Tapered roller bearing cup and cone assemblies imported as a set are provided for in TSUSA item 680.3932, while cups and cone assemblies imported separately are reported under TSUSA items 680.3934 and 680.3938, respectively. Antifriction rollers are provided for under TSUSA item 680.3040 and other tapered roller bearing parts are included in item 680.3940. Unfinished components for tapered roller bearings would be reported under TSUSA items 680.3934 (cups), 680.3940 (parts), or 680.3040 (rollers). Mounted bearing units incorporating all types of bearings are reported under item 681.1010, but tapered roller bearings imported separately for these units would be reported under the appropriate above—mentioned TSUSA items. 2/

Self-contained tapered roller bearing packages are reported under the TSUSA tapered roller bearing category, TSUSA item 680.3932 (sets), or the residual or "basket" automotive parts provision TSUSA item 692.3295, depending on their configuration. These units, when incorporating ball bearings, have been the subject of numerous classification rulings by the U.S. Customs Service, which are also applicable to units incorporating tapered roller bearings. The Customs Service ruled that "a double row, angular contact ball bearing whose outer race has been expanded, flanged, and drilled in order to take over part of the wheel hub" and a similar bearing whose inner race was splined allowing it "to replace completely the conventional driven-wheel hub" and become a structural element of the suspension system both demonstrate functions that are in excess of those normally associated with ball or roller bearings and...are classified under the provision for other parts of motor vehicles in TSUSA item 692.32." 3/ Customs officials indicate that if the primary function of a bearing cartridge unit exceeds the reduction of friction, the article is not classified as a tapered roller bearing. 4/

^{1/} Koyo sells all of its product to its marketing and distribution organization, American Koyo Corp. (AKC).

^{2/} Customs has determined that bearings imported for mounted bearing units should be classified <u>eo nomine</u> as bearings, and not as a part of the mounted bearing unit (U.S. Customs Service Internal Advice Request 48/86).

^{3/} Section 177.1 (a)(1) of the Customs Regulations (19 C.F.R. 177.1 (a)(1)). 4/ Discussion with Karl J. Riedl, National Import Specialist, U.S. Customs Service, Commercial Operations Division, Sept. 15, 1986.

The current column 1 (most-favored-nation) rate of duty for assembled tapered roller bearings is 6.5 percent ad valorem. The comparable column 1 duty rate for parts of these bearings ranges from 4.9 percent ad valorem to 6.5 percent ad valorem, as shown in table 1. Concessions negotiated during the Tokyo Round of the Multilateral Trade Negotiations provided for gradual duty reductions on imports under these tariff items, with the last reduction occurring as of January 1, 1987. Imports of tapered roller bearings from all of the countries subject to this investigation are dutiable at the column 1 rate of duty.

Table 1
Tapered roller bearings: U.S. rates of duty, by <u>TSUSA</u> items

(Percent ad valorem) TSUSA Commodity Col. 1 rate Col. 2 rate item description of duty 1/ of duty Antifriction balls and rollers: 680.3040 45.0 Ball or roller bearings, including such bearings with integral shafts, and parts thereof: Other: Other: Tapered roller bearings and parts: 680.3932 Cup and cone assemblies 67.0 imported as a set........ 6.5 680.3934 Cups imported separately..... 67.0 680.3938 Cone assemblies imported separately..... 6.5 67.0 680.3940 Other parts..... 6.5 67.0 Gear boxes and other speed changers with fixed, multiple, or variable ratios; pulleys and shaft couplings; pillow blocks; flange, take-up, cartridge, and hanger units; torque converters; chain sprockets; clutches and universal joints; all of the foregoing (except parts of agricultural or horticultural machinery and implements provided for in item 666.00 and parts of motor vehicles and bicycles) and parts thereof: Flange, take-up, cartridge, and hanger units, and parts thereof: Ball or roller bearing type: 681.1010 Complete units..... 45.0 Chassis, bodies (including cabs), and parts of the foregoing motor vehicles: 692.3295 25.0 Other..... 3.1

^{1/} The rates of duty in column 1 are most-favored-nation (MFN) rates and are applicable to imported products from all countries except those enumerated in general headnote 3(d) of the <u>TSUSA</u>. The People's Republic of China, Hungary, Poland, Romania, and Yugoslavia are the only Communist countries currently eligible for MFN treatment.

Problems With Product Definition

Not all of the products identified as within the scope of these investigations are manufactured by the U.S. tapered roller bearing industry or are imported into the United States from the countries subject to investigation. A complicating factor is that general product definitions do not correspond to various Customs rulings regarding certain types of bearings. The problems of product definition involve those products identified as mounted bearing units imported under TSUSA item 681.1010.

The petition specifically identifies imports of flange, take-up, cartridge and hanger units enumerated in item 681.1010 of the TSUSA as products contributing to the injury of the U.S. industry. However, as has been indicated earlier in this report, there have been no imports of these articles incorporating tapered roller bearings into the United States, and ***. 1/However, the semantics of the tapered roller bearing tariff nomenclature have complicated the situation: no one in the industry or in the Federal Government knows what the "cartridge units" identified in TSUSA item 681.1010 are. There is a suspicion that as a mounted bearing unit, this cartridge unit is different from the cartridge bearing units used for front-wheel drive automobiles, but no one knows exactly what the product is. Industry publications identify a "cylindrical mounted bearing unit" that is similar to, but not the same as, the automotive cartridge unit.

In its response to the Commission's questionnaire, ***. However, Customs rulings and internal advice decisions indicate that railroad bearings are to be imported as tapered roller bearings, bearing cartridge units without flanged races are classified <u>eo nomine</u> (i.e., as a ball bearing or tapered roller bearing), and bearings with flanged races whose function is to exceed the reduction of friction are classified as automobile parts. In none of these decisions was the <u>TSUSA</u> item 681.1010 classification considered for these types of tapered roller bearings. To date, all imports of cartridge bearing units similar to Timken's Unipac and Unipac Plus have been imported under the tapered roller bearing or automotive parts provisions.

SKF Industries, a U.S. producer, has identified a similar problem with product definition. SKF refers to its bearings for use on railway freight car axles as tapered bearing units (TBU's) and the firm's counsel argues in its briefs that TBU's should not be regarded as "like products." According to SKF, "the distinction between TBU's and cups/cones is warranted because of the completely different end uses, designs, production processes, distribution patterns and prices of these products" (prehearing brief of April 2, 1987). However, TBU's are imported under TSUSA item 680.3932 (tapered roller bearing sets). In its final determination, Commerce did not uphold SKF's arguments and included TBU's in the scope of Commerce's investigation. (See appendix C, 52 F.R. 24198, June 29, 1987.)

Nature and Extent of Sales At LTFV

The final LTFV margins determined by Commerce were 124.75 percent for Italy and 33.61 percent for Yugoslavia. Commerce determined that responses from firms representing both countries were not verifiable and relied on "best

information available." The methods used to calculate these LTFV margins are detailed in Commerce's notices, which are presented in Appendix C. $\underline{1}$ /

The U.S. Market

U.S. producers

There were 10 producers that manufactured tapered roller bearings during 1983—86; however, Timken has historically dominated the U.S. industry and market, accounting for well over half of U.S. industry sales. Timken invented the modern tapered roller bearing and patented it in 1898. Since then, Timken has grown into a multinational corporation with *** U.S. tapered roller bearing plants and operations in 6 countries. Timken is the only fully integrated U.S. tapered roller bearing producer, supplying steel tubing and wire for its bearing production from its steel facilities. Other than steel, Timken manufactures predominantly tapered roller bearings.

There are currently nine producers of tapered roller bearings in the United States, with one firm starting production in 1985. Federal Mogul Corp. (Federal Mogul) sold its tapered roller bearing facilities and part of its research and development complex to NTN Toyo Bearing Co., Ltd. (NTN Toyo) in a joint venture in 1985. Federal Mogul consequently ***, and the new joint venture company, NTN-Bower, began production in January 1986. NTN and NTN-Bower are operated as separate corporations even though they have a common parent.

Information presented in this report on tapered roller bearing producers for the period 1983 to 1986 (compiled from questionnaire responses) is based on nine producers. Comparable information for the periods January-March 1986 and January-March 1987 is based on the responses of only seven producers, as Hyatt Clark and L&S Bearing did not submit any supplemental data. These two firms accounted for *** percent (by quantity) of total shipments in 1986. The list of U.S. producers, their shares of 1983 and 1986 shipments by quantity and value, and their positions with regard to Timken's petition are presented in table 2.

With the exception of Koyo, NTN, and ***, all of the U.S. producers have "ground up" production facilities; that is, they manufacture tapered roller bearings from steel mill products. Koyo, NTN, and *** are primarily finishing and assembly operations; that is, they import unfinished and finished bearing components and finish/assemble them into completed bearings (sets, cups, and cone assemblies). ***. However, as indicated earlier, the finishing and assembly operations are not insignificant to the production process—it is at

^{1/} The final LTFV margins determined by Commerce for countries covered in the previous investigations were 0.97 percent for China, 7.42 percent for Hungary, and 8.70 percent for Romania. Information on methods used by Commerce to calculate these margins is presented in app. C. The date for Commerce's final determination on Japan is Aug. 10, 1987.

Table 2
Tapered roller bearings: U.S. producers, their share of 1983 and 1986 shipments, and positions with regard to the petition

٠.		Establish-		ments	of ship— —quantity		re of ship- nts-value	Position o	
Company	Location 1/	ments 2/	Comments	1983	1986	1983	***************************************	the petition	
				-		······································	Percent		
American NTN Bearing Manufactur— ing Corp.	Des Plaines, IL	1	***	***	***	₩ ₩	***	***	
Brenco, Inc.	Petersburg, VA	1		***	***	XXX	***	** *	
Federal Mogul Corp.	Southfield, MI	2	***	***	***	***	***	***	
Hyatt Clark Industries	Clark, NJ	1	***	***	***	***	***	***	
•									
Koyo Corp. of USA	Westlake, OH	1	¥**	***	***	***	***	3/	
L&S Bearing Co.	Oklahoma City, OK	1		***	***	***	***	***	
NTN-Bower Corp.	Franklin, MI	2	***	***	***	***	***	<u>4</u> /	
SKF Indus- tries, Inc.	King of Prussia, PA	2	****	***	***	***	36363 6	***	
The Timken Co.	Canton, OH	10	***	***	***	**x	** *	Supports	
The Torring- ton Co.	Torrington, CT	1		<u>5/</u> 100.0	<u>5/</u> 100.0	*** 100.0	100.0	X XX	

^{1/} Corporate headquarters.

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Committee on the U.S. International Trade

^{2/} Tapered roller bearing production facilities only.

<u>3</u>/ ***.

^{4/ ***.}

^{5/ ***.}

this stage that bearing components are machined intoprecision products and at which there is significant value added to the components. NTN and Koyo both have U.S. affiliates that are their sales organizations; these affiliates are also large importers of finished tapered roller bearings from Japan.

Of the U.S. producers, Timken and SKF are the only "full line" producers of tapered roller bearings. That is, they sell thousands of distinct part numbers in all of the submarkets for tapered roller bearings (SKF, however, has a more narrow range of bearings than Timken, which lists over 26,000 bearing part numbers in its catalogue). The other producers have primarily focused on particular segments of the tapered roller bearing market, and several also produce other types of bearings. For example, Brenco predominantly makes railroad journal bearings, Torrington makes bearings primarily for the metal rolling mill industry, Federal Mogul/NTN-Bower manufacture ***, and most of the remaining producers have concentrated on the automotive industry. Hyatt Clark Industries (Hyatt Clark) sells about *** percent of its tapered roller bearings to General Motors, but is in the process of "orderly liquidation under Chapter 11 bankruptcy." For many U.S. manufacturers, Timken has been the only available source of tapered roller bearings for their particular needs.

Major changes in the U.S. industry.—Several major changes have occurred in the structure and performance of the U.S. tapered roller bearing industry. With regard to structural changes, there was the introduction of NTN in *** as a new U.S. producer, and Federal Mogul sold its tapered roller bearing plants to NTN Toyo. Federal Mogul initially retained *** ownership of the new joint venture firm, NTN-Bower, ***.

In addition to the emergence of two "new" tapered roller bearing producers, one firm, Hyatt Clark, will exit the industry this fall after liquidating the company under Chapter 11. (A detailed discussion of Hyatt Clark's experience is presented below.) In addition, SKF closed one of its two tapered roller bearing plants, and Timken is phasing out production at one of its older plants over the next 2 years. There has been a general process within the industry of trying to retire excess or obsolete capacity.

With regard to the performance of the industry, four firms have had notable experiences, both good and bad. ****.

The experience of Hyatt Clark.—Prior to 1981, Hyatt Clark was the tapered roller bearing division of New Departure Hyatt, the ball and roller bearing division of General Motors (GM). In 1980, GM announced its decision to sell or close the tapered roller bearing facility because of the company's reduced demand for tapered roller bearings (resulting from the shift to front wheel drive cars) coupled with the fact that the plant's tapered roller bearing operation had not been competitive in the industry. 1/ In October 1981, GM sold the tapered roller bearing plant to the plant's employees, making it one of the first major employee buyouts of a company in the United

^{1/} Press release of New Departure Hyatt Bearings, Oct. 30, 1981.

States. At the time of the sale, the Hyatt Clark plant had the highest paid workers of any UAW plant in the country, had not made a profit for the previous 5 years of its operations, and was an "antiquated" facility. $\underline{1}$ /

The employees of Hyatt Clark borrowed \$53 million to buy the plant from GM; financing was provided by \$40 million in commercial loans and by GM's purchase of \$13 million in Hyatt Clark Industries notes and \$10 million in nonvoting preferred stock. 2/ The purchase was conditional on the employees acceptance of a 25 percent pay cut, on GM's guarantee of some commercial loans, and on GM's agreement to buy at least *** percent of its tapered roller bearing needs from Hyatt Clark. 3/

Throughout the 1982-85 period, Hyatt Clark had a public history of poor labor relations. The union local representing workers at Hyatt Clark had been labeled as militant, and the employees "staged a work slowdown in the summer of 1984 that reduced the plant's production rate by more than 20 percent for three months." 4/ Most of the labor problems centered around worker participation in the decision-making process and distribution of company profits. The labor-management relationship at Hyatt Clark has been called "militant," "acrimonious," and "combative," and several newspaper articles cited authorities who reported that any failure of the Hyatt-Clark "experiment" must be attributed to the inability of labor and management to cooperate. 5/

During the work slowdown in 1984, GM threatened to take its tapered roller bearing business elsewhere—essentially a threat to close the plant unless a labor agreement could be reached by a stipulated deadline. A 3-year contract with a no-strike, no-lockout clause satisfied GM and kept the plant open. 6/ However, Hyatt Clark was officially for sale by September 1985, after GM would not lend Hyatt Clark the money for new equipment and modernization. 7/ A purchase agreement to buy the company fell through when

^{1/ &}quot;How Workers Saved Their Jobs," New York Times, Apr. 18, 1982, XI, p. 36; "Worker-Owned Hyatt Clark Industries Looks For Buyer After GM Refuses Loan," Wall Street Journal, Sept. 10, 1985, p. 7; "A Noble Experiment Goes Bankrupt," New York Times, May 3, 1987 III, p. 1. Two articles reported that by 1981, the layout and equipment at the Clark plant were obsolete essentially because GM failed to invest in the facility throughout the 1970's, providing only "paltry" investments. See "A Noble Experiment Goes Bankrupt", "Worker Owned Hyatt-Clark Industries Looks For Buyer After GM Refuses Loan," and "An Experiment In Worker Ownership Faces A Crucial Test At Jersey Plant," New York Times, Dec. 14, 1984, II, p. 2.

^{2/ &}quot;GM New Jersey Plant is Sold to Employees in \$53 Million Transfer," Wall Street Journal, Nov. 2, 1981, p. 37.

 $[\]underline{3}$ / $\underline{Ibid.}$ and telephone conversations with officials of Hyatt Clark Industries and General Motors.

^{4/ &}quot;A Nobel Experiment Goes Bankrupt," New York Times, May 3, 1987, p.1.
5/ "An Experiment In Worker Ownership Faces A Crucial Test At Jersey Plant,"
New York Times, Dec. 14, 1984, II, p. 2; "Worker-Owned Hyatt Clark Industries
Looks for Buyer After GM Refuses Loan," Wall Street Journal, Sept. 10, 1985,
p. 7.

^{6/ &}quot;Wage Pact Keeps A Company Open," New York Times, Dec. 18, 1984, II, p. 2; "Union Approves Hyatt Clark Pact," New York Times, Dec. 22, 1984, p. 26.
7/ "Worker-Owned Hyatt Clark Industries Looks For Buyer After GM Refuses Loan."

GM refused to continue to guarantee \$23 million of Hyatt Clarks' debt under new ownership. 1/ Shortly thereafter, Hyatt Clark filed for protection under Chapter 11 of the U.S. Bankruptcy Code after a \$3.6 million loan was called in by one of its creditors. 2/ Since that time, Hyatt Clark has been phasing out production at the plant through an orderly liquidation, and will cease production ***.

Although Hyatt Clark had a history of labor problems and was a troubled plant prior to employee-ownership, the President of Hyatt Clark reported in a letter to the Commission in its preliminary investigation that "Hyatt Clark Industries went into Chapter 11 of the Bankruptcy Code on January 14, 1986, as a direct result of the price action of the Japanese manufacturers; namely, NTN, and the resulting price action by Timken." 3/ The implication of this statement and the remainder of the letter is that price suppression in the U.S. market—initiated by NTN and reacted to by Timken—eventually caused GM to find another supplier of tapered roller bearings. On the contrary, an official at General Motors *** and another official at Hyatt Clark *** indicated that there were other, more primary, reasons for Hyatt Clark's difficulties. 4/5/

GM's relationship with Hyatt Clark was one of ***.

×	X	*	*	*	*	*	<u>6</u> /
*	*	*	*	*	*	*	<u>7</u> /

^{1/ &}quot;LSB Pact To Acquire Hyatt Clark Is Ended," <u>Wall Street Journal</u>, Dec. 27, 1985. p. 5

^{2/ &}quot;Business Briefs," Wall Street Journal, Jan. 16, 1986.

^{3/} Letter to the Commission, Sept. 19, 1986.

^{4/&}lt;del>***.

^{5/} In addition, a letter from counsel for NTN states that "the General Motors request for quotations was in effect a "sealed bid" process and that NTN was the last supplier to file a confidential offer. NTN, of course, did not know Timken's price bid. A few days after the bidding was closed, General Motors announced that Timken had been awarded 100 percent of General Motor's tapered roller bearing sourcing."

^{6/} Telephone conversation with Hyatt Clark official, Apr. 20, 1987.

^{7/} In its response to the Commission's questionnaires, Hyatt Clark's price data indicated that ***.

Although Hyatt Clark was attempting to reorganize under Chapter 11, \star \star \star . 1/

* * *. Officials at Hyatt Clark indicate that their company was unable to branch out of the automotive OEM market into other market segments for tapered roller bearings such as * * * and "the low end of the market (conveyor rolls, auto aftermarket, and trailer hubs)" because of aggressive price action between Timken and the Japanese and the entry of the Eastern Europeans and Chinese in the low end of the market. 2/

U.S. importers

There are more than 30 importers of all tapered roller bearings from the 6 countries subject to investigation, but most of these are importers of tapered roller bearings from Japan. There are only about 16 importers of tapered roller bearings subject to investigation, since the remaining imports are of 0-4 inch tapered roller bearings from Japan covered under the outstanding dumping order. All of the importers of tapered roller bearings from the East European countries and China are bearing distributors, with the exception of * * *. Table 3 presents the major U.S. importers of tapered roller bearings and their share of 1986 imports, by value.

Table 3 Tapered roller bearings: Major U.S. importers and their share of 1986 imports, by value $\underline{1}/$

Importer		Country	<i>y</i>	from	Share of imports from country of origin 2/ percent						
	*	*	*	*	*	*	*				

^{1/} Finished tapered roller bearings only.

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

^{2/} As a share of total imports as reported in questionnaire responses.

^{1/} Telephone conversation with Hyatt Clark official, Apr. 20, 1987. In addition, an article published in <u>American Metal Market</u> reports that Hyatt Clark officials were suggesting "[Timken] had engaged in highly aggressive pricing in order to win Hyatt's contract away at the probable cost of the firm's survival." Timken reportedly had prices about 10 percent lower than Hyatt's, thus enabling Timken to acquire the \$50 million GM business. See "Hyatt Clark Faces Closing Next Year," <u>American Metal Market</u>, Nov. 17, 1986, p. 1.

^{2/} Letter to the Commission from Howard Kurt, President, Hyatt Clark Industries, Sept. 19, 1986; telephone conversation with XXX.

Until 1986, ***. 1/ SKF is virtually the sole importer of tapered roller bearings from Italy. 2/ The sales organizations of NTN and Koyo are the major importers of Japanese tapered roller bearings, accounting for nearly *** percent of all tapered roller bearing imports from Japan. Six importers account for all imports of tapered roller bearings from China, and five importers account for all imports of tapered roller bearings from Romania.

Character of the U.S. Market

The U.S. market for tapered roller bearings has historically been the automotive market, since automobiles typically use a number of tapered roller bearings, especially on axles, wheel hubs, and in differentials and transmissions. Fifty-nine percent of the volume of total U.S. consumption of tapered roller bearings in 1986 was accounted for by the automotive and automotive-related original equipment manufacturers (OEMs). This share was virtually unchanged for the years 1984-86 (table 4). The second largest submarket was the aftermarket, which accounted for about 15 percent of 1986 consumption. OEM sales represented 85.1 percent of all U.S. consumption in 1986.

The relative stability of the share of the automotive market for the U.S. tapered roller bearing industry is surprising given the general acceptance in the industry that there has been a declining demand for tapered roller bearings by the auto industry. The increased popularity of front wheel drive cars as well as the demand by the automakers for more lightweight auto components is generally accepted as a cause for product shifting to ball bearings and needle bearings. 3/ In its section 332 report on the competitive assessment of the U.S. ball and roller bearing industry, the Commission's report stated:

Tapered roller bearings and parts were the only major type of bearing to experience a decline during 1980-84, decreasing by 4 percent to \$879.5 million in 1984. This decrease was caused largely by a decision by the automotive industry to change its product mix in favor of lighter cars and trucks that utilize more ball bearings and less tapered roller bearings. 4/

Industry sources indicate that General Motors now uses ball bearing cartridge units of its own design for both the front and rear axles of its new cars, and Ford is the only domestic producer using any tapered roller bearings for its front wheel drive automobiles. The shift to ball bearings has occurred simultaneously with a major increase in new production of front wheel drive cars; counsel for the Japanese respondent Koyo Seiko Ltd. provided data that indicated that front wheel drive production increased from 30 percent in 1980 to 50 percent in 1983, and is estimated to be 70 percent in 1986. 5/

^{1/ ***.}

^{2/} One other importer from Italy was identified by Commission staff, but the volume of imports was negligible.

^{3/} Competitive Assessment of the U.S. Ball and Roller Bearing Industry, USITC Publication 1797, January 1986, p. 11. See also conference transcript, p. 62. 4/ Competitive Assessment of the U.S. Ball and Roller Bearing Industry, USITC Publication 1797, January 1986, p. 11. See also conference transcript, p. xi. 5/ Respondents' post—conference brief, p. 27.

Table 4
Tapered roller bearings: Shares (by quantity) of U.S. producers' domestic shipments, imports, and apparent consumption accounted for by types of markets, 1984-86 1/

				(1	n perce	nt)					•	
	U.S. producers' shipments			Imports from Japan			Imports from Hungary, China, Romania, Yugoslavia			U.S. apparent consumption		
<u>Item</u>	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986
Auto and auto related	***	MMM	***	***	***	***	HXX	×××	***	***	***	×××
Aftermarket	***	***	***	養養養	***	***	×××	XXX	***	***	X XX	***
Other industrial 3/	***	. ***	***	***	XXX	***	×××	***	***	×××	×××	***
Truck-trailer	***	关系领	***	***	×××	***	***	XXX	***	×××	×××	XXX
Agricultural equipment	XXX	WHE	***	***	×××	***	***	***	***	***	×××	***
Material handling	***	***	***	***	×××	***	×××	***	XXX	***	XXX	X-X-X
Conveyors	***	HHH	***	HXX	XXX	***	***	***	***	×××	×××	**×
Utility trailer and non- driving axles	HHH	×××	***	***	×××	***	***	×××	***	***	×××	***
Railroad	×××	***	***	2/	2/	2/	-	-	-	***	×××	***
Rolling Mill	***	2/	2/	_	_	_	_	-	-	2/	2/	2/
All other markets 4/	***	***	***	_	_			_	-	×××	***	***
Total	100.0	100.0	100.0	111.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

1/ This table does not include imports from countries not subject to investigation. SKF's shipments (of both domestic and imported products) are not included in this table because the firm did not supply records separating domestic production from imports, according to end—uses. For its total sales (i.e., sales of U.S. produced bearings and imports from Italy), SKF reported the following distribution by types of markets (in percent of total quantity):

	1984	1985	1986
Auto and auto related	XXX	×××	***
Aftermarket	***	***	***
Other industrial	***	***	***
Truck-trailer	***	***	×××
Agricultural equipment	***	XXX	***
Material handling	最美麗	***	***
Conveyors	XXX	XXX	XXX
Utility trailor and	•		
non-driving axles	***	***	***
Railroad	XXX	***	***
Rolling mill	***	***	***
All other markets	***	***	XXX
Total	100.0	100.0	100.0

^{2/} Less than 0.05 percent.

NOTE: Because of rounding, figures may not add to totals shown.

Source: Compiled from questionnaire responses of the U.S. International Trade Commission.

^{3/} Aircraft, gears and gear boxes, machine tools, mining, oil drilling equipment, pumps, miscellaneous machinery.

^{4/} Federal government.

There are several possible explanations for the stability of the share of the auto market during 1984-86, although the overall share of apparent consumption accounted for by auto and auto-related industries has declined from the levels of the mid-1970's. 1/ One explanation is that the major structural changes in the auto industry and the consequent impact on the tapered roller bearing industry occurred prior to 1984, the earliest year for which the Commission collected market data. A second possible explanation is that given the degree of demand by the auto industry during the years 1984-86, the demand for tapered roller bearings other than those displaced by front-wheel drive was sufficiently high to offset the expected decline in demand caused by front-wheel drive. 2/

Finally, there is the possibility that the overall structure of U.S. demand for tapered roller bearings has not changed that significantly in recent years. The U.S. tapered roller bearing industry serves a set of mature industrial markets (autos, truck-trailer, material handling, agricultural machinery) that have all had generally similar economic experiences in the United States. These U.S. manufacturing industries have been challenged by imports of finished product, thus reducing the U.S. manufacturing base and manufacturing demand for components for these products. Consequently, the relative shares accounted for by each market would remain relatively constant, as would the cycles of demand. In this type of situation, the volume of the market would be expected to diminish over time, but not its overall composition. Table 5 presents the shares of consumption for each submarket accounted for by the U.S. producers and by imports, and figure 3 presents the pattern of U.S. consumption of tapered roller bearings for the years 1980-86. 3/

^{1/} In its 1975 findings on LTFV imports of tapered roller bearings from Japan, the Commission noted in its opinion that "Almost two-thirds of all tapered roller bearings consumed in the United States are used in the automotive and automotive related industries." Tapered Roller Bearings and Certain Components Thereof from Japan, ITC Publication 714, January 1975. percent share of total consumption is higher than the 59-percent share established in these current investigations (see table 4, above). 2/ The Commission's report "Competitive Assessment of the U.S. Ball and Roller Bearing Industry" stated "The motor-vehicle industry, particularly manufacturers of cars, trucks, and trailers, is easily the largest source of U.S. demand for [all types of] bearings. Demand from this industry was reported to be near record levels during 1984-85." (p. 60.) 3/ The brief glimpse of tapered roller bearing consumption presented in fig. 3 does seem to show parts of two business cycles, with the later cycle moving at levels generally lower than the preceding cycle. This downward movement may be attributable to price suppression resulting from greater competition in the market, as is discussed in the pricing section in this report, as well as to declining overall demand for tapered roller bearings. However, comparing 1983 with 1986, the change in apparent consumption was virtually the same for both volume and value (-0.7 percent and 0.2 percent, respectively). One would tend not to expect this trend in a severely competitive price environment. Quantity data are not available for the years prior to 1983.

Table 5
Tapered roller bearings: Shares (by quantity) of markets accounted for by U.S. producers' domestic shipments and imports, $1984-86 \frac{1}{2}$

	(In percent)											
	U.S. producers' shipments			Imports from Japan			Imports from Hungary, China, Romania, Yugoslavia			U.S. apparent consumption		
Item	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986
Auto and auto related	77.3	76.2	73.9	22.7	23.8	26.1	-	_	<u>.</u> .	100.0	100.0	100.0
Aftermarket	90.7	88.9	87.9	1.8	2.5	3.1	7.5	8.6	9.0	100.0	100.0	100.0
Other industrial 2/	56.2	58.8	69.6	43.7	41.1	30.3	0.1	0.1	0.1	100.0	100.0	100.0
Truck-trailer	87.2	79.8	79.7	12.8	20.2	20.3	_	-		100.0	100.0	100.0
Agricultural equipment	52.8	48.2	75.4	47.2	51.8	24.6	_	· -	-	100.0	100.0	100.0
Material handling	61.1	63.0	49.3	38.9	37.0	50.7	_	-	. •	100.0	100.0	100.0
Conveyors	10.7	13.0	17.7	80.3	80.7	75.9	9.0	6.3	6.4	100.0	100.0	100.0
driving axles	3.4	3.9	4.8	8.0	10.6	11.5	88.6	85.5	83.8	100.0	100.0	100.0
Railroad	98.4	97.4	98.8	1.6	2.6	1.2	-	-	.	100.0	100.0	100.0
Rolling Mill	100.0	100.0	100.0	-		, 🗕 ,	-			100.0	100.0	100.0
All other markets 3/	100.0	100.0	100.0		: -	· •	•	-	-	100.0	100.0	100.0

^{1/} SKF's shipments (of both domestic and imported products) are not included in this table because the firm did not supply records separating domestic production from imports, according to end-uses. This table does not include imports from countries not subject to investigation.

NOTE: Because of rounding, figures may not add to totals shown.

Source: Compiled from questionnaire responses of the U.S. International Trade Commission and official statistics of he Department of Commerce.

^{2/} Aircraft, gears and gear boxes, machine tools, mining, oil drilling equipment, pumps, miscellaneous machinery.
3/ Federal government.

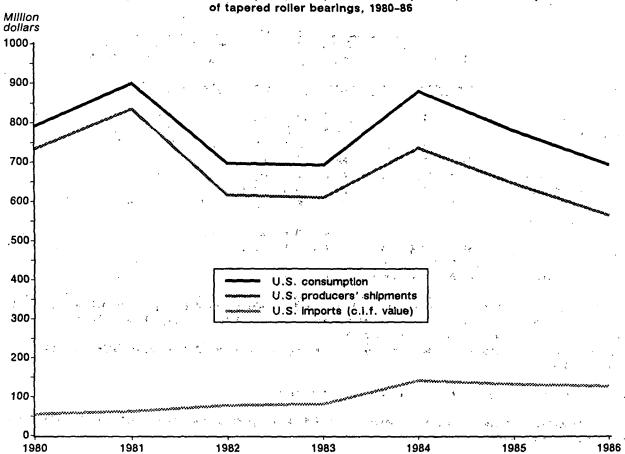


Figure 3. Apparent U.S. consumption, U.S. producers' shipments, and U.S. imports of tapered roller bearings, 1980-86

Source: Compiled from questionnaire responses of the U.S. International Trade Commission, USITC Publication 1797, Competitive Assessment of the U.S. Ball and Roller Bearing Industry (Inv. No. 332-211), and official statistics of the U.S. Department of Commerce. U.S. producers' shipments for 1980-82 have been adjusted to reflect shipments of producers not responding to inv. No. 332-211.

In general, as is seen in table 4, the shares of consumption accounted for by each submarket were relatively constant throughout 1984-86. However, there were some shifts in terms of the share of each market accounted for by U.S. producers' shipments and imports. As is seen in table 5, the U.S. producers lost market share to the Japanese in the auto and auto-related market, the truck-trailer market, and the material handling market. In addition, U.S. producers lost a 2.9 percentage point share of the aftermarket to imports from Japan (which gained 1.4 percentage points) and from Hungary, Romania, China, and Yugoslavia (which gained 1.6 percentage points). However, the U.S. producers' gained market shares at the expense of Japanese imports in the agricultural equipment, conveyor, and "other industrial" markets. The U.S. industry also gained market shares at the expense of the East European and Chinese bearings in the conveyor and utility trailer markets, two of the three markets served by these bearings. The East European and Chinese bearings, however, lost more market share to Japanese imports than U.S bearings in the utility trailer/nondriving axle market. The actual volume of sales declined in all market categories except material handling, which increased 12 percent.

U.S. consumption

There is very little seasonality with regard to U.S. consumption of tapered roller bearings, primarily because the broad industrial base of the market allows for independent industry consumption trends to offset each other. There appears to be about a 4- to 6-year business cycle to the tapered roller bearing industry; consumption declined from 1981 to 1983 because of the recession; increased from 1983 to 1984 when consumption peaked, and has been declining since then. Industry officials indicate that this is a typical cycle, but with the downturns not normally as abrupt as was seen from 1981 to 1982. 1/

Apparent U.S. consumption of tapered roller bearings reached \$895 million in 1984, the peak year of consumption in terms of both quantity and value during the 1983—86 period (table 6). The trend in consumption for the period subject to investigation is the same for both volume and value: consumption increased sharply from 1983 to 1984 and declined from 1984 to 1986, but with 1986 consumption levels 0.7 percent lower by quantity and 0.2 percent higher by value compared with 1983 levels. Figure 3 suggests that the trend in apparent consumption from 1983 to 1986 represents a nearly complete "wave" in the business cycle for tapered roller bearings, with the cycle beginning with the trough in 1982—83 and ending with a trough in 1987 or 1988.

^{1/} Conference transcript, pp. 54 and 55.

Table 6 Tapered roller bearings: Apparent U.S. consumption, $\underline{1}$ / 1983-86, January-March 1986, and January-March 1987

					January	March
Item	1983	1984	1985	1986	1986	1987
		Qua	ntity (1,00	00 units)		
Sets	13,491	21,864	19,565	19,423	4,851	5,928
Cone assemblies	125,663	151,054	127,245	118,354	31,253	28,489
Cups	126,316	154,629	132,107	125,822	33,458	31,650
Total	265,470	327,547	278,917	263,599	69,561	66,067
All other bearing parts and						
components <u>2</u> /	3/	3/	3/	3/	3/	3/
		Val	ue (1,000 d	dollars)		
Sets	160,400	200,908	178,261	136,484	42,770	42,160
Cone assemblies	363,027	463,172	404,196	356,253	102,215	90,438
Cups	180,537	231,374	210,457	212,521	59,470	42,499
Total	703,965	895,454	792,913	705,260	204,455	175,096
All other bearing parts and						
components 2/	4/ XXX	4/ XXX	4/ XXX	4/ XXX	5/	5/

^{1/} Apparent consumption is calculated as the total of domestic shipments and imports.

5/ This information is not available.

Source: Tables 8, 22, and 23, except where noted.

Note.—Because of rounding, figures may not add to the totals shown.

Channels of distribution

About 85 percent of all tapered roller bearings are sold to OEM's, with the remainder going to the aftermarket (table 4). While most tapered roller bearings sold to OEM's are cone assemblies or sets, the aftermarket for these bearings is primarily of individually packaged sets. Most of the importers of products subject to these investigations are bearing distributors; however, like the U.S. producers, they also sell overwhelmingly to OEM's. The two largest importers of Japanese tapered roller bearings, the sales affiliates of NTN and Koyo, operate sales establishments separately from their production establishments; the sales organizations do all of the importing into the United States and sell the imported bearings as well as all of the U.S.—produced bearings (the U.S.—produced bearings are transferred at a market rate to the sales organization). Timken's sales to distributors are made only to authorized Timken dealers, and SKF also sells to the aftermarket through an organized distributor network. Other than NTN and Koyo, the remaining U.S. producers have no special distribution arrangements.

^{2/} Parts and components are purchased only by U.S. tapered roller bearing producers.

^{3/} Data for these products are not reported in meaningful units of quantity.
4/ As reported in U.S. producers' questionnaire responses regarding shipments, purchases, and imports of tapered roller bearing parts and components.

Summary of the U.S. Industry and Market

The U.S. market for tapered roller bearings is overwhelmingly for the finished product—tapered roller bearing sets, cone assemblies, and cups—used by original equipment manufacturers. The secondary market—the aftermarket for replacement bearings—is also a market for finished bearings, but primarily a market for tapered roller bearing sets. A residual market for finished and unfinished components of bearings also exists, but this market is composed of tapered roller bearing producers who require components to fill short—term material shortages, or who finish the components into complete bearings. Of the 10 U.S. producers who manufactured tapered roller bearings during the period of investigation, 7 are "ground—up" manufacturers (they begin with steel bar or tubing) and 3 are finisher/assemblers (they finish rough—ground components). Of these three finishers, two—NTN and Koyo—are wholly—owned subsidiaries of a Japanese parent. One other U.S. producer, SKF, is also nearly a wholly—owned subsidiary, but of a Swedish parent.

Although there are a number of U.S. producers and importers, the U.S. market for tapered roller bearings is dominated by few actors. Timken and SKF have been the principal U.S. producers, and NTN, Koyo, and *** have been the principal importers. Nearly all bearings consumed in the United States are manufactured in the United States or Japan, with only one small market segment (utility trailers and nondriving axles) being dominated by imports from China, Hungary, Romania, and Yugoslavia. The majority of imports from these four countries are distributed through three firms—****. In total, eight establishments can be said to be the significant actors in the U.S. tapered roller bearing market.

Other than the introduction of NTN as a new U.S. producer in 1985, there have been no other major entries into or departures from the U.S market, either producer or importer, in the past decade. However, Hyatt Clark Industries will cease to exist as a U.S. bearing producer after XXX. The performance of XXX has had a distorting effect on the performance of the industry as a whole, as will be discussed in the injury section of this report.

Related Party Issues

Counsel for the petitioner argued during the preliminary investigation that Federal Mogul, NTN-Bower, NTN, Koyo, and SKF should be excluded from the domestic industry as related parties in accordance with section 771(4)(B) of the Tariff Act of 1930 (19 U.S.C. 1677(A)(B)). Federal Mogul is 100-percent owned by the stockholders of the corporation; NTM Bower is a *** joint venture started in 1986 with ***. Both NTN and Koyo are wholly owned subsidiaries of their Japanese parents, as are their U.S. affiliates and sales organizations, NTN Bearing Corp. of America (NBCA) and American Koyo Corp. (AKC). These two sales affiliates are the major imposters of tapered roller bearings from Japan. SKF is virtually a wholly owned *** subsidiary of its Swedish parent, as is its Italian affiliate, RIV-SKF Italy.

Consideration of Alleged Material Injury 1/

The trends in the aggregate injury indicators for the U.S. tapered roller bearing industry all generally reflect the same pattern: strong improvement from 1983 to 1984 as U.S. consumption of tapered roller bearings peaked, followed by a steady decline from 1984 to 1986. In addition, a sharp decrease in the indicators occurred between 1985 and 1986, and the 1986 levels of each variable (i.e. quantity and value of shipments, production, employment, etc.) are below 1983 levels. Data for January-March 1987 generally reflect continued declines from indicators in January-March 1986.

However, the aggregate industry trends are strongly influenced by two firms *** and ***. The experience of these two companies has been ***.

Capacity, production, and capacity utilization

The capacity of the tapered roller bearing industry to produce such bearings has declined slightly over the period under investigation, in spite of the addition of a new producer XXX. The key products with which to evaluate capacity, production, and capacity utilization, as presented in table 7, are cone assemblies and cups. These data also include those cone assemblies and cups used to produce tapered roller bearing sets. (Since the producers defined their capacity to produce sets in various ways, the capacity of the industry to actually produce sets, as distinct from the minor assembly operation of putting a cone assembly and cup together, is unreliable.)

The U.S. producers' capacity to produce cone assemblies declined 4.6 percent, while capacity to produce cups declined by 2.8 percent, from 1983 to 1986. Cone assembly capacity fell another 7.6 percent in January-March 1987 (as compared with that in January-March 1986) and cup capacity fell by 9.1 percent. Changes in capacity were rather dynamic throughout the period—nearly all producers added new capacity or retired outmoded, excess machinery. Productive capacity expanded *** with the addition of American NTN as a producer; however, this addition was not enough to offset the contraction of capacity by many other U.S. producers, especially SKF, which closed one plant ***. The transfer of Federal Mogul's two plants to NTN-Bower did not affect the capacity or operations of those plants. Timken is phasing out production at one of its older, unionized plants over the next 3 years.

I/ In this discussion of alleged material injury, the data for 1983-86 are based on complete questionnaire responses for all U.S. tapered roller bearing producers; data for the January-March periods are for 7 firms, which accounted for *** percent (by quantity) of all 1986 shipments. In general, finished and unfinished components are not discussed; these parts are all processed into finished articles by the U.S. producers. In addition, mounted-bearing units are not discussed since *** manufactured this item (production increased *** percent from 1984 to 1986, from *** to *** units). Data on cartridge bearing units are included in the data on tapered roller bearing sets.

Table 7
Tapered roller bearings: U.S. producers' production, capacity, and capacity utilization, 1983-86, January-March 1986, and January-March 1987 1/

					JanMa	(r
Item	1983	1984	1985	1986	1986	1987
						•
Capacity: 2/	and the second					
Sets1,000 units	· <u>3</u> /	3/	3/	<u>3</u>	/ <u>3</u> /	<u>3</u> /
Cone assembliesdo	180,629	177,249	179,471	172,27	5 29,349	27,128
Cupsdo	185,033	180,257	185,733	179,94	2 32,326	29,377
Production:			•			
Sets	13,440	14,583	13,285	12,24	6 2,692	3,482
Cone assembliesdo		118,866	102,475	89,92	9 19,061	18,933
Cupsdo		117,383	107,793	90,64	0 19,962	17,867
Capacity utilization:					•	
Setspercent	4/	4/	4/	4/	.4/	4/
Cone assembliesdo		67.1	57.1	52.2	64.9	69.8
Cupsdo		65.1	58.0	50.4	61.8	60.8

^{1/} The data in this table exclude data reported by *** because of statistical discrepancies in the company's questionnaire response.

* * * * <u>1</u>/

The U.S. industry's production of cone assemblies declined by 2.8 percent from 1983 to 1986, and production of cups and tapered roller bearing sets decreased by 10.3 percent and 8.9 percent, respectively, during this period. Production of cone assemblies and cups were 0.6 percent and 10.5 percent lower, respectively, during January—March 1987 than during the corresponding period of 1986, but production of sets was 29.3 percent higher.

Capacity utilization for cone assemblies increased slightly from 1983 to 1986, from 51.2 percent to 52.2 percent, and rose another 7.6 percent in January-March 1987 (as compared with that in January-March 1986). Capacity utilization for cups dropped slightly from 1983 to 1986, from 54.6 percent in 1983 to 50.4 percent in 1986, and fell another 1.6 percent in January-March 1987 (as compared with that in January-March 1986). The generally low

 $[\]underline{2}$ / There is no industry standard for the hours of operation of the manufacturing plants. Timken operates its plants *** shifts per day, *** days a week, *** weeks per year, but the other companies vary from *** to *** shifts a day, *** to *** days a week, and *** to *** weeks per year.

 $[\]underline{3}$ / The capacity to produce tapered roller bearing sets was not reported in a comparable manner by the U.S. producers.

^{4/} Capacity utilization cannot be reliably calculated for this item.

^{1/} Interview with officials of The Timken Co., Sept. 12, 1986.

utilization rates for the industry are explained by both actual idled equipment as well as the high productive capacity of the machinery and equipment.

U.S producers' domestic and export shipments

The total quantity of U.S. producers' domestic shipments of tapered roller bearing sets, cone assemblies, and cups declined by 13.7 percent from 1983 to 1986, while the value of these shipments decreased by 7.4 percent (table 8). During January—March 1987, domestic shipments of tapered roller bearing sets, cone assemblies, and cups were 15.1 percent lower (by quantity) than during the corresponding quarter of 1986. Shipments of U.S.—produced tapered rollers and tapered roller bearing parts were ***; the volume of these shipments cannot be meaningfully calculated but the value of shipments of parts showed a net increase from 1983 to 1986, from *** to ***. The U.S. industry's exports of tapered roller bearings declined 15.9 percent by quantity, but increased 36.6 percent by value from 1983 to 1986.

Table 8
Tapered roller bearings: U.S. producers' shipments, 1983—86, January—March 1986, and January—March 1987

				,	T 88	
Item	1983	1984	1985	1986	<u>JanMar</u> 1986	1987
		Quant	ity (1,00	O units)		
Domestic shipments: 1/			,			
Sets	9,720	10,246	8,474	6,913	1,918	2,3
Cone assemblies	88,197	99,001	85,178	77,990	19,992	17,70
Cups	92,474	100,925	89,433	79,346	22,213	17,40
Subtotal	190,391	210,172	183,085	164,249	44,123	37,4
Parts	2/	2/	2/	<u>2</u> /	3/	
Exports	XXX	***	×××	***	×××	×
		Val	ue (1,000	dollars)		
Domestic shipments:					***************************************	***************************************
Sets	141,531	164,346	145,622	102,753	34,334	33,74
Cone assemblies	315,729	386,591	332,238	292,819	83,920	74,8
Cups		188,047	170,536	171,835	48,199	31,9
Subtotal	612,610	738,984	648,396	567,407	166,453	140,5
Parts		×××	×××	⇒ ×××	3/	
Total	×××	. XX X	×××	×××	3/	
Exports	×××	×××	· ×××	XXX	×××	· x

^{1/} Includes company transfers.

^{2/ ***.} These items do not have comparable units of quantity.

^{3/} This information is not available.

U.S. producers' inventories

U.S. producers' yearend inventories of tapered roller bearing sets, cone assemblies, and cups increased slightly from 1983 to 1986 (as well as from January-March 1986 to January-March 1987), both in absolute volume and as a share of shipments (table 9). The volume of yearend inventories increased by 0.4 percent from 1983 to 1986. As a share of shipments, inventories of tapered roller bearings rose slightly from *** percent in 1983 to *** percent in 1986. The overall high ratio of inventories to shipments *** percent) is due to the fact that ***; in addition, the increase in inventories as a share of shipments is attributable to the fact that ***.

Table 9
Tapered roller bearings: U.S. producers' end-of-period inventories, 1983-86, January-March 1986, and January-March 1987

				•	JanMar	
Item	1983	1984	1985	1986	1986	1987
Quantity of inventories:					•	
Sets	XXX	XXX	XXX	×××	×××	×××
Cone assembliesdo	XXX	××× "	XXX	×× ×	*××	XXX
Cupsdo	×××	×××	×××	×××	×××	×××
Totaldodo	XXX	XXX	KKK.	×××	***	XXX
domestic shipments: 1/						
Setspercent	***	XXX	×××	×××	×××	×××
Cone assembliesdo	X X X	XXX	х х-х	, X XX	XXX	×××
Cupsdo	XXX	×××	XXX	×××	XXX	×××
Totaldo	×××	×××	×××	×××	×××	XXX

 $[\]underline{1}/$ Figures for Jan.—Mar. 1986 and Jan.—Mar. 1987 are derived using annualized shipments.

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

U.S. producers' purchases

From 1984 to 1986, the U.S. producers imported increasing numbers of finished tapered roller bearings. During this 3-year period, the quantity of imports of tapered roller bearings by U.S. producers more than doubled, from *** million units in 1984 to *** in 1986 (table 10). The share of the U.S. producers' imports accounted for by countries subject to investigation stayed constant at about *** percent during 1984-86. *** imports from countries not subject to investigation accounted for *** percent (by quantity) of all U.S. producers' imports of finished bearings. *** was unable to provide import data, but the company imported ***. ***

The trend of increasing imports of finished tapered roller bearings (both from countries subject to investigation and those not subject to investigation) was not reflected in quarterly data compiled for January-March 1987 and for the corresponding period of 1986. The quantity of imports of finished bearings from countries subject to investigation during January-March 1987 was *** percent lower than during the same period in 1986.

Table 10
Tapered roller bearings: U.S. producers' purchases and imports, 1984-86,
January-March 1986, and January-March 1987

,	٠.			Jan.⊸M	ar
Item	1984	1985	1986	1986	1987
Imports of finished bearings:	ř	•			•
From countries subject to investigation: 1/	•		1.		-
Total quantity1,000 units	XXX	XXX	×××	×××	XXX
Total value1,000 dollars From all other countries:	×××	×××	×××	×××	XXX
Total quantity1,000 units	XXX	×××	XXX	×××	XXX
Total value1,000 dollars Total:	×××	×××	XXX	×××	×××
Quantity	×××	×××	XXX	***	XXX
Value	XXX	×××	×××	***	×××
Total quantity1,000 units	XXX	***	×××	<u>2</u> /	2/
Total value1,000 dollars	×××	×××	×××	<u>2</u> /	<u>2/</u> 2/

^{1/} Official statistics from the Department of Commerce were used for Italy. ***.
2/ This information is not available.

U.S. producers' purchases of finished bearings, about *** the volume of their imports in 1986, declined by *** percent from 1984 to 1986 1/ ***.

Imports of finished tapered roller bearing parts consisted exclusively of ***. The value of these imports increased steadily from *** during 1984 to *** during 1986. ***. The industry's imports of unfinished parts consisted exclusively of ***. The volume of these imports increased by 42 percent from 1984 to 1986. ***:

<u>Item</u>	<u> 1984</u> .	<u>1985</u>	1986
Imports of finished parts <u>1</u> / Total quantity Total value1,000 dollars Imports from countries subject	<u>2</u> /	<u>2</u> / ***	2/ ***
to investigation: Quantity	<u>2</u> /	<u>2</u> /	<u>2</u> /

See footnotes at end of tabulation.

^{1/} In its prehearing brief (p. 21), counsel for NTN identified a small number of non-tapered roller bearing producers "which currently manufacture, offer to manufacture or have manufactured unfinished rings and finished parts in the past." Counsel for NTN believes these producers should either be included in the tapered roller bearing industry, or the Commission should narrow the "like product" scope of these investigations (field visits with NTN officials, June 30, 1987). However, in the U.S. producers' response to the Commission's questionnaire, producers generally did not report purchasing parts from U.S. sources other than tapered roller bearing producers.

Item	1984	1985	1986
Imports of unfinished parts 3/			٠.
Cups and cones:			
Total quantity1,000 units	×××	XXX	×××
Total value1,000 dollars	XXX	x x x	XXX
Imports from countries subject to investigation:			
Quantity1,000 units	×××	×××	XXX
Value1,000 dollars	×××	***	XXX

^{1/} XXX

U.S. employment and wages

The number of production and related workers employed in the manufacture of tapered roller bearings declined by 9.5 percent from 1983 to 1986, from 7,506 to 6,792 workers (table 11). Average hourly wages declined by 3.4 percent from 1983 to 1986, from \$12.88 to \$12.45. Average total hourly compensation declined from \$16.48 to \$14.98 during the same period. (Employee earnings in the industry are based both on hourly rates and piece rates.) While total compensation per hour was slightly greater during January—March 1987 than during the corresponding period of 1986, the number of workers, hours worked, and wages paid were less.

Six firms producing tapered roller bearings—***—reported major layoffs of workers from 1983 to 1986. After substantially increasing their workforces from 1983 to 1984, all of these firms instituted both indefinite and permanent layoffs of their workforce. *** had *** layoffs involving more than *** workers, and *** had one permanent layoff of 56 bearing workers. ***.

Table 11
Average number of production and related workers engaged in the manufacture of tapered roller bearings, hours worked by such workers, wages paid, and total compensation, 1983—86, January—March 1986, and January—March 1987

	Number of	Hours	Wages	Total
Period	workers	worked	paid	compensation
		Thousands		Per hour-
1983	7,506	14,509	\$12.88	\$16.48
1984	9,149	18,678	12.19	15.38
1985	7,694	15,163	12.79	16.69
1986	6,792	12,973	12.45	14.98
January-March				
1986	6,553	3,436	12.07	15.26
1987		3,244	12.02	15.98

 $[\]frac{1}{2}$ / Data on parts were not reported in comparable units of quantity.

^{3/} XXX

In spite of these layoffs, four firms, including *** and ***, registered a net increase in the number of workers employed.

Tapered roller bearing workers are unionized by establishment and not by firm. Timken's Canton and Columbus, OH, plants (6 establishments) are represented by the United Steel Workers, as are SKF's employees. Timken's other plants are not unionized. Hyatt Clark, an employee—owned company, and one of Federal Mogul/NTN—Bower's plants is represented by the United Auto Workers. Koyo, Brenco, NTN, and Torrington are not unionized; workers at L&S Bearing and one of NTN—Bower's other plants are represented by aerospace and machinists locals. ****. Timken's workers at its Ohio plants were on strike for the period September 15 to October 15, 1986, and Hyatt Clark's workers staged a work slowdown during the summer of 1984.

Financial experience of U.S. producers

All 10 U.S. producers who manufactured tapered roller bearings during the period 1983 to 1986 supplied usable income—and—loss data for both their establishment and tapered roller bearing operations. These data are discussed separately below. $\underline{1}/$

Overall establishment operations.—Aggregate net sales increased by 46.5 percent from *** in 1983 to *** in 1984 (table 12). In 1985, sales decreased by 8.5 percent to ***. Sales for 1986 were ***, a decline of 9.6 percent from 1985. The companies incurred an operating loss of *** in 1983, reported operating income of *** in 1984, sustained an operating loss of *** in 1985, and *** in 1986. Operating income (loss) margins, as a percent of sales, were (7.1), 2.7, (1.7), and (1.1) during 1983-86, respectively. Four firms reported operating losses in 1983, three firms in 1984, and five firms in 1985 and 1986.

Operations on tapered roller bearings.—Aggregate net sales increased by 32.6 percent from *** in 1983 to *** in 1984 (table 13). 2/ In 1985, sales decreased by 11.5 percent to ***. Sales for 1986 were ***, a decline of 10.2 percent from 1985. The companies incurred an operating loss of *** in 1983, reported operating income of *** in 1984, and sustained operating losses of *** in 1985, and *** in 1986. Operating income (loss) margins, as a percent of sales, were (7.3), 3.0, (4.5), and (0.7) during 1983-86, respectively. Three firms reported operating losses in 1983 and 1984, six firms in 1985, and five firms in 1986.

Sales for the 1987 interim period were ***, a decline of 7.7 percent from 1986 interim period sales of ***. An operating loss of *** was incurred in the 1987 interim period compared with operating income of *** in the 1986 interim period. Three companies reported operating losses in both interim periods.

^{1/} Supplemental data for January-March 1986 and January-March 1987 are included in the sections on tapered roller bearing operations, asset valuation, and capital expenditures.

^{2/} L&S Bearing and Torrington were not able to provide profit—and—loss data for 1983. However, their data are included for the years 1984-86. Since these two firms accounted for only *** percent of U.S. producers' shipments in 1983, the trends for 1983-86 are reliable indicators for the industry.

Table 12 Income—and—loss experience of 10 U.S. producers on the overall operations of their establishments within which tapered roller bearings are produced, accounting years 1983-86 $\frac{1}{2}$ /

em	1983	1984	1985	1986
t sales1,000 dollars	XXX	×××	×××	3/ XXX
st of goods solddo	XXX	***	×××	* ***
oss profitdo	×××	××× .	×××	×××
neral, selling, and admin- istrative expenses				
1,000 dollars	XXX	***	***	***
erating income (loss)				
1,000 dollars	XXX	XXX	×××	×××
terest expensedo	×××	***	×××	X X X
l other income (expense)				
1,000 dollars	***	***	***	4/ XXX
t income (loss) before	×××	×××	x x x	×××
income taxes1,000 dollars	XXX	NAN.	nnn	AAA
preciation and amortization expense1,000 dollars	***	×××	***	×××
sh flow from operations				
1,000 dollars	×××	×××	×××	×××
		•		
tio to net sales of:				
Cost of goods soldpercent	88.8	81.3	84.6	83.5
Gross profitdo	11.2	18.7	15.4	16.5
General, selling, and admin— istrative expenses				
percent	18.3	16.1	17.1	17.6
perating income (loss)	•			
percent Net income (loss) before	(7. i)	2.7	(1.7)	(1.1)
income taxespercent	(6.5)	1.4	(2.8)	(9.9)
mber of firms reporting—	()	,	(=.4)	(212)
Operating losses	4	3	5	5.
Net losses	4	4	6	6
Data	6	8	8	9

 $[\]underline{1}/$ L&S and Torrington did not provide 1983 data. Federal Mogul, predecessor of NTN-Bower, provided data for 1983-85. American NTN-Bearing provided usable data for ****.

^{2/} All companies operated on a calendar-year basis.

^{3/} Timken suffered a 30-day strike during the last quarter of 1986.

^{4/} All other income (expense) for 1986 excludes *** in income for Timken that resulted from accounting methodology changes.

Table 13 Income—and—loss experience of 10 U.S. producers on their operations producing tapers roller bearings, accounting years 1983—86, and interim periods ended March 31, 1986, March 31, 1987 1/2/3

					Interim	period
					ended Ma	rch 31
Item	1983	1984	1985	1986	1986	1987
Net sales1,000 dollars	×××	×××	×××	4/ XXX	×××	×××
Cost of goods solddo	×××	×××	XXX	×××	XXX	XXX
Gross profitdo	×××	×××	×××	×××	XXX	×××
General, selling, and admin- istrative expenses						
1,000 dollars	×××	***	×××	×××	×××	×××
Operating income (loss)						
1,000 dollars	×××	×××	XXX	×××	×××	×××
<pre>Interest expensedo All other income (expense)</pre>	×××	×××	***	×××	***	×××
1,000 dollars	×××	×××	×××	5/ XXX	×××	×××
Net income (loss) before income taxes1,000 dollars	×××	×××	×××	×××	×××	×××
Depreciation and amortization expense1,000 dollars	×××	×××	×××	×××	×××	×××
Cash flow from operations 1,000 dollars	***	***	***	***	***	***
Ratio to net sales of: Cost of goods sold		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			****	~~~
percent.,	88.3	80.1	85.9	81.9	78.8	- 81.5
Gross profitdo General, selling, and admin- istrative expenses	11.7	19.9	14.1	18.1	21.2	18.5
percent Operating income (loss)	19.0	16.9	18.7	18.7	18.0	19.1
percent Net income (loss) before	(7.3)	3.0	(4.5)	(0.7)	3.2	(0.5)
income taxespercent Number of firms reporting:	(6.4)	1.7	(5.4)	(11.2)	1.7	(2.7)
Operating losses	3	3	6	5	3	3
Net losses	3	5	6	6	3	4
Data	6	8	8	9	7	7

^{1/} L&S Bearing and Torrington did not provide 1983 data. Federal Mogul, predecessor of NTN-Bower, provided data for 1983-85. American NTN-Bearing provided usable data ***.

^{2/} All companies operate on calendar years.

 $[\]frac{3}{l}$ Data from the Timken Company and Hyatt Clark Industries are included in table 13 and are also discussed separately.

^{4/} Timken suffered a 30-day strike during the last quarter of 1986.

^{5/} All other income (expense) for 1986 excludes *** in income for Timken that resulted from accounting methodology changes.

Operations of the Timken Company.—Timken accounted for *** percent of the 1986 sales figure shown in table 13. Accordingly, its operations are discussed separately. The company's major product lines are antifriction bearings and alloy steels. Bearings are manufactured in the United States, Great Britain, France, Australia, Brazil, Canada, and South Africa. Overseas operations of the Timken Company have been profitable in recent years. Alloy mechanical tubing, alloy brass, and high—alloy specialty steels are produced in the United States. In 1986, the company initiated a restructuring program in order to eliminate ***, noncompetitive assets, and their associated operating costs. As a result, *** in charges were taken in 1986. Timken's bearing business accounted for approximately *** percent of total company sales in 1986; steel accounted for the remainder. Overseas sales of all production (produced outside the United States) accounted for *** percent of total company sales in 1986. 1/

Timken's income-and-loss experience on its operations producing tapered roller bearings is presented in table 14. The company provided the same data for overall establishment operations. Aggregate net sales increased by *** percent from *** in 1983 to *** in 1984. In 1985, sales declined by *** to ***. A 30-day strike in 1986 was partially responsible for the *** percent decrease in 1986 sales to ***. The company incurred a *** operating loss in 1983, had operating income of *** in 1984, sustained an operating loss of *** in 1985, then earned an operating income of *** in 1986. Operating income (loss) margins, as a percent of sales, were ***, ***, ***, and *** during 1983-86, respectively. Net income (loss) before income taxes followed a similar pattern except for 1986, when a special charge of *** was recorded as a result of the corporate restructuring. Interim 1987 sales were ***, a decline of *** percent from 1986 interim sales of ***. The company achieved an operating income of *** in interim 1986 and *** in interim 1987. Operating income margins, as a percent of sales, were *** and *** in the 1986 and 1987 interim periods, respectively. Net income before income taxes was *** in the 1986 interim period, but a net loss before taxes of *** was sustained in the 1987 interim period.

Timken indicated that it omitted *** in "other income" as a result of accounting methodology changes. This was a cumulative adjustment covering several accounting years. The accounting changes, previously discussed, affect the 1986 operating results as follows:

1. Pension cost reductions of *** are included and 1986 operating income was increased by that figure. The pension revisions are applied to fiscal years beginning in 1986 and thereafter, thus changes in prior years operating results are not applicable.

Table 14
Income—and—loss experience of Timken Company on its operations producing tapered roll bearings, accounting years 1983—86, and interim periods ended March 31, 1986, and March 31, 1987

						n period
••	1000		4005			March 31
[tem	1983	1984	1985	1986	1986	1987
Wet sales1,000 dollars	×××	×××	×××	1/ XXX	×××	×××
Cost of goods solddo	XXX	×××	×××	 ***	×××	***
Gross profitdo	×××	×××	×××	×××	×××	×××
General, selling, and admin-						
istrative expenses	×××	×××	×××	×××	×××	×××
1,000 dollars <u>2</u> / Operating income (loss)	XXX	***		XXX	**************************************	777
1,000 dollars	×××	×××	×××	×××	×××	×××
· · · · · · · · · · · · · · · · · · ·	XXX	XXX XXX	***	3/ XXX	XXX	×××
Interest expensesdo All other income (expense)	***	ANA		3/ ///	****	***
1.000 dollars	×××	×××	×××	4/ XXX	×××	×××
let income (loss) before				47		
income taxes1,000 dollars	×××	×××	×××	×××	×××	×××
Depreciation and amortization					******	
expense1,000 dollars	×××	×××	×××	×××	×××	×××
Cash flow from operations						·····
1,000 dollars	×××	×××	×××	×××	×××	×××
Ratio to net sales of:						
Cost of goods sold						
percent	×××	×××	×××	×××	×××	×××
Gross profitdo	×××	XXX	XXX	×××	XXX	×××
General, selling, and admin-						
istrative expenses						
percent	×××	×××	×××	×××	×××	×××
Operating income (loss)						
percent	×××	×××	×××	×××	×××	×××
Net income (loss) before						
income taxespercent	×××	×××	×××	×××	×××	×××

 $[\]underline{1}$ / The company suffered a 30-day strike during the last quarter of 1986.

Z/ Timken has ***, which account for *** percent of all GS&A costs. Total GS&A expenses declined *** from 1985 to 1986. Average employment in the bearing division was *** in 1983, *** in 1984, *** in 1985 and *** in 1986.

 $[\]underline{3}/$ The increase in interest expense for 1986 includes *** interest expense allocated to bearings on the basis of sales.

^{4/} The following items were not included by Timken in all other income (expense) for 1986 (they were indicated in a footnote to their financial data): (1) *** cumulative income resulting from the adoption of FASB Statement No. 88, "Employers accounting for settlements and curtailments of defined benefit pension plans and for termination benefits;" and (2) *** in income resulting from the cumulative effect of the company's change in its method of depreciation for substantially all property, plant, and equipment from the accelerated method to the straight-line method effective Jan. 1, 1986.

2. Depreciation method changes of *** were not included in 1986 operating income. Timken's reasoning was that operating results would not be comparable with prior years. 1/ Thus, operating income for 1986 is understated by that amount. Cumulative adjustments in their depreciation data include 1986 and prior years.

In its annual report, Timken cited three major factors that negatively affected its 1986 economic performance. These were price erosion, a volume of business too low in relation to its capacity (primarily in the United States), and a strike of 30 days duration at the company's unionized plants in the United States.

However, there are other factors that benefitted the 1986 operating results of the company and/or its bearing division. These include the operations of its new steel plant and overall steel prices, a change in its ***, a change in its depreciation method, and its adoption of Financial Accounting Standards Board (FASB) statements Nos. 87 and 88 for pension accounting. Timken's new steel plant, started in 1982 and completed in late 1985 at a cost of approximately \$450 million, employs the latest technology and is designed to produce the highest quality steel at the lowest cost. Bearing production utilizes steel tubing and bars from the new plant, as well as ***. The company also purchases ***. Prior to 1986, the company transferred steel to its bearing plants at ***. Subsequently, management realized that ***. In 1986, Timken initiated a *** transfer pricing policy, the effect of which was to ***. As of January 1, 1986, the company also changed its method of depreciation from the accelerated method to the straight-line method, and adopted FASB Statements 87 and 88. 2/ These changes have the effect of reducing operating expenses.

The accounting changes and 30—day strike cloud the operating results of the Timken Company for the fiscal year ended December 31, 1986. Timken's operating income margin for the 6-month period ended June 30, 1986, was *** percent. That reporting period excluded the 30—day strike and the effect of the retroactive accounting adjustments.

During the hearing of May 12, 1987, Mr. Joseph F. Toot (President of the Timken Company) indicated that Timken's investment value was impaired because of imports. He cited the stock price, lowered bond ratings, and dividend reduction. 3/ A discussion of these items follows.

An investment in the Standard and Poor's 500 stocks has more than doubled since 1981, but a similar investment in Timken stock has been virtually unchanged during the period. 4/ However, since the middle of 1986, Timken's stock is up 50 percent. The day of the hearing (May 12, 1987) the price of Timken stock closed at 60-3/4, the Company's highest closing price in over 3

^{1/} Telephone discussion with ***, Timken Company, Apr. 9, 1987.

²/ Reported in a telephone discussion of transfer pricing policy and accounting methodology changes with ***, Timken Company, Apr. 9, 1987.

^{3/} Testimony of J.F. Toot, May 12, 1987.

^{4/} Ibid.

years. The Value Line Investment Survey believes that the stock price is strong because of the asset value of the company (over \$60 per share). In the current financial climate, companies selling below asset value are valued higher despite lackluster performance. Actually, the Timken Company is more than a bearing company. It is also a steel producer and this product line has generally had significant losses during the past few years. Steel related companies have been among the weaker performing equities in recent years. The range of stock prices for Timken Company from 1982 to present is indicated below:

	Low	<u> High</u>
1987Jan. 1 - July 17	42-1/2	71-1/4
1986	39-1/2	53-3/8
1985	41-3/8	53
1984	49-1/4	67-1/4
1983	48-1/4	68-1/4
1982	40-3/8	65

Timken's Bond Credit Ratings by Standard and Poor's and Moody's have declined from 1983 to 1986. 1/ Although these ratings are lower, they still are of reasonable investment grade quality (Standard and Poor's is A- instead of AA- and Moody's A-3 instead of A-1). The reduced ratings reflect not only a deteriorating performance but also the additional debt incurred to construct the steel plant. Prior to 1983 all funds were generated internally.

The dividend to shareholders has been cut from \$3.40 in 1981 to \$1.00 in 1986. 2/ The reduction reflects the overall performance of the company. In addition, because of the large expenditure for the steel plant over the past few years, preservation of cash has been important to the company.

Operations of Hyatt Clark Industries.—Hyatt Clark's general experience was discussed earlier in the report. The product line financial data was ***. The data for Hyatt Clark are presented below (in thousands of dollars, except as noted):

	1983	1984	1985	1986
Sales:				
Roller bearings	×××	×××	×××	×××
Establishment	×××	×××	×××	x x x
Ratio of bearing/				
establishment sales				
percent	×××	×××	***	×××
Operating income (loss):				
Roller bearings	×××	×××	×××	×××
Establishment	** *	. XXX	×××	XXX
Operating income (loss)				
as a percent of sales:				
Roller bearings percent	×××	×××	. x x x	×××
Establishmentdo	×××	XXX	×××	×××

^{1/} Testimony of J.F. Toot - May 14, 1986

^{2/} Testimony of J.F. Toot - May 12, 1987.

The income-and-loss experience of all U.S. producers are presented separately in table 15. The industry is composed of large and small producers which manufacture diverse lines of tapered roller bearings. Several companies are subsidiaries of foreign companies and some firms import components. The results of the Timken Company heavily influenced the industry results.

Table 15
Income—and—loss experience of 10 U.S. producers on their operations producing tapered roller bearings, by selected producers, accounting years 1983—86, and interim periods ended March 31, 1986, and March 31, 1987.

Item and firm	198	3 1984	1985	1986	Interim period ended March 31— 1986 1987
Net sales:	*	*	*	*	*
Operating income or (loss):	*	*	*	*	*

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

Investment in productive facilities.—U.S. producers' investments in productive facilities for their overall establishments and for their tapered roller bearing operations are shown in table 16. The investment in such facilities for the establishments, valued at cost, was \$709.4 million as of the end of 1983 and \$747.6 million as of the end of 1986. The book value of the assets was \$366.2 million as of December 31, 1986. Total reported investment in productive facilities for tapered roller bearings, valued at cost, was \$680.0 million as of the end of 1983 and \$679.4 million as of the end of 1986. The book value of such assets was \$331.0 million as of December 31, 1986. The original—cost investment as of March 31, 1987, was ***. Timken ****.

Capital expenditures.—Capital expenditures for overall establishment operations were *** in 1983, *** in 1984, *** in 1985, and *** in 1986 (table 17). Capital expenditures for tapered roller bearing operations were *** in 1983, *** in 1984, *** in 1985, and *** in 1986. Timken accounted for a major proportion of total capital expenditures during the period under investigation. Although Timken's bearing division experienced ***, it is a direct beneficiary of the new alloy steel plant constructed by the company. This plant, completed in 1985 at a cost of approximately \$450 million, supplies the bearing division with steel tubing and bars.

Establishment outlays for the interim period ended March 31, 1987, were ***, compared with *** for the interim period ended March 31, 1986. Tapered roller bearing expenditures for the interim period ended March 31, 1987, were ***, compared with *** in the 1986 interim period.

Table 16
Tapered roller bearings: U.S. producers' end-of-period valuation of fixed assets, accounting years 1983-86, and interim periods ended March 31, 1986, and March 31, 1987

					Interim	•
Thum 1 6!	1000		1005	1005	ended March 31-	
Item and firm	1983	1984	1985	1986	1986	1987
Overall establishment:						
Original cost:						
Timken	. xxx	×××	×××	×××	×××	XXX
Other producers	×××	×××	×××	×××	×××	XXX
Total	709,436	790,094	795,202	747,607	745,392	768,548
Book value:	-	·		-		
Timken <u>1</u> /	×××	×××	×××	×××	×××	×××
Other producers	×××	XXX	x x x	×××	×××	* * *
Total	333,939	341,955	319,130	366,203	304,477	317,999
Number of firms providing						
data	6	8	8	8	6	6
Tapered roller bearing						
operations:						
Original cost:		Ť				
Timken <u>1</u> /	XXX	×××	×××	×××	×××	XXX
Other producers	XXX	XXX	XXX	XXX	XXX	**X
Total	679,987	728,163	732,584	679,411	675,915	691,724
Book value:						
Timken	×××	×××	×××	×××	×××	XXX
Other producers	XXX	***	***	***	×××	XXX
Total	316,772	313,411	292,636	330,955	272,249	286,363
Number of firms providing						
data	6	8	8	8	6	6

^{1/} During the last quarter of 1985 and into 1986 Timken ***. In addition, certain economically impaired assets were written down to their net realizable values.

Table 17
Tapered roller bearings: Capital expenditures, accounting years 1983—86, and interim periods ended March 31, 1986, and March 31, 1987

	In thous	ands of	dollars)				
					Interim period ended March 31-		
Item	1983	1984	1985	1986	1986	1987	
Overall establishment:							
Timken	×××	XXX	XXX	×××	×××	×××	
Other producers	×××	×××	×××	XXX	×××	XXX	
Total	×××	XXX	×××	***	X X X	***	
providing data Tapered roller bearing operations:	6	8	8	8	. 6	6	
Timken	×××	XXX	×××	×××	×××	×××	
Other producers	×××	×××	×××	×××	×××	×××	
Total Number of firms	×××	×××	XXX	***	***	***	
providing data	6	8	8	8	6	6	

Research and development.—Timken also accounted for most of the research and development expenses reported by U.S. producers. Their expenditures were used to ***. Total industry outlays were *** in 1983, *** in 1984, *** in 1985, and *** in 1986. The large increase in Timken's research and development expenses in 1986 is a result of certain expenses being classified differently than in previous years. These classification changes resulted from the reorganization of ***. Restated amounts for prior years cannot be determined. Reported research and development expenditures are shown in the following tabulation (in thousands of dollars):

Producer	1983	1984	1985	1986
Timken	×××	***	×××	×××
Other producers	XXX	XXX	X-X-X	**
Total	XXX	XXX	XXX	×××
Number of firms providing data	5	7	7	7

<u>Capital and investment</u>.—The companies were asked to describe and explain the potential negative effects, if any, of imports of tapered roller bearings and parts from China, Hungary, Italy, Japan, Romania, and/or Yugoslavia on their firm's growth, investment, and ability to raise capital. Excerpts from their responses are presented below:

* * * * * * *

Summary of U.S. Producers' Performance

As indicated earlier, the U.S. producers' performance during 1983-86 generally reflected the pattern in U.S. consumption of tapered roller bearings—strong improvement on all indicators from 1983 to 1984, followed by declines from 1984 to 1986. The overall operating levels in 1986 were lower than those in 1983 for capacity, production, shipments (quantity and value), and employment. In a similar comparison, these indicators were lower during January—March 1987 than during the corresponding period of 1986. Capacity utilization rates in 1986 were lower than in 1983 for the production of tapered roller bearing cups, but slightly higher in 1986 than in 1983 for cone assemblies. Likewise, capacity utilization rates during January—March 1987 were slightly lower for the production of cups than during the corresponding period of 1986, but higher during the first quarter of 1987 for cone assemblies than during the first quarter of 1986. Inventory—to—shipment ratios are high since ****.

With regard to the industry's financial performance, it experienced operating losses in 1983, 1985, and 1986; however, some improvement is shown since losses as a ratio to net sales were 7.3 percent in 1983, 4.5 percent in 1985, and 0.7 percent in 1986. This improvement may be attributed to higher net sales in 1985 and 1986 when compared with 1983, as well as to concerted efforts by the producers to cut costs, consolidate operations, and remove inefficient and obsolete equipment. Capital expenditures decreased substantially while R&D increased substantially, trends largely reflecting Timken's activity.

Timken's strong influence on the industry's profit—and—loss experience, coupled with the several nonrecurring expense items and accounting changes made by Timken, require that the total industry experience, as well as Timken's individual operations, be evaluated carefully with these factors in mind. A detailing of the factors and their impact on the profit—and—loss performance of the industry was discussed in the previous sections of this report.

The especially poor performances of two U.S. producers—*** and ***—have a distorting effect on the overall industry trends, which generally "flatten out" or improve with the exclusion of these two firms. Although the other U.S. producers have undoubtedly gained from the decline of these two firms (i.e., ***), the U.S. producers have experienced an overall decline in market share of U.S. tapered roller bearing consumption. Tables 18 and 19 present summary performance indicators for the U.S. industry, Timken individually, and the industry excluding *** and ***.

Table 18
Tapered roller bearings: U.S. producers' capacity, production, and capacity utilization by selected producers, 1983-86, January-March, and January-March 1987 1/

			•		Change from	JanMar	
Item	1983	1984	1984	1986	198386	1986	1987
					Percent		
Capacity (1,000			-				
units): 2/					•		
Cone assemblies:							
Total industry	180,629	177,249	179,471	172,275	-4.6	29,349	27,128
Timken	XXX	XXX	XXX	***	×××	×××	XX)
Industry less	;						
***	×××	×××	×××	×××	***	3/	<u>3</u> /
Cups:		,				 '	 ',
Total industry	185,033	180,257	185,733	179,942	-2.8	32,326	29,377
Timken	***	***	***	XXX	***	32,320 ***	XX)
		*****					*****
Industry less	×××	×××	×××	×××	×××	2/	3
***,,		XXX	, AAA	AAA		<u>3</u> /	<u>3</u> /
Production				•			
(1,000 units):	•						
Sets:	•						
Total industry	13,440	14,583	13,285	12,246	- 8.9	2,692	3,482
Timken	XXX	XXX	XXX	XXX	XXX	×××	XX)
Industry less	•						
***	×××	×××	· ×××	×××	***	<u>3</u> /	<u>3</u> /
Cone assemblies:		-					
Total industry	92,481	118,866	102,475	89,929	-2.8	19,061	18,933
Timken	XXX	×××	×××	XXX	***	XXX	XX)
Industry less							
***	×××	×××	×××	×××	***	<u>3</u> /	3/
Cups:						<u></u> -	-
Total industry	101,039	117,383	107,793	90,640	-10.3	19,962	17,867
Timken	***	***	XXX	XXX	***	XXX	2., (C)
Industry less		******		******	******		
****	XXX	×××	×××	×××	***	2/	9.4
		***	****	^^^	^^^	<u>3</u> /	<u>3</u> /
Capacity utilization							
(percent):							
Cone assemblies:							
Total industry	51.2	67.1	57.1	52.2	1.9	64.9	69.8
Timken	XXX	×××	XXX	×××	×××	X X X	XXX
Industry less							
***	XXX	×××	×××	×××	***	3/	<u>3</u> /
Cups:							
Total industry	54.6	65.1	58.0	50.4	-7.7	61.8	60.8
Timken	XXX	×××	×××	×××	x x x	×××	XXX
Industry less							
***	×××	XXX	. XXX	×××	***	· <u>3</u> /	<u>3</u> /
***************************************						<u>~</u> /	≗,

^{1/} Capacity and production data ***.

²/ The capacity to produce tapered roller bearing sets was not reported in a comparable manner by U.S. producers.

 $[\]underline{3}/$ This category is not applicable. *** did not respond to the Commission's supplemental questionnaire, therefore the firm is not included in the industry data presented for January-March 1986 and January-March 1987.

Table 19
Tapered roller bearings: U.S. producers' domestic shipments, market shares, employment, and operating income and loss to net sales by selected producers, 1983-86, January-March, and January-March 1987

		•			Change		
					from	JanMar-	···
Item	1983	1984	1985	1986	1983-86	1986	1987
					Percent		
Quantity of domestic							
shipments							
(1,000 units):		•					
Total industry	•	210,172	183,085	164,249	-13.7	44,123	37,477
Timken	***	X XX	X XX	XXX	***	***	***
Industry less ***	***	***	***	***	***	***	***
As a share of							
consumption			•				
(percent):	•						
Total industry	71.7	64.2	65.6	62.3	-13.1	63.4	56.7
Timken	* **	* **	X XX	***	X-X-X	XXX	XXX
Industry less ***	***	***	***	***	***	***	***
Value of domestic							
shipments	•						
(1,000 dollars):							
Total industry	•	738,984	648,396	567,407	-7.4	166,453	140,586
Timken	X XX	X XX	×××	XXX	***	***	XXX
Industry less ***	***	***	***	***	***	***	***
As a share of							
consumption							
(percent):							
Total industry	87.0	82.5	81.8	80.5	-7.5	81.4	80.3
Timken	***	***	XXX	***	X XX	***	XXX
Industry less ***	***	***	***	***	***	***	***
Employment (1,000							
workers):	7 504						
Total industry	7,506 x xx	9,149	7,694	6,792	-9.5	6,553	6,191
Timken	***	***	***	***	***	***	***
Industry less ***		***	***	***	***	***	***
Operating income (loss)							
as as ratio to net					1		
sales (percent):	(7 2)		/4 51	(0.7)	00.4	2.2	(0.5)
Total industry	(7.3)	3.0	(4.5) ***	(0.7)		3.2 ***	(0.5)
Timken	***	***	***	***	1/	***	***
Industry less ***	***	***	***	***	1/	***	***

 $[\]underline{1}$ / Not meaningful (i.e., the change was from a loss to a profit).

Consideration of Alleged Threat of Material Injury

In its examination of the question of threat of material injury to an industry in the United States, the Commission may take into consideration such factors as the rate of increase of the subject imports, the rate of increase in U.S. market penetration by such imports, the rate of increase of imports held in inventory in the United States, the capacity of producers in the exporting country to generate exports (including the existence of underutilized capacity and the availability of export markets other than the United States), and the price depressing or suppressing effect of the subject imports on domestic prices.

Discussions of the rates of increase in imports from the subject countries of tapered roller bearings, parts thereof, and certain housings containing tapered roller bearings and their U.S. market penetration are presented in the section of the report entitled "Consideration of the Causal Relationship Between the Alleged LTFV Imports and the Alleged Material Injury." Available information on prices of the imported products is also presented in the section of the report on causation. Information on inventories of the subject imports in the United States and the ability of the foreign producers to generate exports is presented in the following sections.

U.S. importers' inventories

The quantities of inventories of tapered roller bearing imports from Yugoslavia and Japan rose from 1983 to 1986, while importers of Italian tapered roller bearings maintained *** (table 20).

SKF, the principal importer of Italian tapered roller bearings, had difficulty providing data on inventories of tapered roller bearings from Italy, because the firm's inventories are not distinguished by country of origin or from domestic products. However, SKF judged ***. 1/ The only other importer of Italian bearings identified reported negligible quantities of inventories.

The quantity of inventories of tapered roller bearing imports from Yugoslavia rose by *** percent from 1983 to 1986, and these inventories as a ratio to imports increased from *** percent to *** percent. Inventories of imports from Yugoslavia were *** percent higher during January—March 1987 than during the corresponding period of 1986.

Inventories of tapered roller bearing imports from Japan subject to investigation rose by 17.8 percent, while inventories as a ratio to imports increased from *** percent to *** percent. However, inventories of imports from Japan were 30.6 percent lower during the first quarter of 1987 than during the first quarter of 1986, and inventories as a ratio to imports were also lower during January—March 1987 than during January—March 1986.

Table 20
Tapered roller bearings: U.S. importers' inventories, by quantity and as a ratio 1/ to reported imports, 1983-86, January-March 1986, and January-March 1987

					JanM	lar
Item	1983	1984	1985	1986	1986	1987
Inventories from Italy: 2/						
Quantity1,000 units As a ratio to imports	×××	×××	***	×××	***	XXX
percent	×××	×××	×××	×××	×××	XXX
Inventories from Yugoslavia: 2/						
Quantity1,000 units	×××	×××	×××	×××	×××	×××
As a ratio to imports					•	
percent	×××	XXX	×××	×××	<u>3</u> /	3/
Inventories from Japan: 4/		•				
O-4 inches in O.D. from NTN:						
Quantity1,000 units	×××	×××	***	***	XXX	XXX
As a ratio to imports						
percent	×××	×××	***	×××	×××	×××
Over 4 inches:		•				
Quantity	×××	×××	×××	×××	XXX	×××
As a ratio to imports						
percent	×××	×××	×××	***	×××	×××
Total subject imports					·	
Quantity	×××	×××	×××	×××	×××	×××
As a ratio to imports						
percent	×××	***	×××	×××	XXX	. XXX

^{1/} Ratios of inventories to imports for partial year periods are based on annualized imports. Ratios are calculated using imports and inventories as reported in response to questionnaires of the Commission.
2/ ***

Ability of foreign producers to generate exports

Commission staff requested representatives of or counsel for the Italian and Yugoslavian tapered roller bearing producers to supply information on these producers' capacity, production, shipments to the United States, home-market shipments, shipments to all other countries, and end-of-year inventories for the years 1983-86 (table 21). 1/ Italian shipments to the

^{3/} These data are not available.

^{4/} Inventories were reported by firms accounting for 81.2 percent (by value) of the imports subject to investigation, as reported in questionnaires submitted to the U.S. International Trade Commission (table 24).

^{1/} Comparable data for Chinese, Hungarian, and Romanian tapered roller bearing producers were presented in the staff report of May 21, 1987 (invs. Nos. 731-TA-341, 344, and 345).

Table 21
Tapered roller bearings: Foreign producer data, 1983-86, January-March 1986, and January-March 1987

					JanMar	
Item	1983	1984	1985	1986	1986	1987
Italian producer, SKF: 1/						
Capacity: 2/			•			
Single-row cups and			•			
cones1,000 units	XXX	XXX	XXX	×××	. X X X	×××
Tapered bearing units 3/						
1,000 units	×××	XXX	×××	XXX	×××	×××
Productiondo	XXX	XXX	XXX	XXX	XXX	×××
Capacity utilization						
percent	XXX	XXX	×××	×××	×××	XXX
Inventories1,000 units	XXX	XXX	×××	XXX	XXX	XXX
Home market shipmentsdo	XXX	XXX	×××	XXX	***	×××
Shipments to U.Sdo	×××	XXX	×××	XXX	XXX	XXX
All other shipmentsdo	×××	×××	×××	×××	×××	×××
U.S. shipments as a ratio						
to total shipments						
percent	XXX	×××	×××	×××	×××	XXX
Yugoslavian producer, Unis Ro						
Promet: 4/						
Capacity1,000 units	XXX	XXX	×××	×××	XXX	XXX
Productiondo	XXX	×××	xxx	×××	x x x	×××
Capacity utilizationdo	×××	×××	×××	×××	×××	×××
Inventoriesdo	XXX	×××	***	x x x	XXX	XXX
Home market shipments		•				
1,000 units	XXX	XXX	×××	×××	XXX	×××
Shipments to U.Sdo	XXX	XXX	XXX	XXX	XXX	XXX
All other shipmentsdo	×××	×××	×××	×××	×××	×××
U.S. shipments as a ratio to		,		•		
total shipmentspercent	×××	×××	×××	×××	×××	×××

^{1/} Counsel for SKF provided these data.

Source: Counsel for and representatives of the foreign producers.

 $[\]underline{2}$ / Capacity is based on *** shifts per day, operational *** days per year.

^{3/} SKF distinguishes in its records between cups and cones and tapered bearing units (TBU's), and counsel for SKF argues that TBU's should not be considered a "like product." Staff have added the figures for TBU's and cups and cones together in all of the above categories except capacity. SKF's exports to the United States of TBU's have accounted for a *** portion of its total U.S. sales of tapered roller bearing products: ***.

 $[\]underline{4}/$ Data for capacity, production, home market shipments, and shipments to the United States from 1983 to 1985 and for the first half of 1986 were contained in a brief submitted by counsel for Unis Ro Promet. All other data (e.g., on all other shipments, inventories, and partial periods of 1986 and 1987) were obtained during telephone conversations with *** and *** of Unis Ro Promet (in Yugoslavia) on July 6, 7, 8, 9, 10, 13, and 14, 1987.

United States of tapered roller bearings rose by *** percent from 1983 to 1986. However, shipments to the United States accounted for only from *** percent in 1983 to *** percent in 1986 of all Italian tapered roller bearing shipments. Such shipments accounted for *** percent of all shipments during Janury-March 1987 (as compared with *** percent during the corresponding quarter of 1986). From 1983 to 1986 Italian production of tapered roller bearings dropped by *** percent, while inventories fell by *** percent. Capacity utilization increased by *** percent from 1983 to 1986.

Yugoslavian shipments to the United States of tapered roller bearings steadily increased from 1983 to 1986, rising by *** percent during this period. Shipments to the United States accounted for from *** percent (in 1983) to *** percent in (1985) of all Yugoslavian shipments of these products for the years 1983-86. Such shipments accounted for *** percent of all Yugoslavia shipments during January-March 1986, while shipments to the United States during the corresponding quarter of 1987 were ***. From 1983 to 1986 Yugoslavia production of tapered roller bearings increased by *** percent, while inventories fell by *** percent. Capacity utilization rose from *** percent in 1983 to *** percent in 1986.

Consideration of the Causal Relationship Between LTFV Imports and the Alleged Material Injury

U.S. imports 1/

Not all countries under review exported to the United States all of the tapered roller bearing products subject to investigation. There were no imports of mounted tapered roller bearings reported by any of the importers of tapered roller bearings. 2/ Tapered rollers were imported in nominal quantities from Japan only, and imports of unfinished and finished components were imported only from Japan, China, and Romania. These imports of rollers and other parts were imported only by U.S. producers. There were imports of cartridge bearing units only from Japan.

bearing, and not tapered roller bearing, assemblies.

^{1/} Because of a lag in reporting, official import statistics include some "carry-over" data for merchandise imported, but not reported, in prior periods (usually the previous month). Beginning in 1987, Commerce extended its monthly data compilation cutoff date by about 2 weeks in order to significantly reduce the amount of carry-over. Therefore, official statistics for January 1987 include data that would previously have been carried over to February 1987. However, in order to avoid an apparent overstatement of the January 1987 data, the carry-over data from 1986 that would have been included in January 1987 official statistics as of the previous cutoff date have been excluded. Commerce isolated these 1986 carry-over data and has not included them in official statistics for 1986 or January 1987, since their inclusion in either period would result in an apparent overstatement. With respect to imports of tapered roller bearings, this carry-over amounted to 986,000 units, with a value (c.i.f. plus calculated duties) of \$2.1 million. 2/ The firms identified by the Customs Net Import File as importers of mounted bearing units and parts of mounted bearing units reported that these were ball

China and Hong Kong. —This discussion of "imports from China" includes imports from Hong Kong. In its final determination, Commerce considered imports of tapered roller bearing products through Premier, a Hong Kong trading firm, to be within the scope of its investigation, but excluded products exported directly by the China National Machinery & Equipment Import & Export Corporation (CMEC) from the scope of its finding. 1/ Imports identified as being from Hong Kong in official statistics (of the Department of Commerce) are believed to be produced in China under the auspices of CMEC and exported to the United States by Premier. However, Commission staff (in consultation with Commerce) determined that tapered roller bearing products exported through Premier have not necessarily been classified under imports from Hong Kong from 1983 to the present; in fact, some of these products have likely been grouped with imports from China. Staff therefore investigated which of the U.S. importers of tapered roller bearing products "from China" have in fact bought products directly from CMEC during the period under investigation, and which have purchased products through Premier. Staff then eliminated figures for direct imports from CMEC (obtained in questionnaires and telephone conversations with importers) from total (official) imports from "Imports from China" subject to investigation thus include official imports from Hong Kong and official imports from China less those purchases which are known to be directly from CMEC (see table 26).

The total value of imports of tapered roller bearing products subject to investigation increased by 68.6 percent, from \$794,000 in 1983 to \$1.3 million in 1986. During this period, the number of units imported rose from 937,000 units in 1983 to 1.0 million units in 1986. The value of imports of tapered roller bearing products subject to investigation was 124 percent higher during January—March 1987 than during the corresponding period of 1986. (table 26).

Total imports from China and Hong Kong are shown in tables 22 and 23. Since 1983, U.S. imports of tapered roller bearings from Hong Kong have consisted exclusively of complete sets and parts, and since 1984, purchases classified as imports from China (only some of which are subject to investigation) have consisted almost entirely of complete sets and parts. There were no imports of mounted tapered roller bearings, cartridge bearing units, or tapered rollers from either Hong Kong or China during the period under investigation.

Hungary.—Tapered roller bearing sets, cups, and cone assemblies were imported into the United States from Hungary. There were no imports of tapered rollers, bearing cartridge units or mounted bearings, or tapered roller bearing parts during 1983-86. From 1983 to 1986, U.S. imports of tapered roller bearing sets, cups, and cone assemblies from Hungary rose from 2.2 million units in 1983 to 3.8 million units in 1986, an increase of 69.3 percent. During the same period, these units rose in value by 61.5 percent. The United States imported 48.7 percent fewer (by quantity) Hungarian tapered roller bearings during the first quarter of 1987 than during the first quarter of 1986.

^{1/} Michael Ready of the Department of Commerce stated in a telephone conversation of July 16, 1987 that although Premier is the only known exporter of CMEC tapered roller bearings (other than CMEC itself) any other exporter would also be subject to Commerce's antidumping duty order.

Table 22
Tapered roller bearings and parts thereof: 1/ Total U.S. imports, by quantity, 1983-86, January-March 1986, and January-March 1987

					January.	
	1983	1984	1985	1986	1986	1987
TRB sets (1,000 units):						
Hungary	0	40	58	644	0	18
Italy	42	146	983	1,139	115	50
Japan	2,193	6,956	7,369	5,643	1,904	1,452
China	317	1,546	457	291	64	291
Hong Kong	1	59	379	1,038	227	587
Romania	209	31	379	145	70	2
Yugoslavia	72	187	0	0	0	0 100
Šubtotal	2,835	8,963	9,625	8,900 3,610	2,381 552	2,400
All other sources	936 3,771	2,654 11,618	1,466 11,091	12,510	2,933	1,218 3,618
TOTAL	3,//1	11,010	11,091	12,510	2,333	3,010
(1,000 units):						
Hungary	1,093	1,246	1,310	1,556	603	307
Italy	4	132	0	1	0	0
Japan	31,410	44,325	33,254	33,803	9,596	8,423
China,	392	0	0	0	. 0	0
Romania	3,623	2,254	3,966	2,624	188	1,177
Yugoslavia	360	1,608	1,121	<u>833</u> 38,817	213 10,600	510 10,418
Subtotal	36,882 584	49,564 2,489	39,651 2,416	1,547	662	311
TOTAL	37,466	52,053	42,067	40,364	11,261	10,729
TRB cups (1,000 units):	.,	42,000	,	,	,	,
Hungary	1,123	1,369	1,298	1,554	647	316
Italy	2	130	0	. 0	0	0
Japan	27,088	44,060	31,015	37,855	8,922	11,135
China,	327	0	22	0 707	0	1 204
Romania	3,516	2,414	4,490	2,787	189	1,384
Yugoslavia Subtotal	489 32,545	1,682 49,655	1,110 37,935	822 43,018	<u> </u>	550 13,384
All other sources	1,298	4,049	4,739	3,458	1,288	858
TOTAL	33,842	53,704	42,674	46,476	11,245	14,243
Total (1,000 units):	-	•		-	•	
Hungary	2,217	2,655	2,667	3,754	1,250	641
Italy	48	408	983	1,140	115	50
Japan	60,691	95,340 1,546	71,638 479	77,302 291	20,421 64	21,011 291
China Hong Kong	1,036 1	1,540 59	379	1,038	227	587
Romania	7,349	4,698	8,835	5,555	447	2,563
Yugoslavia	921	3,477	2,231	1,655	411	1,060
Subtotal	72,262	108,183	87,211	90,735	22,936	26,202
All other sources	2,817	9,192	8,621	8,615	2,502	2,387
TOTAL	75,079	117,375	95,832	99,351	25,438	28,590
TRB parts (1,000 pounds):	2./	2./	^		•	0
Hungary	<u>2/</u>	<u>2</u> / 35	0 63	0 87	0 5	0 6
Italy Japan	188	330	578	507	175	178
China	24	219	149	196	1,1	72
Hong Kong	-ċ	81	20	65	65	4
Romania	Ŏ	ĩ	54	153	Ö	Ó
Yugoslavia	0	0	0	7	0	18
Šubtotal	212	665	864		245	279
All other sources	131	294	932	1,213	350	230
TOTAL	343	960	1,796	2,227	595	509
IVINL	373	300	1,/30	L, LL!	393	509

1/ Data are for TSUSA items 680.3932 (sets), 680.3934 (cups), 680.3938 (cones), and 680.3940 (parts). 2/ Less than 500 pounds.

Note: Because of rounding, figures may not add to the totals shown.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 23 Tapered roller bearings and parts thereof: Total U.S. imports, by value, 1983-86, January-March 1986, and January-March 1987

(C.i.f. value, plu	s calcul	ated duties	paid, in	thousands	<u>of dollars)</u> January—March—		
	1983	1984	1985	1986	1986	1987	
TRB sets:			051			•	
Hungary		188	251	602		20	
Italy	332	549	898	1,922	291	121	
Japan	10,094	22,713	21,777	16,092	5,176	3,578	
China	417	1,242	605	413	77	371	
Hong Kong	14	175	520	1,227	308	436	
Romania	249	36	395	198	79	2	
Yugoslavia	92	260				-	
Subtotal	11,198	25,164	24,446	20,453	5,932	4,527	
All other sources	7,671	11,398	8,193	13,278	2,504	3,888	
Total	18,869	36,562	32,639	33,731	8,436	8,416	
TRB cone assemblies:		·					
Hungary	1,259	1,119	1,249	1,360	485	- 231	
Italy	15	70	· . —	3			
Japan	39,771	67,370	59,075	54,479	16,165	12,518	
China	360				*****	· -	
Romania	3,191	1,864	4,848	2,240	221	944	
Yugoslavia	417	1,516	961	665	218	374	
Subtotal	45,014	71,940	66,133	58,747	17,090	14,067	
All other sources	2,284	4,641	5,824	4,687	1,205	1,509	
Total	47,298	76,581	71,958	63,434	18,295	15,576	
TRB cups:	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,0,001	, , , , ,		10,230	10,0,0	
Hungary	543	548	424	946	575	137	
Italy	14	125	· · · · · · · · · · · · · · · · · · ·	J40 	3/3 _	137	
Japan	19,303	35,119	30,059	32,442	8,835	8,088	
China	119	33,119	30,03 3 7	32,442	0,035	0,000	
		1 242	•	1 100	. 127	473	
Romania	1,262 272	1,242	2,137 380	1,100	137 85	473	
Yugoslavia		643		267		162	
Subtotal	21,511	37,677	33,006	34,755	9,632	8,860	
All other sources	3,676	5,650	6,915	5,934	1,639	1,659	
Total	25,187	43,327	39,921	40,689	11,271	10,519	
Subtotal:							
Hungary	1,801	1,856	1,925	2,909	1,060	387	
Italy	360			1,924		121	
Japan	69,168	125,203	110,911	103,013	30,177	24,184	
China	896	1,242	611	413	77	371	
Hong Kong	14	175	520	1,227	308	436	
Romania	4,702	3,142	7,380	3,537	437	1,419	
Yugoslavia			4 0 4 4	022	202	E 2 6	
	781	2,419	1,341	932	303	536	
Subtotal	$\frac{781}{77,723}$	2,419 134,781	1,341	113,955	32,654	27,454	
Subtotal							

-Continued-

Table 23 Tapered roller bearings and parts thereof: Total U.S. imports, by value, 1983-86, January-March 1986, and January-March 1987-Continued

(C.i.f. value, plus calculated duties paid, in thousands of dollars)

					January-March-	
	1983	1984	1985	1986	1986	1987
TRB parts:						
Hungary	2	1	· —	_		_
Italy	11	202	218	220	15	35
Japan	555 .	1,141	1,942	1,646	516	515
China	93	509	343	417	13	197
Hong Kong	_	162	60	81	81	10
Romania		12	218	203	-	, <u> </u>
Yugoslavia				15	<u></u>	50
Subtotal	660	2,026	2,781	2,583	625	808
All other sources	548	1,084	1,738	2,104	671	413
Total	1,209	3,111	4,519	4,687	1,296	1,221
Total TRB imports:						
Hungary	1,803	1,856	1,925	2,909	1,060	387
Italy	371	946	1,116	2,144	306	157
Japan	69,724	126,344	112,853	104,659	30,692	24,699
China	989	1,751	955	830	91	568
Hong Kong	14	337	580	1,307	389	446
Romania	4,702	3,153	7,598	3,741	437	1,419
Yugoslavia	781	2,419	1,341	947	303	586
Subtotal	78,383	136,807	126,366	116,538	33,279	28,261
All other sources	14,180	22,774	22,670	26,003	6,019	7,470
Total	92,563	159,581	149,036	142,541	39,298	35,731

Because of rounding, figures may not add to the totals shown.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Italy.—Since 1984, the trend in imports of tapered roller bearings from Italy has been away from cup and cone assemblies toward complete sets. In fact, there were no imports of cups and practically none of cone assemblies during 1985 and 1986. In addition, there were no imports of mounted bearings or bearing cartridge units from Italy, and although the Department of Commerce reported imports of antifriction rollers and tapered roller bearing parts from Italy during 1983-86, none of the importers of Italian tapered roller bearings imported tapered rollers or components for bearings.

The number of sets, cone assemblies, and cups imported from Italy rose from 48,000 units in 1983 to 1.1 million units in 1986, a 23-fold increase. These imports rose in value from \$360,000 in 1983 to \$1.9 million in 1986. During January-March 1987, the United States imported 56.5 percent fewer (by quantity) Italian tapered roller bearings than during the corresponding period of 1986. Imports of Italian parts rose 86-fold, from 1,000 pounds in 1983 to 87,000 pounds in 1986.

Romania.—There were no imports of mounted tapered roller bearings, tapered rollers, or bearing cartridge units during 1983-86. Imports from Romania of tapered roller bearing units fluctuated between 1983 and 1986, decreasing overall in quantity by 24.4 percent, from 7.3 million units in 1983 to 5.6 million units in 1986. The value of these imports declined from \$4.7 million in 1983 to \$3.5 million in 1986. During January-March 1987, the United States imported 473.4 percent more (by quantity) Romanian tapered roller bearings than during the corresponding period of 1986. U.S. imports of Romanian tapered roller bearing parts increased from almost none in 1983 and 1984 to 153,000 pounds in 1986, valued at \$203,000. L&S Bearing, a U.S. producer, is the only importer of parts from Romania, which are unfinished cups and cones.

Yugoslavia.—U.S. imports from Yugoslavia of tapered roller bearings were exclusively cup and cone assemblies during 1985 and 1986. There were no imports of sets in 1985 or 1986, and there have not been any imports of tapered rollers, parts, mounted bearings, or cartridge bearing units. The quantity of U.S. imports of Yugoslavian tapered roller bearings rose by 79.7 percent from 921,000 units in 1983 to 1.7 million units in 1986. The value of these units rose by 19.3 percent during the same period. The United States imported 157.9 percent more (by quantity) Yugoslavian tapered roller bearings during the first quarter of 1987 than during the first quarter of 1986.

<u>Japan</u>.—Tables 22 and 23 report total U.S. imports from Japan of tapered roller bearings; however, not all of these imports are subject to investigation. Imports from Japan that are subject to investigation include imports of O-4 inch outside diameter tapered roller bearings from the Japanese producer NTN Toyo Co. Ltd; imports of all tapered roller bearing sets, cone assemblies, and cups greater than 4 inches in outside diameter; imports of tapered rollers and all other bearing parts; and unfinished tapered roller bearing components. <u>1</u>/

The Commission received questionnaire responses from all known importers of tapered roller bearings from Japan. *** reported in response to the Commission's questionnaires. 2/ ***. Based on these questionnaire responses, data on LTFV imports subject to investigation are presented in table 24. 3/

As can be seen from table 24, the total quantity of tapered roller bearing sets, cone assemblies, and cups declined by *** percent from 1983 to 1986, from *** units to *** units. The value of these imports increased by *** percent from 1983 to 1986, from *** to ***. The total value of all Japanese imports, including parts, rose by *** percent from 1983 to 1986, from *** to ***. On the other hand, the value of imports of Japanese tapered roller bearing products during January-March 1987 was *** percent less than during the corresponding period of 1986.

^{1/} See Commerce's notice of institution in app. C.

^{2/ &}lt;del>XXX. -

^{3/} XXX.

Table 24
Tapered roller bearings and parts thereof: U.S. imports from Japan subject to investigation, 1983-86, January-March 1986, and January-March 1987

					JanM	ar		
tem	1983	1984	1985	1986	1986	1987		
	Quantity (1,000 units)							
-4 inches in O.D.								
from NTN:								
Sets	XXX	×××	×××	×××	×××	XXX		
Cone assemblies	XXX	×××	×××	×××	***	XXX		
Cups	×××	×××	×××	×××	×××	XXX		
Total	XXX	×××	XXX	XXX	×××	XXX		
ver 4 inches O.D.:								
Sets	×××	×××	***	***	×××	×××		
Cone assemblies	×××	***	×××	×××	×××	XXX		
Cups	×××	×××	×××	×××	×××	XXX		
Total	×××	×××	×××	***	×××	XXX		
arts:					•			
Unfinished cups and cones	×××	×××	×××	×××	×××	×××		
Unfinished and finished								
rollers1,000 pounds	×××	×××	×××	×××	×××	XXX		
Other parts 1/	×××	×××	XXX	×××	×××	XXX		
)—4 inches in O.D. from NTN:	<u></u>	<u>i.f., du</u>	cy-paru	value (1	,000 G 01	IAP'S)		
Sets	×××	×××	×××	×××	×××			
Cone assemblies	×××				~~~	XXX		
	~~~	***	XXX	×××	×××	-		
Cups	×××	***	××× ×××	***		XXX		
Cups Total	******		******	******	×××	XXX XXX		
Total	×××	×××	×××	×××	*** ***	XXX XXX		
Total	×××	×××	×××	×××	*** ***	XXX XXX XXX		
Total	***	***	XXX XXX	***	*** *** ***	*** *** ***		
Total  Over 4 inches O.D.:  Sets  Cone assemblies	***	***	***	***	*** *** ***	*** *** ***		
Total  Over 4 inches O.D.:  Sets	*** *** ***	*** *** ***	*** *** ***	*** *** ***	*** *** *** ***	*** *** *** ***		
Totalver 4 inches O.D.: Sets	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** *** ***	*** *** *** ***		
Totalver 4 inches O.D.: Sets	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** *** ***	*** *** *** ***		
Totalver 4 inches O.D.: Sets	*** *** *** ***	*** *** *** *** ***	*** *** *** *** ***	*** *** *** *** ***	*** *** *** *** ***	*** *** *** ***		
Total	*** *** *** ***	*** *** *** *** ***	*** *** *** *** ***	*** *** *** *** ***	*** *** *** *** ***	*** *** *** *** ***		
Total	*** *** *** ***	*** *** *** *** ***	***  ***  ***  ***  ***  ***  ***	*** *** *** *** *** ***	*** *** *** *** *** ***	***  ***  ***  ***  ***  ***  ***  ***		

¹/ This item cannot be measured in a meaningful unit of quantity.

Note: Because of rounding, figures may not add to totals shown.

With regard to size, imports of tapered roller bearings O-4 inches in outside diameter from NTN Toyo have been ***. From 1983 to 1986, the quantity of these imports declined by *** percent and their value decreased by *** percent. Imports of tapered roller bearings greater than 4 inches in outside diameter have been generally increasing. From 1983 to 1986, these imports increased by *** percent in quantity (from *** to *** units) and by *** percent in value (from *** to ***).

### Market penetration

From 1983 to 1986, the import penetration ratios (by quantity) for finished tapered roller bearings increased for total imports from all countries subject to investigation except for Romania, which declined by 0.7 percentage parts (table 25). Imports from China and Hong Kong, Hungary, Italy, Japan, and Yugoslavia all increased their market penetration, by 0.1 percentage point, 0.6 percentage points, 0.4 percentage points, 6.4 percentage points, and 0.3 percentage points, respectively. Imports from all other countries increased their share of the U.S. market from 1.1 to 3.3 percent, and the U.S. producers' share decreased from 71.7 percent to 62.3 percent during 1983-86.

In terms of the total value of U.S. consumption of complete tapered roller bearings, the U.S. producers' market share decreased from 87.0 percent to 80.5 percent from 1983 to 1986. Producers' market share declined further to 80.3 percent during January-March 1987, as compared with 81.4 percent during the corresponding period of 1986. The largest increase in the share of total value of the U.S. market was exhibited by imports of all Japanese tapered roller bearings, which increased from 9.8 percent in 1983 to 14.6 percent in 1986, but fell from 14.8 percent in January-March 1986 to 13.8 percent in January-March 1987. (Data on the market shares of only the LTFV imports from China and Japan are presented in table 26). Increases in imports from the other four countries subject to investigation accounted for a 0.1 percent gain in market share for these countries from 1983 to 1986 and a 0.5 percent gain in market share from January-March 1986 to the corresponding period in 1987.

Table 25
Tapered roller bearings: Market shares of U.S. producers and imports, by sources, 1983—86, January—March 1986, and January—March 1987 1/

(In percent)							
					January-March-		
Item	1983	1984	1985	1986	1986	1987	
TRB sets (1,000 units):							
U.S. producers	72.0	46.9	43.3	35.6	39.5	39.0	
Hungary	72.0	0.2	0.3	3.3	39.5	0.3	
Italy	0.3	0.7	5.0	5.9	2.4	0.8	
Japan	16.3	31.8	37.7	29.1	39.2	24.5	
China	2.3	7.1	2.3	1.5	1.3	4.9	
		0.3	1.9	5.3	4.7	9.9	
Hong Kong	<u>2</u> / 1.5	0.3	1.9	0.7	1.4		
		0.1	1.9	0.7	1.4	<u>2</u> /	
Yugoslavia	0.5			10 6	11 4	20 E	
	6.9	12.1 100.0	7.5	18.6 100.0	11.4	20.5	
Total	100.0	100.0	100.0	100.0	100.0	100.0	
TRB cone assemblies							
(1,000 units):	70.2	6E E	66 0	6E 0	64.0	62 2	
U.S. producers	70.2 0.9	65.5 0.8	66.9	65.9 1.3	64.0 1.9	62.3	
Hungary			1.0	-	1.7	1.1	
Italy	<u>2/</u>	0.1	26 1	<u>2</u> / 28.6	20.7	20 6	
Japan China	25.0 0.3	29.3	26.1	۷0.0	30.7	29.6	
		1 5		2 2	0.6	A 1	
Romania	2.9	1.5	3.1	2.2	0.6	4.1	
Yugoslavia	0.3	1.1	0.9	0.7	0.7	1.8	
All other sources	0.5	1.6	1.9	1.3	2.1	1.1	
Total	100.0	100.0	100.0	100.0	100.0	100.0	
TRB cups (1,000 units):	70.0	65.0		<b>.</b>		55.0	
U.S. producers	73.2	65.3	67.7	63.1	66.4	55.0	
Hungary	0.9	0.9	1.0	1.2	1.9	1.0	
Italy	2/	0.1		_	-	25.0	
Japan	21.4	28.5	23.5	30.1	26.7	35.2	
China	0.3		2/	_	_	_	
Romania	2.8	1.6	3.4	2.2	0.6	4.4	
Yugoslavia	0.4	1.1	0.8	0.7	0.6	1.7	
All other sources	1.0	2.6	3.6	2.7	3.8	2.7	
Total	100.0	100.0	100.0	100.0	100.0	100.0	
Total (1,000 units):							
U.S. producers	71.7	64.2	65.6	62.3	63.4	56.7	
Hungary	0.8	0.8	1.0	1.4	1.8	1.0	
Italy	2/	0.1	0.4	0.4	0.2	0.1	
Japan	22.9	29.1	25.7	29.3	29.3	31.8	
China	0.4	0.5	0.2	0.1	0.1	0.4	
Hong Kong	<u>2</u> /	2/	0.1	0.4	0.3	0.9	
Romania	2.8	1.4	3.1	2.1	0.6	3.9	
Yugoslavia	0.3	1.1	0.8	0.6	0.6	1.6	
All other sources	1.1	2.8	3.1	3.3	3.6	3.6	
Total	100.0	100.0	100.0	100.0	100.0	100.0	

See footnotes at end of table.

Table 25
Tapered roller bearings: Market shares of U.S. producers and imports, by sources, 1983-86, January-March 1986, and January-March 1987  $\underline{1}/$ ---Continued

(In percent) January-March							
Item	1983	1984	1985	1986	1986	1987	
Total (\$1,000):							
U.S. producers	87.0	82.5	81.8	80.5	81.4	80.3	
Hungary	0.3	0.2	0.2	0.4	0.5	0.2	
Italy	0.1	0.1	0.1	0.3	0.1	0.1	
Japan	9.8	14.0	14.0	14.6	14.8	13.8	
China	0.1	0.1	0.1	0.1	2/	0.2	
Hong Kong	2/	2/	0.1	0.2	0.2	0.2	
Romania	0.7	0.4	0.9	0.5	0.2	0.8	
Yugoslavia	0.1	0.3	0.2	0.1	0.1	0.3	
All other sources	1.9	2.4	2.6	3.4	2.6	4.0	
Total	100.0	100.0	100.0	100.0	100.0	100.0	

^{1/} Finished tapered roller bearings only.

Note: Because of rounding, figures may not add to totals shown.

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission and from official statistics of the U.S. Department of Commerce.

#### Cumulative effects of imports under investigation

The Trade and Tariff Act of 1984, at section 612(a)(2)(A), amends title VII of the Tariff Act of 1930 by adding a new subsection that establishes—

Cumulation—for the purposes of clauses (i) and (ii), the Commission shall cumulatively assess the volume and effect of imports from two or more countries of like products subject to investigation if such imports compete with each other and with like products of the domestic industry in the United States Market.

The Conference Report accompanying the Act notes that—

The provision requires cumulation of imports from various countries that each account individually for a small percentage of total market penetration but when combined may cause material injury. The conferees do intend, however, that the marketing of imports of accumulated [sic] be reasonably coincident. Of course, imports of like products from countries not subject to investigation would not be included in the cumulation. 1/

^{2/} Less than 0.05 percent.

^{1/} H.R. Report No. 98-1156, 98th Cong., 2d sess., reprinted in 131 Congressional Record 11531, 11578, Oct. 5, 1984.

Table 26
Tapered roller bearings: Apparent U.S. consumption, LTFV imports, and market shares of LTFV imports, 1983-86, January-March 1986, and January-March 1987

					JanMar	
Item	1983	1984	1985	1986	1986	1987
Apparent U.S. consumption	065 470	207 547	070 017	060 500	60 F61	66 067
1,000 units	265,470	327,547	278,917	263,599	69,561	66,067
Quantity of LTFV imports						
1,000 units:		0.655	0 667		1 050	
Hungary	2,217	2,655	2,667	3,754	1,250	641
Italy	48	408	983	1,140	115	50
China and Hong Kong $\underline{1}/\ldots$	937	1,249	465	1,042	228	809
Romania	7,349	4,698	8,835	5,555	447	2,563
Yugoslavia	921	3,477	2,231	1,655	411	1,060
Subtotal	11,472	12,487	15,181	13,146	2,451	5,123
Japan <u>2</u> /	×××	***	×××	***	***	***
Japan <u>3</u> /	XXX	XXX	×××	XXX	×××	XXX
Total <u>2</u> /	×××	×××	×××	×××	×××	×××
Total <u>3</u> /	×××	×××	×××	×××	***	XXX
Market share of imports,						
by quantity (percent):						
Hungary	0.8	0.8	1.0	1.4	1.8	1.0
Italy	4/	. 1	. 4	. 4	. 2	. 1
China and Hong Kong $1/\ldots$	. 4	. 4	. 2	. 4	. 3	1.2
Romania	2.8	1.4	3.2	2.1	. 6	3.9
Yugoslavia	. 3	1.1	. 8	. 6	. 6	1.6
Subtotal	4.3	3.8	5.4	5.0	3.5	7.8
Japan <u>2</u> /	×××	×××	×××	×××	×××	×××
Japan <u>3</u> /	×××	×××	×××	×××	×××	×××
Total <u>2</u> /	×××	×××	×××	×××	×××	×××
Total <u>3</u> /	×××	×××	×××	×××	XXX	XXX
Apparent U.S. consumption		•				
1,000 dollars	703,965	895,454	792,913	705,260	204,455	175,096
Value of imports				•		
(1,000 dollars):		•				
Hungary	1,801	1,856	1,925	2,909	1,060	387
Italy	360	744	898	1,924	291	121
China and Hong Kong $1/\ldots$	794	951	736	1,339	325	728
Romania	4,702	3,142	7,380	3,537	437	1,419
Yugoslavia	781	2,419	1,341	932	303	536
Subtotal	8,438	9,112	12,280	10,641	2,416	3,191
Japan <u>2</u> /	×××	×××	×××	×××	×××	×××
	×××	×××	×××	XXX	×××	XXX
Total 2/	×××	×××	×××	×××	×××	×××
10tal <u>2</u> /						

See footnotes at end of table.

Table 26
Tapered roller bearings: Apparent U.S. consumption, LTFV imports, and market shares of LTFV imports, 1983-86, January-March 1986, and January-March 1987—Cont.

					Jan.⊸Ma	ar
Item	1983	1984	1985	1986	1986	1987
Market share of imports, by value (percent):						•
Hungary	0.3	0.2	0.2	0.4	0.5	0.2
Italy	. 1	. 1	. 1	. 3	. 1	. 1
China and Hong Kong $1/\ldots$	. 1	. 1	. 1	. 2	. 2	. 4
Romania	.7	. 4	.9	۰,5	. 2	. 8
Yugoslavia	. 1	. 3	. 2	. 1	. 1	. 3
Subtotal	1.2	1.0	1.5	1.5	1.2	1.8
Japan <u>2</u> /	×××	×××	* <b>**</b>	×××	×××	×××
Japan <u>3</u> /	×××	×××	×××	×××	×××	XXX
Total 2/	XXX	×××	×××	×××	×××	×××
Total 3/	×××	×××	×××	×××	×××	XXX
Imports of finished and						
unfinished parts from						
Japan, Romania, and		•				
China: 5/						
Value1,000 dollars	×××	×××	×××	×××	<u>6</u> /	<u>6</u> /
As a ratio to U.S. consumptionpercent	×××	×××	×××	×××	<u>6</u> /	<u>6</u> /

^{1/} Data presented are official statistics (of the Department of Commerce) for imports of tapered roller bearings from Hong Kong, and official statistics for imports of these products from China less reported totals (from questionnaires and telephone conversations) for those products imported directly from the China National Machinery & Equipment Import & Export Corporation (CMEC). (In its final determination, Commerce excluded such direct exports from CMEC from the scope of its finding). ***

Source: Imports from official statistics of the U.S. Department of Commerce, except where noted; apparent U.S. consumption from table 6.

<u>2</u>/ Includes tapered roller bearings over 4 inches in outside diameter plus tapered roller bearings O-4 inches in outside diameter that were exported to the United States by NTN Toyo. Data from Commission questionnaires.

³/ Data from Commission questionnaires include only tapered roller bearings over 4 inches in outside diameter.

^{4/} Less than 0.05 percent.

^{5/} As reported in Commission questionnaires.

^{6/} This information is not available.

Imports and market shares of LTFV merchandise.—The cumulative quantity and value of the LTFV imports subject to investigation are presented in table 26 with regard to import levels and market penetration. From 1983 to 1986, the U.S. producers' share of the tapered roller bearing market declined 9.4 points by quantity and 6.5 points by value (table 25). During the same period, the share of the market accounted for by LTFV imports from Hungary, Italy, China and Hong Kong, Romania, Yugoslavia, and Japan increased by *** percentage points by quantity (from *** percent to *** percent) and increased by *** percentage points by value (from *** percent to *** percent).

On the basis of quantity, LTFV imports from Hungary, Italy, and Yugoslavia, together, had an increased market share of 1.3 percentage points, whereas imports from Romania experienced a decline from 2.8 percent to 2.1 percent and the market share of imports from China and Hong Kong and Japan were essentially the same in 1986 as they had been in 1983. On the basis of value, however, the market share accounted for by imports from Hungary, Italy, China, Romania, and Yugoslavia, together, increased by only 0.3 percentage points (from 1.2 percent in 1983 to 1.5 percent in 1986), whereas imports from Japan increased by *** percentage points (from *** percent to *** percent).

Quality considerations.—The argument has been made by counsel for the importers and producers of tapered roller bearings manufactured in Hungary, China, Romania, and Yugoslavia that these bearings are of a sufficiently inferior quality to the American, Japanese, and Italian bearings that they do not compete with these higher quality bearings. As evidence for noncompetition, counsel cite (1) that bearings from these countries are confined to the low end of the tapered roller bearing market, and (2) that since price differentials between the imported bearings and the U.S. products exceed the dumping margins calculated by Commerce, this is an indicator of separate, noncompetitive price systems.

The general "quality profile" for tapered roller bearings from all four of these countries is as follows: the bearings are made from carbon steel, are through hardened rather than case hardened (a few Romanian bearings are case hardened), have lower tolerances and fatigue life, and have geometries that are less precise than their American, Japanese, or Italian counterparts. In addition, these bearings may or may not have finely honed and crowned rollers, and dimensions for any given part number may vary from one shipment to the next. As a consequence of the lower quality of these bearings, the sales of these bearing are restricted to the low-end, less-demanding segments of the tapered roller bearing market. Tapered roller bearings from the Eastern European countries and China used on nondriving axles (utility trailers, mobile homes), conveyors, and in the aftermarket for replacement use are all deemed of adequate quality for the needs of these markets.

Information obtained by the Commission from importer and purchaser questionnaires and from statements by some of the U.S. producers all tend to support this product and market profile of tapered roller bearings from Hungary, China, Romania, and Yugoslavia. As indicated in tables 4 and 5 of this report, imports from these four countries are confined to the nondriving

axle market, conveyor market, and aftermarket.  $\underline{1}/$  About 75 percent of the U.S. shipments of these imports are to the nondriving axle market, and about 85 percent of consumption in that market is accounted for by imports from these four countries.  $\underline{2}/$  U.S. importers of these bearings made extensive comments on product quality and market applications. Their comments are presented below.

* * * * * * *

In spite of the statements that tapered roller bearings are inferior, Timken argues that they are of merchantable quality, are produced to AFBMA standards, and consequently compete with all other tapered roller bearings, regardless of quality or country of origin. In addition, Timken's own engineering evaluations indicate that these bearings are of comparable quality to the U.S. product. Appendix D provides these engineering summaries. ***, however, told Commission staff that ***.

The importers/producers of the East European and Chinese bearings argue that the AFBMA standards represent only the minimally acceptable standards for tapered roller bearings sold in the United States, and that the real industry standard for quality is established by Timken. Both Timken and NTN have improved the ratings of their bearings in recent years, and Timken, in one of its product brochures, stated that "all tapered roller bearings do not react similarly under load, although they may look the same even to carrying the same industry—wide part numbers." A copy of Timken's brochure entitled "The Material Difference," which discusses the superior properties of case—carbur—ized steel, is presented in appendix D, as is a page from the company's 1986 annual report on bearing ratings.

Two companies, Marsuda Rogers and ***, provided independent laboratory tests of bearings that they import. Marsuda Rogers also provided copies of letters from companies that *** from Hungary, China, and/or Yugoslavia because of poor quality. Parts of these documents are presented in appendix D, and the laboratory that tested *** summed its general findings as follows: "***."

Responses to the Commission's purchasers questionnaires also reflect quality differences between the East European and Chinese bearings and the bearings manufactured elsewhere. The Commission received questionnaires from 21 purchasers of tapered roller bearings, who purchased nearly \$63 million worth of tapered roller bearings in 1986 from all 6 countries subject to

^{1/} Although Timken disputed the characterization of these markets as "low end" at the Commission's hearing, Hyatt Clark specifically identified them as low end in its letter to the Commission of Sept. 29, 1986, and it is a term that was frequently used in questionnaire response and comments to Commission staff in regard to these physically less demanding applications for tapered roller bearings.

^{2/ &}lt;del>***</del>.

investigation and the United States. General comments on the relative quality of tapered roller bearings manufactured in the countries subject to investigation are as follows:

* * * * * *

Several purchasers reported that the quality of the East European and Chinese bearings was good enough for their particular needs, and one company noted that some of the axles that they produced were designed for only a 2,000 mile life. ****.

The bearing purchasers were asked to rate the imported bearings vis—a—vis the U.S. product for five factors: bearing life, surface finish, precision of grinding, bearing load ratings, and overall quality of bearing performance. With regard to the Chinese bearings, the three purchasers who responded rated the Chinese bearings as inferior on all factors. Two of the three purchasers stated that if the price of the Chinese bearings were the same as the U.S. product, they would not buy the Chinese bearing because of its inferior quality. The third company, ***

Three purchasers responded to the questions about Yugoslavian bearings, and rated these bearings the same as U.S. bearings. One purchaser said their firm would not buy the Yugoslavian bearings if the prices were the same as the U.S. product; the other two said they would still buy the Yugoslavian bearings. One purchaser gave no reason for this choice; the other was ***.

Four purchasers responded to questions about Hungarian bearings—one rated them as inferior overall, two rated them the same, and one rated them as inferior on two factors but the same overall. Two purchasers responded that they would not continue to buy the imported bearings if their prices were the same as the U.S. product, and two said they would because of  $\frac{***}{*}$  problems with U.S. producers.

Finally, six purchasers responded to questions about Romanian tapered roller bearings. Three rated them of the same quality as U.S. bearings, one responded that the company ***, and two rated Romanian bearings as inferior overall when compared to U.S. bearings. Five of the six purchasers said they would not buy Romanian bearings if their prices were the same as U.S. bearings, but only one cited quality considerations as a reason. ****.

* * * * * *

In sum, based on information gathered by Commission staff, tapered roller bearings from Hungary, China, Romania, and Yugoslavia are not "qualified" or certified by the major high-stress, critical-load OEM industries because of inferior quality. Consequently, the sales of these bearings are confined to markets with less demanding applications. Purchasers in these markets and importers of these bearings have provided detailed information on the quality differences between these bearings. Although some purchasers rated the

quality of bearings from Hungary, Romania, and Yugoslavia "the same" as U.S.—produced bearings, other purchasers' experiences and laboratory tests indicate that these bearings are not of the same quality as U.S.—produced or Japanese and Italian bearings. 1/

In addition, there are distinct differences in services provided by the U.S. producers and the importers of Japanese bearings and the importers/distributors of bearings from Hungary, China, Romania, and Yugoslavia. As indicated in their questionnaire responses, all the U.S. producers of tapered roller bearings except *** and the importers of Japanese bearings routinely offer engineering and other technical assistance for bearing product design, causes of bearing failure, installation, and application design. Some of these companies also offer toll-free hotlines, field service engineering assistance, and technical seminars. Samples from Timken's brochures on its product services are provided in appendix D.

On the other hand, the importers and distributors of the East European bearings and Chinese bearings offer no special customer services and have no engineering or design staff. *** did say it would send bearings to an outside laboratory for testing if requested.

# Critical circumstances

"Critical circumstances" were alleged by the petitioner and found by the Department of Commerce with respect to imports of tapered roller bearings from Italy. The petition was filed on August 25, 1986, and on February 6, 1987, the Department of Commerce published a preliminary determination of sales at less than fair value. The Department of Commerce determined that "critical circumstances" exist in this case because "using volume figures, based on currently available information, we found that imports of the class or kind of merchandise subject to the investigation have been massive." (52 F.R. 24198, June 29, 1987).

For the 5-month period between the date of filing of the petition and Commerce's preliminary finding of LTFV, U.S. tapered roller bearing imports from Italy were 6.1 percent higher (by quantity) compared with imports during the 5-month period preceding the date of filing of the petition. However, imports from September 1986 to January 1987 were 117.3 percent higher when compared with those imports during September 1985 to January 1986 (imports from September 1985 to January 1986 were 37.4 percent lower compared with those imports during April-August 1985.) Imports of Italian tapered roller bearings rose by 16.0 percent from 1985 to 1986. The following tabulation presents the volume of imports from Italy for the indicated time periods:

^{1/} There are several possible explanations for purchaser responses that Hungarian, Romanian, and Yugoslavian bearings are of the same quality as U.S. bearings: (1) they are indeed of the same quality, (2) they are simply perceived as being of the same quality, or (3) the responses indicate that both the imported and domestic bearings are of sufficient quality to be reliable for the particular needs of the purchaser.

Volume of imports	AprAug. 1985	Sept. 1985— Jan. 1986	AprAug. 1986	Sept. 1986- <u>Jan. 1987</u>
Finished tapered roller bearings:				
1,000 units	396	248	508	539
Parts1,000 pounds	22	24	31	55

Monthly imports from Italy of finished tapered roller bearings and parts thereof for 1986 and January—March 1987 are shown in the following tabulation:

	Finished tapered roller bearings 1,000 units	Tapered roller bearing parts 1,000 pounds
1986:		
January	3	0
February	3	1
March	108	4
April	28	0
May	71	0
June	85	4
July	81	16
August	243	11
September	109	28
October	96	14
November	242	4
December	69	7
1987:		
January	22	4
February	26	1
March	2	1

# Prices

Tapered roller bearings are sold f.o.b. U.S. point of shipment. Tapered roller bearings are priced on a per unit basis, using established standardized part numbers. Importers and U.S. producers offer similar warranties, i.e., replacement of failed bearings up to one year from the date of purchase. Both U.S. producers and importers offer similar standard credit terms, which differ depending on whether the customer is an original equipment manufacturer (OEM)

or a distributor. Both importers and U.S. producers also offer special promotions to distributors—such as prepaid freight on high-volume orders, although inland freight costs are usually not a significant portion of the delivered price, generally less than 2 percent.

While Japanese and Italian tapered roller bearings are considered to be comparable in quality to the domestic product, the primary difference between imports from Yugoslavia and the domestic product is quality and product line. An importer of Yugoslavian tapered roller bearings contends that its product is markedly inferior to that of the domestic producers, and thus is priced below the domestic product in the market place. This importer further claims that because of its inferior quality, the product does not compete directly with the domestic product. 1/ The Yugoslavian bearings are offered in a far smaller range of products than the domestic producers and no technical assistance is available. Because purchasers prefer full-line suppliers, offering a small product line limits the demand for imports and may contribute toward lowering the price which imported tapered roller bearings command in the U.S. market. Similarly, offering no technical services may lower the total cost of the bearing.

The Commission requested U.S. producers and importers of the Italian, Japanese, and Yugoslavian products to provide supplemental quarterly price data on their largest sales of six specified products to both OEM's and distributors for the period January—March 1987. Products 1, 2, 3 and 6 are under 4 inches in outside diameter and are, therefore, subject to this investigation for Japanese imports only from NTN Toyo. The six product specifications are as follows:

<u>PRODUCT 1</u>: LM11949/10 sets (TS single-row, straight 0.750-inch bore cone and TS single-row cup, 1.7810 inches in outside diameter.

PRODUCT 2: LM11949 cone assemblies (TS single-row, straight 0.750 inch bore).

PRODUCT 3: 25580 cone assemblies (TS single-row, straight 1.750 inch bore).

PRODUCT 4: HM212049 cone assemblies (TS single-row, straight 2.625 inch bore).

PRODUCT 5: HM212010 cups (TS single-row cup, 4.8125 inches in outside diameter).

PRODUCT 6: LM67010 cups (TS single-row cup, 2.328 inches in outside diameter).

^{1/} Counsel for an importer of Yugoslavian bearings states that the life expectancy for Yugoslavian bearings is well below that of the petitioner's bearings ***. This argument is consistent with that presented for imports from Hungary, China, and Romania.

Six U.S. producers accounting for *** percent of U.S. shipments in 1986 provided price data. Two importers accounting for *** percent of tapered roller bearing imports from Japan in 1986 reported import price data. One importer accounting for *** percent of 1986 imports of tapered roller bearings from Yugoslavia reported price data. SKF, the sole importer providing price data on imports from Italy, accounted for all imports from Italy in 1986.

Fourteen purchasers of tapered roller bearings provided price data on their purchases of U.S.-produced, Hungarian, Italian, Japanese, Chinese, or Romanian bearings. 1/ In 1986, the 14 purchasers' combined purchases of tapered roller bearings accounted for *** percent of U.S. producers' shipments, *** percent of shipments of imported Hungarian tapered roller bearings, *** percent of shipments of imported Italian tapered roller bearings, *** percent of shipments of imported Japanese tapered roller bearings, and *** percent of shipments of imported Romanian tapered roller bearings. Purchasers provided some price data for Chinese tapered roller bearings, but could not estimate total purchases. No price data for Yugoslavian tapered roller bearings were reported by purchasers.

<u>Price trends.</u>—Quarterly prices reported by U.S. producers and importers generally decreased over the period January 1984 to March 1987 (tables 27 through 31). Producer prices decreased for 7 of the 10 price series for which comparable import data were available. Price declines for these seven series ranged from 1 percent to 41 percent. Producer prices for two of the remaining three series increased by 4 percent and 9 percent, while the third series ended the period at the same price at which it started. Price increases were not confined to any general product category or type of sale.

^{1/} Purchaser price data for Hungary, Romania, and the People's Republic of China are not included in this report. This information is available in U.S. International Trade Commission Publication No. 1983.

Table 27
Tapered roller bearings: Weighted—average prices for sales of LM11949/10 sets (1.781—inch outside diameter) 1/, to OEM's and distributors, as reported by U.S. producers and importers, by quarters, January 1984—March 1987

	1984				1985			·	1986				1987
	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan
try	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.
		,			Sal	les to O	EM's					•	
ed		·····											
ates	×××	×××	***	***	***	***	***	***	×××	***	***	***	×××
<b>)</b>		_			-		_	×××	×××	***		_	_
n	***	***	_		×××	***	-		-	***	×××	_	_
Blavia	***	***	×××	***	×××	***	***	×××	***	***	×××	***	
				:	Sales to	distrib	utors						
ed						•							
ates	×××	***	***	***	×××	***	×××	×××	×××	***	***	***	×××
n	***	***	XXX	***	XXX	***	***	***	***	***	***	***	***
slavia	***	***	***	***	***	***	***	***	***	***	***	***	***

^{1/} LM11949/10 is a TRB set consisting of a TS single-row, straight 0.750-inch bore cone and a TS single-row cup, 1.781-inch outside diameter.

Table 28
Tapered roller bearings: Weighted-average prices for sales of LM11949 cone assemblies  $\underline{1}$ / to OEM's and distributors, as reported by U.S. producers and importers, in dollars per bearing, by quarters, January 1984-March 1987

	1984				1985				1986				1987
	Jan.−	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan
Country	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.
			•		Sal	les to Ol	EM's						
<b>United</b>		····		***************************************				·····			·····		
States	***	***	×××	×××	***	***	***	***	×××	***	***	***	***
ʻugoslavia	***	×××	×××	XXX	***	***	***	×××	***	×××	***	***	-
Japan	×××	***	***	***	***	***	***	×××	×××	×××	***	***	***
Italy					***	***	***	×××	***	***	***	×××	***
					Sales to	diatnih	.tono						
United					Sares fo	01811-100	I LOI 8		<del></del>	·········		·-,	
States	×××	***	×××	***	***	×××	***	×××	***	***	***	×××	***
taly	_	_		_	_	_		***	×××	***	***	***	***
Japan	***	***	***	***	***	***	***	***	***	***	***	***	
ugoslavia	×××	***	***	X-X-X	***	***	***	<del>XXX</del>	***	***	***	***	

 $[\]underline{1}$ / LM11949 is a TS single-row cone assembly, straight 0.750 inch bore; the matching cup is under 4 inches in outside diameter.

Table 29
Tapered roller bearings: Weighted-average prices for sales of HM212049 cone assemblies 1/ to 0EM's and distributors, as reported by U.S. producers and importers, in dollars per bearing, by quarters, January 1984-March 1987

	1984				1985				1986				1987
	Jan	Apr	Jul	0ct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	0ct	Jan
Country	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.
					Sa	les to O	EM's						
Jnited	***************************************	······································	·····	***************************************									
States	***	***	***	***	***	***	***	***	***	×××	×××	***	***
Japan	***	×××	***	***	***	×××	***	***	×××	×××	***	***	***
					Sales to	distrib	itors						
Jnited													····
States	***	×××	×××	***	×××	***	***	***	***	***	***	***	***
Japan	***	***	***	***	×××	***	XXX	×××	XXX	***	***	***	***

 $\underline{1}$ /  $\underline{1}$ /  $\underline{1}$ /  $\underline{1}$ /  $\underline{1}$  and  $\underline{1}$  is  $\underline{1}$ .

Source: Compiled from data submitted in response to questionnaires from the U.S. International Trade Commission.

Table 30
Tapered roller bearings: Weighted-average prices for sales of HM212010 cups (4.8125-inch outside diameter) 1/2, to OEM's and distributors, as reported by U.S. producers and importers, by quarters, January 1984-March 1987

	1984				1985				1986				1987
	Jan	Apr	Jul	Oct	Jan	Apr	Jul	0ct	Jan	Apr	Jul	Oct	Jan
Country	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.
					Sa:	les to O	M's						
United													
States	***	***	***	***	***	***	***	***	***	***	***	***	***
Japan	×××	×××	×××	×××	×××	×××	XXX	×××	×××	***	***	***	***
					Sales to	diatrib	ı tannı						
United				<u>-</u>	MIES IO	GTO EL TOI	11013		<del></del>	<del></del>			
States	***	***	***	***	***	***	***	***	***	***	***	***	***
Japan	XXX	***	***	<b>X-X-X</b>	***	***	***	***	***	***	***	X <del>XX</del>	***

1/ HM212010 is a TS single-row cup, 4.8125 inches in outside diameter.

Table 31

Tapered roller bearings: Weighted—average prices for sales of LM67010 cups 1/ to OEM's and distributors, as reported by U.S. producers and importers, in dollars per bearing, by quarters, January 1984—March 1987

1984				1985				1986				1987
Jan	Apr	Jul	0ct	Jan	Apr.—	Jul	0ct	Jan	Apr	Jul	Oct	Jan.
Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.
				Sa	les to 0	EM's						
	,											
***	***	*** .	***	***	***	×××	***	×××	***	***	***	×××
<del>xxx</del>	***	***	***	***	***	***	***	×××	***	***	<del>XXX</del>	***
a ***	***	***	***	***	×××	***	×××	***	<del>***</del>	***	***	
			9	Sales to	distrib	utors						
***************************************	·-······	······································	<del></del>		*****		<del> </del>		·····			
***	×××	×××	×××	×××	***	×××	***	***	***	***	***	***
<del>xxx</del>	***	***	×××	***	×××	_	_	×××	***	***		_
ia ***	***	***	***	***	×××	***	***	***	***	***	***	***

 $[\]underline{1}$ / LM67010 is TS single-row cup, 2.328 inches in outside diameter.

Import prices also generally decreased over the period January 1984 to March 1987. Six of the 10 relatively complete series of prices reported by importers of Japanese tapered roller bearings fell by between 7 percent and 40 percent. The remaining four import price series for Japanese products increased by between 2 percent and 91 percent. Prices declined for 5 of the 6 Yugoslavian price series for which data were received, falling by between 6 percent and 33 percent, while prices increased in the sixth series by 5 percent. Italian prices were received for only three of the products for which data were requested, and none of these series were complete. Of the products for which prices were collected prices fell for two of the products by 13 percent and 34 percent, and almost doubled for the third product.

The 10 relatively complete purchaser price series for U.S.-produced tapered roller bearings all decreased by amounts ranging from 3 percent to 49 percent over the period January 1984 to December 1986 (tables 32 through 37). Prices reported by domestic purchasers of tapered roller bearings showed price increases for some imported Japanese bearings. Of the seven relatively complete price series for Japanese bearings, one increased by 2 percent and one increased by 5 percent, one remained unchanged over most of the period, and four decreased by 9 to 28 percent. The single complete purchaser price series for Italian tapered roller bearings was unchanged from January 1984 to December 1986. No purchaser prices were received for Yugoslavian bearings.

The general decline in prices between 1984 and 1986 is partly attributable to the decrease in demand for tapered roller bearings in the U.S. industrial and automotive sectors. Decreased U.S. production of industrial products such as farm machinery and oil and gas drilling equipment between 1984 and 1986 resulted in direct decreases in demand for tapered roller bearings and reduced market prices. In the automotive sector, lighter passenger cars have allowed automobile producers to substitute some ball bearings for tapered roller bearings, resulting in a decrease in demand for tapered roller bearings and further downward pressure on prices.

Table 32

Tapered roller bearings: Weighted—average prices for purchasers of LM11949/10 sets 1/ by OEM's and distributors, as reported by U.S. purchasers, dollars per bearing, by quarters, January 1984—December 1986

	1984				1985				1986			
	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct
untry	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.
						Sales 1	to OEM's					
ited												
States	***	***	***	***	***	***	***	***	***	***	***	***
aly	_		_			_		-	***	***	***	×××
pan	***	***	***	***	×××	×××	***	×××	***	***	***	***
					ç	Sales to	distribu	utors				,
ited	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								-			
States	***	***	***	***	***	***	***	×××	×××	***	***	×××
pan	***	***	***	***	***	***	***	***	***	***	***	***

^{1/} LM11949/10 is a TRB set consisting of a TS single-row, straight 0.750-inch bore cone and a TS single-row cup, 1.781-inch outside diameter.

Table 33
Tapered roller bearings: Weighted-average prices for purchases of LM11949 cone assemblies 1/ by OEM's and distributors, as reported by U.S. purchasers, by quarters, January 1984-December 1986

	1984				1985				1986			
	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct
Country	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.
				1	Purchase:	B by OEM	¹ s					
Inited			·			······································				·····		
States	×××	***	***	***	×××	*** .	×××	***	***	***	***	-
[taly		······································			<b></b>	<u></u>			×××	×××	***	***
				Purcl	nases by	distrib	utors					
Inited				······································		······································				·····		
States	***	***	×××	***	***	***	***	***	***	***	***	_
taly	***	***	***	***	***	***	***	***	***	***	***	***
Japan	***	***	***		_	-		***		_	***	-

 $[\]underline{1}$ / LM11949 is a TS single-row cone assembly, straight 0.750 inch bore; the matching cup is under 4 inches in outside diameter.

Table 34

Tapered roller bearings: Weighted-average prices for purchases of 22580 cone assemblies  $\underline{1}$ / by OEM's and distributors, as reported by U.S. purchasers, by quarters, January 1984-December 1986

	1984				1985				1986			
	Jan	Apr	Jul	0ct	Jan	Apr	Jul	0ct	Jan	Apr	Jul	Oct
Country	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.
				Purcha	ses by d	istribut	ors					
United												
States	***	***	***	***	***	***	***	***	***	***	***	***
Japan	***	_	_	<b>-</b> -				***	_	_	***	***

 $[\]underline{1}$ / 25580 is a cone assembly, TS single-row, straight 1.750-inch bore; the matching cup is under 4 inches in outside diameter.

Table 35
Tapered roller bearings: Weighted-average prices for purchases of HM212049 cone assemblies 1/ by 0EM's and distributors, as reported by U.S. purchasers, by quarters, January 1984-December 1986

	1984		***************************************		1985				1986			
	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct
Country	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.
				1	Purchases	s by OEM	's					
United												
States	***	***	***	***	***	×××	***	***	×××	***	***	×××
Japan	***		×××		***	XXX	***	×××	***	×××	***	***
				Purci	hases by	distrib	utors					
United		***										
States	***	XXX	***	***	***	***	***	***	***	***	***	×××
Japan	***	×××	***	***	***	***	***	***	***	***	***	_

^{1/} HM212049 is TS single-row cone assembly, straight 2.625-inch bore; the matching cup is over 4 inches in outside diameter.

Table 36 Tapered roller bearings: Weighted-average prices for purchases of HM212010 cups  $\underline{1}$ / by OEM's and distributors, as reported by U.S. purchasers, by quarters, January 1984-December 1986

	1984				1985				1986			
	Jan	Apr	Jul	Oct	Jan.−	Apr	Jul	Oct	Jan	Apr	Jul	Oct
Country	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.
					Purchase	s by OEM	<b>'</b> s					
Inited												
States	***	-	-	<u></u> '	***	_	_	_	***	_	-	
Japan	***	-	_	-	***			<del></del>	×××			
				Purcl	hases by	distrib	utors					
Inited												.•
States	***	***	***	×××	***	***	***	***	***	***	***	***
Japan	***	***	***	***	_	***	_	-	***	×××	***	***

1/ HM212010 is a TS single-row cup, 4.8125 inches in outside diameter.

Source: Compiled from data submitted in response to questionnaires from the U.S. International Trade Commission.

Table 37
Tapered roller bearings: Weighted-average prices for purchases of LM67010 cups  $\underline{1}$ / by OEM's and distributors, as reported by U.S. purchasers, by quarters, January 1984-December 1986

	1984				1985				1986		**	
•	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct
Country	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Dec.
				,	Dumahaaa	- L. OEM						
					Purchase	S DY UEM	8					
United						•	. :					
States	***	-		-	***	-	****	***	***	***	-	***
Japan	***	***	***	×××	***	***	***	***	***	×××	***	***
				Purci	hases by	distrib	utors	•				
United	<del>*************************************</del>		!'''''.				****					
States	***	***	***	***	***	**X	***	***	***	***	***	×××
Japan	***	_		_		***	***	***	***	×××	***	***

 $\underline{1}$ / LM67010 is TS single-row cup, 2.328 inches in outside diameter.

<u>Price comparisons</u>.—Prices reported by importers of the subject tapered roller bearings were almost all lower than prices reported by U.S. producers for the U.S. product (tables 38 through 42). Seventeen of the 18 price comparisons for imported Italian tapered roller bearings showed the imported product selling from 57 percent to 2 percent less than the U.S. product. The remaining comparison for Italian bearings showed the import price to be 24 percent higher than the U.S. product price.

Price comparisons between imported Japanese tapered roller bearings and U.S. bearings are available in 118 instances. Of these, 104 show the Japanese bearings selling at prices 48 percent to 4 percent lower than the U.S. product, 13 show the Japanese bearings selling at prices 45 percent to 6 percent higher than the U.S. product, and the remaining comparison shows them selling at the same price.

Price comparisons for the Yugoslavian tapered roller bearings showed the imported product selling below the price of the domestic product in all but one instance, with margins ranging from 59 percent to 3 percent below the domestic product. Prices were equal in the remaining comparison.

Similar to price comparisons based on data submitted by U.S. producers and importers, price comparisons based on data submitted by domestic purchasers largely show the subject imported tapered roller bearings selling in the U.S. market at prices lower than the domestic product (tables 43-48). Of the 18 price comparisons for Italian bearings, ten show the imported product selling prices at from 15 percent to 1 percent less, seven at prices the same as the domestic product, and one at 3 percent higher than the domestic product price.

Of the 79 price comparisons between Japanese and U.S. bearings, 73 show the imported product selling at prices from 46 percent to 2 percent less than the U.S. product, and 6 show the Japanese product selling from 12 percent to 3 percent higher than the U.S. product.

# Lost sales and lost revenues

* * * * * *

able 38
apered roller bearings: Average margins (per unit) by which imports of LM11949/10 sets (1.7810-inch outside diameter)
indersold or (oversold) the U.S.-produced product, by countries of origin, types of customer, and quarters, January
984-March 1987

	Italy			*-	Japan				Yugosla	via		
			Sales t	0			Sales t	0			Sales to	0
	Sales t	o OEM's	distrib	utors	Sales t	o OEM's	distrib	utors	Sales t	o OEM's	distrib	utors
eriod	Margin	Percent	Margin	Percent	Margin	Percent	Margin	Percent	Margin	Percent	Margin	Percent
.984:			-									
JanMar	_	***	_	•••	***	4.7	**X	36.3	***	37.8	<b>¥</b> ¥¥	52.8
AprJune	_			mh.	x x- <del>x</del>	(16.0)	XXX	27.4	XXX	38.9	***	54.0
July-Sept	·			_		_	XXX	27.4	**X	36.6	***	52.8
OctDec			-		-		XXX	21.0	X <del>XX</del>	37.8	XXX	52.8
985:												
JanMar				<u></u>	***	34.4	***	16.0	**X	45.4	**X	49.3
AprJune				-	XXX	21.9	X- <b>X-X</b>	12.9	<b>X X X</b>	36.0	XXX	49.4
July-Sept	-		_	`_	•••	_	***	21.3	***	41.8	***	51.1
OctDec	XXX	21.7					XXX	24.0	***	41.8	***	52.0
986:							\$ · ·					•
JanMar	***	(23.9)		_	·	***	*xx	21.3	**X	5.3	***	51.1
AprJune	XXX	32.1			*X <del>X</del>	(45.0)	XXX	34'.7	XXX	29.3	XXX	53.3
July-Sept			-		***	(45.0)	***	9.0	***	22.9	***	51.0
OctDec				_			X-X-X	30.0	XXX	20.0	XXX	45.7
<b>?8</b> 7∶												
JanMar			***		-		***	30.0		_	***	50.5

Table 39
Tapered roller bearings: Average margins (per unit) by which imports of LM11949 cone assemblies undersold or (oversold) the U.S.-produced product, by countries of origin, types of customer, and quarters, January 1984-March 1987

	Italy				Japan				Yugosla	via		
			Sales t	0	W-N2-110/110/110		Sales t	0			Sales to	0
•	Sales t	o OEM's	distrib	utors	Sales t	o OEM's	distrit	utors	Sales t	o OEM's	distrib	utors
eriod	Margin	Percent	Margin	Percent	Margin	Percent	Margin	Percent	Margin	Percent	Margin	Percen
.984:												
JanMar					***	16.5	*xx	24.4	*xx	26.6	**X	48.1
AprJune		***		***	XX <del>X</del>	(22.6)	X-X-X	33.1	XX <del>X</del>	32.1	XX <del>X</del>	36.9
July-Sept	***	-			***	20.9	***	19.9	***	37.4	***	50.3
OctDec		-		***	XXX.	9.0	XXX	33.5	<b>Y-X-X</b>	28.0	XXX	51.6
985:												
JanMar	***	31.8	-	-	***	17.3	***	47.9	***	33.6	***	54.4
AprJune	XXX	28.6			XXX	34.3	XXX	47.9	X X-X	30.5	XXX	54.4
July-Sept	***	5.1			***	15.2	***	41.7	***	6.3	***	54.8
OctDec	X-X-X	5.1	XXX	57.1	X-X-X	(7.6)	XXX	47.6	X AX	2.5	XXX	56.0
986 :												
JanMar	***	13.7	**X	1.8	***	5.5	***	18.4	XXX	1/	*XX	56.0
AprJune	×××	21.2	XX <del>X</del>	2.4	XXX	36.2	XX <del>X</del>	14.8	XX <del>X</del>	8.8	XXX	56.2
July-Sept	***	21.2	***	3.6	***	6.2	***	14.8	***	12.5	***	59.2
OctDec	XXX	21.2	XXX	3.6	XXX	16.2	XXX	34.9	XXX	6.3	x x <del>x</del>	55.6
986:												
JanMar	***	39.8	***	13.6	***	36.8	***	18.5	<b>-</b> .			

^{1/} Less than 0.5 percent per unit.

Table 40
Tapered roller bearings: Average margins (per unit) by which imports of HM212049 cone assemblies undersold or (oversold) the U.S.-produced product, by countries of origin, types of customer, and quarters, January 1984—March 1987

	Japan	·		
	Sales to OEM	<b>'</b> S	Sales to dist	tributors
Period	Margin	Percent	Margin	Percent
1984:	;	÷		
JanMar	***	10.0	***	5.1
AprJune	<del>* * *</del>	12.6	<del>X</del> ·X· <del>X</del>	20.6
July-Sept	<del>* * *</del>	15.8	***	21.7
OctDec	XXX	13.9	<del>* * *</del>	8.4
1985:				
JanMar	***	15.5	<del>* * *</del>	(11.8)
AprJune	***	4.1	<del>***</del>	21.5
July-Sept	***	12.7	<del>X x x</del>	18.6
OctDec	<del>x x x</del>	10.0	XXX	17.8
1986:				
JanMar	<del>* * *</del>	8.8	XXX	. 16.1
AprJune	<del>x x x</del>	10.5	***	13.4
July-Sept	<del>*                                    </del>	12.1	XXX	16.3
OctDec	***	18.6	***	23.4
1987:		•		
JanMar	<del>* * *</del>	3.8	***	16.4

Table 41
Tapered roller bearings: Average margins (per unit) by which imports of HM212010 cups (4.8125-inch outside diameter) undersold or (oversold) the U.S.-produced product, by countries of origin, types of customer, and quarters, January 1984-March 1987

	Japan					
	Sales to OEM	¹ S	Sales to distributors			
Period	Margin	Percent	Margin	Percent		
1984:						
JanMar	×××	11.9	×××	39.1		
AprJune	×××	14.8	***	10.2		
July-Sept	***	13.3	***	29.6		
OctDec	XXX	18.1	×××	24.9		
1985:						
JanMar	***	20.4	***	30.2		
AprJune	XXX	18.1	×××	27.2		
July-Sept	***	19.9	<del>X X X</del>	11.8		
OctDec	X <del>XX</del>	20.1	***	10.4		
1986:	•			.'		
JanMar	***	18.9	***	(6.4)		
AprJune	XXX	15.5	×× <del>×</del>	7.5		
July-Sept	***	16.5	***	27.9		
OctDec	X <del>XX</del>	16.4	***	1/		
1987:	•					
JanMar	***	17.4	***	16.3		

^{1/} The price comparison resulted in underselling of less than 0.05 percent.

Table 42
Tapered roller bearings: Average margins (per unit) by which imports of LM67010 cups undersold or (oversold) the U.S.-produced product, by countries of origin, types of customer, and quarters, January 1984—March 1987

	Japan				Yugoslav	ia		
			Sales	to			Sales t	:0
	Sales to	OEM's	distrib	outors	Sales to	OEM's	distrib	utors
Period	Margin	Percent	Margin	Percent	Margin	Percent	Margin	Percent
1984:								
JanMar	<del>X X X</del>	(7.7)	<del>x x x</del>	45.0	XXX	35.4	×××	45.0
AprJune	X-X <del>-X</del>	(7.7)	XXX	40.0	XXX	35.4	XXX	45.0
July-Sept	***	(6.1)	***	24.0	XXX	36.4	***	52.0
OctDec	<del>X X X</del>	(6.1)	XXX	32.0	X-X-X-	27.3	XXX	52.4
1985:								
JanMar	<del>X X X</del>	13.8	XXX	41.3	<del>X</del> XX	35.4	<del>X</del> XX	55.7
AprJune	XXX	19.1	XXX	41.9	XXX	38.2	х <del>хх</del>	56.1
July-Sept	XXX	24.2	XXX	,	***	32.3	XXX	56.2
OctDec	X-X-X-	19.0	XXX		XXX	33,3	<del>XXX</del>	58.1
1986:							•	
JanMar	XXX	29.9	XXX	13.0	XXX	47.8	<del>x x</del> x	54.3
AprJune	X-X- <del>X</del> -	33.9	XXX	(15.4)	X <del>XX</del>	41.9	XXX	58.2
July-Sept	<del>X-X-X</del>	17.7	XXX	(14.1)	XXX	41.9	XXX	54.3
OctDec		35.4	****	-	XXX	43.1	ж <del>ж</del>	52.2
1987:								
JanMar	****				<del>x x x</del>	31.8	<del>x x x</del>	63.0

Table 43
Tapered roller bearings: Average margins (per unit) by which purchases of imports of LM11949/10 sets by purchasers, undersold or (oversold) the U.S.—produced product, by countries of origin, types of customer, and quarters, January 1984—December 1986

	Italy		Japan			
	Sales to	OEM's	Sales to	OEM¹s	Sales to	distributors
Period	Margin	Percent	Margin	Percent	Margin	Percent
1984:						
JanMar	***		<del>x x x</del>	12.0	<del>x x x</del>	21.8
AprJune		****	x-x-x	12.0	жж <del>ж</del>	21.8
July-Sept			* × ×	14.8	XXX	19.3
OctDec	***	****	хх <del>х</del>	16.2	XXX	22.9
1985:						
JanMar			×××	(2.7)	XXX	6.5
AprJune			* * <del>*</del>	1.8	×××	19.3
July-Sept	<b></b>	40 ces	×××	2.7	<del>X</del> :X:X	18.7
OctDec	*	410	XX <del>X</del>	4.5	<del>x x x</del>	17.2
.986:						
JanMar	<del>x x x</del>	1/	***	3.2	XXX	6.7
AprJune	×××	1.1	<del>xxx</del>	4.3	XXX	13.3
July-Sept	<del>x x x</del>	1/	***	3.2	XXX	13.3
OctDec	×××	1.1	XXX	4.3	х <del>х х</del>	(10.7)

^{1/} Less than 0.05 percent.

Table 44
Tapered roller bearings: Average margins (per unit) by which purchases of imports of LM11949 cone assemblies by purchasers undersold or (oversold) the U.S.-produced product, by countries of origin, types of customer, and quarters, January 1984-December 1986

	Italy				Japan		
			Sales to	<del></del>	Sales to		
	Sales to OEM's		distribu	tors	distributors		
<u>Period</u>	Margin	Percent	Margin	Percent	Margin	Percent	
1984:							
JanMar	***	ultus.	×××	10.6	XXX	33.1	
AprJune			XXX	11.2	×××	33.5	
July-Sept	_		***	11.2	XXX	33.5	
OctDec			<del>x</del> xx	11.2			
1985:							
JanMar	<u></u> ·	****	XXX	15.4	<del></del>		
AprJune			XXX	15.4			
July-Sept		***	XXX	13.3			
OctDec		_	XXX	15.4	XXX	46.2	
1986:		•					
JanMar	XXX	1/	XXX	(2.9)			
AprJune	<del>X X X</del>	<u>1</u> / 1/	<del>x x x</del>	1/		· <del></del>	
July-Sept	***	$\frac{1}{1}$	XXX ·	1/	***	39.2	
OctDec	***	1/	XXX	$\frac{1}{1}$			

1/ Less than 0.05 percent.

Table 45
Tapered roller bearings: Average margins (per unit) by which purchases of imports of 25580 cone assemblies by purchasers undersold or (oversold) the U.S.-produced product, by countries of origin, types of customer, and quarters, January 1984—December 1986

	Japan				
	Sales to distributors				
Period	Margin	Percent			
1984:					
JanMar	***	28.8			
AprJune	<b></b> . ,	_			
July-Sept	•••				
OctDec	****	****			
1985:					
JanMar	•••				
AprJune	<del>-</del>				
July-Sept	<del></del> .				
OctDec	×××	29.4			
1986:					
JanMar		_			
AprJune	••••				
July-Sept	***	15.5			
OctDec	×××	15.5			

Table 46
Tapered roller bearings: Average margins (per unit) by which purchases of imports of HM212049 cone assemblies by purchasers undersold or (oversold) the U.S.—produced product, by countries of origin, types of customer, and quarters, January 1984—December 1986

•	Japan		~		
	Sales to OE	M's	Sales to distributor		
Period	Margin	Percent	Margin	Percent	
1984:					
JanMar	×××	(10.4)	***	24.4	
AprJune	****	- <u>-</u>	X <del>X X</del>	24.4	
July-Sept	<del>x x x</del>	5.9	XXX	24.4	
OctDec			XXX	20.7	
1985:					
JanMar	***	8.3	***	28.4	
AprJune	XXX	9.3	XXX	28.4	
July-Sept	***	8.0	***	28.4	
OctDec	ж <del>хх</del>	12.3	<del>x x x</del>	28.4	
1986: ·					
JanMar	<del>xxx</del>	18.4	XXX	15.5	
AprJune	X <del>XX</del>	16.6	X-X-X	11.2	
July-Sept	<del>x x x</del>	18.6	, XXX	9.7	
OctDec	XXX	15.1		-	

Table 47
Tapered roller bearings: Average margins (per unit) by which purchases of imports of HM212010 cups by purchasers undersold or (oversold) the U.S.—produced product, by countries of origin, types of customer, and quarters, January 1984—December 1986

	Japan					
	Sales to OEM'	S	Sales to distributors			
Period	Margin	Percent	<u>Margin</u>	Percent		
1984:						
JanMar	XXX	15.7	* x x	41.0		
AprJune	·		* <del>* *</del>	41.0		
July-Sept	سنت	_	* × ×	38.5		
OctDec			XXX	38.5		
1984:						
JanMar	×××	32.4		-		
AprJune	_	<del></del>	XXX	43.1		
July-Sept				-		
OctDec				Addis		
1984:						
JanMar	<del>X X X</del>	32.4	* * X	11.2		
AprJune		****	×××	13.8		
July-Sept			***	11.9		
OctDec		****	XXX	9.0		

Table 48
Tapered roller bearings: Average margins (per unit) by which purchases of imports of LM67010 cups by purchasers undersold or (oversold) the U.S.-produced product, by countries of origin, types of customer, and quarters, January 1984—December 1986

	Japan							
	Sales to OEM	S	Sales to distributors					
Period	Margin	Percent	Margin	Percent				
1984:								
JanMar	***	25.0	* × ×	33.7				
AprJune		e =		***				
July-Sept	<del></del>	<b></b>	19664					
OctDec		*18	d	****				
1985:								
Jan Mar	***	26.2	••••	*****				
AprJune			X X X	(12.0)				
July-Sept	1774	19947	<del>X</del> X X	2.0				
OctDec	XXX	2.2	***	2.0				
1986:				•				
JanMar	<del>X X X</del>	33.9	<del>X</del> ·X·X·	2.0				
AprJune	X X X	(7.9)	XXX	2.0				
July-Sept	964.1	nu.	<del>X</del>	2.0				
OctDec	ж <del>ж.</del>	(7.9)	XXX	2.0				

# Exchange rates

Quarterly data reported by the International Monetary Fund indicate that during January 1984—March 1987 the nominal value of the Japanese yen and the Italian lira appreciated 50.8 percent and 27.3 percent against the U.S. dollar, while the value of the Yugoslav dinar depreciated sharply by 74.1 percent relative to the dollar (table 49). 1/ In response to somewhat higher levels of inflation in Italy and somewhat lower levels in Japan (compared with those in the United States), changes in the real value of the Italian lira were somewhat higher, and changes in the real value of the Japanese yen were somewhat lower, than respective changes in the nominal values of those currencies.

In contrast, the very high rate of inflation in Yugoslavia relative to that in the United States moderated much of the export price advantage gained through currency depreciation. The value of the Yugoslav dinar adjusted for differences in relative inflation rates decreased during January 1984 through March 1985 and then increased irregularly from April-June 1985 through April-June 1986. By April-June 1986 the real Yugoslav exchange rate had achieved a level that was 17.0 percent above its January-March 1984 level. 2/

^{1/} International Financial Statistics, June 1987.

 $[\]underline{2}/$  The most recent real exchange rate data for the currency of Yugoslavia is for April-June 1986.

Table 49
Exchange rates: 1/ Nominal-exchange-rate equivalents of selected currencies in U.S. dollars, real-exchange-rate equivalents, and producer price indicators in specified countries, 2/ indexed by quarters, January 1984-March 1987

		Italy			Japan			Yugosl	avia	
	U.S.								4	
	Pro-	Pro-	Nominal-	Real-	Pro-	Nominal-	Real-	Pro	Nominal-	Real-
	ducer	ducer	exchange-	exchange	ducer	exchange-	exchange-	ducer	exchange	– exchange
	Price	Price	rate	rate	Price	rate	rate	Price	rate	rate
Period	Index	Index	index	index 3/	Index	index	index 3/	Index	index	index 3/
			US dolla	rs/lira—		US doll	ars/yen		-US dol	lars/dinar
1984:										
JanMar	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100. <b>0</b>	100.0	100.0
AprJune	100.7	102.2	99.2	100.7	99.0	100.6	99.8	102.5	93.5	95.2
July-Sept	100.4	103.5	92.4	<b>9</b> 5.2	100.7	94.9	95.1	121.3	78.5	94.8
OctDec	100.2	105.5	87.9	92.6	100.4	93.9	94.1	138.6	65.2	90.1
1985:										
JanMar	100.0	108.4	82.3	89.1	100.8	89.7	90.4	155.6	53.8	83.7
AprJune	100.1	110.7	84.4	93.3	100.1	92.1	92.1	180.2	47.1°	84.8
July-Sept	99.4	110.7	87.7	<b>9</b> 7.6	99.0	96.8	96.4	203.4	44.2	90.4
OctDec	100.0	111.7	95.0	106.1	96.7	111.6	107.9	234.0	42.1	98.4
1986:										
JanMar	98.5	111.1	104.0	117.3	94.4	123.0	117.8	296.0	39.4	118.3
AprJune	96.6	109.1	108.0	122.0	90.4	135.8	127.1 4/	327.5	34.5 4	/ 117.0
July-Sept	96.2	108.3	115.8	130.3	87.9	148.3	135.6	<u>5</u> /	31.0	5/
OctDec	96.5	109.0	119.6	135.1	86.6	144.1	129.2	5/	29.1	5/
1987:										***
Jan.⊶Mar	97.7	5/	127.3	5/	86.2	150.8	132.9	5/	25.9	<u>5</u> /

^{1/} Exchange rates expressed in U.S. dollars per unit of foreign currency.

Source: International Monetary Fund, International Financial Statistics, June 1987.

Note. -- January-March 1984=100.0.

^{2/} Producer price indicators—intended to measure final product prices—are based on average quarterly index presented in line 63 of the <u>International Financial Statistics</u>.

^{3/} The indexed real exhange rate represents the nominal exchange rate adjusted for the relative economic movement of each currency as measured here by the Producer Price Index in the United States and the respective foreign country. Producer prices in the United States decreased by 2.3 percent during January 1984 though March 1987 compared with a decrease of 13.8 percent in Japan and respective increases in Italy and Yugoslavia of 9.0 percent and 227.5 percent as of April-June and October-December 1986, respectively, the last periods for which the Producer Price Index is reported.

^{4/} Data for the final quarter presented above is derived from Yugoslav Producer Price Index reported for April only.

^{5/} Not available.

# APPENDIX A

FEDERAL REGISTER NOTICES OF THE COMMISSION

[Investigations Nos. 731-TA-341, 342, 344, 345, and 346 (Final)]

Tapered Roller Bearings and Parts Thereof, and Certain Housings, Incorporating Tapered Rollers from Hungary, Italy, The People's Republic of China, Romania, and Yugoslavia

**AGENCY:** International Trade Commission.

ACTION: Institution of final antidumping investigations and scheduling of a hearing to be held in connection with the investigations.

**SUMMARY:** The Commission hereby gives notice of the institution of final antidumping investigations Nos. 731-TA-341, 342, 344, 345, and 346 (Final) under section 735(b) of the Tariff Act of 1930 (19 U.S.C. 1673d(b)) to determine whether an industry in the United States is materially injured, or is threatened with material injury, or the establishment of an industry in the United States is materially retarded, by reason of imports from Hungary (inv. No. 731-TA-341), Italy (inv. No. 731-TA-342), The People's Republic of China (inv. No. 731-TA-344), Romania (inv. No. 731-TA-345), and Yugoslavia (inv. No. 731-TA-348) of tapered roller bearings and parts therefor provided for in Tariff Schedules of the United States (TSUS) items 680.30 and 680.39; flange, take-up, cartridge, and hanger units incorporating tapered roller bearings. provided for in TSUS item 681.10; and tapered roller housings (except pillow blocks) incorporating tapered rollers. with or without spindles, whether or not for automotive use, provided for in item 692.32 or elsewhere in the TSUS, which have been found by the Department of Commerce, in preliminary determinations, to be sold in the United States at less than fair value (LTFV). Unless there investigations are extended, Commerce will make its final LTFV determinations on or before April 18, 1987, and the Commission will make

its final injury determinations by June 5, 1987 (see sections 735(s) and 735(b) of the Act (19 U.S.C. 1673d(a) and 1673d(b))).

For further information concerning the conduct of these investigations, hearing procedures, and rules of general application, consult the Commission's Rules of Practice and Procedure, Part 207, Subparts A and C (19 CFR Part 207), and Part 201, Subparts A through E (19 CFR Part 201).

EFFECTIVE DATE: February 6, 1987.

FOR FURTHER INFORMATION CONTACT:
Maria Papadakis (202-523-0439), Office of Investigations, U.S. International Trade Commission, 701 E Street NW., Washington, DC 20438. Hearing-impaired individuals are advised that information on this matter can be obtained by contacting the Commissions's TDD terminal on 202-724-0002.

#### SUPPLEMENTARY INFORMATION:

# Background

These investigations are being instituted as a result of affirmative preliminary determinations by the Department of Commerce that imports of tapered roller bearings and parts thereof, and certain housings incorporating tapered rollers from Hungary, Italy, the People's Republic of China, Romania, and Yugoslavia are being sold in the United States at less than fair value within the meaning of section 731 of the act (19 U.S.C. 1673). The investigations were requested in a petition filed on August 25, 1986, by the Timken Company, Canton, OH. In response to that petition the Commission conducted preliminary antidumping investigations and, on the basis of information developed during the course of those investigations, determined that there was a reasonable indication that an industry in the United States was materially injured by reason of imports of the subject merchandise (51 FR 38874).1

## Participation in the investigations.

Persons wishing to participate in these investigations as parties must file an entry of appearance with the Secretary to the Commission, as provided in

¹ The petition and the Commission's preliminary affirmative determinations also covered imports of the subject products from Japan. However, the Department of Commerce has determined that the investigation involving Japan is "extraordinarily complicated" and, accordingly, extended the date for its preliminary less-than fair value determination to March 23, 1997. In the event that Commerce's preliminary determination concerning imports from Japan is affirmative, the Commission will institute an investigation at that time.

§ 201.11 of the Commission's rules (19 CFR 201.11), not later than twenty-one (21) days after the publication of this notice in the Federal Register. Any entry of appearance filed after this date will be referred to the Chairman, who will determine whether to accept the late entry for good cause shown by the person desiring to file the entry.

### Service list.

Pursuant to \$ 201.11(d) of the Commission's rules (19 CFR 201.11(d)), the Secretary will prepare a service list containing the names and addresses of all persons, or their representatives. who are parties to these investigations upon the expiration of the period for filing entries of appearance. In accordance with §§ 201.16(c) and 207.3 of the rules (19 CFR 201.16(c) and 207.3), each document filed by a party to the investigations maut be served on all other parties to the investigations (as identified by the service list), and a certificate of service must accompany the document. The Secretary will not accept a document for filing without a certificate of service.

### Staff report.

A public version of the prehearing staff report in these investigations will be placed in the public record on April 28, 1987, pursuant to § 207.21 of the Commission's rules (19 CFR 207.21).

# Hearing.

The Commission will hold a hearing in connection with these investigations beginning at 9:30 a.m. on May 12, 1987, at the U.S. International Trade Commission Building, 701 E Street NW., Washington, DC. Requests to appear at the hearing should be filed in writing with the Secretary to the Commission not later than the close of business (5:15 p.m.) on April 16, 1987. All persons desiring to appear at the hearing and make oral presentations should file prehearing briefs and attend a prehearing conference to be held at 9:30 a.m. on April 21, 1987 in room 117 of the **U.S. International Trade Commission** Building. The deadline for filing prehearing briefs is May 8, 1987.

Testimony at the public hearing is governed by § 207.23 of the Commission's rules (19 CFR 207.23). This rule requires that testimony be limited to a nonconfidential summary and analysis of material contained in prehearing briefs and to information not available at the time the prehearing brief was submitted. Any written materials submitted at the hearing must be filed in accordance with the procedures described below and any confidential materials must be submitted at least

three (3) working days prior to the hearing (see § 201.6(b)(2) of the Commission's rules (19 CFR 201.6(b)(2))).

#### Written submissions.

All legal arguments, economic analyses, and factual materials relevant to the public hearing should be included in prehearing briefs in accordance with \$ 207.22 of the Commission's rules (19 CFR 207.22). Posthearing briefs must conform with the provisions of \$ 207.24 (19 CFR 207.24) and must be submitted not later than the close of business on May 19, 1987. In addition, any person who has not entered an appearance as a party to the investigation may submit a written statement of information pertinent to the subjet of the investigation on or before May 19, 1987.

A signed original and fourteen (14) copies of each submission must be filed with the Secretary to the Commission in accordance with § 201.8 of the Commission's rules (19 CFR 201.8). All written submissions except for confidential business data will be available for public inspection during regular business hours (8:45 a.m. to 5:15 p.m.) in the Office of the Secretary of the Commission.

Any business information for which confidential treatment is desired most be submitted separately. The envelope and all pages of such submissions must be clearly labeled "Confidential Business Information." Confidential submissions and requests for confidential treatment must conform with the requirements of \$ 201.6 of the Commission's rules (19 CFR 201.6).

Authority: These invetigations are being conducted under authority of the Tariff Act of 1930, title VII. This notice is published pursuant to § 207.20 of the Commission's rules (19 CFR 207.20).

Issued: February 17, 1987. By order of the Commission.

Kenneth R. Mason,

Secretary.

[FR Doc. 87-3986 Filed 2-25-87; 8:45 am]

[Investigation No. 731-TA-343 (Final)]

Tapered Roller Bearings and Parts Thereof, and Certain Housings Incorporating Tapered Rollers From Japan

**AGENCY:** International Trade Commission.

ACTION: Institution of final antidumping investigation and scheduling of a hearing to be held in connection with the investigation.

SUMMARY: The Commission hearby gives notice of the institution of final antidumping investigation No. 731-TA-343 (Final) under section 735(b) of the Tariff Act of 1930 (19 U.S.C. 1673d(b)) to determine whether an industry in the United States is materially injured, or is threatened with material injury, or the establishment of an industry in the United States is materially retarded, by reason of imports from Japan of tapered roller bearings and parts thereof provided for in Tariff Schedules of the United States (TSUS) items 680.30 and 680.39; flange, take-up, cartridge, and hanger units incorporating tapered roller bearings, provided for in TSUS item 681.10: and tapered roller housings (except pillow blocks) incorporating tapered rollers, with or without spindles. whether or not for automotive use, provided for in item 692.32 or elsewhere in the TSUS, which have been found by the Department of Commerce, in a preliminary determination, to be sold in the United States at less than fair value (LTFV). Unless the investigation is extended. Commerce will make its final LTFV determination on or before June 8. 1987, and the Commission will make its final injury determinations by July 22,

1987 (see sections 735(a) and 735(b) of the Act (19 U.S.C. 1673d(a) and 1673d(b))).

For further information concerning the conduct of this investigation, hearing procedures, and rules of general application, consult the Commission's Rules of Practice and Procedure, Part 207 (19 CFR Part 207), Subparts A and C, and Part 201 (19 CFR Part 201), Subparts A through C and Subpart E.

EFFECTIVE DATE: March 23, 1987.

FOR FURTHER INFORMATION CONTACT:
Maria Papadakis (202–523–0439), Office of Investigations, U.S. International Trade Commission, 701 E Street NW., Washington, DC 20436. Hearing-impaired individuals are advised that information on this matter can be obtained by contacting the Commission's TDD terminal on 202–724–0002. Persons with mobility impairments who will need special assistance in gaining access to the Commission should contact the Office of the Secretary at 202–523–0161.

### SUPPLEMENTARY INFORMATION:

### Background

This investigation is being instituted as a result of an affirmative preliminary determination by the Department of Commerce that imports of tapered roller bearings and parts thereof, and certain housings incorporating tapered rollers from Japan are being sold in the United States at less than fair value within the meaning of section 731 of the Act (19 U.S.C. 1673). This investigation was requested in a petition filed on August 25, 1986, by the Timken Company, Canton, OH, in which Timken alleged that imports of tapered roller bearings and parts thereof, and certain housings containing tapered rollers from Hungary, Italy, Japan, the People's Republic of China, Romania, and Yugoslavia were being sold in the United States at less than fair value.

In response to that petition, the Commission conducted preliminary antidumping investigations and, on the basis of information developed during the course of those investigations, determined that there was a reasonable indication that an industry in the United States was materially injured by reason of imports of the subject merchandise (51 FR 36874). On February 11, 1987, the Commission instituted final antidumping investigations on imports of the subject merchandise from Hungary (Inv. No. 731-TA-341), Italy (Inv. No. 731-TA-342), the People's Republic of China (Inv. No. 731-TA-344), Romania (Inv. No.

731-TA-345), and Yugoslavia (Inv. No. 731-TA-346) (52 FR 5841, Feb. 26, 1987).

### Participation in the investigations

Persons wishing to participate in this investigation as parties must file an entry of appearance with the Secretary to the Commission, as provided in § 201.11(b) of the Commission's rules (19 CFR 201.11(b)), not later than twenty-one (21) days after the publication of this notice in the Federal Register. Any entry of appearance filed after this date will be referred to the Chairman, who will determine whether to accept the late entry for good cause shown by the person desiring to file the entry.

### Service list

Pursuant to § 201.11(d) of the Commission's rules (19 CFR 201.11(d)), the Secretary will prepare a service list containing the names and addresses of all persons, or their representatives. who are parties to this investigation upon the expiration of the period for filing entries of appearance. In accordance with §§ 201.16(c) and 207.3 of the rules (19 CFR 201.16(c) and 207.3), each document filed by a party to the investigation must be served on all other parties to the investigation (as identified by the service list), and a certificate of service must accompany the document. The Secretary will not accept a document for filing without a certificate of service.

# Staff report

A public version of the prehearing staff report in this investigation will be placed in the public record on April 28. 1987, pursuant to § 207.21 of the Commission's rules (19 CFR 207.21).

### Hearing

The Commission will hold a hearing in connection with this investigation and investigations 731-TA-341, 342, 344, 345, and 346 (Final) beginning at 9:30 a.m. on May 12, 1987, at the U.S. International Trade Commission Building, 701 E Street NW., Washington, DC. Requests to appear at the hearing should be filed in writing with the Secretary to the Commission not later than the close of business (5:15 p.m.) on April 16, 1987. All persons desiring to appear at the hearing and make oral presentations

should file prehearing briefs and attend a prehearing conference to be held at 9:30 a.m. on April 21, 1987 in room 117 of the U.S. International Trade Commission Building. The deadline for filing prehearing briefs is May 8, 1987.

Testimony at the public hearing is governed by § 207.23 of the Commission's rules (19 CFR 207.23). This rule requires that testimony be limited to a nonconfidential summary and analysis of material contained in prehearing briefs and to information not available at the time the prehearing brief was submitted. Any written materials submitted at the hearing must be filed in accordance with the procedures described below and any confidential materials must be submitted at least three (3) working days prior to the hearing (see § 201.6(b)(2) of the Commission's rules (19 CFR 201.6(b)(2))).

### Written submissions

All legal arguments, economic analyses, and factual materials relevant to the public hearing should be included in prehearing briefs in accordance with § 207.22 of the Commission's rules (19 CFR 207.22). Posthearing briefs must conform with the provisions of § 207.24 (19 CFR 207.24) and must be submitted not later than the close of business on May 19, 1987. In addition, any person who has not entered an appearance as a party to the investigation may submit a written statement of information pertinent to the subject of the investigation on or before May 19, 1987.

A period for submitting supplemental briefs will be provided for Parties in conjunction with investigation No. 731-TA-343; details concerning the date and nature of the filing of such supplemental briefs will be provided at the Commission's hearing on May 12, 1987.

A signed original and fourteen (14) copies of each submission must be filed with the Secretary to the Commission in accordance with § 201.8 of the Commission's rules (19 CFR 201.8). All written submissions except for confidential business data will be available for public inspection during regular business hours (8:45 a.m. to 5:15 p.m.) in the Office of the Secretary to the Commission.

Any business information for which confidential treatment is desired must be submitted separately. The envelope and all pages of such submissions must be clearly labeled "Confidential Business Information." Confidential submissions and requests for confidential treatment must conform with the requirements of § 201.6 of the Commission's rules (19 CFR 201.6).

Authority: This investigation is being conducted under authority of the Tariff Act of 1930, Title VII. This notice is published pursuant to § 207.20 of the Commission's rules (19 CFR 207.20).

Issued: April 2, 1987.

By order of the Commission.

Kenneth R. Mason,

Secretary.

[FR Doc. 87-7790 Filed 4-7-87; 6:45 am]

(Investigations Nos. 731-TA-342 and 346 (Final)

Tapered Roller Bearings and Parts Thereof, and Certain Housings Incorporating Tapered Rollers From Italy and Yugoslavia

AGENCY: International Trade Commission

**ACTION:** Revised schedule for the subject investigations.

EFFECTIVE DATE: March 30, 1987.

FOR FURTHER INFORMATION CONTACT:
Maria Papadakis (202-523-0439). Office of Investigations, U.S. International Trade Commission, 701 E Street NW., Washington, DC 20436. Hearing-impaired individuals are advised that information on this matter can be obtained by contacting the Commission's TDD terminal on 202-724-0002. Persons with mobility impairments who will need special assistance in gaining access to the Commission should contact the Office of the Secretary at 202-523-0161.

SUPPLEMENTARY INFORMATION: On Feb. 11, 1987, the Commission instituted the subject investigations and established a schedule for their conduct (52 FR 5841. Feb. 26, 1987). Subsequently, the Department of Commerce extended the date for its final determinations in these investigations from April 20, 1987, to June 22, 1987 (52 FR 6361, 6366). The Commission, therefore, is revising its schedule in these investigations to conform with Commerce's new schedule.

The date of the Commission's public hearing on these investigations remains unchanged as scheduled in its notice of institution (52 FR 5841, February 26, 1987). This schedule is as follows: requests to appear at the hearing are to be filed with the Secretary to the Commission not later than the close of business April 16, 1987; the prehearing conference will be held in room 117 of the U.S. International Trade

The date of Commerce's preliminary determinations for all of the countries subject to investigation, except Japan, was February 6, 1987. However, the Department of Commerce determined that the investigation involving Japan was "extraordinarily complicated" and, accordingly, extended the date for its preliminary less-than-fair-value determination to March 23, 1987.

Commission Building on April 21, 1987, at 9:30 a.m.; the public version of the prehearing staff report will be placed on the public record on April 28, 1987; the deadline for filing prehearing briefs is May 8, 1987; the hearing will be held in room 331 of the U.S. International Trade Commission Building on May 12, 1987, at 9:30 a.m.; and the deadline for filing posthearing briefs is the close of business on May 19, 1987.

A period for submitting additional briefs will be provided for parties in conjunction with investigations Nos. 731-TA-342 and 346; the deadline for filing supplemental briefs is July 29, 1987. Such supplemental briefs should be limited to information not available at the time the posthearing brief was submitted, and should be filed in accordance with the Commission's rules.

For further information concerning these investigations see the Commission's notice of investigation cited above and the Commission's Rules of Practice and Procedure. Part 207 (19 CFR Part 207). Subparts A and C, and Part 201 (19 CFR Part 201). Subparts A through C and Subpart E.

Authority: These investigations are being conducted under authority of the Tariff Act of 1930. Title VII. This notice is published pursuant to § 201.10 of the Commission's rules (19 CFR 201.10).

Issued: April 2, 1987.

By order of the Commission.

Kenneth R. Mason.

Secretary.

[FR Doc. 87-7791 Filed 4-7-87; 8:45 am]

BILLING CODE 7020-02-M

People's Republic of China and Romania of tapered roller bearings and parts thereof, and certain housings incorporating tapered rollers, all the foregoing provided for in items 680.3040, 680.3932, 680.3934, 680.3938, 680.3940, 681.1010, or 692.3295 of the Tariff Schedules of the United States, that have been found by the Department of Commerce to be sold in the United States at less than fair value LTFV).

Further, pursuant to section 735(b)(4)(A) of the Act (19 U.S.C. 1673d(b)(4)(A)), the Commission determines that the material injury in the investigation involving imports from Romania is not by reason of massive imports over a relatively short period to an extent that, in order to prevent such material injury from recurring, it is necessary to impose the antidumping duty retroactively on these imports.

# Background

The Commission instituted this investigation effective February 6, 1987. following preliminary determinations by the Department of Commerce that imports of the subject merchandise from Hungary, the People's Republic of China. and Romania are being sold at LTFV within the meaning of section 731 of the Act (19 U.S.C. 1673). Notice of the institution of the Commission's investigations and of a public hearing to be held in connection therewith was given by posting copies of the notice in the Office of the Secretary, U.S. International Trade Commission Washington, DC, and by publishing the notice in the Federal Register of February 26, 1987 (52 FR 5841). The hearing was held in Washington, DC, on May 12, 1987, and all persons who requested the opportunity were permitted to appear in person or by counsel.

The Commission transmitted its determinations in these investigations to the Secretary of Commerce on June 5, 1987. The views of the Commission are contained in USITC Publication 1983 (June 1987), entitled "Tapered Roller Bearings and Parts Thereof, and Certain Housings Incorporating Tapered Rollers from Hungary, The People's Republic of China, and Romania: Determinations of the Commission in Investigations Nos. 731-TA-341. 344, and 345 (Final) Under the Tariff Act of 1930, Together With the Information Obtained in the Investigations."

Issued: June 5, 1987.

By Order of the Commission:

Kenneth R. Mason,

Secretary.

[FR Doc. 87-13272 Filed 6-10-87; 8:45 am]

[Investigations Nos. 731-TA-341, 344, 345 (Final)]

Tapered Roller Bearings and Parts
Thereof, and Certain Housings
Incorporating Tapered Rollers From
Hungary, The People's Republic of
China, and Romania

### Determination

On the basis of the record ¹ developed in the subject investigation, the Commission determines. ² pursuant to section 735(b)(1) of the Tariff Act of 1930 (19 U.S.C. 1673d(b)(1)), that an industry in the United States is materially injured by reason of imports from Hungary, the

¹ The record is defined in § 207.2(i) of the Commission's Rules of Practice and Procedure (19 CFR 207.2(i)).

² Chairman Liebeler and Vice Chairman Brunsdale dissenting.

there are not all the second of the second o

·

. %,

## APPENDIX B

LIST OF WITNESSES APPEARING AT THE COMMISSION'S HEARING

#### CALENDAR OF PUBLIC HEARING

Those listed below appeared as witnesses at the United States International Trade Commission's hearing:

Subject

: Tapered Roller Bearings & Parts Thereof, and Certain Housings Incorporating Tapered Rollers from Hungary, Italy, Japan, The People's Republic of China,

Romania and Yugoslavia

Inv. Nos.

: 731-TA-341, 342, 343, 344, 345 & 346 (Final)

Date and time: May 12, 1987 - 9:30 a.m.

Sessions were held in connection with the investigation in the Hearing Room of the United States International Trade Commission, 701 E Street, N.W., in Washington.

# In support of the imposition of antidumping duties:

Stewart and Stewart--Counsel Washington, D.C. on behalf of

The Timken Company, Canton, Ohio

Joseph F. Toot, Jr., President

J. Kevin Ramsey, Vice President, Finance and Law, Secretary and Treasurer

John F. Hill, Director--Marketing--Bearings--North and South America

Scott C. Mathot, Director--Manufacturing--Bearings--North and South America

Stephen A. Perry, Director--Accounting

Richard C. Johns, Manager--Market Research--Bearings

William A. Maddox, General Manager--Marketing Administration--Bearings

Scott A. Scherff, Esq., Senior Corporate Attorney

Eugene L. Stewart--OF COUNSEL

## In opposition to the imposition of antidumping duties:

Barnes, Richardson & Colburn--Counsel Washington, D.C. on behalf of

American NTN Bearing Manufacturing Corporation, NTN Toyo Bearing Company, Ltd., and NTN Bearing Corporation of America

Professor George W. Wilson, Indiana University

William C. Hayes, President, NTN Bearing Corporation of America

Robert E. Burke )-OF COUNSEL Gunter von Conrad)

Dykema, Gossett, Spencer, Goodnow & Trigg--Counsel Detroit, Michigan on behalf of

NTN Bower Corporation

Robert H. Gorlin--OF COUNSEL

Tanaka, Ritger & Middleton--Counsel Washington, D.C.
on behalf of

Koyo Seiko Co., Ltd. and Koyo Corporation of U.S.A., its U.S. subsidiaries

K. Matsuyama, President, American Koyo Corporation, a subsidiary of Koyo Corporation of U.S.A.

Larry Marsalek, Assistant to the General Manager, American Koyo Corporation, a subsidiary of Koyo Corporation of U.S.A.

Chuck Brandt, Manager, American Koyo Corporation, a subsidiary of Koyo Corporation of U.S.A.--Detroit Division

## In opposition to the imposition of antidumping duties:

- Y. Yoshimi, Section Manager, Koyo Seiko Co. Ltd.
- M. Cribb, American Koyo Corporation Bearing Manufacturing Co.
- T. Kunimatsu, American Koyo Corporation, Bearing Manufacturing Co.

H. William Tanaka )
B. Jenkins Middleton)
Patrick F. O'Leary ) --OF COUNSEL
Michele N. Tanaka )

Sharretts, Paley, Carter & Blauvelt, P.C.--Counsel Washington, D.C. on behalf of

Caterpillar Inc.

Michael Dykstra, Buyer, Central Purchasing and Purchased Finished Division

Peter O. Suchman--OF COUNSEL

White & Case--Counsel Washington, D.C. on behalf of

RIV-SKF Officine di Villar Perosa S.p.A., Torino, Italy

Thomas E. Schofield, President, Unity Railway Supply Co., Inc.

Edward P. Trouteaud, Product Manager, TRB SKF Industries

John W. Barnum )--OF COUNSEL Gabrielle G. Gallegos

Stein, Shostak, Shostak & O'Hara--Counsel Los Angeles, California on behalf of

Marsuda-Rogers International (Hungary, Romania and Yugoslavia)

Edward Hertz, Executive Vice President

Robert Glenn White--OF COUNSEL

## In opposition to the imposition of antidumping duties:

Bryan, Cave, McPheeters & McRoberts--Counsel Washington, D.C. on behalf of

Magyar Gordulocsopagy Muvek (MGM), Hungarian manufacturer and exporter of tapered roller bearings

Dr. Samuel M. Rosenblatt, Economist, SMR, Inc.

Peter D. Ehrenhaft)--OF COUNSEL Laura Profeta

Graham & James--Counsel Washington, D.C. on behalf of

China National Mathinery & Equipment Import & Export Corporation (CMEC)

Lawrence R. Walders)--OF COUNSEL Samuel Zhang

	1			
	,	1		
				,
				1
	·			

## APPENDIX C

FEDERAL REGISTER NOTICES OF COMMERCE

#### [A-588-604]

Tapered Roller Bearings and Perts Thereof, Finished or Unfinished From Japan; Preliminary Determination of Sales at Less Than Fair Value

AGENCY: International Trade
Administration, Import Administration,
Commerce.

ACTION: Notice.

SUMMARY: We have preliminarily determined that tapered roller bearings and parts thereof, finished or unfinished (tapered roller bearings), from Japan are being, or are likely to be, sold in the United States at less than fair value. We have notified the U.S. International Trade Commission (ITC) of our determination, and we have directed the U.S. Customs Service to suspend liquidation of all entries of the subject merchandise that are entered or withdrawn from warehouse, for consumption, on or after the date of publication of this notice, and to require a cash deposit or bond for each entry in

a-17

an amount equal to the estimated dumping margin as described in the "Suspension of Liquidation" section of this notics. If this investigation proceeds normally, we will make a final determination by June 8, 1987.

EFFECTIVE DATE: March 27, 1987.

FOR FURTHER INFORMATION CONTACT:
Mary S. Clapp (202-377-1769) or Marie

Mary S. Clapp (202–377–1769) or Marie G. Kissel (202–377–3798), Office of Investigations, Import Administration, International Trade Administration, U.S. Department of Commerce, 14th Street and Constitution Avenue NW., Washington, DC 20230.

#### SUPPLEMENTARY INFORMATION:

#### **Preliminary Determination**

We have preliminarily determined that tapered roller bearings and parts thereof, finished or unfinished, from Japan are being, or are likely to be, sold in the United States at less than fair value as provided in section 733 of the Tariff Act of 1930, as amended (19 U.S.C. 1673b) (the Act). The margins of sales at less than fair value are shown in the "Suspension of Liquidation" section of this notice.

#### **Case History**

On August 25, 1986, we received a petition in proper form filed by the Timken Company, on behalf of the U.S. industry producing tapcred roller bearings. In compliance with the filing requirements of § 353.36 of the Commerce Regulations (19 CFR 353.36), the petition alleged that imports of the subject merchandise from Japan are being, or are likely to be, sold in the United States at less than fair value within the meaning of section 731 of the Act, and that these imports are causing material injury, or threaten material injury, to a United States industry.

After reviewing the petition, we determined that it contained sufficient grounds upon which to initiate an antidumping duty investigation. We initiated the investigation on September 15, 1986 (51 FR 33286, September 19, 1986), and notified the ITC of our action.

On October 2, 1986, the ITC determined that their is a reasonable indication that imports of tapered roller bearings from Japan are materially injuring a U.S. industry (U.S. ITC Pub. No. 1899, October 1986).

On November 19, 1986, questionnaires were presented to NTN Toyo Bearing Co., Ltd. (NTN) and Koyo Seiko Co., Ltd. (Koyo), which account for approximately 90 percent of the exports to the United States during the period of investigation. To both companies we granted an extension of time in which to respond.

On January 5, 1987 we received questionnaire responses from both companies. Additions to the responses were received on January 21, 1987 and January 28, 1987, from Koyo Seiko, and from NTN on January 20, 1987 and January 28, 1987. We found that the questionnaire responses were insufficient. We sent deficiency letters to both companies on February 9, 1987. Deficiency letter responses were received from NTN on February 20, 1987 and February 23, 1987, and from Koyo Seiko on February 24, 1987 and February 27, 1987.

On January 12, 1987, we determined this case to be extraordinarily complicated and, in accordance with section 733(c)(B) of the Act, we postponed the preliminary determination to March 23, 1967 (52 FR 2125).

#### Scope of Investigation

The products covered by this investigation are tapered roller bearings and parts thereof, currently classified under the Tariff Schedules of the United States (TSUS) under items 680.30 and 680.39; flange, take-up cartridge, and hanger units incorporating tapered roller bearings currently classified under TSUS item 681.10; and tapered roller housings (except pillow blocks) incorporating tapered rollers, with or without spindles, whether or not for automotive use, and currently classified under TSUS item 692.32 or elsewhere in the TSUS. Products subject to the outstanding dumping finding covering certain tapered roller bearings from Japan (T.D. 76-227, 41 FR 34974) are not included within the scope of this investigation. This investigation includes all tapered roller bearings and parts thereof, as described above, that are manufactured by NTN.

If during the course of this investigation the Department rescinds its revocation with respect to NTN and that rescission is affirmed by final judicial order, this antidumping investigation would be terminated with regard to any bearings manufactured by NTN that would be covered by the outstanding dumping finding.

#### Fair Value Comparisions

To determine whether sales of the subject merchandise in the United States were made at less than fair value we compared the United States price to the foreign market value as specified below. Because information received from Koyo relating to merchandise which was processed prior to sale was received too late to allow us to consider it for this preliminary determination, we have based this determination on

comparisons of products which were sold in the condition in which imported. If verified, we will use the information on the sales of processed merchandise in making our final decision.

We made comparisons on approximately 90 percent of the sales of the product during the period of investigation, March, 1, 1986 through August 31, 1986.

#### **United States Price**

For Koyo Seiko and certain sales by NTN, we based United States price on exporter's sales price (ESP) since those sales were made after importation. in accordance with section 772(c) of the Act. For those sales by NTN to the United States which were made prior to importation, we determined that the merchandise had been purchased from the manufacturer or producer and, therefore, based the United States price on purchase price in accordance with section 772(b) of the Act.

For sales which were made through a related sales agent in the United States to an unrelated purchaser prior to the date of importation, we used purchase price as the basis for determining United States price. For these sales, the Department determined that purchase price was the more appropriate indicator of United States price based on the following elements:

- 1. The merchandise in question was shipped directly from the manufacturer to the unrelated buyer, without being introduced into the inventory of the related selling agent;
- 2. This was the customary commercial channel for sales of this merchandise between the parties involved; and
- 3. The related selling agent located in the United States acted only as a processor of sales-related documentation and a communication link with the unrelated U.S. buyer.

Where all the above elements are met, we regard the routine selling functions of the exporter as having been merely relocated geographically from the country of exportation to the United States, where the sales agent performs them. Whether these functions are done in the United States or abroad does not change the substance of the transactions or the functions themselves.

In instances where merchandise is ordinarily diverted into the related U.S. selling agent's inventory, we regard this factor as an important distinction because it is associated with a materially different type of selling activity than the mere facilitation of a transaction such as occurs on a direct shipment to an unrelated U.S. purchaser. In situations where the related party

places the merchandise into inventory, he commonly incurs substantial storage and financial carrying costs and has added flexibility in his marketing. We also use the inventory test because it can be readily understood and applied by respondents who must respond to Department questionnaires in a short period of time. It is objective in nature, as the final destination of the goods can be established from normal commercial documents associated with the sale and verified with certainty.

We calculated purchase price and ESP based on the packed, duty paid, f.o.b. or c.i.f., delivered prices to unrelated purchasers in the United States. We made deductions for foreign inland freight, ocean freight, marine insurance, U.S. duty, and U.S. inland freight, as appropriate. For ESP sales, we also deducted other expenses normally incurred in selling the merchandise in the United States. Consistent with the Court of International Trade remand decision (The Timken Co. v. United States. Slip Op. 86-17) concerning NTN's sales of tapered roller bearings subject to a previous antidumping duty order on tapered roller bearings four inches and under in outside diameter, we treated certain U.S. credit and technical service expenses as directly related to the sales under consideration

#### Foreign Market Value

As noted in the "Case History" section of this notice, petitioner alleged that home market sales were made at less than the cost of production and that constructed value should be used to compute foreign market value.

Using the respondents' submissions we compared the home market prices to the cost of production reflecting selling expenses incurred on sales to the same level of trade. We used constructed value as the basis for calculating foreign market value where there were no, or insufficient, sales of such or similar merchandise at prices above the cost of production, as defined in § 773(b) of the Act. Koyo had sufficient sales at prices above cost to form the basis for all comparisons.

NTN's general expenses exceeded the statutory minimum of ten percent of materials and fabrication. Therefore, actual general expenses were used in calculating the constructed value Koyo's general expenses were less than the statutory minimum, therefore, we used the 10 percent minimum. The statutory eight percent for profit was

Included in the constructed value for both respondents because home market profit was less than eight percent. We added U.S. packing charges.

We made a circumstance of sale adjustment for differences in credit expenses and for comparisons to ESP, for an offset to indirect selling expenses on the U.S. sales, in accordance with § 353.15(c) of Commerce's regulations, except as noted below.

Where we found sufficient sales in the home market to form the basis of comparison, we used delivered home market prices. We made deductions for foreign inland freight and discounts. We deducted home market packing costs and added U.S. packing costs. For comparison to ESP sales, we offset selling expenses incurred on home market sales up to the amount of the indirect selling expenses incurred for seles to the U.S. market, in accordance with § 353.15(c) of our regulations. We made an adjustment for differences in credit terms in accordance with § 353.15 of our regulations. NTN claimed adjustments for differences in technical service expenses, sales commissions. advertising and warehousing expenses We denied these claims pending the outcome of verification.

NTN submitted information relative to possible comparison models which appears to be based on its catalogue of bearings rather than models actually sold in the home market during the period of investigation. Due to the number of models involved and the number of sales transactions, we were unable to refine the data and create alternative comparison groups based or sales. Accordingly, where we could not find an appropriate home market comparison, we developed constructed value on the basis of the direct manufacturing costs of the model sold to the United States. In addition, the problems relating to the establishment of comparison groups made it impossible to determine the level of home market selling expenses which would be used in the ESP offset Therefore, for purposes of this preliminary determination we did not offset the ESP expenses in determining the foreign market value. We are requesting additional information for purposes of the final determination.

We established such or similar merchandise comparison groups on the basis of the inside and outside diameter of the bearings and, where available, the dynamic load rating. Petitioner contends that the system life of the bearings is a

more accurate measure of similarity than the dynamic load rating. We received detailed information on the methodology for determining system life too late to consider it for this determination. We will consider petitioner's contention for purposes of the final determination. We will request additional information and comments on the proposed methodology as appropriate.

#### Currency Conversion

For ESP comparisons, we used the official exchange rate for the date of sale since the use of that exchange rate is consistent with section 615 of the Trade and Tariff Act of 1984 (1984 Act). We followed section 615 of the 1984 Act rather than § 353.56(a)(2) of our regulations because the later law supersedes that section of the regulations.

For purchase price comparisons, we used the exchange rate described in § 353.56(a)(1) of our regulations. All currency conversions were made at the rates certified by the Federal Reserve Bank.

#### Verification

As provided in section 776(a) of the Act we will verify all information used in reaching the final determination in this investigation.

#### Suspension of Liquidation

In accordance with section 733(d) of the Act, we are directing the United States Customs Service to suspend liquidation of all entries of tapered rolle; bearings and parts thereof, finished or unfinished, from Japan that are entered, or withdrawn from warehouse, for consumption, on or after the date of publication of this notice in the Federal Register

The Customs Service shall require a cash deposit or the posting of a bond equal to the estimated amount by which the foreign market value of the merchandise subject to this investigation exceeded the United States price. This suspension of liquidation will remain in effect until further notice.

Manufacturer/producer fexporter	Merchier maron maron persential
P.Dyr. Seer. Co. Ltd.	36 67
NYN Toyc Bearing Co. Ltd.	17 67
At: Others	18 06

a - 19

#### ITC Notification

In accordance with section 733(f) of the Act, we will notify the ITC of our determination. In addition, we are making available to the ITC all nonprivileged and nonproprietary information relating to this investigation. We will allow the ITC access to all privileged and business proprietary information in our files, provided the ITC confirms that it will not disclose such information, either publicly or under administrative protective order, without the written consent of the Deputy Assistant Secretary for Import Administration.

The ITC will determine whether these imports are materially injuring, or are threatening material injury to, a U.S. industry before the later of 120 days after the date of our preliminary affirmative determination or 45 days after we make our final affirmative determination.

#### **Public Comment**

In accordance with § 353.47 of our regulations (19 CFR 353.47), if requested. we will hold a public hearing to afford interested parties an opportunity to comment on this preliminary determination at 9:30 a.m. on May 19. 1987, at the U.S. Department of Commerce, Room 3708, 14th and Constitution Avenue, NW., Washington. DC 20230 Individuals who wish to participate in the hearing must submit a request to the Deputy Assistant Secretary for Import Administration. Room B-099, at the above address within 10 days of the publication of this notice. Requests should contain: (1) The party's name, address and telephone number: (2) the number of participants: (3) the reason for attending: and (4) a list of the issues to be discussed.

In addition, prehearing briefs in at least 10 copies must be submitted to the Deputy Assistant Secretary by May 12. 1987. Oral presentations will be limited to issues raised in the briefs. All written views should be filed in accordance with 19 CFR 353.46, not less than 30 days before the final determination or, if a hearing is held, within 7 days after the hearing transcript is available, at the above address in at least 10 copies.

This determination is published pursuant to ection 733(f) of the Act (19 U.S.C. 1673b(f)) Gilbert B. Kaplan.

Deputy Assistant Secretary for Import Administration.

March 23, 1987.

[FR Doc. 87-6795 Filed 3-28-67; 8:45 am]

BILLING CODE 2519-06-M

#### [A-437-601]

Final Determination of Sales at Less Than Fair Value; Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From the Hungarlan People's Republic

**AGENCY:** Import Administration, International Trade Administration, Commerce.

**ACTION:** Notice.

SUMMARY: We have determined that tapered roller bearings and parts thereof, finished or unfinished (tapered roller bearings), from the Hungarian People's Republic (Hungary) are being, or are likely to be, sold in the United States at less than fair value. We have also determined that critical circumstances do not exist in these investigations. We have notified the U.S. International Trade Commission (ITC) of our determination, and we have directed the U.S. Customs Service to continue to suspend the liquidation of all entries of the subject merchandise that are entered, or withdrawn from warehouse, for consumption on or after the date of publication of this notice, and to require a cash deposit or bond for each such entry in an amount equal to the estimate dumping margin as described in the "continuation of Suspension of Liquidation" section of this notice.

#### EFFECTIVE DATE: May 8, 1987.

## FOR FURTHER INFORMATION CONTACT:

N!ary Jenkins (202/377-1756) or John R. B: inkman (202/377-3965). Office of Investigations, Import Administration, International Trade Administration, U.S. Department of Commerce, 14th Street and Constitution Avenue, NW., Washington, DC 20230.

#### SUPPLEMENTARY INFORMATION:

#### **Final Determination**

We have determined that tapered roller bearings from Hungary are being, or are likely to be, sold in the United States at less than fair value, as provided in section 735 of the Tariff Act of 1930, as amended (the Act)(19 U.S.C. 1673d(a)). The weighted-average margin of sales at less than fair value is 7.42 percent.

#### **Case History**

On August 25, 1986, we received a petition in proper form filed by the Timken Company, on behalf of the United States industry producing tapered roller bearings. In compliance with the filing requirements of § 353.36 of the Commerce Regulations (19 CFR - 353.36), the petition alleged that imports of the subject merchandise from

Hungary are being, or are likely to be, sold in the United States at less than fair value within the meaning of section 731 of the Act, and that these imports are causing material injury, or threaten material injury, to a United States industry.

After reviewing the petition, we determined that it contained sufficient grounds upon which to initiate an antidumping duty investigation. We initiated such an investigation on September 15, 1986 (51 FR 33284, September 19, 1986) and notified the ITC of our action.

On October 2, 1986, the ITC determined that there is a reason able indication that imports of TRBs from Hungary are materially injuring a U.S. industry (U.S. ITC Pub. No. 1899, October 16, 1986).

On November 3, 1986, a questionnaire was presented to counsel for Magyar Gordulocsopagy Muvek (MGM), the only known exporter of the subject merchandise from Hungary to the United States. We received MGM's questionnaire reponse on December 10, 1986. Supplemental reponses were received on January 7, 1987, and February 24, 1987.

As discussed under the "Foreign Market Value" section of this notice, we have determined that Hungary is a state-controlled-economy country for the purpose of this investigation.

On February 2, 1987, we made an affirmative preliminary determination (52 FR 3835, February 6, 1987).

On February 25, 1987, petitioner alleged that "critical circumstances" exist with respect to imports of TRBs from Hungary. We conducted verification in Budapest and Diosd, Hungary from March 3 through 6, 1987. On March 27, 1987, we made a negative preliminary determination of "critical circumstances" (52 FR 11301, April 8, 1987). On March 20, 1987, the respondent requested a two-week extension of the final determination.

We granted that request and postponed the due date of the final determination until May 4, 1987 (52 FR 11722, April 10, 1987). A public hearing was held on March 30, 1987. As required by the Act, we afforded interested parties an opportunity to submit written comments to address the issues arising in this investigation.

#### Scope of Investigation

The products covered by this investigation are tapered roller bearings (TRBs), currently classified under Tariff Schedules of the United States (TSUS) item numbers 680.30 and 680.39; flange, take-up cartridge, and hanger units incorporating TRBs currently classified

under TSUS item number 681.10; and tapered roller housing (except pillow blocks) incorporating tapered rollers, with or without spindles, whether or not for automotive use, and currently classified under TSUS item numbers 692.32 or elsewhere in the TSUS.

#### Fair Value Comparisons

Because MGM accounted for all sales of this merchandise from Hungary. we limited our investigation to that company.

To determine whether sales of the subject merchandise in the United States were made at less than fair value, we compared the United States price with the foreign market value. We investigated sales of TRBs for the period September 1, 1985 through August 31, 1986. We used a twelve-month period of investigation because the respondent had no sales in the original six-month period of investigation.

#### **United States Price**

As provided in section 772 of the Act. we used to the purchase price of the subject merchandise to represent the United States price for sales by MGM because the merchandise was sold to unrelated purchasers prior to its importation into the United States.

We calculated the purchase price based on the f.o.b. Hamburg, West Germany port price to unrelated purchasers. We made deductions for foreign inland freight, handling and loading charges, and a cash discount.

In accordance with the policy set forth in our final determination in the investigation of Carbon Steel Wire Rod from Poland (49 FR 29434, July 20, 1984). we based the inland freight deductions on charges incurred in a non-statecontrolled-economy country, Portugal. Handling and loading were based on the actual charges paid by MGM in freely convertible currency to a West German freight forwarder. The cash discount was based on the actual cash discount given on certain sales or the cost of extraordinary terms of payment on other sales. Since the extraordinary credit terms were converted to a cash discount, we treated the extraordinary credit terms as being equivalent to a cash discount.

### Foreign Market Value

Petitioner alleged that Hungary is a state-controlled-economy country and that sales of the subject merchandise in that country do not permit a determination of foreign market value under section 773(a) of the Act. After an analysis of the Hungarian economy, and consideration of the briefs submitted by

the parties, we concluded that Hungary is a state-controlled-economy for purposes of this investigation. Basic to our decision is the degree of direct and indirect central control that the Hungarian government exercises over the prices and levels of production of the TRB industry, as well as the internal pricing of the factors of production.

As a result, section 773(c) of the Act requires us to use prices or the constructed value of such or similar merchandise in a "non-state-controlled-economy" country. The statute further stipulates that, to the extent possible, we should determine sales prices on the basis of prices in a "non-state-controlled-economy" country at a stage of economic development comparable to the country with the state-controlled economy.

We subsequently determined that Argentina, Brazil, Mexico, Portugal and Yugoslavia would be the most appropriate surrogates. South Korea and Spain were selected as alternative surrogates. We sent questionnaires requesting assistance in this investigation to TRB producers in Argentina, Brazil, Mexico, South Korea and Spain. We did not send questionnaires to Portugal because there were no TRB producers in that country. We did not sent questionnaires to Yugoslavia because we are currently conducting an antidumping duty investigation on TRBs from that country. Although the Department made numerous efforts to obtain the cooperation of these potential respondents, we received no response from any company to which the Department sent questionnaires.

Following the Department's hierarchy of preferences under § 353.8(a), we analyzed the import prices from the comparable non-state-controlled-economy countries. In this case, we found the applicable Department of Commerce statistics for the subject merchandise were based on categories that were too broad to make specific comparisons. Additionally, U.S. imports from the surrogate countries where there were measurable imports may have benefited from export subsidies, which would make them inappropriate for calculating foreign market value.

Since we were unable to obtain verifiable prices or constructed value data from the potential surrogate companies in comparable economies, we used the factors of production valued in a comparable economy as provided for in § 353.8(c), as the basis for determining foreign market value. We calculated constructed value based on the factors of production reported by the Hungarian producer which accounts

for all of the Hungarian exports to the United States of the subject merchandise.

We used the best information available for valuing the factors of production. Where possible, best information available was obtained from publicly available sources in Portugal or from a surrogate company in the metals processing industry in Portugal. We chose Portugal as the surrogate for purposes of valuation of the factors of production because we were able to obtain more complete publicly available data from that country as opposed to the other surrogate countries. We valued labor, direct factory overhead and raw materials for certain TRB components from information obtained from the surrogate company in Portugal. Other raw material costs were based on the verified costs to the Hungarian producer for imports of certain steel products from market economies. In such instances, the steel was paid for in freely convertible currency. Terms of payment did not encompass countertrade. Commissions charged by the Hungarian importer to MGM as a percentage of the cost of goods, and delivery costs valued using Portuguese freight rates, were added to the cost of the imported steel. Packing was obtained from publicly available data in the public version of the response of a market-economy country TRB producer involved in a current antidumping duty investigation. We used the statutory minimum of 10 percent of the sum of material and production costs for general, sales and administrative expenses and the statutory minimum of eight percent for profit.

When using surrogate country data, we made currency conversions in accordance with § 353.56(a) of our regulations, using certified exchange rates as furnished by the Federal Reserve Bank of New York.

#### Verification

As provided in section 776(a) of the Act, we verified information provided by the respondent, using standard verification procedures, including examination of accounting records and original source documents containing relevant information on selected sales.

#### **Comments Section**

Petitioner's Comments

Comment #1: Petitioner argues that the Department may not use the factors of production constructed value method provided for in § 353.8(c) of the Commerce regulations as the basis for foreign market value in this investigation.

Petitioner contends that § 353.8 (a) and (b) of the Commerce regulations establishes a hierarchy for determining foreign market value in which prices and constructed value of such or similar merchandise take preference over the factors of production constructed value method under § 353.8(c). The Department must first consider prices and constructed value of such or similar merchandise under § 353.8 (a) and (b) in the following order of preference: (1) A non-state-controlled-economy country at a stage of economic development comparable to the state-controlledeconomy country from which the merchandise is exported; (2) a non-statecontrolled-economy country not necessarily at a stage of economic development comparable to the statecontrolled-economy country, other than the United States, suitably adjusted for known differences in costs of materials and labor, and (3) the United States. According to the petitioner, the Department must exhaust all of these established preferences before resorting to the factors of production approach.

DOC position: We disagree. Petitioner's hierarchy of methods for calculating foreign market value, under which the factors of production constructed value approach would be a last resort, is based upon a misconception of 19 CFR_353,8 and applicable precedent. The Commerce regulation and past Departmental practice does establish a preference for the use of comparable economy sales prices and constructed value as the basis for foreign market value. However, it is not true, as petitioner claims, that under § 353.8(b) foreign market value based on sales prices or constructed value in a non-state-controlled-economy country not at a comparable stage of economic development are preferable to the factors of production constructed value approach under § 353.8(c).

Section 353.8(b)(1) of the regulations makes clear that the preference in favor of sales prices is tempered by the overriding preference for ascertaining foreign market value by reference to comparable non-state-contralled-economies. Chemical Products Corp. v. United States, 12 CIT——, Slip Op. 86-97 (September 26, 1986). The Department would arrive at § 353.8(b)(2) only after it has exhausted the pricing and constructed value options in comparable economies, i.e., under § 353.8 (a) and (c).

In this case, verifiable and otherwise acceptable surrogate sales price and constructed value information was not

available from TRB producers in any of the non-state-controlled-economy countries determined by the Department to be at stages of economic development comparable to that of Hungary. The Department sent surrogate questionnaires to seven firms in these. countries. None of these firms was willing to provide the information sought in the questionnaire (See DOC response to petitioner's comment #2 for the Departments position with respect to price and constructed value data provided by the petitioner). (See DOC response to petitioner's comment #3 for the Department's handling of prices obtained from U.S. import statistics). However, the Department was able to obtain and verify the respondent's factors of production information and value such information in a comparable economy. Therefore, factors of production constructed value methodology has been used for purposes of determining foreign market value with respect to the final determination in this investigation.

Comment #2: Petitioner argues that, since the Department was unable to obtain verifiable prices and constructed value information from the TRB producers in comparable surrogates to whom it sent questionnaires, the Department must use the surrogate country price and constructed value information provided by the petitioner. The petitioner has supplied the Department with price lists for almost all the TRB part numbers exported by the respondent from almost all of the surrogate countries chosen by the Department. In addition, petitioner's subsidiary in a surrogate country has voluntarily responded to the Department's questionnaire, furnishing data on both its home market sales and its cost of production.

DOC position: In selecting potential surrogate respondents, the Department initially identified five (later increased to seven) comparable (surrogate) economies. The Department requested and received assistance from both the petitioner and respondent in identifying TRB producers in those seven surrogate countries. Ultimately, the Department identified fourteen TRB producers and sent seven TRB producers in five surrogate countries questionnaires requesting pricing, constructed value and valuation of factors of production information. No questionnaires were sent to the other seven TRB producers because they were either: (1) Located in a country subject to a current antidumping investigation; (2) identified as being related to a company subject to a current antidumping investigation on

TRBs; or (3) identified as being related to the petitioner in this proceeding.

The Department used these criteria for eliminating TRB producers after determining that the relationship of TRB producers to the petitioner or other parties subject to an antidumping proceeding might raise questions as to the propriety of the information submitted. Furthermore, the Department determined that it had an adequate number of TRB producers to whom to send questionnaires.

The petitioner was aware of the Department's selection of surrogate producers and did not submit objections to the Department's rejection of potential surrogate respondents at the time the questionnaries were sent out. The petitioner first raised objections to the Department's surrogate selections after the preliminary determination.

Additionally, with the possible exception of the voluntary response of the petitioner's subsidiary in a surrogate country which "volunteered" to be verified, none of the price list data submitted by the petitioner is verifiable. It is not our practice to use price lists for comparison purposes, nor do we have sufficient verifiable information to allow us to make the necessary adjustments to these prices. With regard to the petitioner's subsidiary's respnse, we note that the response was not received until one month after the Department's preliminary determination. It has been the Deprements's position that in order to even be considered in a final determination, a complete and full voluntary response must be received by the date of the preliminary determination.

Comment #3: Petitioner contends that under § 353.8(a), the Department must consider U.S. import statistics for TRBs from the selectd surrogate countries before considering use of factors of production. Such import statistics have been used in prior non-market-economy investigations, where the Department has been unable to obtain surrogate country producer prices, as being representative of third country prices form the surrogate country.

DOC position: We disagree that the use of import statistics is appropriate in this investigation. Although the subject TSUS numbers do cover complete sets of TRBs, as well as TRB cups and cones, these tariff categories cover a great range of dimensions. Additionally, imports from the surrogate countries, where there were measurable imports, benefited from export subsidies, which makes them inappropriate for foreign market value calculations.

Comment #4: Petitioner questions the Department's decision to request factors of production data from the MGM Diosd TRB production plant and not two other MGM plants. Under the Department's consistent practice, MGM should provide the factors of production for all plants producing TRBs, regardless of whether the bearings produced are for export or not, and whether producton is primarily of inch- or metric-denominated bearings, or large- or small-dimensioned bearings. Since this data was not submitted, the Department is deprived of information necessary for determining foreign market value based on factors of production and must instead rely on the best information otherwise available.

DOC position: Although the Department did initially request factors of production data from MGM for all three plants, subsequent submissions by MGM led the Department to revise that request to cover the Diosd factory only. The Department's past practice in determining which factories in a nonmarket-economy investigation would be required to submit factors of production data has been to first gather information (which would be subject to verification) on each factory's production capacity. production processes, products produced, volume of domestic and export sales and age of the factory. Based on this data, the Department would decide which plant or plants would be required to submit the factors of production information.

In this investigation, the Department made the decision to limit the reporting of factors to the Diosd plant based on the data submitted which indicated that the Diosd plant accounted for all of the production and sales of the size and type of TRBs exported to the United States from Hungary. The subsequent verification established to the Department's satisfaction that this representation was correct. In the one instance where a second plant produced a TRB component used in the assembly of the subject TRBs in the Diosd plant. the factors of production for this component were obtained during verification. Accordingly, foreign market value has been based on the factors of production as verified.

Comment #5: Petitioner argues that the Department is precluded from using the factors of production constructed value method because § 353.8(c) provides that it should be used where "such or similar merchandise is not produced" in a comparable market-economy country, and in this case such or similar merchandise is produced in such countries.

DOC position: We disagree. None of the seven producers in surrogate countries to which we sent questionnaires were willing to provide the Department with the price and constructed value information which we sought. We consider the absence of surrogate producer responses tantamount to a situation in which such or similar merchandise is not produced in a comparable market-economy country. See, Barium Carbonate from the People's Republic of China (49 FR 33913, 1984).

Comment #6: As noted in the Department's verification report, MGM incurs containerization charges in the West German port. Since these are part of MGM's movement changes and are incurred in a non-state-controlledeconomy country, the actual charges should be deducted from the U.S. price.

DOC position: We agree. The actual charges incurred by MGM on each shipment have been deducted from the

U.S. price.

Comment #7: In calculating foreign market value. The Department should adjust the foreign prices to account for differences in the circumstances of sale between sales in the United States and sales in the foreign market for expenses for credit, warranties, commission, technical services, and advertising. To adjust for differences in circumstances of sales, the Department should deduct from foreign market value the cost of these expenses in the home market of the surrogate country, and then add to foreign market value the cost of these expenses on sales by the producer under investigation to the United States. See, e.g.. Potassium Chloride from the Union of Soviet Socialist Republics. (50 FR 4562, 4563, 1985).

These adjustments should be based on the experience of the petitioner's TRB subsidiary in Brazil.

DOC position: We disagree. In this investigation the Department has valued factors of production in a comparable surrogate country using the best information available. The specificity of the data obtained for valuing the factors is not sufficient for us to identify the directly related selling expense adjustments which would have to be made to foreign market value for both U.S. price and constructed value. Absent specific information that the respondent incurs extraordinary directly related selling expenses for U.S. sales, the Department assumed, as best information available, that ordinary and similar selling expenses occur in both markets and, as such, offset one another.

For reasons stated in the "DOC Position" to petitioner's comment #2, we have not considered the data submitted by the petitioner for its subsidiary in Brazil.

Comment #8: Petitioner contends that the Department's preliminary determination methodology for calculating direct factory overhead seriously understated the factory overhead element of the constructed value by omitting various cost categories. Petitioner contends that in valuing the factory overhead in an appropriate surrogate the Department should independently value such cost categories as energy utilization, tools, lubricants, work clothes, maintenance materials, machines, equipment and buildings, natural gas, depreciation, contracted repair, and other fuctory overhead. The factory overhead experience of the petitioner's subsidiary in Brazil, a surrogate country chosen by the Department, as well as that of the petitioner itself and several Japanese producers, is indicative of an appropriate factory overhead rate which is inclusive of these cost categories.

DOC position: We disagree with the petitioner's requirement that all elements of factory overhead be individually valued. The Department has obtained, and used as the best information available, a factory overhead rate from a surrogate company in the metal processing industry in Portugal. This overhead rate is expressed as a percentage of cost of goods sold and as such is inclusive of all elements of factory overhead.

With regard to petitioner's request that we use the average factory overhead experience of Japan and the United States as being representative of the Hungarian industry, the Department considers the factory overhead experience of a surrogate company in a comparable-economy country (notwithstanding the fact that the company is not involved in the production of TRBs) preferable to the alternatives offered by the petitioner.

We are required to select a comparable economy in which to value the factors of production information. The rationale behind selecting a comparable economy is that the experience of a producer in a comparable-economy country is reflective of the same degree of economic and industrial development as that of a producer in a non-marketeconomy country. The United States and Japanese overhead ratios offered by the petitioner, on the other hand, are for fully industrialized economies whose TRB producers use highly automated. state-of-the-art production equipment, in which factory overhead is high and direct labor low. The Hungarian

production facilities use less automated and less sophisticated machinery and are much more labor intensive. In such instances, direct factory overhead would be lower and direct labor higher than for U.S. and Japanese TRB producers.

For reasons stated in the "DOC Position" section to petitioner's comment #2, we have not considered the data submitted by the respondent for

its subsidiary in Brazil.

Comment #9: Petitioner asserts that if the Department persists in using factors of production, constructed value should be based upon costs and expenses incurred in Brazil in the production of bearings, not those incurred generally in Portugal. Petitioner states that the Department is prohibited by statute from using Portugal, a country which has no TRB industry, as a surrogate for valuing the factors of production. The applicable statute provides for the Department's use of constructed value only with respect to "such or similar merchandise" in a non-state-controlledeconomy country.

DOC position: We disagree. In cases involving state-controlled-economy countries, we devise our list of potential surrogates on the basis of the comparability of their economies to that of the state-controlled-economy country under investigation, not on the presence or absence of an industry within that potential surrogate producing such or similar merchandise to that which is subject to the investigation. The Department valued the factors of production data in Portugal because it was the comparable surrogate country from which the most complete data was available. The Department did not use the constructed value information provided by the petitioner for its subsidiary in Brazil for reasons stated in the Department's response to petitioner's comment #2.

Comment #10: Petitioner maintains that, for purposes of valuing factors of production, using the prices that Hungary (MGM) pays the United Kingdom, Sweden and the Federal Republic of Germany for various steel inputs is not permissible under the Statute.

Section 773(c) states that in the case of a state-controlled-economy country, the administering authority shall determine the foreign market value on the basis of prices in a non-statecontrolled economy (or prices from that country to a third country). 19 U.S.C. 1677b(c) (emphasis added). The statute does not provide discretion to choose some of the input costs actually incurred in a state-controlled economy and other

costs incurred in a surrogate country and to mix the two values in arriving at constructed value.

DOC Position: We disagree. We used the prices paid by the Hungarian importer for grades and dimensions of steel used in the production of certain components of the TRBs as best information available because we did not have such specific information in Portugal, our surrogate country. These prices were not set in the statecontrolled-economy country but rather in the non-state-controlled-economy countries of Western Europe. An extensive verification of this data showed that the prices and terms were freely negotiated in Western European market economies and that payment was made by the Hungarian importer to Western European steel producers in freely convertible currency. The Hungarian importer, who acted as a purchasing agent for MGM, charged MGM a commission for its services. Accordingly, the import price used in valuing the appropriate factors of production was increased by the amount of the commission charged.

Comment # 11: Petitioner advocates the use of actual West German freight rates as the basis for calculating foreign inland freight expense. Petitioner further contents that the Department's use of surrogate rates (Portuguese freight rates) is unnecessary for purposes of the final determination due to the availability of a free-market rate for inland freight in

West Germany.

DOC Position: We disagree. The intent of using a surrogate country's information is to allow for a comparison between the state-controlled-economy country under investigation and the non-state-controlled-economy country to which its economy is most comparable. Therefore, inland freight rates in Portugal are preferable to those of West Germany for purposes of establishing a value for Hungarian inland freight rates.

#### Respondent's Comments

Comment #1: Respondent contends that constructed value (based upon factors of production) is the most appropriate methodology for calculating foreign market value in this investigation. Respondent also believes that Portugal is the most appropriate surrogate country.

DOC position: For reasons set forth in "DOC Position" section of the petitioner's comment #1, we agree.

Comment #2: Respondent feels that, in calculating a constructed foreign market value, the amount added for factory overhead should be based on experience in the surrogate market-economy country, in this case Portugal.

DOC position: We agree. The Department developed, for purposes of its final determination, an amount for overhead based on best information available which was the experience in Portugal of a company in the metals processing industry. We added this amount for overhead to the direct costs of production for purposes of determining foreign market value.

Comment #3: Respondent questions the Department's basing MGM's packing costs on information supplied in the investigation involving TRBs from Italy. Two reasons cited are: One, Italy is not at a stage of economic development comparable to that of Hungary and, therefore, was not chosen by the Department as a possible surrogate in this investigation; two, respondent fears that double-counting of such items as containerization and packing labor will occur.

DOC position: Since we were not able to obtain the information necessary to value packing data in a surrogate country, we have used as best information available the packing cost information in the public response of an Italian TRB producer. Since the cost of containerization in Hungary was included in the freight forwarder costs, containerization costs have been deducted from the Italian packing costs. Packing labor has been excluded from the direct labor input.

Comment #4: Respondent argues that the Department should not use the pricing data supplied by the petitioner because the data is unverified, is unsolicited, and is supplied by a company related to or controlled by an interested party to this investigation.

DOC Position: For reasons set forth in the "DOC Position" section of petitioner's comment #2, we have not used the information supplied by the petitioner.

Comment #5: Respondent maintains that the factors of production information it provided for the Diosd factory is a sufficient basis for an accurate and complete constructed value calculation.

DOC Position: For reasons set forth in the "DOC Position" section of petitoner's comment #4, we agree.

Comment #8: Respondent holds that the Department's use (for purposes of the preliminary determination) of the convertible currency prices actually paid for steel inputs from West European supplier was correct and will yield the most accurate foreign market value for purposes of the final determination.

DOC position: For reasons set forth in the "DOC Position" section of petitioner's comment #10, we agree. Comment #7: Respondent supports the Department's method of valuing inland freight based on rates in the surrogate country (Portugal). Respondent believes that this approach should be used for the final determination.

DOC position: For reasons established in the "DOC Position" section of petitioner's comment #11, we agree and have used inland freight data valued in Portugal for purposes of our final determination.

Interested Party Comments

Comments #1: Marsuda-Rodgers (an importer of TRBs from Hungary) contends that, although some Hungarian and domestically-produced TRBs may share identical identification numbers, they are not necessarily interchangeable. Marsuda-Rodgers points out that domestically-produced TRBs are case-carburized as opposed to Hungarian-produced TRBs, which are through-hardened. Marsuda-Rodgers asserts that case-carburized TRBs (produced domestically, not in Hungary), because of their inherent capacity to withstand high pressure usage, can command a higher price in the market and, therefore, cannot reasonably be compared to Hungarian TRBs, which are not as well-suited for high-pressure situations.

Therefore, if the Department uses price-to-price comparisons for purposes of its final determination, and uses case-carburized TRBs produced in a surrogate country as a basis for foreign market value, it should devise a method for making adjustments for differences in the subject merchandise.

DOC position: As we are not basing our final determination upon price-to-price comparisons, but rather on constructed value based upon factors of production, this issue need not be addressed for purposes of our final determination.

# Negative Determination of Critical Circumstances

On February 25, 1987, counsel for petitioner alleged that imports of TRBs from Hungary present "critical circumstances." In determining whether critical circumstances exist, section 735(a)(3) of the Act requires that we examine whether:

(A)(i) there is a history of dumping in the United States or elsewhere of the class or kind of merchandise which is the subject of the investigation; or

(ii) the person by whom, or for whose account, the merchandise was imported knew or should have known that the exporter was selling the merchandise which is the subject

of the investigation at less than fair value; and

(B) there have been massive imports of the class or kind of merchandise which is the subject of the investigation over a relatively short period.

Pursuant to section 735(e)(1)(A), we reviewed past antidumping findings of the Department of Treasury as well as past Department of Commerce antidumping orders to determine whether there is a history of dumping of TRBs from Hungary in the United States or elsewhere. There have been no past United States antidumping determinations on TRBs from Hungary. We also reviewed the antidumping actions of other countries made available to us through the Antidumping Code Committee established by the General Agreement on Tariffs and Trade. We found no history of this product being dumped from Hungary.

We then considered whether the persons by whom, or for whose account, this product was imported knew or should have known that it was being sold at less than fair value. We have no evidence that the importers had such knowledge. Nor is the weighted-average margin found in our final determination (7.42 percent) sufficiently large in and of itself for us to assume that the importers should have known that the product was being sold at less than fair value. Accordingly, having failed the first prong of the test, there is no need to consider whether the second prong, massive imports, under section 735 (e)(1)(B) of the Act applies.

For reasons described above, we have determined that "critical circumstances" do not exist with respect to TRBs from Hungary.

# Continuation of Suspension of Liquidation

In accordance with section 735(d) of the Act, we are directing the United States Customs Service to continue to suspend liquidation of all entries of TRBs from Hungary that are entered or withdrawn from warehouse, for consumption, or or after the date of publication of this notice in the Federal Register. The Customs Service shall require a cash deposit or the posting of a bond on all such entries equal to the estimated weighted-average amount by which the foreign market value of the merchandise subject to this investigation exceeds the United States price, which is 7.42 percent of the exfactory value. This suspension of liquidation will remain in effect until further notice.

#### ITC Notification

In accordance with section 735(d) of the Act, we have notified the ITC of our determination. In addition, we are making available to the ITC all nonprivileged and nonconfidential information relating to this investigation. We will allow the ITC access to all privileged and business proprietary information in our files, provided the ITC confirms that it will not disclose such information, either publicly or under an administrative protective order, without the written consent of the Deputy Assistant Secretary for Import Administration. The ITC will make its determination whether these imports materially injure. or threaten material injury to, a U.S. industry within 45 days of the date of this determination. If the ITC determines that material injury, or threat of material injury, does not exists, this proceeding will be terminated and all securities posted as a result of the suspension of liquidation will be refunded or cancelled.

However, if the ITC determines that such injury does exist, we will issue an antidumping duty order directing Customs Officers to assess an antidumping duty on TRBs from Hungary entered, or withdrawn from warehouse, for consumption on or after the date of suspension of liquidation, equal to the amount by which the foreign market value of the merchandise exceeds the United States price.

This determination is published pursuant to section 735(d) of the Act (19 U.S.C. 1673d(d)).

#### Paul Freedenberg,

Assistant Secretary for Trade Administration. May 4, 1987.

[FR Doc. 87-10533 Filed 5-7-87; 8:45 am] BILLING CODE 3510-DS-M

#### [A-485-602]

Final Determination of Sales at Less Than Fair Value; Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From the Socialist Republic of Romania

AGENCY: Import Administration, International Trade Administration, Commerce.

**ACTION:** Notice.

SUMMARY: We have determined that tapered roller bearings and parts thereof, finished or unfinished (tapered roller bearings), from the Socialist Republic of Romania (Romania) are being, or are likely to be, sold in the United States at less than fair value. We have also determined that critical

circumstances do exist in this investigation. We have notified the U.S. International Trade Commission (ITC) of our determination, and we have directed the U.S. Customs Service to continue to suspend the liquidation of all entries of the subject merchandise that are entered, or withdrawn from warehouse, for consumption on or after the date of publication of this notice, and to require a cash deposit or bond for each such entry in an amount equal to the estimated dumping margin as described in the "Continuation of Suspension of Liquidation" section of this notice.

EFFECTIVE DATE: May 8, 1987.

#### FOR FURTHER INFORMATION CONTACT: Mary Jenkins (202/377-1756) or John R. Brinkmann (202/377-3965), Office of Investigations, Import Administration, International Trade Administration, U.S. Department of Commerce, 14th Street

and Constitution Avenue, NW., Washington, DC 20230.

#### SUPPLEMENTARY INFORMATION:

#### Final Determination

We have determined that tapered roller bearings from Romania are being, or are likely to be, sold in the United States at less than fair value, as provided in section 735 of the Tariff Act of 1930, as amended (the Act) (19 U.S.C. 1673d(a)). The weighted average margin of sales at less than fair value is 8.70 percent.

#### **Case History**

On August 25, 1986, we received a petition in proper form filed by the Timken Company, on behalf of the U.S. industry producing tapered roller bearings. In compliance with the filing requirements of § 353.36 of the Commerce Regulations (19 CFR 353.36), the petition alleged that imports of the subject merchandise from Romania are being, or are likely to be, sold in the United States at less than fair value within the meaning of section 731 of the Act, and that these imports are causing material injury, or threaten material injury, to a United States industry.

After reviewing the petition, we determined that it contained sufficient grounds upon which to initiate an antidumping duty investigation. We initiated such an investigation on September 15, 1986 (51 FR 33287, September 19, 1986) and notified the ITC of our action.

On October 2, 1986, the ITC determined that there is a reasonable indication that imports of tapered roller bearings from Romania are materially

injuring a United States industry (U.S. ITC Pub. No. 1899, October 16, 1986).

On November 3, 1986, a questionnaire was presented to the Embassy of Romania. On December 22, 1986, we received a response from Tehnoimportexport, the only known exporter of the subject merchandise from Romania to the United States. Supplemental responses were received on January 20, 1987, and February 23, 1987.

As discussed under the "Foreign Market Value" section of this notice, we have determined that Romania is a state-controlled-economy country for the purpose of this investigation.

On February 2, 1987, we made an affirmative preliminary determination (52 FR 3838, February 6, 1987).

On February 25, 1987, petitioner alleged that "critical circumstances" exist with respect to imports of tapered roller bearings from Romania. We conducted verification in Bucharest and Brasov, Romania, March 9 through March 13, 1987. A hearing we held on March 26, 1987. On March 27, 1987, we made a preliminary affirmative determination of "critical circumstances" (52 FR 11303, April 8, 1987). On March 30, 1987, respondent requested a two-week extension of the final determination. We granted that request and postponed the final determination until May 4, 1987 (52 FR 11722, April 10, 1987).

As required by the Act, we afforded interested parties an opportunity to submit written comments to address the issues arising in this investigation.

#### Scope of Investigation

The products covered by this investigation are tapered roller bearings (TRBs), currently classified under Tariff Schedules of the United States (TSUS) item numbers 680.30 and 680.39; flange, take-up cartridge, and hanger units incorporating tapered roller bearings currently classified under TSUS item number 681.10; and tapered roller housings (except pillow blocks) incorporating tapered rollers, with or without spindles, whether or not for automotive use, and currently classified under TSUS item numbers 692.32 or elsewhere in the TSUS.

#### Fair Value Comparisons

Because Tehnoimportexport accounted for all sales of this merchandise from Romania, we limited our investigation to that company.

To determine whether sales of the subject merchandise in the United States were made at less than fair value, we compared the United States price with the foreign market value. We

investigated sales of TRBs for the period September 1, 1985, through August 31, 1986. We used a twelve-month period of investigation because the respondent had insufficient sales in the original sixmonth period of investigation.

#### **United States Price**

As provided in section 772 of the Act, we used the purchase price of the subject merchandise to represent the United States price for sales by Tehnoimportexport because the merchandise was sold to unrelated purchasers prior to its importation into the United States.

We calculated the purchase price based on the f.o.b. Romanian port price to unrelated purchasers. We made deductions for foreign inland freight, and handling and loading charges.

In accordance with the policy set forth in our final determination in the investigation of Carbon Steel Wire Rod from Poland (49 FR 29434, July 20, 1984), we based the inland freight deduction on similar charges incurred in a non-state-controlled-economy country, Portugal. Handling and loading were based on best information available, which was the publicly available actual handling and loading charges paid by a Hungarian exporter for TRB exports to the United States.

#### Foreign Market Value

Petitioner alleged that Romania is a state-controlled-economy country and that sales of the subject merchandise in that country do not permit a determination of foreign market value under section 773(a) of the Act. After an analysis of the Romanian economy, and consideration of the briefs submitted by the parties, we concluded that Romania is a state-controlled-economy country for purposes of this investigation. Basic to our decision on this issue is the fact that the central government of Romania controls the prices and levels of production of the TRB industry, as well as the internal pricing of the factors of

As a result, section 773(c) of the Act requires us to use prices or the constructed value of such or similar merchandise in a "non-state-contolled-economy" country. The statute stipulates that, to the extent possible, we should use sales prices or constructed value in a "non-state-controlled-economy" country at a stage of economic development comparable to the country with the state-controlled economy.

We subsequently determined that Argentina, Brazil, Mexico, Portugal and Yugoslavia would be the most appropriate surrogates. South Korea and

Spain were selected as alternative surrogates. We sent questionnaires requesting assistance in this investigation to producers of TRBs in Argentina, Brazil, Mexico, South Korea and Spain. We did not send questionnaires to Portugal because there were no TRB producers in that country. We did not send questionnaires to Yugoslavia because we are currently conducting an antidumping duty investigation on TRBs from the country. Although the Department made numerous efforts to attain the cooperation of these potential surrogate respondents, we received no response from any company to which the Department sent questionnaires.

Following the Department's hierarchy of preferences under § 353.8(a), we analyzed the import prices from the comparable non-state-controlled-economy countries. In this case, we found the applicable Department of Commerce statistics for the subject merchandise were based on categories that were too broad to make specific comparisons. Additionally, U.S. imports from the surrogate countries where there were measurable imports may have benefited from export subsidies, which would make them inappropriate for foreign market value calculations.

Since we were unable to obtain verifiable prices or constructed value data from the potential surrogate companies in comparable economies, we used the factors of production valued in a comparable economy, as provided for in § 353.8(c), as the basis of foreign market value. We calculated constructed value based on the factors of production reported by Tehnoimportexport on behalf of the Romanian producers which account for 100 percent of the exports to the United States of the subject merchandise.

We used the best information available for valuing the factors of production. Where possible, best information available was obtained from publicly available sources in Portugal or from a surrogate company in the metals processing industry in Portugal. We chose Portugal as the surrogate for purposes of valuation of the factors of production because we were able to obtain more complete publicly available data from that country as opposed to the other surrogate countries. We valued direct factory overhead and raw materials for certain TRB components from information obtained from the surrogate company in Portugal. Other raw material costs for Romania factors of production were based on the average prices obtained from publicly available

import prices paid by a Hungarian producer of TRBs for imports of certain steel products from market economies: or the average invoice price charged by the petitioner in the United States for certain grades and sizes of steel. Labor value was based on average fully loaded labor rates provided by the American Embassy in Portugal. This rate was corroborated by labor rates obtained from the Bureau of Labor statistics for the Portugal metals processing industry. Packing was obtained from date in the public version of the response of a market-economycountry TRB producer involved in a current antidumping duty investigation. We used the statutory minimum of 10 percent of the sum of material and production costs for general, sales and administrative expenses and the statutory minimum of eight percent for profit.

When using surrogate country data, we made currency conversions in accordance with § 353.56(a)(1) of our regulations, using certified exchange rates as furnished by the Federal Reserve Bank of New York.

#### Verification

As provided in section 776(a) of the Act, we verified information provided by the respondent, using standard verification procedures, including examination of accounting records and original source documents containing relevant information on selected sales.

#### Comments Section

Petitioner's Comments

Comment #1: Petitioner argues that the Department may not use the factors of production constructed value method provided for in § 353.8(c) of the Commerce regulations as the basis for foreign market value in this investigation.

Petitioner contends that § 353.8 (a) and (b) of the Commerce regulations establishes a hierarchy for determining foreign market value in which prices and constructed value of such or similar merchandise take preference over the factors of production constructed value method under § 353.8(c). The Department must first consider prices and constructed value of such or similar merchandise under § 353.8 (a) and (b) in the following order of preference: (1) A non-state-controlled-economy country at a stage of economic development comparable to the state-controlledeconomy country from which the merchandise is exported; (2) a non-statecontrolled-economy country not necessarily at a stage of economic development comparable to the statecontrolled-economy country, other than the United States, suitably adjusted for known differences in costs of materials and labor; and (3) the United States. According to the petitioner, the Department must exhaust all of these established preferences before resorting to the factors of production approach.

DOC position: We disagree. Petitioner's hierarchy of methods for calculating foreign market value, under which the factors of production constructed value approach would be a last resort, as based upon a misconception of 19 CFR 353.6 and applicable precedent. The Commerce regulation and past Departmental practice does establish a preference for the use of comparable economy sales prices and constructed value as the basis for foreign market value. However, it is not true, as petitioner claims, that under § 353.8(b) foreign market value based on sales prices or constructed value in a non-state-controlled-economy country not at a comparable stage of economic development are preferable to the factors of production constructed value approach under § 353.8(c).

Section 353.8(b)(1) of the regulations makes clear that the preference in favor of sales prices is tempered by the overriding preference for ascertaining foreign market value by reference to comparable non-state-controlled economies. Chemical Products Corp. v. United States, 12 CIT_____Slip Op. 88-97 (September 28, 1986). The Department would arrive at § 253.8(b)(2) only after it has exhausted the pricing and constructed value options in comparable economies, i.e., under § 353.8 (a) and (c).

In this case, verifiable and otherwise acceptable surrogate sales price and constructed value information was not available from TRB producers in any of the non-state-controlled-economy countries determined by the Department to be at stages of economic development comparable to that of Romania. The Department sent surrogate questionnaires to seven firms in these countries. None of these firms were willing to provide the information speekt in the questionnaire (See DOC response to petitioner's comment #2 for the Department's position with respect to price and constructed value data provided by the petitioner). (See BOC response to petitioner's comment #3 for the Department's handling of prices obtained from U.S. import statistics.) However, the Department was able to obtain and verify the respondent's factors of production information and value such information in a comparable economy. Therefore, factors of production constructed value methodology has been used for purposes of determining foreign market value with respect to the final determination in this investigation.

Comment #2: Petitioner argues that. since the Department was unable to obtain verifiable prices and constructed value information from the TRB producers in comparable surrogates to whom it sent questionnaires, the Department must use the surrogate country price and constructed value information provided by the petitioner. The petitioner has supplied the Department with price lists for almost all the TRB part numbers exported by the respondent from almost all of the surrogate countries chosen by the Department. In addition, petitioner's subsidiary in a surrogate country has voluntarily responded to the Department's questionnaire, furnishing verifiable data on both its home market sales and its cost of production.

DOC position: In selecting potential surrogate respondents, the Department initially identified five flater increased to seven) comparable (surrogate) economies. The Department requested and received assistance from both the petitioner and respondent in identifying TRB producers in those seven surrogate countries. Ultimately, the Department identified fourteen TRB producers and sent seven TRB producers in five surrogate countries questionnaires requesting pricing, constructed value and valuation of factors of production information. No questionnaires were sent to the other seven TRB producers because they were either: (1) Located in a country subject to a current antidumping investigation: (2) identified as being related to a company subject to a current antidomping investigation on TRBs; or (3) identified as being related to the petitioner in this proceeding.

The Department used these criteria for eliminating TRB producers after determining that the relationship of TRB producers to the petitioner or other parties subject to an antidumping proceeding might raise questions as to the propriety of the information submitted. Furthermore, the Department determined that it had an adequate number of TRB producers to whom to send questionnaires.

The petitioner was aware of the Department's selection of surrogate producers and did not submit objections to the Department's rejection of potential surrogate respondents at the time the questionnaires were sent out. The petitioner first raised objections to the Department's surrogate selections after the preliminary determination.

Additionally, with the possible exception of the voluntary response of

the petitioner's subsidiary in a surrogate country which "volunteered" to be verified, none of the price list data submitted by the petitioner is verifiable. It is not our practice to use price lists for comparison purposes, nor do we have sufficient verifiable information to allow us to make the necessary adjustments to these prices. With regard to the petitioner's subsidiary's response, we note that the response was not received until one month after the Department's preliminary determination. It has been the Department's position that, in order to be considered in a final determination, a complete and full voluntary response must be recieved by the date of the preliminary determination.

Comment #3: Petitioner contends that under § 353.8(a), the Department must consider U.S. import statistics for TRBs from the selected surrogate countries before considering use of factors of production. Such imports statistics have been used in prior non-market-economy investigations where the Department has been unable to obtain surrogate country producer prices, as being representative of third country prices from the surrogate country.

DOC position: We disagree that the use of import statistics is appropriate in this investigation. Although the subject TSUS numbers do cover complete sets of TRBs, as well as TRB cups and cones, these tariff categories cover a great range of dimensions. Additionally, imports from the surrogate countries, where there were measurable imports, benefited from export subsidies, which makes them inappropriate for foreign market value calculations.

Comment #4: Petitioner contends that factors of production, to the extent they are based on the Romanian response. should include the weighted average cost components from both the Brasov and Alexandria plants, which export TRBs to the United States, as well as the two other paints which do not export TRBs to the United States. Petitioner claims that it is not consistent with Department precedent to limit the average only to TRB production facilities producing for export to the United States.

DOC position: Although the Department did initially request factors of production data from Tehnoimportexport for all plants, subsequent submissions by Tehnoimportexport led the Department to revise that request to cover the Brasov and Alexandria factories only. The Department's past practice in determining which factories in a nonmarket-economy investigation would be required to submit factors of production

data has been to first gather information (which would be subject to verification) on each factory's production capacity, production processes, products produced, volume of domestic and export sales and age of the factory. Based on this data, the Department would decide which plant or plants would be required to submit the factors

of production information.

In this investigation, the Department made the decision to limit the reporting of factors to these two plants based on the data submitted which indicated that these plants accounted for 100 percent of sales of the size the type of TRBs exported to the United States from Romania. The subsequent verification established to the Department's satisfaction that this representation was correct. Accordingly, where both plants produced the same TRB, we have weight averaged the factors of production in calculating foreign market value.

Comment #5: Petitioner argues that the Department is precluded from using the factors of production constructed value method because § 353.8(c) provides that it should be used where "such or similar merchandise *is not* produced" in a comparable marketeconomy country, and in this case such or similar merchandise is produced in such countries.

DOC position: We disagree. None of the seven producers in surrogate countries to which we sent questionnaires were willing to provide the Department with the price and constructed value information which we sought. We consider the absence of surrogate producer responses tantamount to a situation in which such or similar merchandise is not produced in a comparable market-economy country. See, Barium Carbonate from the People's Republic of China, 49 FR 33913 (1984).

Comment #6: Petitioner asserts that if the Department persists in using factors of production, constructed value should be based upon costs and expenses incurred in Brazil in the production of bearings, not those incurred generally in Portugal. Petitioner states that the Department is prohibited by statute from using Portugal, a country which has no TRB industry, as a surrogate for valuing the factors of production. The applicable statute provides for the Department's use of constructed value only with respect to "such or similar merchandise" in a non-state-controlledeconomy country.

DOC position: We disagree. In cases involving state-controlled-economy countries, we devise our list of potential surrogates on the basis of the comparability of their economies to that of the state-controlled-economy country under investigation, not on the presence or absence of an industry within that potential surrogate producing such or similar merchandise to that which is subject to the investigation. The Department valued the factors of production data in Portugal because it was the comparable surrogate country from which the most complete data was available. The Department did not use the constructed value information provided by the petitioner for its subsidiary in Brazil for reasons stated in the Department's response to petitioner's comment #2.

Comment #7: Petitioner contends that the Department's preliminary determination methodology for calculating direct factory overhead seriously understated the factory overhead element of the constructed value by omitting various cost categories. Petitioner contends that in valuing the factory overhead in an appropriate surrogate the Department should independently value such cost categories as energy utilization, tools, lubricants, work clothes, maintenance materials, machines, equipment and buildings, natural gas, depreciation, contracted repair, and other factory overhead. The factory overhead experience of the petitioner's subsidiary in Brazil, a surrogate country chosen by the Department, as well as-that of the petitioner itself and several Japanese producers, is indicative of an appropriate factory overhead rate which is inclusive of these cost categories.

DOC position: We disagree with the petitioner's requirement that all elements of factory overhead be individually valued. The Department has obtained, and used as the best information available, a factory overhead rate from a surrogate company in the metal processing industry in Portugal. This overhead rate is expressed as a percentage of cost of goods sold and as such is inclusive of all elements of factory overhead.

With regard to petitioner's request that we use the average factory overhead experience of Japan and the United States as being representative of the Romanian industry, the Department considers the factory overhead experience of a surrogate company in a comparable-economy country (notwithstanding the fact that the company is not involved in the production of TRBs) preferable to the alternatives offered by the petitioner.

We are required to select a comparable economy in which to value the factors of production information. The rationale behind selecting a

comparable economy is that the experience of a producer in a comparable-economy country is reflective of the same degree of economic and industrial development as that of a producer in a non-marketeconomy country. The United States and Japanese overhead ratios offered by the petitioner, on the other hand, are for fully industrialized economies whose TRB producers use highly automated. state-of-the-art production equipment, in which factory overhead is high and direct labor low. The Romanian production facilities use less automated and less sophisticated machinery and are much more labor intensive. In such instances, direct factory overhead would be lower and direct labor higher than for U.S. and tapanese TRB producers.

For reasons stated in the "DOC Position" section to petitioner's comment #2, we have not considered the data submitted by the respondent for

its subsidiary in Brazil.

Comment #8: In calculating foreign market value, the Department should adjust the foreign prices to account for differences in the circumstances of sale between sales in the United States and sales in the foreign market for expenses for credit, warranties, commissions, technical services, and advertising. To adjust for differences in circumstances of sales, the Department should deduct from foreign market value the cost of these expenses in the home market of the surrogate country, and then add to foreign market value the cost of these expenses on sales by the producer under investigation to the United States. See, e.g., Potassium Chloride from the Union of Soviet Socialist Republics (50 FR 4562, 4563, 1985).

These adjustments should be based on the experience of the petitioner's TRB

subsidiary in Brazil.

DOC position: We disagree. In this investigation the Department has valued factors of production in a comparable surrogate country using the best information available. The specificity of the data obtained for valuing the factors is not sufficient enough for us to identify the directly related selling expense adjustments which would have to be made to foreign market value for both U.S. price and constructed value. Absent specific information that the respondent incurs extraordinary directly related selling expenses for its U.S. sales, the Department assumed, as best information available, that ordinary and similar selling expenses occur in both markets and, as such, affect one

For reasons stated in the "DOC Position" to petitioner's comment #2, we have not considered the data submitted by the petitioner for its subsidiary in Brazil.

Respondent's Comments

Comment #1: If the Department makes price-to-price comparisons between Romanian TRBs and those of other TRB producers, it must make an adjustment for physical differences in merchandise.

DOC position: As the Department is not basing its final determination upon price-to-price comparisons, but rather on constructed value based upon factors of production, this issue is moot.

We note, however, that in valuing the factors of production, the Department did take into account the various grades of steel used by the Romanian TRB producers. In this regard, the physical differences in merchandise are accounted for in the constructed value calculation.

Comment #2: Respondent contends that, since Romanian steel inputs are sourced domestically, expenses such as freight, insurance and import duties and taxes are not incurred, and the inclusion of these items in the valuation of steel imported into Portugal artificially inflates the value of the imput. Therefore, respondent argues that these additional costs would increase the value of the input by adding costs which would not be applicable to domestically sourced (Romanian) raw material.

DOC position: We disagree. When using constructed value based on the factors of production, the Department is required to value the factors of production, primarily, labor, raw materials, and energy, in the comparable economy. The value assigned to these factors is dependent upon the cost of such factors in the comparable economy. In those situations in which the comparable economy surrogate imports the raw materials, as is the case here, all costs associated with the cost of importation should remain in the value used.

Comment #3: Respondent contends that the Department, in its preliminary determination, inadvertently included in the labor cost calculation the labor hours required with respect to packing the TRBs in Romania.

Respondent claims that, since an additional charge was ultimately added for packing, the labor costs for packing were essentially double counted. Therefore, respondent feels that, for purposes of the final determination, such packing labor should not be included in the calculation of labor costs with respect to the production costs of the merchandise.

DOC position: We agree. For purposes of our final determination, packing costs have been excluded from the direct labor input element of factors of production. This measure will prevent the occurrence of double-counting.

Comment #4: Respondent contends that the wage information used by the Department for purposes of the preliminary determination is unreasonably high.

Respondent base its assertion on what it perceives to be the difference between wage information for the primary metal and fabricated metal products industry in the surrogate used in this investigation, Portugal, and wage information with respect to the TRB industry in Romania.

Respondent feels that wage rates incurred in producing TRBs in Romania are relatively low (due to the relatively high level of low-skilled labor employed) in comparison to the surrogate value which was based upon wage information which was not restricted to the production of TRBs but encompased a wide variety of products. Accordingly, respondent feels that such surrogate information should be adjusted to reflect the fact that the relatively low level of skill involved in the production of TRBs necessarily results in lower wages being paid to the employees involved in such production.

DOC position: We disagee. The respondent did not provide the Department with information which would indicate the various skill levels involved in the production of TRBs. Accordingly, we have applied an average labor rate obtained for the fabricated metals industry in our surrogate, Portugal.

Comment #5: Respondent argues that the Department's preliminary determination of massive imports was erroneous for several reasons. First, they note that both the import penetration level and the actual volume of imports decreased in 1986. Second, the percentage increase in imports after filing of the petition was insignificantly greater than the percentage increase during the same period of 1985. Third, the value figures are meaningless because changes in value only reflect changes in product mix, not necessarily changes in the amount imported. Finally, they note that all shipments during this period were subject to long term contracts signed long before the filing of the petition and, therefore, clearly not an attempt to anticipate the preliminary determination. Additionally, two U.S. customers of the respondent argue that the increase after the filing of the

petition is accounted for by seasonal

ycles.

DOC position: We continue to believe that massive imports exist for purposes of the critical circumstances determination. First, while import penetration levels and the actual volume of imports are factors to be considered, they are not determinative. The purpose of the critical circumstances provision is to prevent attempts to circumvent the suspension of liquidation by stockpiling imports prior to the preliminary determination. As such, the behavior after filing the petition and before the date of the preliminary determination is critical. Import penetration levels and actual valumes can help establish a trend. Here, they do not. We note that both increased substantially in 1985 from the 1984 levels, then decreased somewhat to the 1986 levels. This demonstrates no trend.

Second, the change in volume from the period immediately before the filing of the petition to the period immediately following the filing is the single most important factor we consider. Here, the increase was 109.28 percent. This increase cannot be called insignificant. We did note increases during the same periods in 1984 and 1985 of 19.58 percent and 85.32 percent, respectively. Some of this increase may be accounted for by seasonal cycles but no evidence has been submitted to support this. Even if there was a seasonal increase, we do not believe it would account for all of the increase. Seasonally adjusted statistics would still show a significant increase after the filing of the petition supporting a finding of massive imports.

Third, we agree that value figures may not accurately reflect the situation, and have given them little weight in our consideration. However, to the extent that we did consider them, they, too, indicate massive imports.

Finally, we do not believe that the existence of long term contracts in this case precludes a finding of massive imports. Most of the contracts we examined did not provide a binding schedule of shipments. Respondent itself noted that, where schedules were included, shipments could be, and were, cancelled. Thus, we find the contracts do not account for the import pattern and we find that the level of imports may have been affected by the filing of the petition. For these reasons, we maintain that there were massive imports for the purposes of the critical circumstances determination.

Comment #6: Petitioner's allegation of critical circumstances is not supported by substantial evidence because its allegation of a history of dumping is based on an investigation in the

European Community covering far more products than those subject to this investigation. The low margins found at the preliminary determination in this case demonstrate that there is no basis to conclude the importers knew or should have known of the dumping of TRBs from Romania. The small market share of Romanian TRBs, and the fact that shipments during the period of investigation are all made pursuant to earlier contracts, show that imports have not been massive.

DOC position: We disagree, See the section of this notice entitled Final Affirmative Determination of Critical Circumstances.

#### Interested Party Comments

Comments #1: Marsuda-Rodgers (an importer of TRBs from Romania) contends that, although some Romanian and domestically-produced TRBs, may share identical identification numbers. they are not necessarily interchangeable. Marsuda-Rodgers asserts that domestically-produced TRBs are physically superior to Romanian TRBs and notes that the petitioner in this investigation, in its product brochures, points out the relative superiority of TRBs produced domestically, Marsuda-Rodgers asserts that the higher quality domesticallyproduced TRBs because of their inherent capacity to withstand high pressure usage, can command a higher price in the market and, therefore, cannot reasonably be compared to Romanian TRBs, which are not as well-suited for high-pressure situations.

Therefore, if the Department uses price-to-price comparisons for purposes of its final determination, and uses case-carburized TRBs produced in a surrogate country as a basis for foreign market value, it should devise a method for making adjustments for differences in the subject merchandise.

DOC position: As we are not basing our final determination upon price-to-price comparisons, but rather on constructed value based upon factors of production, this issue need not be addressed for purposes of our final determination.

# Final Affirmative Determination of Critical Circumstances

In determining whether critical circumstances exist, section 735(a)(3) of the Tariff Act of 1930, as amended (the Act) (19 U.S.C. 1673(a)(3) requires that we examine whether:

(A)(i) there is a history of dumping in the United States or elsewhere of the class or kind of merchandise which is the subject of the investigation; or

(ii) the person by whom, or for whose account, the merchandise was imported knew or should have known that the exporter was selling the merchandise which is the subject of the investigation at less than fair value; and

(B) there have been massive imports of the class or kind of merchandise which is the subject of the investigation over a relatively short period.

Pursuant to section 735(a)(3), we reviewed past antidumping findings of the Department of Treasury as well as past Department of Commerce antidumping orders to determine whether there is a history of dumping of TRBs from Romania in the United States. There have been no past United States antidumpting determinations on TRBs from Romania. We also reviewed the antidumping actions of other countries made available to us through the Antidumping Code Committee established by the Agreement on Implementation of Article VI of the General Agreement on Tariffs and Trade. We found that the Commission of European Communities (EC) made a preliminary determination of dumping and injury. Subsequently, on June 4, 1981, the EC and Romania entered an undertaking with respect to roller bearings. On April 15, 1986, this undertaking was terminated. (Official Journal of the European Communites, No. L 102-31, April 18, 1986. We have therefore determined, based on this EC undertaking, that there is a history of dumping of the class or kind of merchandise which is the subject of this investigation. Accordingly, we do not have to consider whether the persons by whom, or for whose account, this product was imported knew or should have known that it was being sold at less than fair value under section 735(a)(3) of the Act.

Pursuant to section 735(a)(3)(B), we generally consider the following data in order to determine whether massive imports have taken place over a short period of time: (1) The volume and value of the imports; (2) seasonal trends; and (3) the share of the domestic consumption accounted for by the imports. We found that imports have been massive since the filing of the petition even though total volume and value have decreased since 1985. Import penetration was not available for the second half of 1986.

For the reasons described above, we maintain that "critical circumstances" exist with respect to TRBs from Romania.

# Continuation of Suspension of Liquidation

In accordance with section 735(d) of the Act, we are directing the United States Customs Service to continue to suspend liquidation of all entries of TRBs from Romania that are entered or withdrawn from warehouse, for consumption, on or after the publication date of this notice in the Federal Register. The Customs Service shall require a cash deposit or the posting of a bond on all such entries equal to the estimated weighted-average amount by which the foreign market value of the merchandise subject to this investigation exceeds the United States price, which is 8.70 percent of the exfactory value. Since we have made a final affirmative critical circumstances determination, we are countinuing the retractive suspension of liquidation ordered by our March 27, 1987, preliminary affirmative critical circumstances determination. The effective date for the suspension of liquidation of this investigation is November 7, 1986, ninety days prior to the date of publication of our preliminary affirmative determination of sales at less than fair value.

This suspension of liquidation will remain in effect until further notice.

#### **ITC** Notification

In accordance with section 735(d) of the Act, we have notified the ITC of our determination. In addition, we are making available to the ITC all nonprivileged and nonproprietary information relating to this investigation. We will allow the ITC access to all privileged and business proprietary information in our files, provided the ITC confirms that it will not disclose such information, either publicly or under an administrative protective order, without the written consent of the Deputy Assistant Secretary for Import Administration. The ITC will make its determination whether these imports materially injure, or threaten material injury to, a U.S. industry within 45 days of the date of this determination. If the ITC determines that material injury, or threat of material injury, does not exist, this proceeding will be terminated and all securities posted as a result of the suspension of liquidation will be refunded or cancelled.

However, if the ITC determines that such injury does exists, we will issue an antidumping duty order directing Customs Officers to assess an antidumping duty on TRBs from Romania entered, or withdrawn from warehouse, for consumption on or after

the date of suspension of liquidation, equal to the amount by which the foreign market value of the merchandise exceeds the United States price.

This determination is published pursuant to section 735(d) of the Act (19 U.S.C. 1673d(d)).

#### Paul Freedenberg,

Assistant Secretary for Trade Administration. May 4, 1987. [FR Doc. 87–10532 Filed 5–7–87; 8:45 am]

BILLING CODE 3510-DS-M

#### International Trade Administration

[A-570-601]

Tapered Roller Bearings From the People's Republic of China; Final Determination of Sales at Less Than Fair Value

AGENCY: International Trade Administration, Import Administration, Commerce.

**ACTION:** Notice.

SUMMARY: We have determined that tapered roller bearings from the People's Republic of China (PRC) are being, or are likely to be, sold in the United States at less than fair value. The U.S. International Trade Commission (ITC) will determine, within 45 days of publication of this notice, whether these imports are materially injuring, or are threatening material injury to a United States industry.

EFFECTIVE DATE: May 27, 1987.

FOR FURTHER INFORMATION CONTACT: Michael Ready or Mary S. Clapp, Office of Investigations, Import Administration, International Trade Administration, U.S. Department of Commerce, 14th Street and Constitution Avenue, NW., Washington, DC 20230; telephone (202) 377–2613 or 377–1769.

#### SUPPLEMENTARY INFORMATION:

#### Final Determination

We have determined that tapered roller bearings from the PRC are being, or are likely to be, sold in the United States at less than fair value as provided in section 735 of the Tariff Act of 1930, as amended (19 U.S.C. 1673d) (the Act). The weighted-average margin is .97 percent. No margins were found on exports by China National Machinery & Equipment Import & Export Corporation. Therefore, this exporter is excluded from this determination.

#### **Case History**

We published a preliminary determination of sales at less than fair value on February 6, 1987 (52 FR 3833). Since then the following events have occurred:

On February 17, 1987, the respondent requested a postponement of the final determination. We granted this request and postponed the due date for the final determination until no later than May 20, 1987 (52 FR 8088, March 18, 1987).

As required by the Act, we afforded interested parties an opportunity to submit oral and written comments addressing the issues arising in this investigation. On April 30, 1987, we held a public hearing to allow parties to address the issues.

#### Scope of Investigation

The products covered by this investigation are tapered roller bearings and parts thereof, currently classified in Tariff Schedules of the United States (TSUS) item numbers 680.30 and 680.39; flange, take up cartridge, and hanger units incorporating tapered roller bearings, currently classified in TSUS item 681.10; and tapered roller housings (except pillow blocks) incorporating tapered roller, with or without spindles, whether or not for automotive use, currently classified in TSUS item number 692.32 or elsewhere in the TSUS.

#### Fair Value Comparisons

Because CMEC and Premier accounted for all sales of this merchandise from the PRC, we limited our investigation to them. To determine whether sales of the subject merchandise in the United States were made at less than fair value, we compared the United States prices with the foreign market value. We investigated all sales of the subject merchandise for the period September 1. 1985. through August 31, 1988. We used a twelve-month period of investigation because the respondents had insufficient sales in the original sixmonth period of investigation.

#### United States Price

As provided in section 772 of the Act, we used the purchase price of the subject merchandise to represent the United States price for sales by CMEC and Premier because the merchandise was sold to unrelated purchasers prior to its importation into the United States.

We calculated the purchase price for sales by CMEC based on the f.o.b. or c.i.f. price to unrelated purchasers. We made deductions, where applicable, for inland freight charges, ocean freight charges, and port charges. In accordance with the policy set forth in our final determination in the investigation of carbon steel wire rod from Poland (49 FR 29434, July 20, 1984), we based the deduction for inland freight and port

charges on similar charges in a nonstate-controlled-economy country.

We based the deduction for ocean freight charges on the weighted-average charge incurred by CMEC on shipments carried by non-state-owned steamship companies.

We calculated the purchase price for sales by Premier based on the f.o.b. or c.i.f. price to unrelated purchasers. We made deductions, where applicable, for brokerage and handling charges, ocean freight and marine insurance.

#### Foreign Market Value

Petitioner alleged that the PRC is a state-controlled-economy country and that sales of the subject merchandise in that country do not permit a determination of foreign market value under section 773(a) of the Act. After an analysis of the PRC's economy, and consideration of the briefs submitted by the parties, we concluded that the PRC is a state-controlled-economy country for purposes of this investigation. Basic to our decision on this issue is the fact that the central government of the PRC controls the prices and levels of production of the bearing industry, as well as the internal pricing of the factors of production.

As a result, section 773(c) of the Act requires us to use prices or the constructed value of such or similar merchandise in a "state-controlled-economy" country. Our regulations establish a preference for foreign market value based upon sales prices. They further stipulate that, to the extent possible, we should determine sales prices on the basis of prices in a "non-state-controlled-economy" country at a stage of economic development comparable to the country with the state-controlled economy.

After an analysis of countries producing tapered roller bearings, we determined that India would be the most appropriate surrogate. We sent questionnaires requesting assistance in these investigations to six companies in India. We received a questionnaire response from one company in India, but we were unable to use this data as a basis of calculating foreign market value because the Government of India did not permit us to verify the submitted data.

Additionally, we could not use import prices from non-state-controlled-economy countries in this case because the applicable Department of Commerce statistics for the subject merchandise were based on categories that were too broad to make product-specific comparisons.

Therefore, as the best information otherwise available, we calculated constructed value based on the factors of production reported by the PRC producers. We used the best information available for valuing the factors of production. Where possible, best information available was obtained from publicly available information in India.

Raw material prices were based on Indian prices published by the Steel Authority of India adjusted for inflation using the wholesale price index for India published by the International Monetary Fund. Where necessary, prices for merchant quality steel were adjusted to prices for bearing quality steel by using a ratio calculated from data in the Trigger Price Mechanism (TPM) Manual.

The cost of labor was based on data published by the International Labor Organization (adjusted as above for inflation) concerning average earnings in India for workers in ISIC category 382 (Manufacture of Machinery, except electrical). We made an addition of 31 percent for employee fringe benefits based on publicly available information in India.

We based the amount added for factory overhead on publicly available data for the bearing industry in India.

We used the statutory minimum of 10 percent of the sum of material, fabrication costs, and overhead for general, sales and administrative expenses, and the statutory minimum of eight percent for profit.

We based the amount added for packing on data in the public version of the questionnaire response of a market-economy country tapered roller bearing producer involved in a current antidumping investigation.

With respect to sales by Premier, in accordance with section 773(f) of the Act, we based foreign market value on the prices at which Premier sold such or similar merchandise to third countries (Pakistan and Singapore), since there were no sales in the home market of Hong Kong of tapered roller bearings from the PRC. From these prices, we deducted, where applicable, charges for brokerage and bandling, ocean freight and marine insurance. We made ladjustments, where applicable, for differences in credit costs and for commissions Premier paid on certain sales to the United States.

We made currency conversions in accordance with § 353.56(a)(1) of the Commerce Regulations, using certified exchange rates as furnished by the Federal Reserve Bank of New York.

#### Verification

As provided in section 776(a) of the Act, we verified data used in making this determination by using verification procedures which included on-site inspection of manufacturers' facilities and examination of company records and selected original source documentation containing relevant information.

#### **Petitioner's Comments**

Comment 1: Petitioner argues that, in calculating constructed value for the preliminary determination, the Department undervalued factory overhead. The petitioner suggests that the amount added for factory overhead should equal at least 40 percent of total cost of manufacture, based upon the experience of several Japanese manufacturers, the petitioner in the United States, and the petitioner's subsidiary in Brazil.

DOC Response: We disagree. The Department has obtained, and used as the best information available, a factory overhead rate from a surrogate company in the bearing industry in India.

With regard to petitioner's request that we use the factory overhead experience of Japan and the United States as being representative of the PRC industry, the Department considers the factory overhead experience of a surrogate company in a comparable-economy country preferable to the alternatives offered by the petitioner.

We are required to select a comparable economy in which to value the factors of production information. The rationale behind selecting a comparable economy is that the experience of a producer in a comparable-economy country is reflective of the same degree of economic and industrial development as that of a producer in a comparable nonmarket-economy country. The United States and Japanese overhead ratios offered by the petitioner are for fully industrialized economies whose TRB producers use highly automated, stateof-th-art production equipment, in which factory overhead is high and direct labor low. The PRC production facilities use less automated and less sophisticated machinery and are much more labor intensive. In such instances, direct factory overhead would be lower and direct labor higher than for U.S. and Japanese TRB producers.

With regard to the petitioner's Brazilian subsidiary's factory overhead data, we note that the data was contained in a questionnaire response that was not received until one month after the Department's preliminary

determination. It has been the Department's position that, in order to be considered in a final determination, a complete and full voluntary response must be received by the date of the preliminary determination. Furthermore, we do not consider Brazil and the PRC to be at comparable levels of economic development.

Comment 2: Petitioner argues that in calculating constructed value for the preliminary determination, the Department undervalued labor cost. Petitioner argues that the amount added for labor should be based on total labor cost to manufacturers, not just the earnings of workers.

DOC Response: We agree. See our discussion of labor costs in the foreign market value section of this notice.

Comment 3: Petitioner argues that, in calculating constructed value for the preliminary determination, the Department selected the wrong industry category in India as a source for labor earnings data.

DOC Response: We disagree. In calculating constructed value we determined the amount to be added for labor expenses on average earnings in India, in the industry category "Manufacture of machinery, except electrical." We believe this category most properly encompasses the manufacture of TRBs.

Comment 4: Petitioner argues that in calculating constructed value for the preliminary determination, the Department undervalued raw material cost.

DOC Response: For the preliminary determination we valued raw materials based on average import prices from Japan and Sweden to the United States. As noted above in the Foreign Market Value section of this notice, for the final determination we valued raw materials on prices in India drawn from publicly available data. We have made this change because we believe that using a comparable surrogate country's prices is preferable to using non-comparable countries' prices. These prices used for the final determination, which were calculated using methodology proposed by the petitioner, are somewhat higher than the prices used for the preliminary determination.

Comment 5: Petitioner argues that, in calculating constructed value, the Department should not make an adjustment for scrap unless it verifies that the PRC factory does in fact recover and sell scrap generated in the manufacturer of TRBs.

DOC Response: The Department verified that the PRC factory did in fact recover and sell or recycle scrap

generated. We therefore have made an adjustment for scrap in the calculation of constructed value.

Comment 6: Petitioner argues that foreign market value should be based on the data received from the Indian manufacturers, despite the fact that we were unable to verify the data in India. Petitioner suggests that we could verify the reasonableness of the Indian data by comparing Indian home market prices with the information available to the Department on TRB prices from other countries such as Brazil, Spain, Mexico, Argentina, and the United States.

DOC Response: We disagree. We do not believe that comparing Indian prices to prices in the five countries named by petitioner would satisfy the statutory

requirement for verification.

Comment 7: Petitioner argues that the Department may not use the factors of production constructed value method provided for in § 353.8(c) of the Commerce regulations as the basis for foreign market value in this

investigation.

Petitioner contends that § 353.8(a) and (b) of the Commerce regulations establishes a hierarchy for determining foreign market value in which prices and constructed value of such or similar merchandise take preference over the factors of production constructed value method under 353.8(c). The Department must first consider prices and constructed value of such or similar merchandise under 353(a) and (b) in the following order of preference: (1) A nonstate-controlled-economy country at a stage of economic development comparable to the state-controlledeconomy country from which the merchandise is exported: (2) a non-statecontrolled-economy country not necessarily at a stage of economic development comparable to the statecontrolled-economy country, other than the United States, suitably adjusted for known differences in costs of materials and labor, and (3) the United States. According to the petitioner, the Department must exhaust all of these established preferences before resorting to the factors of production approach.

DOC Response: We disagree.
Petitioner's hierarchy of methods of calculating foreign market value, under which the factors of production constructed value approach would be a last resort, is based upon a misconception of 19 CFR 353.8 and applicable precedent. The Commerce regulation and past Departmental practice does establish a preference for the use of comparable economy sales prices and constructed value as the basis for foreign market value. However.

under § 353.8(b) foreign market value based on sales prices or constructed value in a non-state-controlled-economy country not at a comparable stage of economic development are preferable to the factors of production constructed value approach under § 353.8(c).

Section 353.8(b)(1) of the regulations makes clear that the preference in favor of sales is tempered by the overriding preference for ascertaining foreign market value by reference to comparable non-state-controlled economies. Chemical Products Corp. v. United States, 12 CIT _______ Slip Op. 86-97 (September 26, 1986). The Department would arrive at § 353.8(b)(2) only after it has exhausted the pricing and constructed value options in comparable economies, i.e., under § 353.8 (a) and (c).

In this case, verified surrogate sales price and constructed value information was not available from TRB producers in any of the non-state-controlledeconomy countries determined by the Department to be at stages of economic development comparable to that of the PRC. The Department sent surrogate questionnaires to six firms in these countries. As noted above, one company in India replied to our questionnaire, but the Indian Government would not allow us to verify the replying company's data. However, the Department was able to obtain, verify, and find values for the respondent's factors of production information. Therefore, factors of production constructed value methodology has been used for purposes of determining foreign market value with respect to the final determination in this investigation.

Comment 8: Petitioner argues that the DOC should use as the basis for calculating Premier's foreign market value the foreign market value calculated for sales by CMEC, plus CMEC's expenses incurred in selling to Premier, plus expenses incurred by Premier in reselling the merchandise.

DOC Response: We disagree. At the time of the sales to Premier, CMEC was unaware of the countries to which Premier intended to resell the merchandise. Therefore, foeign market value for Premier's sales to the United States is required to be calculated pursuant to section 773(f) of the Act.

#### Respondent's Comments

Comment 1: Respondent argues that, in the absence of verified data from a surrogate producer at a comparable level of economic development, foreign market value for CMEC should be based on constructed value using PRC factors

DOC Response: We agree. See our response to petitioner's comment 7 above.

Comment 2: Respondent argues that, in calculating foreign market value for the preliminary determination, the Department overvalued raw material cost. Respondent suggests we should value certain of the raw materials based upon sales prices or offers of imported bearing steel in China.

DOC Response: We disagree. Sales prices submitted by the respondent pertain to sales made after the period of

investigation.

Comment 3: Respondent argues that, in calculating constructed value, the Department should not base its addition for raw material costs solely on the price of bars (for producing cups and cones), but should also find values for bars (for producing rollers) and sheet (for producing cages).

DOC Response: We agree and have done so.

Comment 4: Respondent argues that the Department should publish separate dumping rates for CMEC and Premier rather than a single weighted-average rate.

DOC Response: We agree. These companies are not related. We found no evidence that CMEC knew the final destination of the products that Premier purchased. Therefore it is appropriate to calculate separate rates for the two companies.

Comment 5: Respondent argues that the calculations for Premier should be revised to incorporate corrected data developed as a result of the verification process.

DOC Response: We agree and have done so.

# Continuation of Suspension of Liquidation

We are directing the United States Customs Service to continue to suspend liquidation of all entries of tapered roller bearings from the PRC, except entries of merchandise exported by CMEC directly to U.S. purchasers, that are entered, or withdrawn from warehouse, for consumption, on or after February 6. 1987, the date of publication of the preliminary determination in the Federal Register. The United States Customs Service shall continue to require a cash deposit or the posting of bond equal to the estimated weighted-average amount by which the foreign market value of the merchandise subject to this investigation exceeds the United States price. The bond or cash deposit amounts established in our preliminary determination of February 6, 1987,

or withdrawals made prior to the date of publication of this notice in the Federal Register. With respect to entries or withdrawals made on or after the date of publication of this notice, except entries of merchandise exported by CMEC, the bond or cash deposit amounts required are shown below. CMEC is not included in this determination since we have found no margins for this company.

Manufacturer/producer/exporter	Weighted- average margin percentage	
Premier Beering & Equipment Ltd	.87 .97	

#### **ITC** Notification

In accordance with section 735(d) of the Act, we will notify the ITC of our determination.

The ITC will make its determination whether these imports are materially injuring, or threatening to materially injure, a U.S. industry within 45 days of the publication of this notice. If the ITC determines that material injury or threat of material injury does not exist, this proceeding will be terminated and all securities posted as a result of the auspension of liquidation will be refunded or cancelled. However, if the ITC determines that such injury does exist, we will issue an antidumping duty order directing Customs officers to assess an antidumping duty on tapered roller bearings from the PRC entered, or withdrawn from warehouse, for consumption after the suspension of liquidation, equal to the amount by which the foreign market value exceeds the United states price.

The determination is being published pursuant to section 735(d) of the Act (19 U.S.C. 1673d(d)).

#### Paul Freedenberg.

Assistant Secretary for Trade Administration. May 20, 1987.

[FR Doc. 87-12011 Filed 5-26-87; 8:45 am]

#### [A-570-601]

Antidumping Duty Order: Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From the People's Republic of China

AGENCY: International Trade
Administration, Import Administration,
Department of Commerce.
ACTION: Notice.

SUMMARY: In an investigation concerning tapered roller bearings from the People's Republic of China (PRC), the United States Department of Commerce (the Department) and the United States International Trade Commission (the ITC) have determined that tapered roller bearings from the PRC are being sold at less than fair value and that imports of tapered roller bearings from the PRC are materially injuring a United States industry.

EFFECTIVE DATE: June 15, 1987. FOR FURTHER INFORMATION CONTACT: Michael Ready or Mary S. Clapp, Office of Investigations, International Trade Administration, United States Department of Commerce, 14th Street and Constitution Ave., NW., Washington, DC 20230; telephone: (202) 377-2613 or 377-1769, respectively. SUPPLEMENTARY INFORMATION: The products covered by this investigation are tapered roller bearings and parts thereof, currently classified in Tariff Schedules of the United States (TSUS) item numbers 680.30 and 680.39; flange. take up cartridge, and hanger units incorporating tapered roller bearings. currently classified in TSUS item 681.10; and tapered roller housings (except pillow blocks) incorporating tapered rollers, with or without spindles, whether or not automotive use, currently classified in TSUS item number 692.32 or elsewhere in the TSUS.

On May 20, 1987, the Department made its final determination that this merchandise was being sold at less than fair value (52 FR 19748, May 27, 1987).

On June 5, 1987, in accordance with section 735(d) of the Tariff Act of 1930, as amended, (the Act) (19 U.S.C. 1673d(d)), the ITC notified the Department that such importations materially injure a United States industry.

Therefore, in accordance with sections 736 and 751 of the Act (19 U.S.C. 1563e and 1675), the Department directs United States Customs officers to assess, upon further advice by the administering authority pursuant to section 736(a)(1) of the Act (19 U.S.C. 1673e (a)(1)), antidumping duties equal to the amount by which the foreign market value of the merchandise subject

to the order exceeds the United States price for all entries of such merchandise from the PRC. These antidumping duties will be assessed on all unliquidated entries of such merchandise entered, or withdrawn from warehouse, for consumption on or after February 8, 1987, the date on which the Department published its "Preliminary Determination" notice in the Federal Register. All entries or withdrawals of merchandise exported by the China National Machinery & Equipment Import & Export Corporation are excluded from this order.

On and after date of publication of this notice, United States Customs officers must require at the same time as importers would normally deposit estimated duties on this merchandise, a cash deposit to the estimated weighted-average antidumping duty margin as noted below:

Manutacturers/Producers/Exporters	Weighted- everage percent
Premier Bearing and Equipment Ltd	0.97
and Equipment Import and Export Corpora- tion, which is excluded)	0.97

This determination constitutes an antidumping duty order with respect to tapered roller bearings from the PRC, pursuant to section 736 of the Act (19 U.S.C. 1673e) and 19 CFR 353.48. We have deleted from the Commerce Regulations, Annex I of 19 CFR Part 353, which listed antidumping findings and orders currently in effect. Instead, interested parties may contact the Central Records Unit Room B-099 of Import Administration for copies of the updated list of orders currently in effect.

This notice is published in accordance with section 736 of the Act (19 U.S.C. 1673e) and 19 CFR 353.48.

#### Gilbert B. Kaplan,

Deputy Assistant Secretary for Import Administration.

[FR Doc. 87-13613 Filed 6-12-87; 8:45 am]

# **Notices**

Federal Register
Vol. 52, No. 118
Friday, June 19, 1987

# DEPARTMENT OF COMMERCE International Trade Administration (A-437-601)

Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From the Hungarian People's Republic (Hungary); Antidumping Duty Order

AGENCY: International Trade
Administration, Import Administration,
Department of Commerce.

ACTION: Notice.

**SUMMARY:** In separate investigations concerning tapered roller bearings and parts thereof, finished or unfinished (tapered roller bearings), from Hungary, the United States Department of Commerce (the Department) and the United States International Trade Commission (the ITC) have determined that tapered roller bearings are being sold at less than fair value and that sales of tapered roller bearings from Hungary are materially injuring a United States industry. Therefore, based on these findings, all unliquidated entries, or warehouse withdrawals, for consumption of tapered roller bearings from Hungary made on or after February 6, 1987, the date on which the Department published its "Preliminary Determination" notice in the Federal Register, will be liable for the possible assessment of antidumping duties. Further, a cash deposit of estimated antidumping duties must be made on all such entries and withdrawals from warehouse for consumption made on or after the date of publication of this antidumping duty order in the Federal Register.

EFFECTIVE DATE: June 19, 1987. FOR FURTHER INFORMATION CONTACT: John Brinkmann (202) 377-3965 or Mary Jenkins 377-1756, Office of Investigations, International Trade Administration, United States Department of Commerce, 14th Street and Constitution Avenue, NW, Washington, DC 20230. SUPPLEMENTARY INFORMATION: The products covered by this investigation are tapered roller bearings currently classified under Tariff Schedules of the United States (TSUS) item numbers 680.30 and 680.39; flange, take-up cartridge, and hanger units incorporating tapered roller bearings currently classified under TSUS item number 681.10; and tapered roller housings (except pillow blocks) incorporating

whether or not for automative use, and currently classified under TSUS item number 692.32 or elsewhere in the TSUS.

In accordance with section 733 of the Tariff Act of 1930, as amended (the Act) (19 U.S.C. 1673b), on February 2, 1987, the Department made its preliminary determination that there was reason to believe or suspect that tapered roller bearings form Hungary were being sold at less than fair value (52 FR 3835, February 6, 1987). On May 4, 1987, the Department made its final determination that these imports were being sold at less than fair value (52 FR 17428, May 8, 1987].

On June 5, 1987, in accordance with section 735(d) of the Act (19 U.S.C. 1673d(d), the ITC notified the Department that such imports materially injure a United States industry.

Therefore, in accordance with section 736 and 751 of the Act (19 U.S.C. 1673e and 1675), the Department directs United States Customs officers to assess, upon further advice by the administering authority pursuant to section 736(a)(1) of the Act (19 U.S.C. 1673e(a)(1)), antidumping duties equal to the amount by which the foreign market value of merchandise exceeds the United States price for all entries of tapered roller bearings from Hungary. These antidumping duties will be assessed on all unliquidated entries of tapered roller bearings entered, or withdrawn from warehouse, for consumption on or after February 6, 1987, the date on which the Department published its "Preliminary Determination."

On and after the date of publication of this notice, United States Customs officers must require, at the same time as importers would normally deposit estimated duties on this merchandise. a cash deposit equal to the estimated weighted-average antidumping duty margin of 7.42 percent.

This determination constitutes an antidumping duty order with respect to tapered roller bearings from Hungary pursuant to section 736 of the Act and 19 CFR 353.48. We have deleted form the Commerce Regulations (19 U.S.C. 1673e) and § 353.48 of the Commerce Regulations, Annex I of 19 CFR Part 353, which listed antidumping duty findings and orders currently in effect. Instead, interested parties may contact the Central Records Unit, Room B-099, Import Administration, for copies of the updated list of orders currently in effect.

This notice is published in accordance with section 736 of the Act (19 U.S.C. 1673e) and 19 CFR 353.48.

June 12, 1987.

Gilbert B. Kaplan,

Deputy Assistant Secretary for Import Administration.,

[FR Doc. 87-13990 Filed 6-18-87; 8:45 am] BILLING CODE 3510-DS-M

#### [A-485-602]

**Tapered Roller Bearings and Parts** Thereof, Finished or Unfinished, From the Socialist Republic of Romania (Romania); Antidumping Duty Order

AGENCY: International Trade Administration, Import Administration, Department of Commerce. ACTION Notice.

SUMMARY: In separate investigations concerning tapered roller bearings and parts thereof, finished or unfinished (tapered roller bearings), from Romania, the United States Department of Commerce (the Department) and the United States International Trade Commission (the ITC) have determined that tapered roller bearings are being sold at less than fair value and that sales of tapered roller bearings from Romania are materially injuring a United States industry. The ITC ruled that critical circumstances do not exist with regard to tapered roller bearings from Romania. Therefore, based on these findings, we will discontinue suspension of liquidation of all entries 90 days prior to our preliminary determination. Suspension of liquidation will begin for all unliquidated entries, or warehouse withdrawals, for consumption of tapered roller bearings from Romania made on or after February 6, 1987, the date on which the Department published its "preliminary determination" notice in the Federal Register. These entries will be liable for the possible assessment of antidumping duties. Further, a cash deposit of estimated antidumping duties must be made on all such entries and withdrawals from warehouse for consumption on or after the date of publication of this antidumping duty order in the Federal Register.

EFFECTIVE DATE: June 9, 1987.

FOR FURTHER INFORMATION CONTACT: John Brinkmann (202) 377-3965 or Mary Jenkins 377-1756, Office of Investigations, International Trade Administration, United States Department of Commerce, 14th Street and Constitution Avenue NW., Washington, DC 20230.

SUPPLEMENTARY INFORMATION: The products covered by this lvestigation are tapered roller bearings currently

United States (TSUS) item numbers 680.30 and 680.39; flange, take-up cartridge, and hanger units incorporating tapered roller bearings currently classified under TSUS item number 681.10; and tapered ruller housings (except pillow blocks) incorporating tapered rollers, with or without spindles. whether or not for automotive use, and currently classified under TSUS item number 692.32 or elsewhere in the TSUS.

In accordance with section 733 of the Tariff Act of 1930, as amended (the Act) (19 U.S.C. 1673b), on February 2, 1987, the Department made its preliminary determination that there was reason to believe or suspect that tapered roller bearings from Romania were being sold at less than fair value (52 FR 3838, February 6, 1987]. On May 4, 1987, the Department made its final determination that these imports were being sold at less than fair value (52 FR 17433, May 8, 1987) and that critical circumstances did exist.

On lune 5, 1987, in accordance with section 735(d) of the Act (19 U.S.C. 1673(d)), the ITC notified the Department that such imports materially injure a United States industry and that critical circumstances do not exist.

Therefore, in accordance with section 736 and 751 of the Act (19 U.S.C. 1673e and 1675), the Department directs United States Customs officers to assess, upon further advice by the administering authority pursuant to section 736(a)(1) of the Act (19 U.S.C. 1673e(a)(1)), antidumping duties equal to the amount by which the foreign market value of merchandise exceeds the United States price for all entries of tapered roller bearings from Romania. These antidumping duties will be assessed on all unliquidated entries of tapered roller bearings entered, or withdrawn from warehouse, for consumption on or after February 6, 1987, the date on which the Department published its preliminary determination.

On and after the date of publication of this notice, United States Customs officers must require, at the same time as importers would normally deposit estimated duties on this merchandise, a cash deposit equal to the estimated weighted-average antidumping duty margin of 8.70 percent.

This determination constitutes an antidumping duty order with respect to tapered roller bearings from Romania pursuant to section 738 of the Act (19 U.S.C. 1673e) and 19 CFR 353.48. We have deleted from the Commerce Regulations, Annex, I of 19 CFR Part 353, which listed antidumping duty findings and orders currently in effect.

the Central Records Unit Room B-099, Import Administration, for copies of the updated list of orders currently in effect.

This notice is published in accordance with section 736 of the Act (19 U.S.C. 1673e) and 19 CFR 353.48.

June 16, 1987.

Gilbert B. Kaplan,

Deputy Assistant Secretary for Import

Administration.

[FR Doc. 87-13991 Filed 6-18-87; 8:45 a.m.]

BILLING CODE 2510-DS-M

# **Notices**

Federal Register

Vol. 52. No. 124

Monday, June 29, 1987

International Trade Administration, Commerce.

**ACTION:** Notice.

SUMMARY: We have determined that tapered roller bearings and parts thereof, finished or unfinished (tapered roller bearings), from Italy are being, or are likely to be, sold in the United States at less than fair value. The International Trade Commission (ITC) will determine, within 45 days of publication of this notice, whether these imports are materially injuring, or are threatening material injury to, a United States industry.

EFFECTIVE DATE: June 29, 1987.

FOR FURTHER INFORMATION CONTACT:
Karen DiBenedetto (202–377–1776) or
Charles E. Wilson (202–377–5288). Office
of Investigations, Import Administration,
International Trade Administration, U.S.
Department of Commerce, 14th Street
and Constitution Avenue, NW.,
Washington, DC 20230.

#### SUPPLEMENTARY INFORMATION:

#### **Final Determination**

We have determined that tapered roller bearings from Italy are being, or are likely to be, sold in the United States at less than fair value, as provided in section 735(a) of the Tariff Act of 1930, as amended (the Act) (19 U.S.C. 1673d(a)). The period of investigation was March 1, 1986 through August 31, 1986. The margin found for the company investigated is listed in the "Suspension of Liquidation" section of this notice.

#### Case History

On February 2, 1987, we made an affirmative preliminary determination (52 FR 3835, February 6, 1987). Since then, the following events have occurred:

On February 9, 1987, we sent another deficiency letter to the respondent; and on February 10, 1987, we sent a cost of production questionaire.

On February 13, 1987, we received a request from counsel for the respondent to postpone the final determination to no later than the 135th day after the date that the preliminary determination was published in the Federal Register. We granted this request and postponed the due date for the final determination until no later than June 22, 1987 (52 FR 6361, March 3, 1987).

On February 20, 1987, we received repsondent's response to our deficiency letter. On February 26, 1987, petitioner alleged that "critical circumstances" exist with respect to imports of tapered roller bearings from Italy. On February 27, 1987, the respondent requested, and we granted, an extension of its cost of production questionnaire response. On March 20, 1987, we received respondent's cost of production, response. On March 30, 1987, we made a preliminary affirmative determination of "critical circumstances" (52 FR 11302, April 8, 1987).

We sent a deficiency letter to respondent concerning the cost of production questionaire response on March 31, 1987. On April 7, 1987, we received respondent's response. We conducted verification in Turin, Italy, May 4 through May 8, 1987. A public hearing was held on May 14, 1987. We conducted verifications on May 19 and 20, 1987, in Scarborough, Ontario, and on May 21 and 22, 1987, in King of Prussia, Pennsylvania.

### Scope of Investigation

The products covered by this investigation are tapered roller bearings. currently classified under Tariff Schedules of the United States (TSUS) item numbers 680.30 and 680.39; flange, take-up cartridge, and hanger units incorporating tapered roller bearings, currently classified under TSUS item number 681.10; and tapered roller housings (except pillow blocks) incorporating tapered rollers, with or without spindles, whether or not for automotive use, and currently classified under TSUS item number 692.32 or elsewhere in the TSUS.

#### Fair Value Comparisons

Because RIV-SKF Officine di Villar Perosa, S.p.A. (RIV-SKF), accounted for virtually all sales of the merchandise from Italy, we limited our investigation to that company. To determine whether sales of the subject merchandise in the United States were made at less than fair value, we compared the United States price, based on the best information available, with the foreign market value, also based on the best information available. On verification we were unable to verify significant portions of the response to our questionnaire.

# DEPARTMENT OF COMMERCE International Trade Administration

[A-475-603]

Final Determination of Sales at Less Than Fair Value; Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From Italy

**AGENCY:** Import Administration,

We resorted to best information available because of the many significant discrepancies that were discovered during verification with respect to the information submitted by respondent in response to the Department's antidumping duty questionnaire. Among these discrepancies were insufficient documentation to determine whether sales to the United States were purchase price or exporter's sales price transactions. Neither the volume nor value of United States sales could be verified, and the dates of these sales were incorrectly reported. Finally, charges were based on averages which could not be traced to specific invoices.

Because the response as a whole was unverifiable, in accordance with section 776(b) of the Act, we used best information available as provided in the petition.

## Verification

As provided in section 776(a) of the Act, we attempted to verify information provided by the respondent. However, because of the many significant discrepancies found in the response during verification, we determined the response was not verifiable.

#### Petitioner's Comments

Comment 1: Petitioner contends that, in light of the inadequacies in the questionnaire responses, and the delays in responding, the final determination should be based on the best information otherwise available.

DOC Position: We agree. Absent a completely verifiable response, we are basing our final determination on the best information available, as contained in the petition. (See "Fair Value Comparisons" section of this notice for further explanation regarding the Department's use of best information available.)

Petitioner's Other Comments: Other comments by petitioner relate to United States price, Canadian sales, and sales below the cost of production. Since we have not used the response as a basis for making our final determination, these comments are moot.

#### Respondent's Comments:

Comment 1: Respondent contends that the Department should divide the investigation of tapered roller bearings from Italy into one investigation of cups, cones and cup/cone sets, and a second investigation of tapered bearing units (TBUs). Furthermore, in calculating its final dumping margins, the Department

should calculate two separate dumping margins for the two distinct product

DOC Position: We disagree. Throughout this investigation, the Department has included all the merchandise subject to investigation within one class or kind of merchandise. TBUs, as well as the other products in this investigation, are used as antifriction devices for industrial purposes. TBUs may differ somewhat in design from cups, cones and cup/cone sets, in that TBUs consist of an extra inner ring. This difference is not significant, particularly in light of the fact that TBUs and the other products in this investigation have the same general use. Furthermore, TBUs and the other products subject to this investigation are distributed through the same general channels of trade; that being to original equipment manufacturers for installation in machinery as anti-friction devices. Products within a single class or kind need not be identical. Therefore, in this case we have determined that all the products subject to investigation are properly included within the same class or kind for purposes of this investigation.

The Department generally calculates a single margin in its antidumping duty investigations for all products within a single class or kind. Accordingly, inasmuch as TBUs are within the same class or kind as the other tapered roller bearings under investigation, we are calculating a single margin for all merchandise under investigation.

Comment 2: Respondent maintains that the information submitted by RIV-SKF in its questionnaire responses provided a sufficient basis for proceeding to verification, and the Department should not rely upon best information available for purposes of its final determination.

Respondent further contends that it has submitted its responses in a thorough and timely manner, and that these submissions, combined with the Department's verification reports, have provided petitioner with ample information for meaningful participation in this investigation.

DOC Position: We disagree, (See reasons set forth in the "Fair Value Comparisons" section of this notice.)

Respondent's Other Comments: Other comments by respondent relate to United States price and Canadian sales. Since we have not used the response as a basis for making our final determination, these comments are moot.

# Final Affirmative Determination of Critical Circumstances

To determine whether critical circumstances exist, section 733(e)(1) of the Tariff Act of 1930, as amended (the Act) (19 U.S.C. 1673b(e)) requires that we examine whether:

(A)(i) There is a history of dumping in the United States or elsewhere of the class or kind of merchandise which is the subject of the investigation; or

(ii) The person by whom, or for whose account, the merchandise was imported knew or should have known, that the exporter was selling the merchandise which is the subject of the investigation at less than fair value; and

(B) There have been massive imports of the class or kind of merchandise which is the subject of the investigation over a relatively short period.

In determining whether the importers knew, or should have known, the exporter was selling the merchandise at less than fair value, we normally consider margins of 25 percent or more to constitute constructive knowledge of sales at less than fair value, Since the final margin in this case exceeds this level we find that knowledge of sales at less than fair value can be imported to the importers,

In determining whether imports have been massive over a relatively short period, we normally consider the following factors: (1) The volume and value of imports; (2) seasonal trends; and (3) the share of domestic consumption accounted for by the imports.

Using volume figures, based on currently available information, we found that imports of the class or kind of merchandise subject to the investigation have been massive. Therefore, we determine that "critical circumstances" exist with respect to imports of tapered roller bearings from Italy.

# Continuation of Suspension of Liquidation

We are directing the U.S. Customs
Service to continue to suspend
liquidation of all entries of tapered roller
bearings from Italy that are entered, or
withdrawn from warehouse, for
consumption, on or after the date of
publication of this notice in the Federal
Register The U.S. Customs Service shall
continue to require a cash deposit or the
posting of a bond on all entries-equal to
the estimated average amount by which
the foreign market value of the
merchandise subject to this

investigation exceeds the United States price as shown in the table below.

Since we have made a final affirmative critical circumstances determination, we are continuing the retroactive suspension of liquidation ordered by our March 30, 1987, preliminary affirmative critical circumstances determination. The effective date for the suspension of liquidation of this investigation is November 10, 1986, ninety days prior to the date of publication of our preliminary affirmative determination of sales at less than fair value.

This suspension of liquidation will remain in effect until further notice. The margins are as follows:

Manufacturers/producent/exporters	Average margin percentage
RIV-SKF	124.75 124.75

#### ITC Notification

In accordance with section 735(d) of the Act, we have notified the ITC of our determination. If the ITC determines. that material injury, or threat of material injury, does not exist, this proceeding will be terminated and all securities posted as a result of the suspension of liquidation will be refunded or canceled. However, if the ITC determines that such injury does exist, we will issue an antidumping duty order directing Customs officers to assess an antidumping duty on tapered roller bearing from Italy entered, or withdrawn from warehouse, for consumption after the suspension of liquidation, equal t the amount by which the foreign market value exceeds the United States price.

This determination is being published pursuant to section 735(d) of the Act (19 U.S.C. 1873d(d)).

#### Paul Freedenberg.

Assistant Secretary for Trade Administration. june 22, 1987.

[FR Doc. 87-14655 Filed 6-28-87; 8:45 am] BILLING CODE 3510-DS-M

#### [A-479-601]

Final Determination of Sales at Less Than Fair Value; Tapered Roller Bearings and Parts Thereof, Finished or Unfinished, From Yugoslavia

AGENCY: Import Administration. International Trade Administration. Commerce.

**ACTION:** Notice.

SUMMARY: We have determined that tapered roller bearings and parts

thereof, finished or unfinished (tapered roller bearings), from Yogoslavia are being, or are likely to be, sold in the United States at less tha fair value. The U.S. International Trade Commission (ITC) will determine, within 45 days of publication of this notice, whether these imports are materially injuring, or are threatening material injury to, a United States industry.

EFFECTIVE DATE: June 29, 1987. FOR FURTHER INFORMATION CONTACT: Judith L. Nehring (202/377-0160) or Mary S. Clapp (202/377-1769), Office of Investigations, Department of Commerce, 14th Street and Constitution Avenue NW., Washington, DC 20230. SUPPLEMENTARY INFORMATION:

#### Final Determination

We have determined that tapered roller bearings from Yugoslavia are being, or are likely to be, sold in the United States at less than fair value, as provided in section 735(a) of the Tariff Act of 1930, as amended (the Act) (19 U.S.C. 1673d(a)). The period of investigation was December 1, 1985, through August 31, 1986. The margin found for the company investigated is listed in the "Suspension of Liquidation" section of this notice.

#### Case History

On February 2, 1987, we made an affirmative preliminary determination (52 FR 3840, February 6, 1987). Since then, the following events have occurred

On February 6, 1987, we sent a auestionnaire to the sole respondent, Unis Ro Promet requesting that supplemental information be submitted no later than February 22, 1987, in order to be considered for the final determination.

On February 13, 1987, we received a request from counsel for the respondent to extend the due date of the questionnaire response and also to postpone the final determination to no later than the 135th day after publication of our "Preliminary Determination" notice in the Federal Register. We granted this request and postponed the due date for the final determination until no later than June 22, 1987 (52 6366, March 3, 1987, and correction, 52 FR 8404, March 17, 1987.

#### Scope of Investigation

The products covered by this investigation are tapered roller bearings, currently classified under Turiff Schedules of the United States (TSUS) item numbers 680.30 and 680.39; flange, take-up cartridge, and hanger units incorporating tapered roller bearings.

currently classified under TSUS item number 681.10: and tapered roller housings (except pillow blocks) incorporating tapered rollers, with or ... without spindles, whether or not for automotive use, and currently classified under TSUS item numbers 692.32 or elsewhere in the TSUS

#### Fair Value Comparisons

To determine whether sales of the 💠 subject merchandise in the United States were made at less than fair value. we compared the United States price. based on the best information available. with the foreign market value, also based on the best information available. We used best information available as required by section 776(b) of the Act because respondent did not provide sufficient responses to our requests for information.

#### United States Price

For purposes of our final determination, we have not used sales data presented by respondent to calculate United States price. Although the Department was provided a listing of U.S. sales, we were unable to make comparisons to sales of such or similar merchandise in the home market. In the Department's analysis, the reported home market product matches in the questionnaire response were neither complete nor correct. Unis' bearings specifications sheet showed home market products which are more similar than those covered by its home market response.

For these reasons, an accurate comparison of U.S. merchandise to home market merchandise could not be made. Therefore, we used the petitioner's data as the best information available.

The U.S. price was based on Unis offers to Timken customers in 1985, less ocean freight, insurance and duty based on U.S. Department of Commerce statistics for tapered roller bearing cups. cones and cup and cone assemblies.

#### Foreign Market Value

For purposes of our final determination, we also used petitioner's information as best information available to calculate foreign market value. The home market sales section of the responses contained deficiencies which rendered the data insufficient for use in making the final determination. Specifically, the respondent submitted a listing of home market sales which covered only the two largest customers in Yugoslavia and contained data on sales of "similar" merchandise as Identified by the respondent instead of

all home market sales of such or similar merchandise made during the period of investigation. The Department made repeated requests for this information in its questionnaries to Unis. The requested information was not provided. Furthermore, in a meeting at the Department of Commerce with a representative from Unis, we again requested a complete listing of home market sales of such or similar merchandise. Unis did not porovide such a listing.

For these reasons, we calculated the foreign market value of tapered roller bearings based on the best information available, which is those prices furnished by the petitioner. Foreign market value was based on Spanish prices to original equipment: manufacturers, adjusted to estimate Yugoslavia home market prices in an effort to reflect a comparision of know non-exported Yugoslavian home market prices to Spanish home market prices. We have also adjusted the petitioner's prices by the average rate of exchange for the Yugoslavian dinar for the period of investigation.

We made currency conversions from Yugoslavian dinars to U.S. dollars in accordance with § 353.56(a) of our regulations. Normally, we use certified exchange rates furnished by the Federal Reserve Bank of New York, but no certified rates were available for Yugoslavia. Therefore, we used monthly exchange rates published by the International Monetary Fund as the best information available.

#### Verification

Respondent did not submit sufficient responses which would enable the Department to conduct verification, as required by section 776(a) of the Act.

#### Comments

The opportunity for public comment was offered at the time of the preliminary determination. Since then, no comments, oral or written, have been submitted to the Department.

# Continuation of Suspension of Liquidation

We are directing the U.S. Customs
Service to continue to suspend
liquidation of all entries of tapered roller
bearings from Yugoslavia that are
entered, or withdrawn from warehouse,
for consumption, on or after the date of
publication of this notice in the Federal
Register. The U.S. Customs Service shall
continue to require a cash deposit or the
posting of a bond on all entries equal to
the estimated average amount by which
the foreign market value of the
merchandise subject to this

investigation exceeds the United States price as shown in the table below. The suspension of liquidation will remain in effect until further notice. The margin is as follows:

Manufacturers/producers/exporters	Average margin percentage
Unis Ro Promet	33.61 33.61

#### **ITC Notification**

In accordance with section 735(d) of the Act, we have notified the ITC of our determination. If the ITC determines that material injury, or threat of material injury, does not exist, this proceeding will be terminated and all securities posted as a result of the suspension of liquidation will be refunded or cancelled. However, if the ITC determines that such injury does exist. we will issue an antidumping duty order directing Customs officers to assess an antidumping duty on tapered roller bearings from Yugoslavia entered, or withdrawn from warehouse, for consumption after the suspension of liquidation, equal to the amount by which the foreign market value exceeds the U.S. price.

This determination is published pursuant to section 735(d) of the Act (19 U.S.C. 1673d(d)).

## Paul Freedenberg,

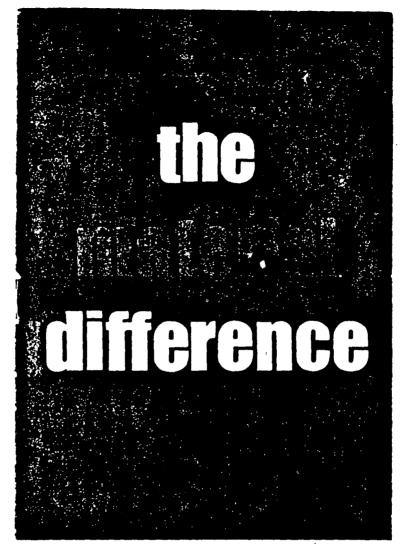
Assistant Secretary for Trade Administration. June 22, 1987.

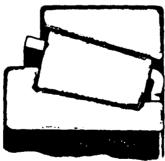
[FR Doc. 87-14656 Filed 6-28-87; 8:45 am]

• •

#### APPENDIX D

DOCUMENTS PERTAINING TO QUALITY ISSUES





TIMKEN

HOLLER BEARINGS

# ifference difference

All tapered roller bearings do not react similarly under load, although they may look the same even to carrying the same industry-wide part numbers. Differences which can be checked are primarily dimensions, surface finish, and refinements such as roller crowning. Very important, but not revealed to the eye, are the material characteristics. Grade and treatment of material can significantly affect the reliability of the bearing.

### TIMKEN BEARING STEEL - CASE-CARBURIZED

All Timken bearing inner and outer races are machined from forged steel. In the smaller sizes, these parts are made from rotary-forged scamless steel tubing. For larger bearing sizes a separate ring is forged for each part. Either way, the best possible steel analysis must be chosen at the outset.

Timken bearings are manufactured from low carbon carburizing grade, electric furnace, vacuum degassed, bearing quality alloy steels. Depending on the size of the bearing to be produced, appropriate quantities of nickel, molybdenum, and chromium are added to the steel melt to assure optimum properties in the final product. After machining, carbon is introduced into the surfaces of the bearing components to a depth adequate to sustain the bearing loads. This carbon and the alloy added earlier assure the proper combination of a hard, fatigue resistant case and a tough, ductile, core in the carburized and heat treated part.

### THROUGH HARDENED BEARING STEEL OR CASE CARBURIZED BEARING STEEL

Some manufacturers of tapered roller bearings use a through-hardened high carbon steel with carbon introduced at the time of melting. The same high carbon content, therefore, appears throughout the entire section of the bearing. This practice is a carry-over of the steel used by the early European tool makers who developed the ball bearing.

Whether to utilize this practice or the more expensive case-carburization process, requiring additional treatment and different grades of steel, is a difficult decision. Most bearing manufacturers outside the United States have chosen high carbon steels. While these through-hardened steels are perfectly proper for ball bearings, the high radial and thrust loads that can be applied to tapered roller bearings demand the capability of a carburized section. Many years of experience has proved to The Timken Company -- case-carburizing steel is the best material for maximum reliability in a tapered roller bearing.

### why case-carburized steel?

SUPERIOR FRACTURE TOUGHNESS

The ductile low carbon core of case-carburized and hardened bearing races greatly increases the resistance of the races to the propagation of fatigue spalls or cracks through the section. Engineers refer to a material's resistance to crack propagation as its fracture toughness. The difference in fracture toughness between casecarburized parts and through-hardened high carbon steel parts is demonstrated in the following example. Two rollers, one case-carburized, the other made from high carbon steel, were subjected to heavy static loads to purposely fracture them. As shown in Figure 1, page 4, the roller that was case-carburized and hardened cracked only through the case and remained intact. The through-hardened roller disintegrated into many fragments - - a typical fracture for this type material.



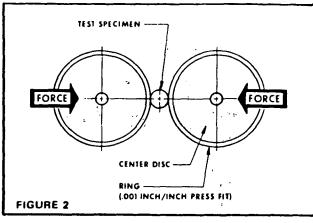
FIGURE 1 — The ductile core of the case-carburized steel part on the left allows Timken bearings to limit crack propagation.

A testimony to this superior fracture toughness and performance of carburized bearing races is indicated by experience in the rolling mill industry. Tapered roller bearings made from high carbon steel at one time were widely used on U. S. heavy duty roll-neck applications in direct competition with case-carburized bearings. Today, through-hardened tapered roller bearings are practically nonexistent on these applications.

#### HIGH RESISTANCE TO CRACKING

Where heavy interference fits are required, bearings, made of case-carburized steels have a greater resistance to cracking during mounting. And, published experimental results indicate that case-carburized tapered roller bearing inner races will withstand press fits with less fatigue damage. The following experience at The Timken Company compatible with this published information was obtained in the operation of laboratory fatigue test equipment.

Bearing materials are tested by simulating the operation of a bearing as shown in Figure 2. A 3/4" diameter round test specimen is rotated in contact with two 8-1/2" diameter load wheels at a contact pressure of 630,000 psi. The load wheels are made by pressing a ring over a solid center disc. The rings are pressed on with a 0.001" per inch interference fit.



The load rings were produced from carburized air melted 3310 modified and from air melted 52100. The carburized 3310 modified rings gave satisfactory performance with occasional failure due to inclusion initiated fatigue spalling. But, the through-hardened 52100 load rings spalled before any test specimen failures could be obtained. An important fact to note is, the case-carburized test specimen receives ten times as many stress reversals as the load ring.

#### LOW POTENTIAL FOR CATASTROPHIC FAILURE

The brittleness of through-hardened high carbon steel creates in a tapered roller bearing the potential of catastrophic failure. This occurs when a damaged or fatigued part rapidly disintegrates with possible injury to adjacent components. An example is shown in Figure 3.

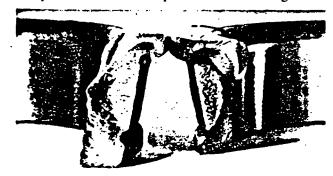


FIGURE 3 — The brittleness of through-hardened bearings creates the potential of catastrophic failure.

A catastrophic failure of this nature is most unusual in case-carburized tapered roller bearings. A fatigue spall starting in a case-carburized bearing may spread around the race but will not penetrate through the core. It has been said, a Timken bearing may ultimately suffer damage,

but it will get you home safely or complete your operation until proper repairs can be made. This reserve capacity is illustrated in Figure 4. A Timken bearing operating 150%, 310% and 400% of catalog life after the bearing showed initial fatigue damage continued to run and give satisfactory performance. This is a significant performance plus for case-carburized steel.

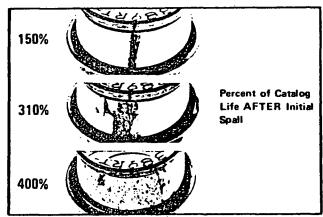


FIGURE 4 - Fatigue damage in Timken bearings may spread around the race but will not penetrate through the core.

## GOOD RESIDUAL COMPRESSIVE STRESSES FOR: HIGH RESISTANCE TO BENDING FATIGUE AND RETARDING SURFACE CRACK PROPAGATION

Another point of difference involves the inner race or cone of a tapered roller bearing. A material requirement here is high resistance to unidirectional bending fatigue at the junction of the large rib and race surface. Fatigue resistance in this region is at a minimum in cones which do not have ground radii but have machined and heat-treated undercuts. Throughhardened cones have residual tensile stresses in this area, which further lowers the bending fatigue resistance and promotes quench cracking at surface irregularities in these unground undercuts (Figure 5). In the Timken bearing. case-carburized cones have residual compressive stresses at the undercut surface and not only have much greater bending fatigue resistance. but complete freedom from general cracking (Figure 6). Therefore, rib breakage in casecarburized bearings is rare.

The residual compressive stresses present in the surface layers of case-carburized tapered roller bearings not only improve the bending fatigue resistance at the large rib undercut but also retard the propagation of cracks in the race surfaces. The Association of American Railroads permits railroad journal bearing races having small spalls to be continued in service after smoothing the spalls with a small hand grinder. The fact that all A.A.R. approved U. S. railroad journal bearing races are case-carburized undoubtedly makes this maintenance procedure acceptable.

THE EFFECTS OF RESIDUAL TENSILE **STRESSES** IN THROUGH-HARDENED STEEL ... FIGURE 5 THE EFFECTS OF RESIDUAL COMPRESSIVE **STRESSES** IN CASE-CARBURIZED STEFI FIGURE 6

#### SUMMARY

The points presented here provide substantial evidence that case-carburizing steels are far better suited to tapered roller bearings than through-hardening high carbon steels. Safety factors alone make it essential in many applications.

Yes, there are bearing material differences. And the material difference, in addition to many other refinements in bearing design and manufacture, assures you of maximum reliability when you specify Timken tapered roller bearings.



#### THE TIMKEN COMPANY

CANTON, OHIO 44706

"Latrobe Steel Company and The Timken Company are competitive with any body in the world in supplying steels for aerospace and other alloy steel users."

C. Philip Weigel President - Latrobe Steel Company

steel quality. Recently, customers were notified of doubled bearing life on many part numbers.

A supplier of specialty alloy teels. Latrobe Steel Company, our wholly owned subsidiary, works closely with the Steel Business in meeting the needs of customers. The relationship between the two companies is one of synergy, a partnership where combined results exceed what is possible through individual action.

Latrobe maintains a strong presence in the world market for aircraft quality steels, where end-use applications include aircraft bearings, fasteners and structural components. As aerospace manufacturers form more multinational consortia to defray design and manufacturing costs and to service the worldwide aircraft markets, Latrobe steels have become better known, particularly in Europe and Great Britain.

Built on our strengths, The Timken Company is clearly

#### Bearing Ratings Increase

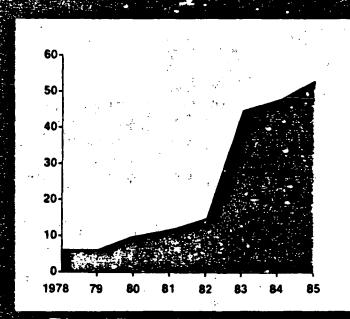
The Timken Company, in November 1986, announced rating increases for 97 percent of all Timken tapered roller bearings. The increase is attributed primarily to improvements in the quality of the steel used to make Timken bearings around the world.

This is the second significant rating increase in the last four years.

Rating increases range from 11 percent on bearings under 71/2 inches in diameter

to 35 percent on larger bearings. A rating increase of 25 percent more than doubles the calculated life of a bearing.

Timken Company customers can take advantage of the rating increase in two ways. They can continue using the present bearing part number and expect significantly longer life. Or, they can design a smaller bearing into their product, giving them the needed life, but at less cost.



This graph Blustrates how the life of Timken tapered roller bearings has increased since 1978.

# LOOK WHAT COMES AS STANDARD EQUIPMENT WITH EVERY TIMKEN BEARING.

TIMKEN' BEARING #:

580

MANUFACTURED BY: THE TIMKEN COMPANY CANTON, OHIO 44706 . SOLD TO: YOUR COMPANY ANYWHERE THE FOLLOWING ITEMS ARE STANDARD EQUIPMENT INCLUDED WITH THIS MODEL. APPLICATION TESTING STANDARD LUBRICATION TESTING STANDARD LIFE TESTING STANDARD **NEW PRODUCT RESEARCH** STANDARD **NEW PROCESS RESEARCH** STANDARD APPLICATION DESIGN ENGINEERING STANDARD FIELD SERVICE ENGINEERING STANDARD **DEFLECTION TESTING** STANDARD STRESS ANALYSIS STANDARD BEARING SETTING TECHNOLOGY STANDARD STANDARD SEAL DESIGN

HE SERVICES Timken[®] bearings come loaded with give you extra value. In fact, they could save you thousands of dollars.

CONTRACTOR OF THE PARTY OF THE PARTY.

At your design stage, our engineers can suggest ways that smaller, lighter, less-expensive tapered roller bearings can help you come up with smaller, lighter, less-expensive gear boxes, spindles, differentials, or whatever you're developing.

Our labs can share the results of the thousands of hours of appli-

cation, lubrication and bearing-life testing we run every year—crucial data that would cost huge amounts of manpower and money to generate yourself.

CONTRACTOR OF THE PROPERTY OF THE PARTY OF T

One of our service representatives can show you ways to get Timken bearings from receiving dock to assembly station faster with less chance of damage. And how to speed up production with one of our many automated bearing-setting methods.

No other tapered roller bearings we know of are so well equipped to help you do your job.

Shouldn't you give them a spin? The Timken Company, Canton, Ohio 44706.

IT'S NOT JUST WHAT WE MAKE.
IT'S WHAT WE KNOW.

TIMKEN[®] TAPERED ROLLER BEARINGS



## Timken Company has computerized the Bearing Selection Handbook

Until now, the best available source for selecting tapered roller bearings has been the Timken Company Bearing Selection Handbook. Although time consuming, bearing selections can be made by an engineer using the Handbook and a calculator as working tools. This manual process does not always assure that the best bearing has been selected for the project. The use of more sophisticated calculators and computers has improved the process somewhat, but the iterative process of estimating a solution, checking the results, trying another solution and then proving the calculations is still a time consuming, tedious process.

"SELECT-A-NALYSIS" is a Timken Company developed computerized time-sharing service that simplifies the selection of bearings. This program not only helps you select and specify bearings faster, but also selects the best combination of bearings based on the parameters you choose. With "SELECT-A-NALYSIS", an engineer can select bearings to meet specific life requirements . . . based on either catalog or lubrication-adjusted life. Selections can also be made by specifying bearing dimensional requirements. Or if you desire, specify both life and dimensional constraints, and the program will show you the best selections.

The system can analyze and select bearings from input loading conditions described by gear data, power, torque or speed histograms; external, radial and thrust loads; moments and couples. A maximum of 20 gears may be described per shaft with as many as four of the gears transmitting power simultaneously.

In addition to gear loads, "SELECT-A-NALYSIS" will consider up to ten external radial loads and ten external thrust loads as well as a total of 50 different operating conditions per shaft. Both single-row and two-row bearing The Timken Company takes pride in the quality of its tapered roller bearings and steel products. Likewise, we are proud that our customers have acknowledged our accomplishments through special quality recognition and certifications of valued supplier status.

#### **United States**

Association of American Railroads The Bendix Corporation Borg-Warner Corporation* The Budd Company Caterpillar, Incorporated* Chrysler Corporation* Consolidated Diesel Company Cummins Engine Company Incorporated Dayton-Walther Corporation Detroit Diesel Allison Division of General Motors Corporation* Deere & Company* Eaton Corporation Fairmont Railway Motors Div. of Harsco Corporation Ford Motor Company* General Motors Corporation* The B.F. Goodrich Company Goodyear Aerospace Corporation* Harley-Davidson Motor Co. Inc. Hydra-Matic Div., General Motors Corporation Mercury Marine Division of Brunswick Corporation* Michigan Export Company Rockwell International Corporation Saginaw — Century 21 Saginaw Div. Buffalo Plant/ General Motors Corporation Saginaw Div. Detroit Plant/ General Motors Corporation Stanadyne, Inc. The Toro Company* TRW Inc. Twin Disc. Incorporated

#### **Australia**

A.M.I. Toyota Limited
Borg Warner (Australia) Limited
Ford Motor Company of Australia
Limited
The Institute of Engineers,
Australia
International Harvester Australia
Limited
Nissan Motor Manufacturing Co.
(Australia) Limited

#### Brazil

Ford Brasil S.A. General Motors do Brasil S.A.

#### Canada

Ford Motor Company of Canada Ltd. General Motors of Canada Ltd. Kelsey-Hayes Canada

#### **Great Britain**

British Railways Board
Caterpillar Tractor Company
Limited
J. I. Case (Europe) Limited
Ford Motor Company
Jaguar Cars Limited
Lucas CAV Limited
Ministry of Defence
Unipart Group Limited
United Kingdom Civil Aviation
Authority
Westland Helicopters Limited

#### South Africa

Borg-Warner S.A. Nissan S.A. Samcor Toyota S.A. Volkswagen S.A. ards since our founder. Henry Timken, invented the tapered roller bearing in 1895. Current goals for quality go far beyond our long-standing ability to manufacture bearings whose parts are interchangeable throughout the world. Today, we are meeting customer requirements for ever higher performance standards for bearings — the highest in industrial history.

)

ij

One of our customers hopes to build a truck engine with a life expectancy of 1,000,000 miles. We can deliver a bearing for this engine that exceeds this performance specification. That's quality.

Our customers have eliminated costly receiving inspection of their purchased parts. We. therefore, provide them with evidence that our products are made right the first time and every time. Statistical Process Control (SPC) is but one method we use to document product quality. Rather than inspect quality into our products, we use very powerful SPC techniques to focus on process execution, the precise mathematical measurement of performance against specific tolerances at every manufacturing stage. We build quality into our products.

^{*}More than one location

#### Howard Industries, Booth 540

Ac and brushless de tube axial convection cooling fans form line that features redesigned housing and free-vortex impeller assemblies. Redesigns in "Quiet Force" fans result in improved aerodynamic and acoustic properties under peak operating conditions.

### New generation of drafting plotters being introduced at Spring Design



Hewlett Packard, Booth 518

Hewlett Packard has chosen this year's Spring Design Show for the unveiling of its HP DraftMaster family of new-generation, eight-pen plotters. The family consists of single-sheet feed, rollfeed and personal computer drafting plotters offering 50 percent higher proughput and as much as 30 percent lower prices, according to the company.

### Electromagnetic bearings deliver zero friction, need no lubrication

Magnetic Bearings Inc., Booth 1374

Non-contact electromagnetic bearing systems need to lubrication and deliver non-contact zero friction. Non-contact bearings levitate and maintain rotor in the center of a magnetic field to dramatically extend bearing speeds and increase cotational accuracy. Non-contact, active magnetic bearings also operate at extreme temperatures and in hostile environments while decreasing-maintenance costs and down-time.

### Self-lubricating powder metallurgy parts represent cost savings

Metal Powder Industries Federation, Buoth 2162

Powder metallurgy parts will be on display at booth. P/M parts provide cost savings and complex designs. Parts can make use of unique combinations of materials, and are self-lubricating. For more information or for copies of "Powder Metallurgy Parts Buyers' Guide", see representatives.



Lynn Plastics Corporation
Custom Thermoplastic Compounds
for Industry

### Linear way has low sectional height, high corrosion resistance

IKO International, Inc., Booth 363
Stainless made linear way joins LWL series.
Way's outstanding corrosion resistance, high-load ratings and high accuracy are delivered while retaining how sectional height. Company representatives at show booth can answer questions or distribute literature.

### Tapered roller bearing lasts three times longer



#### NTN Bearing Corp. of America, Booth 1990

Lifespan of tapered roller bearing, the ET endurance tapered model, tests three times longer than standard models, according to company. Longevity is credited to combination of improved carburized steel with special heat-treating process. Reliability is significant for uses in automotive, construction equipment and agricultural equipment industries.

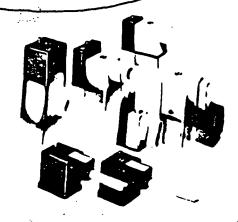
# Wireforming, metal stamping performed to specification using variety of materials

Dorco Manufacturing Inc., Booth 292
Precision wireforming and metal stamping provided by company. Ferrous and nonferrous materials can be bent, cut, welded, threaded, buffed, punched, pierced, drilled, tapped and ring-formed to specifications. Operations are performed in both low and high carbon bright basic, stainless steel, music and pre-tinned materials. Fraumg, painting, coating and heat treating are available.

# Quick-connect coupling unit offers superior airflow, needs only one hand to connect

Hansen Manufacturing Inc., Booth 2445
Auto-Flo coupling is quick-connect unit that connects and disconnects with one hand. Unit offers leak-free seal; strong, durable body; and superior air flow for all types of compressor air systems. No manual sleeve retraction is needed and four stainless steel locking balls provide extra strength. Auto-Flow 21 suits any application where high flow and air pressures up to 300 psig are required.

### Suppressors/LED indicators for Solenoid Valves



# Push-on solenoid valve suppressors for control system

- O Suddito for all extenses when
- O Fast and service service
- Ma water recommend
- C Suppression for the second
- CED indicator of operation
- 130 River Road + Building ( + Moneyone, N.J. 07045 p. (201) nea-

The remaining 42 pages of Appendix D that were provided in the staff report to the Commission contained confidential business information and consequently are not included in this report.