## PROBLEMS OF TRADE IN CERTAIN NATURAL RESOURCE PRODUCTS Background Study on Lead and Lead Products

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### INTRODUCTION

The present study on lead forms a part of the series of factual background papers prepared by the GATT secretariat on non-ferrous metals. These studies were undertaken in accordance with the Decision taken by Ministers at the Thirty-Eighth Session of the CONTRACTING PARTIES in November 1982 in relation to Problems of Trade in Certain Natural Resource Products. The Decision called for the examination of problems relating to trade in certain natural resource products including in their semi-processed and processed forms, falling under the competence of the General Agreement relating to tariffs, non-tariff measures and other factors affecting trade with a view to recommending possible solutions.

This study provides information on lead and lead products covering the following CCCN positions: ex 26.01, ex 26.03, 28.27, ex 28.30, ex 28.35, ex 28.38, ex 28.39, ex 28.42, ex 28.48, 78.01, 78.02, 78.03, 78.04, Section I gives background information on some of the 78.05. 78.06. salient features of the lead industry. Section II briefly reviews developments with regard to production, consumption and prices since 1960. Section III provides information on world trade in lead ores and concentrates, lead bullion, and refined lead for the period 1975 to 1985 as well as the direction of trade of these products by main exporting and importing countries in 1985. Section IV provides detailed information on trade flows on tariff line basis together with tariff treatment in fifteen developed-country markets and some developing countries. Section V describes activities in some international organizations, notably the International Lead and Zinc Study Group.

### SUMMARY

- After rising substantially during the 1960s and early 1970s, world consumption of lead was affected, like other major non-ferrous metals, by the slower growth of the world economy since the first world energy There have also been significant changes in the pattern of consumption, particularly in developed countries which are the major consumers of lead. The battery industry has continued to strengthen its position as the dominant user of lead, now accounting for well over 50 per cent of total lead consumption. Technological changes and competition by alternative materials have affected consumption in some of lead's other traditional markets such as cable sheathing, lead piping and type metal for the printing industry, while environmental regulations are restricting increasingly the use of lead additives in gasoline. Future growth in consumption will therefore be linked closely to the activity in the battery industry unless any major new uses of lead are developed. Although improved battery technology has reduced the quantity of lead used in typical automobile batteries (while at the same time improving their performance), the increasing use of specialized battery-driven vehicles, notably for airport and dockside equipment, and other expanding markets for batteries (load levelling and small portable batteries) should help to sustain lead consumption. The combination of such developments and continued expansion of consumption in developing countries could result in continued growth in world consumption.
- World primary lead production has been increasingly influenced by 2. price movements of zinc and silver as most lead is produced in combination with these metals. The major lead mines developed since the early 1970s include the Black Mountain mine in South Africa, the West Fork and Casteel mines in the United States and several mines in Morocco. All other new mines such as Tara in Ireland, Polaris in Canada, and Woodlawn and Elura in Australia are lead and zinc mines where zinc is the principal product, together with significant quantities of silver as a by product. probable that in the future the output of primary lead will continue to be influenced by market trends in silver and zinc as well as by demand for In 1985, four countries - the USSR, Australia, the United refined lead. States and Canada - were responsible for about 50 per cent of world mine output which amounted to 3.5 million tons. Among developing countries the major mine producers of lead were Mexico, Peru, the People's Republic of China and Morocco.
- 3. In contrast to stagnating primary lead production, production of refined lead from secondary sources has increased. In recent years, recycling of secondary lead materials, principally from lead batteries, has represented about 40 per cent of total lead production. Most secondary lead is produced in developed countries which generate large domestic supplies of lead scrap. New secondary lead plants have been

built in some developing countries as the quantities of locally-available scrap materials have become sufficient to justify them. It is expected that the volume of secondary output will continue to vary from year to year in relation to demand for refined lead and movements in the price level for scrap materials compared with those for refined lead.

In 1985 the volume of trade in lead ores and concentrates represented 17 per cent of world production, and about 6 per cent and 14 per cent of world smelting and refining production, respectively (without trade among centrally-planned economies and intra-EEC trade). On the basis existing market conditions, and commercial and trade policies, no major changes are anticipated in the present pattern and structure of world trade in lead. Peru, South Africa, Australia and Canada will remain the major exporters of lead ores and concentrates. However, the development of Alaska's Red Dog project and other planned Alaskan projects are likely to make the United States a significant lead concentrates exporter. With respect to refined lead exports, Australia, the EEC and Canada will continue to be the major exporters of this product. Nevertheless, most of increase in refined lead exports are expected from developing countries, particularly Peru and Mexico, and from Australia. importers of lead ores and concentrates will remain developed countries, namely the EEC, Japan, and the USSR. The United States and the USSR are likely to continue to be the principal importers of lead metal.

### SECTION I

### MAIN FEATURES OF THE LEAD INDUSTRY

### Properties of lead and lead reserves

- 5. Lead is one of the oldest metals used by man. Its universal use has been conditioned by its important properties, including its low melting temperature, its excellent castability and malleability, its density and metallic impermeability. Of the common metals, lead is the most corrosion-resistant to acids, chlorine and water. It has a low electrical conductivity and is suitable for use in alloys and compounds with specific properties. According to the classification of industrial materials, lead belongs to heavy metals.
- 6. From the geochemical point of view, lead is closely associated with zinc and presently about 63 per cent of lead produced comes from lead-zinc ores. The most important lead ore for recovery of the metal is lead glance or galena (PbS, containing about 86.6 per cent of Pb), which is often associated with sphalerite (ZnS), pyrite (FeS $_2$ ), chalcopyrite (Cu Fe S $_2$ ), and other sulphides or sulphosalts, any of which can be recovered to yield by-products or co-products. The relatively high value of silver in recent years has given added importance to the recovery of lead from silver-lead ores.
- 7. Lead resources are widely scattered and abundant throughout the world. Table I indicates that in 1985 world lead reserves were estimated at 95 million tons. The United States has the largest reserves of lead with over one-fifth of the world's total. Other most important lead deposits are located in Australia (16.8 per cent), the Soviet Union (12.6 per cent) and Canada (12.6 per cent). In Latin America, lead deposits are found in Mexico, Peru, Honduras, Brazil and Bolivia and in Asia, in the People's Republic of China, India, Burma, Thailand and Japan. Africa has lead deposits in the Republic of South Africa and Morocco as well as in Tunisia, Algeria, Zaire and Zambia. European countries with extensive deposits of lead are Yugoslavia, Bulgaria, Spain, Poland, Portugal, Sweden and Ireland.

### Lead processing

8. Over 80 per cent of the lead-producing mines in the world are underground operations. Many of the remainder also have underground operations integrated with the open pits, such as Old South Mine at Broken Hill in Australia. The only large open lead mine in the world is at Khemfra, Morocco, but several very large open pit zinc-lead mines are located in Australia, Canada, Spain and the USSR.

TABLE 1
WORLD LEAD RESERVES (1985 ESTIMATES)

	Million tons lead content	of total
World	95.0	100.0
Developing countries	<u>15.0</u>	15.8
Honduras	0.5	0.5
India	2.0	2.1
Mexico	3.0	3.2
Morocco	1.5	1.6
Peru	2.0	2.1
Yugoslavia	4.0	4.2
Other	2.0	2.1
Developed countries	61.0	64.2
Australia	16.0	16.8
Canada	12.0	12.6
Ireland	1.0	1.1
Portugal	1.5	1.6
South Africa	4.0	4.2
Spain	2.0	2.1
Sweden	1.5	1.6
United States	21.0	22.1
Other	2.0	2.1
Centrally-planned economies	19.0	20.0
Bulgaria	3.0	3.2
China, P.R.	2.0	2.1
Poland	1.5	1.6
USSR	12.0	12.6
Other	0.5	0.5

Reserves are that part of the reserve base that could be economically extracted or produced at the time of determination and include only recoverable materials (according to United States Geological Survey Circular 831, Principles of a Resource/Reserve Classification for Minerals, 1980).

Source: United States Bureau of Mines, Department of the Interior, "Lead - A Chapter from Mineral Facts and Problems", 1985

- 9. Ore dressing and concentration processes of various types separate the metal-containing mineral from the barren rock. Presently, the flotation process is applied to about 60 to 70 per cent of lead ores. Lead concentrates are then shipped to smelters for further processing which includes the following stages:
  - (a) The roast-reduction process effects the removal of sulphur by roasting in air, which converts lead sulphide to lead oxide.
  - (b) The sintered product is smelted along with coke, fluxes and dross to produce lead bullion, slag and fume.
  - (c) Drossing reduces impurities and removes zinc and copper from the bullion by controlled cooling.

The operation of reduction and smelting is performed in the shaft furnace. The Imperial Smelting (IS) Process developed in the 1960s is an improved shaft furnace process and is particularly suitable for the processing of lead-zinc concentrates. In recent years, new direct pyrometallurgical processes have been developed to laboratory or pilot plant scales in which roasting of the sulphides, and reduction and smelting of the charge are accomplished simultaneously in the same reactor. These await application in plants of commercial scale.

- 10. About 70 per cent of lead bullion is refined by pyrometallurgical methods and 30 per cent by electrolysis. Refining removes all impurities which remained in the lead bullion, and at the same time extracts different elements such as zinc, silver, copper, gold, bismuth and antimony. The production of lead is so closely inter-related with that of other elements that both its production rate and market price are influenced to a large degree by the supply and demand situation of these related elements. Energy requirements for lead production including mining, concentration, smelting and refining processes are the lowest of any of the major metals. Approximately 29.5 million British thermal units (Btu) is required to produce 1 metric ton of refined lead, which is about 25 per cent of that required for copper, and less than one-half that of zinc. About one-third of the energy is consumed in the mining and beneficiation stages for lead. The major problem facing the lead industry in many countries is the high costs of controls to meet standards promulgated by governments related to worker health and environment.
- 11. Pure refined lead with the minimum purity from 99.85 per cent to 99.9999 per cent is commonly referred to as "soft lead". Most of the soft pig lead consumed in the world is specified at the London Metal Exchange (LME) Grade Pure Lead minimum of 99.97 per cent (however, almost all primary refineries achieve 99.99 per cent purity in the desilverization process). Unwrought lead at its different degrees of purity, from impure lead bullion or argentiferous lead to electrolycally

refined lead, may be obtained in cast blocks, ingots, slabs, cakes and similar forms. Most of these forms are used for rolling and extrusion of lead semi-manufactures, for manufacture of alloys, or for casting into shaped articles.

12. Secondary lead production, i.e. lead recovered from finished products which have been scrapped after use and from scrap materials arising during fabrication, plays an important rôle in the supply of lead. Recycling of secondary materials is economical because it uses much less energy than primary metal production. It is also important as an anti-pollution measure for the environment. It is estimated that secondary materials, including purchased product and metal process waste (new scrap), have provided nearly 50 per cent of the total world's use of lead in recent years and over 40 per cent of consumption of fully refined lead. Because of corrosion resistance, many lead products remain virtually unchanged during their lifetime and the recovery of lead content is not difficult. The main sources of scrap - between 85 per cent and 90 per cent - are worn-out, damaged or obsolete fabricated products such as battery plates and oxides, cable covering, pipe, sheet, and strip and solder.

### Industrial application of lead

13. Lead uses may be divided into two categories: metallic, where it is used alone or alloyed with other elements; and chemical, where lead is used in the form of chemical compounds. The largest use of lead is in storage batteries for vehicles, communications, and electric utilities. Another significant use of lead as an anti-knock additive to gasoline (lead tetraethyl) has been declining due to the regulations now in force in many countries restricting the lead content of gasoline. Lead is also in the manufacture of bearings because of its qualities of lubrication and resistance to wear. Although there has been some decline the use of lead in construction as a result of substitution. consumption of lead in roofing, fittings, etc., is still large notably in the United Kingdom. Lead is the most impervious of all common metals to x-ray and gamma radiation and for this reason it is widely used in the medical field and structures containing nuclear material. Sheet lead is also used in the chemical industry to provide corrosion protection for process vessels, transportation equipment, and toxic waste storage. Lead continues to be the major metal used for sporting ammunition. also used in packaging, glass, porcelain enamel, the glaze of ceramics and as P.V.C. stabilizers. Oxides of lead are used as oxidising agents in the manufacture of dyes, matches, rubber substitutes, adhesives, and in oil refining.

### Substitutes of lead

14. No commercially viable replacement to the lead acid storage battery has so far been developed despite research into a number of alternative

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combinations of metals and non-metals such as nickel-iron, nickel-sinc, zinc-bromine, zinc chloride, lead-chloride, lithium-chloride, lithium-sulphur, and lithium-iron sulphide. Most of these can potentially match or exceed the specifications of the lead-acid cell. However, the cost of components, including the economies of recycling, as well as difficulties that include safety in some cases which would arise in operating such batteries, have precluded large-scale commercial development. In construction, lead competes with plastics, galvanized steel, copper and aluminium. Copper, plastic and cement-asbestos piping are substitutes for lead in piping. Iron and steel are alternative materials for lead in shot for ammunition. Plastics, aluminium, tin and glass are substitutes for lead in tubes and containers. Depleted uranium metal and steel replace lead for storage containers and transportation of radioactive materials.

### Structure of the lead industry

15. The primary lead industry is highly integrated in the United States where Asarco and the Doe Run Company are now the only two producers of primary refined lead. In general, outside the United States, the primary lead industry tends to be less integrated as many producers are relatively small consumers and export a large part of their output as concentrates, bullion or refined metal. Many European metal producers are indirectly integrated with overseas mines or smelters through long-term or run-of-mine contracts. ASARCO of the United States has similar overseas relationships. Many primary smelters and refiners, particularly those in developed countries, also recover lead from secondary materials in addition to primary concentrates and bullion. Moreover, there are a large number of independent secondary lead plants using scrap materials only. Lead production in centrally-planned economies is State-owned. There are State-owned mining and/or smelting and refining companies in some other countries also (Bleiberger Bergwerks-Union AG in Austria, Corporacion Minera de Bolivia in Bolivia, Hindustan Zinc Ltd. in India, Centromin in Peru, Industria Minera in Mexico, RMHK Olovaicinka Trepca in Yugoslavia and Zambia Consolidated Copper Mines in Zambia).

Physical properties of lead:

Symbol: Pb (Plumbum)

Density at 20°C g/m<sup>3</sup>: 11.34

Atomic number: 82 Atomic weight: 207.19 Melting point: 327.4°C Boiling point: 1,751°C

Electricity conductivity/m ohm -1 cm -1: 0.0484

Frequency ppm: 12.5

According to the criterion of use as industrial materials, the technically most important non-ferrous metals, excluding the precious metals, may be classified as follows:

(a) heavy metals: lead, copper, zinc and tin;

(b) light metals: aluminium, magnesium and titanium;

(c) steel improving agents (as alloying metals) or special metals (as base metals): chromium, cobalt, manganese, molybdenum, nickel, vanadium and tungsten;

(d) other alloying or special metals: antimony, cerium, hafnium, cadmium, lanthanum, lithium, niobium, mercury, rhenium, silicon, tantalum, bismuth, yttrium and zirconium.

Source: Non-ferrous metals, Metallgesellschaft AG

Resources as distinct from reserves are defined as total known deposits regardless of whether or not they can be mined at profit under current economic conditions. Reserves are the proportion of identified resources that are economic to extract given current prices and costs. Large fluctuations in costs and prices, especially the latter, which occur over relatively short periods, may lead to large fluctuations in the level of reserves, particularly for those countries with large marginal deposits. Source: The United States Bureau of Mines and the United States Geological Survey Resource and Reserve Classification for Minerals

The quantities used throughout this study are metric tons unless otherwise specified.

United States Department of Interior, Bureau of Mines: Mineral Facts and Problems, 1985 Editions.

United States Department of Interior, Bureau of Mines: Mineral Facts and Problems, 1985 Edition.

 $^{7}$ Because of its low melting point lead is easily alloyed with other elements. The principal lead alloys which may fall within Chapter 78 Fre the following:

(1) lead-tin alloys used, for example, in lead based soft solders, in terne-plate and in foil for the packing of tea;

(2) lead-antimony-tin alloys used for printing type and in antifriction bearings:

(3) lead-arsenic alloys used for lead shot:

(4) lead-antimony alloys (hard lead), used for bullets, accumulator plates, etc.

(5) lead-sodium, lead-antimony-cadmium, lead-tellerium alloys.

<sup>8</sup>International Lead and Zinc Study Group

United States Department of the Interior. Bureau of Mines: Lead - A Chapter from Minerals Facts and Problems, 1985 Edition.

### SECTION II

### PRODUCTION, CONSUMPTION AND PRICES

### Mining

- 16. World mine production of lead increased fairly rapidly until the early 1970s, from about 2.4 million tons in 1960 to a peak of 3.7 million tons attained in 1973. Since then, lead mine production has remained generally stagnant at around 3.5 million tons annually and has shown little tendency to vary according to changes in demand for lead. Substantial declines in output occurred in 1981 and 1984 mainly due to industrial disputes in the United States and Canada. losses from Available data for 1986 indicate that lead mine production further declined and was at its lowest level since 1968. The fall of 130,000 tons (3.5 per cent) was principally in the United States where the Buick mine was closed temporarily, and in Australia where output was affected by an industrial dispute. There was also some fall in production of Morocco where the Zaida mine was closed in late 1985. As can be seen from Table 2, between 1960-1985, mine production of developing countries increased by However, in the same period their share in total world production declined by 8 percentage points, to 24 per cent in 1985. mine production of developed countries increased by 48 per cent in the same period, though their share in world mine production in 1985 was at the 1960's level of about 47 per cent. In contrast, mine production of centrally-planned economies was estimated at around 1 million tons in 1985, almost twice as high as in 1960. This resulted in an increase of their share in world mine production, from 24 per cent in 1960 to over 28 per cent in 1985. In 1985, four countries - the Soviet Union, Australia, the United States and Canada - were responsible for about 50 per cent of world mine production of lead (16.7 per cent, 13 per cent, 12.3 per cent and 8.2 per cent, respectively). Other principal mining countries were Mexico, Peru, the People's Republic of China, South Africa, Morocco, Yugoslavia, Bulgaria, Spain, the People's Republic of Korea, Sweden, Poland, Japan and Ireland. Chart I shows the major lead mine producers in 1960 and 1985.
- 17. According to the International Lead and Zinc Study Group<sup>2</sup>, the two main factors governing lead mine production are:
  - the high proportion of lead mine output produced in combination with other metals, notably zinc, silver and to a much smaller extent, copper<sup>3</sup>;
  - (2) movements in prices of zinc, silver and other by-products as well as of lead and hence the combined return secured by mines based on mixed ore bodies.

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Horocco	95	77	76	93	70	161	152	168	193	187	8.1	6.1		5.6	4.6		4.3	4.7	5.7	5.4	1
Peru	132	171	174	204	155	184	115	105	99	107	4.0			2.5		3.1	3.2	3.0	2.9	3.1	ł
Romenie*	12	15	40	45	36	' 'X	23	27	196	201	5.6	6.1		5.6			5.3	5.0	5.8	5.8	1
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Yugoelavia	91	106	127	119	127	130	121	1113	102	98	3.8	0.5		0.4		0.3	0.2	0.1	0.1	0.1	ı
Zambia	15	35	33	37	26	17	15	24	25	22	0.6	1.3	1.0	3.2		3.6	3.4	3.2	3.0	2.8	1
Other	36	30	20	24	19	31	35	52	47	52	1.5	liii	0.6	0.7		0.5	0.4 1.0	0.7	0.7	0.6	ı
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Australia	306						ł	1								~>	<b></b> .1	50.2	46. 5	47.3	ı
Austria	7U5	361 5	441	395	395	402	382	438	418	474	12.9	13.0	12.8	10.8	11.0	11.2	10.7	12.3	12.4	13.0	ı
Canada	193	275	357	5 401	6	5	4	4	4	6	0.2	0.2	0.1	0.1		0.1	0.1	0.1	0.1	.0.2	ı
EEC1)					353	342	297	341	307	285	8.1	9.9	10.4	10.9	9.9	9.5	8.3	9.6	5.1	8.2	į
Demzark	214	175	256	241	229	293	283	213	227	206	9.0	6.3	7.4	6.5	6.5	8.2	7.9	6.0	6.8	5.9	l
(Greenland)	,	_		6													1	•••	ا	7.7	l
France	18	18	29	25	23 22	32	29	26	18	18	0.3	-	-	0.2	0.6	0.9	0.8	0.7	0.5	0.5	ļ
Germany, P.R.	51	52	43	40	39	30 33	29 31	6	2	3	0.8	0.6	0.8	0.7	0.6	0.8	0.3	0.2	0.1	0.1	ı
Greece	13	•	9	19	14	22	22	30 19	27	26	2.2	1.9	1.2	1.1	1.1	0.9	0.9	0.9	0.8	0.7	l
Ireland	1	ا و	63	57	37	69	58	39	37	20 35	0.5	0.3	0.3	0.5	0.4	0.6	0.6	0.5	0.7	0.6	l
Italy .	50	35	35	- 27	29	28	23.	16.	21	15	0.1 2.1	0.1	1.8	1.5	1.0	1.9	1.6	1.1	1.1	1.0	ĺ
Spain	73	56	73	64	59	74	87	73	96 .	86	3.1	2.0	1.0	1.7	0.6	0.8	0.6	0.5	0.6	0.4	Ì
United Kingdom	. 1	2	4	3	6	5	4	4	4	3	0.1	0.1	0.1	0.1	0.2	2.1 0.2	2.4	2.!	2.9	2.5	ı
Finland Japan	2	6	5	2	1	1	1	2	3	2	0.1	0.2	0.1	0 1	0.1	0.1	0.1	0.1	0.1	0.1	ı
Vorus	40	56	64	53	51	41	45	46	49	5Ö	1.7	2.0	1.9	1.4	1.4	1.3	1.3	1.1	0.1	0.1	ı
South Africa 2)	65	110	71	3	3	3	3	4	4	3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	ı
Svedan	55	69	78	63 76	53 69	42	132	124	137	123	2.7	3.9	2.1	1.7	1.5	1.2	3.7	3.5	4.1	3.5	ı
United States	233	284	540	570	577	84 537	70 573	#0	80	76	2.3	2.5	2.3	2.1	1.9	2.3	2.0	2.3	2.4	2.2	Ì
Controlly planed				<i>"</i> "	,,,	337	3/3	530	335	427	9.4	10.2	15.7	15.5	16.2	15.0	16.0	14.9	10.0	12.3	
Steermins	571	709	815	979	1051	1014	992											- 1	- 1		
of which:		***		""	-434	VATA	222	969	977	907	24.0	25.4	23.7	26.7	27.5	26.3	27.8	27.2	29.0	28.4	İ
Bulgaria	95	100	99	105	108	108	100	95	95	97		ا ہے ا		ا ۽ ۽ ا				- 1	- 1		l
Poland	39	41	57	68	77	57	48	45	53	51	4.0	3.6 1.5	2.9	2.9	3.0	3.0	2.5	2.7	2.8	2.8	
USSR+	300	400	470	570	600	590	580	375	370	580		14.3	1.7	1.5	2.2	1.6	1.3	1.2	1.6	1.5	
China, P.R.+	80	100	110	130	140	155	160	160	165	175	3.4	3.6	3.2	3.5	16.9	16.5	16.3			16.7	
Korea, P.R.*	50	60	70	100	120	100	100	90	50	80	2.1	2.1	2.0	2.7	3.3	2.8	4.5	4.5	4.2	5.0	
Other	7		,	6	6	4	4	4	4	4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	2.5	2.7	2.3	
	1							•			1					· · ·	***	***	٠.١	J.,	

For comparative purposes, total figures for the EEC include twelve member states for the whole period.
 Including Hambia.
 Estimates.

Source: International Lead and Zinc Study Group.

Definition: Lead content by analysis of lead ores and concentrates plus the lead content of other ores and concentrates known to be intended for lead recovery.

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Source: GATT based on statistics compiled by the International Lead and Zinc Study Group.

As with all mines, there is also the desire to utilize capacity as fully as possible in order to reduce operating costs. From the major producers, only the United States, Morocco and more recently, South Africa obtain lead predominantly from lead ores. In contrast, production in other countries is almost entirely from mixed ores. Therefore, the rising levels of zinc and silver production, result in "involuntary" lead production, regardless of the state of the lead market.

18. In the period under consideration, the major developments in lead mine capacities were the opening of the Missouri lead mines in the United States in the mid-1960s, the Black Mountain mine in South Africa, completed in 1980, and several mines in Morocco. All the other substantial new mine capacities which were established after the Missouri mines, such as the Tara Mine in Ireland, the Polaris Mine in Canada, and the Woodlawn and Elura Mines in Australia, are zinc/lead mines in which zinc is the major metal and with important quantities of silver as a by product. Thus, the more recent new mine capacity for lead coming into operation has just offset the reductions in capacity from mine closures and, except for South Africa, has been linked largely to expansion of zinc mine capacity.

### Production of refined lead

- 19. World smelting and refining capacities expanded substantially in the 1960s and early 1970s. Consequently, as Table 3 shows, world production of refined lead increased from 3.2 million tons in 1960 to almost 5 million tons in 1973, at an annual rate of growth of 3.5 per cent. World production of refined lead reached a peak of 5.6 million tons in 1979; however, its annual growth rate averaged only 2.1 per cent between 1973 and 1979. Subsequently, world production fell sharply in the early 1980's but recovered to the 1979 peak by 1985. According to available data, in 1986 refined metal production in market-economy countries fell by 200,000 tons mainly as a result of lower output in the United States, Europe (mainly in Spain), and Australia, and to a lesser extent, in Mexico and Japan.
- 20. The smelting and refining of lead is mainly performed in developed countries whose share in world production of refined lead fluctuated between 60 per cent and 64 per cent in the period under consideration. In 1985, developed country production of refined lead amounting to about 3.4 million tons was almost 1.5 million tons higher than their production in 1960. In the same year, production of refined lead in centrally-planned economies was estimated at 1.4 million tons, twice as high as their production in 1960. In this period, the share of these countries in world production rose by about two percentage points to 24 per cent in 1985. Between 1960 and 1985, refined lead production of developing countries grew about 2.1 per cent annually. The major increase

1 WHILE PRODUCTION OF METERN LAND, 1940-1965

1	10-	sand :	mtrie	-							-	out ag	- 4			التراد هما				. :
	1900	1965	1990	1973	1973	1979	1980	1999	1000	1000	2000	1000	1000	_	حصنا	_	144	100	1004	
Nor14	3277	3714	1480	4991	4046	5622	5405	5272	5437	5618	100.0	100.0	120.0	100.0		160.0	-	300.0	199.9	100.0
hvoloping Countries of which:	406	509	567	601	663	773	703	604	739	825	15.1	13.7	12.1	12.2		14.0	-	13.0	13,4	14.8
Algeria					4	5	,													
Argentine	29	,	<u> </u>	44	64	53	4	31	31	35	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0. t
Brasil	10	10	×	39	63	94	85	4	"	73	0.9	1.0	0.8	1.0	1.3	1.0	0.8	0.6	0.6	0.6
India	4	3	2	7	15	21	26	21	I	%	0.1	0.1	0.5	1.2	0.3	1.7	1.6	G.9	1.2	1.3
Kores, Rep. of	. 2	2	4	4	6	13	15	16	19	20	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4 0.3	0.4
Mexico	173	164	175	167	176	208	159	153	172	203	5.4	4.4	3.7	3.3	3.6	3.7	2.9	2.9	3.2	3.6
Herecce	31	17	25	1	,	37	42	59	44	63	1.0	0.5	0.5	0.0	0.2	0.7	0.8	1.1	0.9	i.i
Peru Romania+	74	87	74	96	75	90	87	80	72	83	2.3	2.3	1.6	1.7	1.6	1.6	1.6	1.5	1.3	1.5
Taives	12	16	35	40	45	41	41	46	46	47	0.4	0.4	0.7	0.6	0.9	0.7	0.5	0.9	0.8	0.5
Tueisia	20	15	5	5	6	20	24	35	44	49	0.1	0.1	0.0	0.1	0.1	0.4	0.4	0.7	0.8	0.8
Yugoslavia	20	101	23 97	27 96	24 130	17	19	15		4	0.6	0.4	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1
Zambia	15	22	27	27	19	111	102	99	112	129	2.7	2.7	2.1	2.0	2.7	2.0	1.9	1.9	2.1	2.3
Other	21	25	22	34	27	46	44	15	76	10	0.5	0.6	0.6	0.5	0.4	0.2	0.2	0.3	0.2	0.2
	••	• • •	• • •		2'		40	79	<b>'^</b> '	<b>9</b> 1	0.6	0.7	0.5	0.7	0.6	0.8	0.8	1.1	1.4	1.6
Melaped Countries of which:	1953	2313	3081	3232	30:9	3566	3421	3285	3377	3413	60.5	62.3	65.7	64.8	62.3	62.4	63.3	62.2	62.1	60.8
Avetralia	209	219	213	221	193	248	234	247	219	216	6.5	5.9	4.5	ii			ا ا	آبا		
Avetria	11	12	13	15	15	17	17	22	26	25	0.3	0.3	0.3	4.4 0.3	4.0	4.4	4.3	4.7	4.0	3.8
Compda	164	209	221	237	216	252	235	239	254	260	5.1	5.6	4.7	4.7	4.5	4.5	0.3	0.4	0.5	0.4
ssc1)	723	803	1165	1230	1166	1407	1348	1294	1392	1362	22.4	21.7	24.9	24.7	21.9			4.5	4.7	4.3
Selgium	87	101	89	96	103	92	106	94	120	105	2.7	2.7	1.9	2.0	2.1	22.6	22.5	22.0	22.4	24.6
Dennerk		11	16	13	14	30	24	18	10	ī	0.2	6.5	0.3	0.3	0.1	0.5	0.4	1.8	2.2	1.9
France	110	128	180	206	169	220	219	209	206	224	3.4	3.5	3.8	4.1	3.5	3.9	4.1	4.0	3.4	0.0
Germany, F.R. Greece	223	256	356	359	316	373	350	350	357	356	6.9	6.9	7.6	7.2	6.5	6.6	6.5	6.7	6.6	6.3
Ireland		7	16	21	16	22	21	3	12	14	0.1	0.2	0.3	0.4	0.3	0.4	0.4	0.1	0.2	0.2
Itely	52	53	101	100	90	7	7	10	,	9	0.1	0.1	0.1	0.1	C.1	0.1	0.1	0.2	0.2	0.2
Wetherlands	14	16	25	42	37	126 35	134	134	140	135	1.6	1.4	2.1	2.0	1.8	2.2	2.5	2.5	2.6	2.4
Portugai	2	1	i	1	3,	32	32	33	34	37	0.4	0.4	0.5	0.8	0.8	0.6	0.6	0.6	0.6	0.7
Spain :	71	54	90	120	101	129	124	133	160	168	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
United Kingdom	148	172	287	265	313	368	325	306	338	327	2.2 4.6	1.5	1.9	2.4	2.1	2.3	2.3	2.5	2.9	3.0
Finland	3	4	4	4	4	6	73		3,4	5	0.1	4.6	6.1 0.1	5.3. 0.1	6.5	6.6	6.0	5.8	5.2	5.8
Japan	136	174	275	305	252	283	305	302	363	367	4.2	4.7	5.9	6.1	0.1 5.2	0.1	0.1	0.1	0.1	0.1
New Zealand	2 [	4	4	4	5	,	7	6	6	-6	0.1	0.i	0.1	0.1	0.1	5.0	5.6 0.1	5.7	6.7	6.5
Morvay South Africa <sup>2)</sup>	2	2	1	1	1	0 !	0	0	0	ŏ	0.1	0. i	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.1
Sweden		66	4	68	68	72	78	71	67	73	-	1.7	1.5	1.4	1.4	1.3	1.5	1.4	1.2	1.3
Switzerland	55	55	55	42	37	41	39	50	73	71	1.7	1.5	1.2	0.8	0.8	0.7	0.7	1.0	1.3	1.3
United States	444	761	5 1057	1100	5 1057	1226	5 1150	3 <sup>1</sup> 1047	971	2 1025	0.1 20.0	0.1 20.5	0.1 22.5	0.1 22.0	0.1 21.8	0.1 21.8	0.1	0.1	0.0	0.0
strolly-planned				i		1											•••	.,,,	*/	10.)
Economics of which:	706	807	957	1070	1164	1283	1201	1303	1330	1370	21.9	21.9	20.4	21.4	24.0	22.8	23.7	24.8	24.5	24.4
Bulgaria*		100	ا ۔۔ ا	1			1				I									47.7
Csechoslovakia	95 15	100	99	100	110	120	118	118	114	116	2.9	2.7	2.1	2.0	2.3	2.1	2.2	2.3	2.1	2.1
Cermany, D.R.+	25	15 25	18	17	15	19	20	21	21	22	0.5	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.4	0.4
Polend	23	41	30 55	35 68	39	42	41	45	47	55	0.8	0.7	0.6	0.7	8.0	0.8	0.8	0.9	0.9	1.0
USSR+	390	460	580	650	76 700	82 780	82	79	83	87	1.2	1.1	1.2	1.4	1.6	1.5	1.5	1.5	1.5	1.5
China, P.R.+	90	110	120	130	140	170	780 175	800	800	\$10	12.1				14.4		14.4	15.2	14.7	14.4
Korea, P.D.R.+	50	55	55	70	80	70		175	200	215	2.8	2.9	2.5	2.6	2.9	3.0	3.2	3.3	3.7	3.8
Other	~i	1	"]	′2	1	70	65	65	65	65	1.5	1.4	1.2	1.4	1.6	1.2	1.2	1.2	1.2	1.2
reported Production <sup>3</sup>	) <b>a</b> o	85	63			ا ۔	ا "	_	_	-	0.1 2.5	2.3	1.8	1.6	0.0	0	0	-	-	-

For comparative purposes, total figures for the EEC include twelve member states for the whole period.

Source: International Lead and Zinc Study Group.

Definition: Total production by smelters and refineries of refined pig lead, including the lead content of entimonial lead and including production on toll in the reporting country - regardless of the type of source material, i.e. whether ores, materials remelting alone without undergoing further treatment before re-use are excluded.

<sup>2)</sup> Including Hambie.

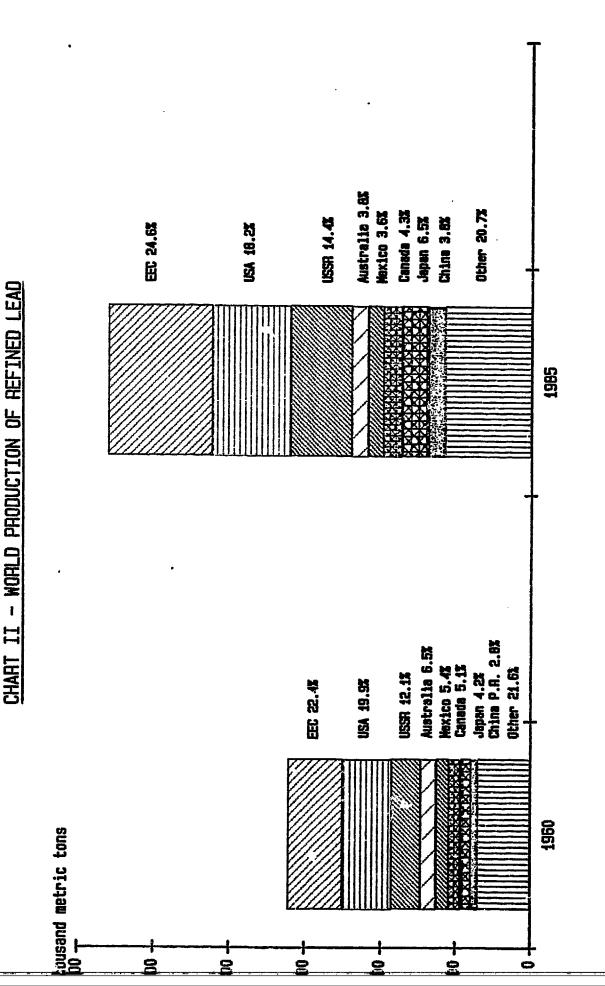
Estimates of production of refined lead and lead alloys recovered from secondary materials not included in reported data.

took place in 1985 largely as a result of higher production in Mexico, Morocco and Peru. Consequently, in 1985, the share of developing countries in total production attained almost 15 per cent, about the same level as in 1960 after having been below that level in the whole interim period. Chart II gives the percentage shares of main producing countries in world production of refined lead in 1960 and 1985. It shows that the EEC (mainly the Federal Republic of Germany, the United Kingdom, France and Spain), the United States and the USSR remained the major producers of this product accounting for about 57 per cent of world production in 1985 (24.6 per cent, 18.3 per cent and 14.4 per cent, respectively). Other principal producing countries were Japan, Canada, Australia, the People's Republic of China, Mexico, Yugoslavia and Bulgaria.

- 21. As mentioned in paragraph 12, secondary lead production plays an important rôle in world lead supply. The output of refined lead from secondary sources steadily increased, both in tonnage and as a proportion of total refined metal production, in the 1960s and 1970s. In 1985 the secondary sector was responsible for about 43 per cent of total lead metal production compared to less than 30 per cent in the early 1960s. According to the International Lead and Zinc Study Group, the share seems likely to remain at about this level. Although national policies of developed countries based on environmental and economic considerations may encourage the recycling of secondary lead materials generated in their countries, the availability and costs of scrap materials in relation to the operating margins of secondary plants will continue to be the main factors influencing the extent of recovery and output of secondary metal.
- 22. Table 4 indicates that in 1985 recovery of secondary lead as refined metal in market-economy countries amounted to 1.8 million tons or about 43 per cent of total metal production of these countries. Including remelted lead and lead alloys which are re-used without undergoing a full refining process, total recovery was 2.1 million tons. Most secondary recovery is carried out in developed countries which generate sufficient supplies of scrap materials. Thus, the United States is the major secondary producer with a share of over 52 per cent of secondary lead in total domestic refined production in 1985. In the same year, the secondary recovery from old scrap was 49 per cent in the EEC and 36 per cent in Japan. In recent years, some secondary smelter plants have been constructed in South East Asia and to a lesser extent in the Middle East, as sufficient supplies of locally generated scrap become available to support these plants.

### Consumption

23. There has been a change in the pattern of metal consumption over time. Consumption of lead, once the most used non-ferrous metal, has fallen in relation to that of other metals. In 1985, the share of



Source: GATT based on statistics compiled by the International Lead and Zinc Study croup.

TABLE 4

### MORLD SECONDARY REFINED PRODUCTION OF LEAD

### (in thousand metric toms, including secondary refined anticonial lead)

	1975	1978	1979	1780	1981	1982	1983	1784	178
World Total 1)	1,295.0	1,737.6	1,899.1	1,816.6	1,768.6	1,455.0	1,562.6	1,873.0	1,834.
Developing Countries	79.8	172.8	212.0	219.7	199.0	221.7	228.7	257.8	261.
Algeria	-	3.0	3.0	5.0	5.0	5.5	5.0	5.0	4.
Argentina	10.7	6.0	6.0	18.5	15.6	14.6	16.1	15.0	18.
Brazil	25.2	33.2	43.0	40.4	31.3	27.4	28.4	37.7	43.
India	10.2	10.9	10.8	10.7	11.1	8.8	6.0	7.1	8.
Korea, Rep. of	-	-	5.8	10.0	12.0	7.5	10.2	8.9	9.
Mexico	n.a.	49.3	58.0	44.0	38.0	34.0	27.0	30.0	30.
Peru	1 -	-	5.0	5.0	5.0	5.0	1.4	1.2	1.
Venezuela	6.0	7.0	10.0	10.0	10.0	15.0	15.0	17.0	20.
Yugoslavia	16.7	19.0	19.0	:7.0	12.5	36.7	38.0	37.4	40.
Others	11.0	42.4	51.4	58.1	58.5	67.2	79.8	98.5	107.
Vevaloped Countries	1,215.2	1,564.8	1,686.1	1,597.9	1,569.6	1,433.3	1,333.7	1,615.2	1,552.
Australia	33.7	35.1	42.0	32.6	32.3	33.4	27.0	21.5	15.
Austria	5.5	10.5	11.9	10.2	11.6	11.1	11.5	16.2	15.
Canada	44.8	50.0	68.6	69.0	69.7	64.6	63.9	79.4	66.1
EEC:2)	524.2	688.7	741.9	677.4	677.6	624.9	607.0	681.5	668.
Belgium	55.0	30.0	27.0	30.0	28.0	28.0	30.0	30.0	30.
Denmark	13.7	26.2	29.8	24.5	26.5	15.8	10.0	13.0	- 3
France	67.7	82.3	90.6	92.0	29.4	85.9	82.3	87.8	90.4
Germany, F.R.	85.2	179.1	178.5	159.2	158.8	148.9	135.5	165.3	175.
Greece	1.9	1.5	1.5	0.9	0.7	-	-	.03.3	'''
Ireland	-	2.1	5.0	7.0	13.0	10.0	8.0	9.1	9.0
Italy	56.8	85.1	101.0	91.6	97.4	97.3	89.4	102.9	76.
Netherlands	23.9	20.6	20.0	19.8	19.7	27.7	23.6	33.6	37.3
Portugal	-	0.3	4.5	5.6	2.0	4.0	6.0	6.0	7.0
Spain	24.5	38.6	39.8	37.4	34.1	32.1	36.9	42.5	43.3
United Kingdom	195.5	222.9	244.2	211.4	198.0	175.2	195.3	191.3	179.1
Finland	-	5.0	6.0	3.2	4.5	4.4	6.0	4.5	4.6
Japan	100.2	105.0	106.5	129.8	141.6	119.1	118.3	189.1	133.3
New Zealand	-	8.0	7.0	7.0	7.0	7.0	6.0	6.0	
Nerway	0.4	0.3	0.4	0.3	5.0	0.1	0.1	- 0.0	6. <b>(</b>
Sueden	15.4	18.3	24.0	22.0	22.0	19.9	18.8	27.7	25.1
South Africa	13.2	23.6	23.3	35.4	26.9	30.4			
Suitzerland	13.6	C3.0	5.0	7.0			23.4	28.9	34.1
United States	477.8	620.3	647.5	602.0	7.0 569.2	3.0 515.4	2.0 449.5	2.0 618.4	2.0 5 <b>9</b> 0.5
Centrally-Planned Economi	es								
Bulgaria	n.a.	5.0	4.0	4.0	n.a.	n.a.	n.a.	M.2.	n.a.
Czechoslovakia	n.a.	19.0	19.0	20.0	n.a.	n.a.	n.a.	n.a.	п.в. П.в.
Germany, B.R.	n.a.	38.0	40.0	40.0	n.a.	n.a.	n.a.	n.e.	n.a.
Hungary	n.a.	0.3	0.1	0.1	n.a.	n.a.	n.a.	n.a.	
Poland	n.a.	25.0	25.0	24.0	n.a.			i	n.a.
USSR	n.a.	100.0	100.0	100.0	n.a.	n.a. n.a.	n.a.	n.a.	n.a.
China,P.R.	R.a.	20.0	20.0	20.0	n.a.		n.a.	n.a.	R.2.
Korea,P.R.	1	5.0	5.0	ra.4	H. C.	n.a.	n.a.	n.a.	n.2.

• - estimated

n.a. - not available

1)Morld total does not include production in centrally-planned ecocomies. Romania is included with developing countries. 2)For comparative purposes total figures for the EEC include twelve member States for the whole period.

Source: Morld Metal Statistics, various issues

lead in total world consumption of the six quantitatively most important non-ferrous metals declined to 14 per cent from over 17 per cent in 1960.

- 24. World consumption of refined lead reached the highest level of 5.6 million tons in 1979, about 83 per cent over world refined lead It fell in the early 1980s and in spite of the consumption in 1960. recovery in 1984-85 it remained about 145,000 tons below the peak level in Compared to the 1960s, in the 1970s the annual rate of growth of world consumption declined by half, to about 2 per cent; consumption has stagnated since 1980. This slowdown in growth may largely be attributed to four factors. First, recessionary conditions and subsequent slowing down in world economic growth adversely affected demand. Secondly, the consumption of lead was subject to strong substitution pressures by other products such as plastics, other metals and various compounds in its traditional markets such as cable sheathing, sheet and pipe and chemical applications. Thirdly, technological changes in use industries led to the loss of markets (e.g. type metal in the printing industry) or reductions of the quantities of lead in finished products (e.g. reductions in the lead content of batteries and new soldering techniques in the automobile and electronic industries). There have not been any important new uses for lead to offset reductions in existing uses. Finally, environmental regulations have led to a fall in the consumption of lead additives for gasoline and, in some countries, restrictions on the use of lead in other applications, e.g. paints for domestic uses.
- Table 5, indicating world consumption and regional and country shares in world refined lead consumption in the period from 1960 to 1985, shows that in 1985 developed countries consumed about 59 per cent of refined developing countries about 16 per cent and centrally-planned economies about 26 per cent. This Table also shows that in this period the share of both developing countries and centrally-planned economies in world lead consumption, increased considerably while the share of developed countries declined. Although the United States remained the principal refined lead consuming country, its consumption has been stagnating at about 1.1 million tons since 1980 and its share in world consumption decreased to about 20 per cent in 1985 from about 26 per cent in the 1960s. The EEC and Japan which experienced lower losses in the recession than the United States, maintained their consumption at around 1.3 million tons to 1.4 million tons and 400,000 tons, respectively. contrast to the EEC whose market share decreased by about 6 percentage points from 1960 to 25 per cent in 1985, Japan's share in world consumption of refined lead increased by two percentage points and was 7 per cent in 1985. The share of the Soviet Union in world refined lead consumption is also estimated to have increased, from about 12 per cent in 1960 to about 15 per cent in 1985. In the latter year, its consumption was estimated at about 800,000 tons. Consumption of refined lead also increased in some developing countries namely, Brazil, India, the Republic

TABLE 5 ----

			meric	tous							Perc	eet ag	of	world	produc	ction				
	1966	1965		1973	1975	1979	1900	1902	1994	1905	1900	1965	1970	1973	1975	1979	1700	1902	1904	1905
Sec 14	3900	3671	4502	3216	4757	3634	5464	5250	5449	5479	100.0	100.0	200.0	100.0	100.0	100.0	100.0	100,0	100,0	100.0
Diveloping Countries	176	267	366	400	555	***	(4)	644	765	***	5.0	7.2	8.2	9.4	11.6	11.6	12.0	13.3	14.6	15.5
Algeria	(MA)	(XA)	1	5	s	5	16	19	18	10	(NA)	(MA)	0.0	0.1	0.1	0.1	0.3	0.4	0.3	0.2
Argentine Bresil	29 18	39 18	42 37	36 79	53 76	56 98	46	29	31	33	0.9	1.1	0.9	0.7	1.1	1.0		0.5	0.6	0.6
Egypt	(RA)	(MA)	3/	/2	10	15	82 14	35 16	28	73	0.6 (MA)	3.5 (KA)	0.8	1.5	1.6	1.7	1.5	1.0	1.2	1.3
India	25	37	42	41	45	59	54	67	60	70	0.5	1.0	0.9	0.6	0.9	1.0	1.0	0.3 1.3	0.5	0.5
Iran Koree, Rep.of	2 2	2 2	5	,	14	10 33	16 30	30 32	20 46	63	0.1	0.0	0.2	0.1	0.3	0.2	0.3	0.6	0.4	0.3
<b>Malaysia</b>	2	2	3	4	7	12	13	ii	16	19	0.1	0.0	0.1	0.1	0.3	0.6	0.6	0.6	0.8	0.3
Hexico Morocco	32 (MA)	56 (MA)	75 3	94 3	77	96	85	93	110	125	1.0	1.5	1.7	1.7	1.6	1.7	1.6	1.8	2.0	2.3
Peru	````;	6	7	13	13	20	26	19	16	14	(MA) 0.1	(RA)	0.1	0.1	0.1	0.1	0.1	0.1 0.4	0.1 0.3	0.1
Romania* Taivas	12	11	32 5	10	4.	49	51	41	51	51	0.4	0.3	0.7	0.8	1.0	0.9	0.9	0.8	0.9	0.9
Theiland	i	2	3	7	14	18	24 16	29 14	41 17	40	0.1	0.1 0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.8	0.7
Tunicia Tunkey	(AR)	(MA)	3	3	3	5	5	4	3	4	(MA)	(MA)	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4 0.1
Venezuela	3	3	5	7	8	7	11	10 20	19	27	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.4	0.5
Yugoslavia Zambia	23	4	46	70	83	84	105	114	115	115	0.7	1.2	1.0	1.3	1.7	1.5	0.3	2.2	2.1	0.5 2.1
Other	19	4 34	32	46	31	3 69	3 72	73	79	3	0.1 0.6	0.1	0.1 0.7	0.1	0.1	0.0	0.1	0.0	0.0	0.1
Developed Countries	2182	2548	3063	3529	2740	3567	3303	3140	3291	3216	70.8	70.0	68.0	67.6	61.6	63.4	61.1	59.8	60.4	58.6
of which: Australia	57	60	62	74	72	74	n	36	59	59	1.8		١		١					
Austria	21	21	30	30	29	47	53	53	62	62	0.7	0.6	0.7	0.6	1.5	0.8	1.3	1.0	1.1	1.1 1.1
Canada EEC <sup>1)</sup>	66	85	87	114	, 92	122	113	99	122	100	2.1	2.3	1.9	2.2	1.9	2.2	2.1	1.9	2.2	1.8
Seleium	955 55	1075 51	1268 61	1416	1226	1475 58	1431 59	1 326 61	1392	1356	31.0 1.8	29.3	28.1	27.1	25.8	26.1	26.4	25.3	25.6	24.7
Denmerk	20	22	27	19	19	30	23	16	15	13	0.6	0.6	0.6	1.3	0.4	1.0	1.1	1.2	0.3	1.2
France Germany, P.S.	161 258	145 302	200 358	223 351	190 283	211 361	212	194	209	208	5.2	4.0	4.4	4.3	4.0	3.7	3.9	3.7	3.8	3.8
Greece	3	~:	24	44	23	27	333 28	333 22	357 20	345	8.4	8.2	8.0	6.7 0.8	6.0	0.5	6.1	6.4	6.6	6.3
Ireland Italy	78	92	?	7	7	7	7	11	•	10	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0,4· 0.2
Netherlands	51	58	191 50	234 55	192	258 56	275 42	243 53	233	230 45	2.5	2.5	1.1	4.5 1.1	4.0	4.6	5.1	4.6	4.3	4.2
Portugel Spein	6	8	10	12	•	19	22	19	27	26	0.2	0.2	0.2	0.2	0.2	0.3	1.1 0.4	0.4	0.9	0.8
United Kingdom	29 287	72 312	78 262	121 282	103	115 333	114 296	102 272	107 295	116 274	9.3	2.0 8.5	1.7	2.3	2.2	2.0	2.1	1.9	1.9	2.1
Finlend	14	12	10	17	18	21	23	24	**	24	0.5	0.3	0.2	0.3	0.4	5.9	5.5 0.4	5.2	5.4	5.0 0.4
Japan New Zealand	163	209 10	271 10	348 11	266 14	365 15	393 14	354 13	390 12	395 10	5.3	5.7	6.0	6.7	5.6	6.5	7.2	6.7	7.1	7.2
Horway	9	10	13	14	15	13	14	13	iii	13	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2 0.2
South Africe, Rep. of	of 13	17 52	24 47	27 34	41 29	50 22	53 25	57	42	60	0.4	0.5	0.5	0.5	0.9	0.9	1.0	1.1	0.8	1.1
Switzerland	23	28	31	21	18	19	19	28 11	27 10	27 11	3.7	1.4	0.7	0.6	0.6	0.4	0.5	0.5	0.3	0.5 0.2
United States	809	787	1210	1423	1120	1 344	1094	1106	1143	1099	26.3		26.9	27.3	23.5	24.0	20.2	21.1	21.0	20.1
Controlly-planned									l	1										
Economics of which:	642	751	987	1121	1262	1393	141Z	1426	2393	1419	20.8	20.5	21.9	21.5	26.6	24.8	26.1	27.1	25.6	25.9
Bulgaria*	35	40	77	85	95	108	110	120	114	115	1.1	1.1	1.7	1.6	2.0	1.9	2.0	2.3	2.1	2.1
Czechoslovakia	42	43	44	49	53	60	60	51	48	50	1.4	1.2	1.0	1.0	i.i	i.i	1.1	1.0	0.9	0.9
Germany, D.R.+ Poland	65 51	80 52	80 69	85 85	91 95	100	100	100 85	90	95	2.1 1.6	2.2	1.4	1.6	1.9	1.8	1.8	1.9	1.6	1.4
USSR*	360	405	525	610	700	780	800	810	790	800	11.7		1.5	1.6	2.0	1.5	1.6	1.6	1.6	1.7 14.6
Chius, P.E.* Other*	70 19	100	160 32	170	185	210 48	210	215	215	220	2.3	2.7	3.5	3.3	3.9	3.7	3.9	4.1	4.0	4.0
		"	"	31	-3	45	46	46	45	45	0.6	0.9	0.7	0.7	2.9	0.9	0.9	0.5	0.9	0.8
Unreported Concemption	<sup>2)</sup>	<b>8</b> 5	43	•	-	-	-	-	-	-	2.6	2.3	1.9	1.5	-	_	_		1	_
		L	لـــا				L	L	L	<u> </u>			<u> </u>							

Source: Intersetional Lead and Time Study Group.

Definition: Total consumption of refined pig lead, including the lead contest of antimonial lead, regardless of the type of material from which produced, i.e. ores, concentrates, lead bellion, lead alloy, residues, slags or scrap. Fig lead and lead alloys recovered from secondary materials remelting alone without undergoing further treatment before re-use are excluded.

<sup>1)</sup> For comperative purposes, total figures for the EEC include twelve member states for the whole period.
2) Estimates of consumption of refined lead alloys recovered from secondary materials not included in reported data.

• Estimates.

of Korea, Mexico, Romania, Taiwan and Yugoslavia, mainly in relation to the expansion of domestic battery production. However, the recent recession reduced or halted the growth in consumption of lead in most of these countries. Major world refined lead consumers in 1960 and 1985 are illustrated in Chart III.

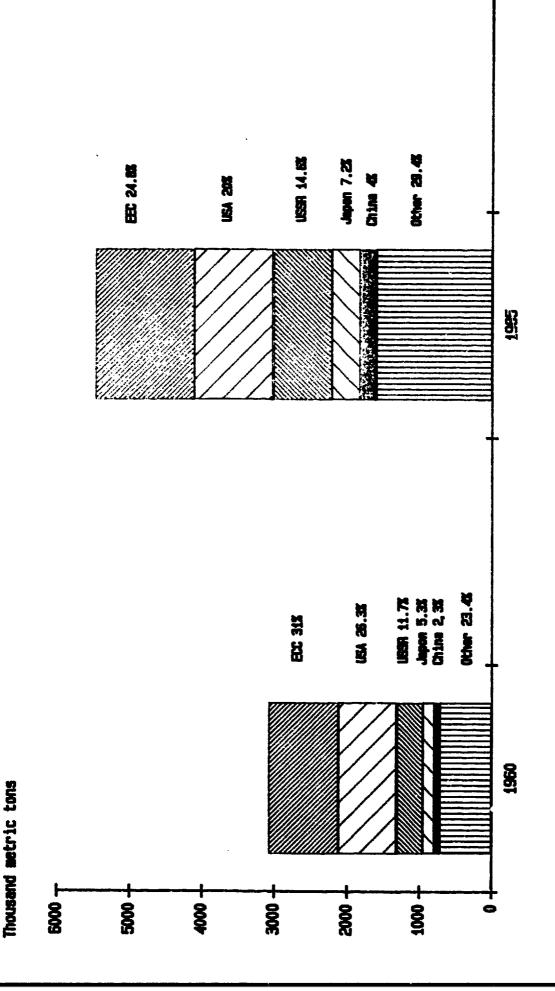
Table 68 and Chart IV indicating principal uses of lead, show that the battery industry is the dominant user of lead, accounting for 60 per cent of total lead consumption in six major consuming countries in 1985. The increase in the number of batteries produced, and the growing volume of industrial batteries and batteries for specialized applications largely offset the reduction in the amount of lead in SLI batteries as a result of improved battery technology. In 1935, the manufacture of pigments and other compounds represented 12.1 per cent of consumption, followed by semi-manufactures, (rolled and extruded products and ammunition), alloys and cable sheathing, accounting for 10.6 per cent, 4.4 per cent and 4.1 per cent, respectively. In contrast to the battery industry, lead consumption in the above uses has been affected by substitution and competition of other materials and has slowly declined, both in volumes and shares. Also, consumption of lead used for gasoline additives fell continuously as a result of regulations affecting the use of lead in gasoline in many countries and was 4.7 per cent of total consumption in 1985.

### Prices and stocks

- 27. There are two internationally recognized price quotations for lead:
  - the daily cash and three month prices fixed by the London Metal Exchange;
  - (2) The North American Producer Mean Price published by "Metals Week", which reflects a weighted average of prices quoted by individual North American producers, delivered.

The LME prices are in pounds sterling per metric ton and are an important indicator of day-to-day market conditions. The LME lead contract applies to refined pig lead of minimum 99.97 per cent purity. The United States producer price is quoted in United States cents per 1b. Most sales of lead concentrates and lead metal are made under annual contracts negotiated directly between producers and their customers. The volume of physical lead metal traded through the LME is small in relation to total world trade but as a terminal market, its daily prices are an indicator of the short-term balance between metal supply and demand, while use of its hedging facilities provides a valuable safeguard against price variations. The United States producer price reflects demand for lead metal in the United States, still by far the largest single consumer of lead. In the short term, trends in the United States producer price may differ at times

# CHART III - WORLD CONSUMPTION OF REFINED LEAD BY COUNTRY



Source: GATT based on statistics compiled by the International Lead and Zinc Study Group.

TABLE 6

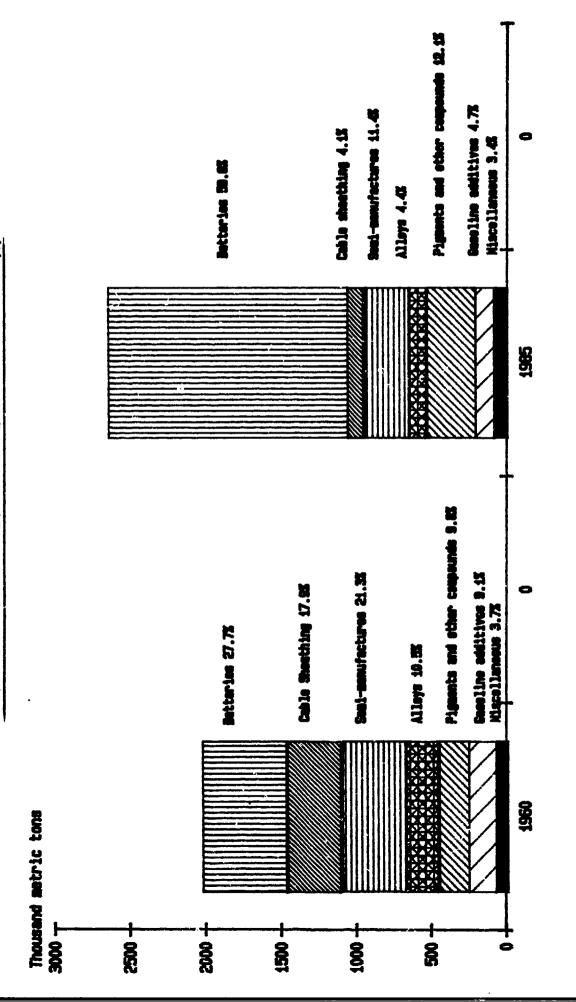
PRINCIPAL USES OF LEAD

							_	Tuonser	(Inousand metric tons)	c tons)
	1960	1965	1970	1973	1975	1979	1980	1982	1984	1985
Total world consumption	3,080	3,671	4,502	5,218	4,757	5,624	2,404	5,250	5,449	5,479
Total 1	2,056	2,406	2,622		2,470	2,917		2,493	2,703	2,666
Z of world consumption	66.7	65.5	58.2	9.95	51.9	51.9	48.4	47.5	49.6	48.7
Batteries	570	741	1,001		1,093	1,482		1,347	1,581	1,594
Cable sheathing	368	399	276		206	173		140	109	111
Semi-manufactures	437	677	405		363	317		287	304	303
Alloys	215	242	222		179	195		134	122	118
Pigments and other compounds	202	235	309		269	357		289	314	323
Gasoline additives	187	262	322		282	285		204	159	126
Miscellaneous	77	78	87		78	108		92	114	91

Figures based on consumption in the following countries: France, Germany, F.R., Italy, Japan, the United Kingdom and the United States.

Source: International Lead and Zinc Study Group

## CHART IV - CONSUMPTION OF REFINED LEAD BY USE (1)



i based on consumption in the following countries: France, Germany, F.K., Italy, Japan, the United Kingdom and the United States, Source: GATT based on statistics compiled by the International Lead and Zinc Study Group.

from the LME price, reflecting differences in the strength of demand in the United States compared with other major consuming areas such as Europe and Japan and also fluctuations in the value of the United States dollar against sterling and other leading currencies. Such fluctuations in exchange rates can at times affect both the competitive position of lead from country to country when expressed in national currencies and the regular pattern of international trade flows.

- 28. Table 7 and Chart V indicate average annual prices for lead on the basis of the quotations at the LME and the United States producer price during the period 1950-1985 in terms of both current and constant. United States dollars. Both current and constant prices trended downward sharply after the Korean war but partly recovered to higher levels in real terms during the 1960s and the early 1970s. Then, the increase in consumption between 1976 to 1979 led to higher prices. The peak in prices in 1979 was the result of large purchases by the Soviet Union and strikes in the United States. After the boom in 1979, the price of lead plummetted due to the continuing recessions, slower world economic growth and sluggish demand and in 1985 prices in constant terms fell to their historically lowest level.
- Table 8 illustrates principal movements in commercial stocks of lead metal and stocks held in the United States Government Stockpile since Stocks held by producers, traders and in LME approved warehouses tend to reflect most directly changes in the balances of world supply and Stocks held by consumers represent mainly metal required to maintain normal processing operations and remain generally more stable. As a result of the steep fall in lead consumption during 1975 in the wake of the first world energy crisis, commercial stocks rose substantially to 577,000 tons, although by the end of 1978 they had fallen back to below 400,000 tons as consumption recovered. More recently, stocks held in LME warehouses rose rapidly during 1982 and much of 1983 to a record level of 218,000 tons in September 1983. Subsequently, LME stocks had been drawn down equally rapidly as consumption recovered from the world economic recession to about 60,000 tons at the end of 1985 and 38,000 tons at end of United States lead stockpile was largely 1986. The accumulated during and immediately following the Korean War and has been reduced from its peak of nearly 1.2 million tons in the early 1960s to its present level of 545,000 tons. Substantial releases of metal from the stockpile were made in 1972-74 to dispose of stockpile inventories rendered surplus as a result of reductions in the stockpile goals for lead and other materials. In the late 1970s the stockpile goal for lead was raised to 998,000 tons as a result of revised assumptions in the scenario for a possible emergency. No acquisitions were made, however, and the inventory has remained unchanged. There are no plans for increasing the quantities held. On 8 July 1985, the US President proposed a major restructuring of the stockpile. The goal for lead would drop to zero,

TABLE 7

LEAD PRICES 1950-1985

(in US\$/ton)

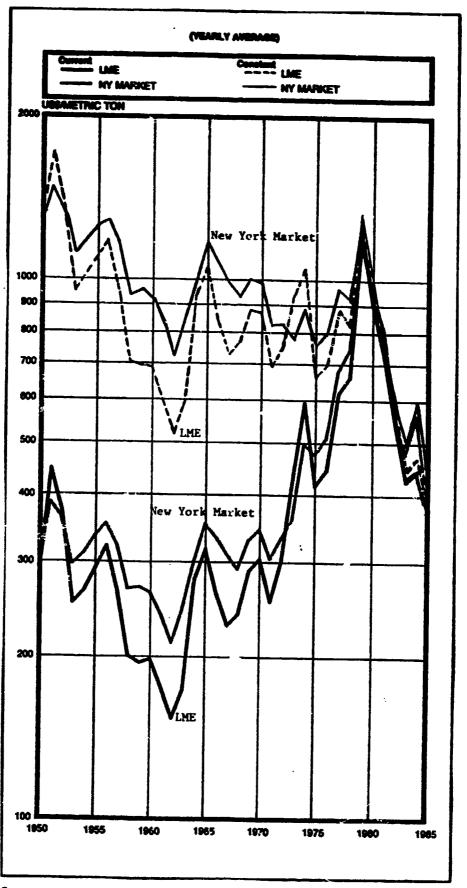
	London Metal Exchange		New York Market <sup>2</sup>	
Year	Current \$	1980 Constant \$	Current \$	1980 Constant \$
1950	293	1,297	293	1,297
1951	446	1,709	386	1,479
1752	372	1,363	363	1,330
1953	252	947	297	1,117
1954	265	1,019	310	1,192
1955	292	1,102	334	1,260
1956	321	1,172	353	1,288
1957	266	950	323	1,154
1958	201	705	267	937
1959	195	694	269	957
1960	198	690	263	916
1961	176	603	240	822
1962	154	519	212	714
1963	174	596	246	843
1964	278	933	300	1,007
1965	317	1,057	353	1,177
1966	262	842	333	1,071
1967	229	729	309	984
1968	240	769	291	933
1969	289	881	329	1,003
970	304	871	344	986
.971	254	690	304	826
972	302	755	331	828
.973	430	927	359	774
974	593	1,050	497	880
.975	417	664	475	756
.976	445	699	509	799
977	618	883	677	967
978	662	822	742	922
979	1,208	1,325	1,161	1,273
.980	906	906	935	935
981	727	723	806	802
982	546	551	562	567
983	425	440	478	495
984	444	468	563	593
985	391	408	420	438
-			720	730

Soft pigs, 99.97 per cent purity, settlement price

Source: World Bank, Commodity Trade and Price Trends, 1986

<sup>&</sup>lt;sup>2</sup>Pig, desilverizeá, domestic producer price

- 26 -CHART V LEAD PRICES, 1950-1986



Source: Commodity Trade and Price Trends, 1986; Edition World Bank

TABLE 8

STOCKS OF LEAD METAL, 1960-1986 (end of year)

									(Th	pussno	Metri	(Thousand Metric Tons)
	1960	1965	1970	1973	1975	6261	1980	1982	1983	1984	5861	1986
Commercial Stocks:												
Producers Consumers Merchants LME	277 168 5 7	178 178 6	277 190 8 8 25	152 192 9 22	276 211 5 85	182 251 8 8	221 224 7 7	242 186 5 126	186 179 3 172	208 176 4 4	241 176 2 2 61	179 183 3
TOTAL	457	365	200	375	577	458	525	260	240	429	480	403
Non-Commercial Stocks:								<del> </del>			_	
US Stockpile	1161	1165	1035	793	546	545	545	545	545	545	545	545

Source: International Lead and Zinc Study Group

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with 272,000 tons of the current inventory to be retained in a supplemental reserve. Excess lead could be available for disposal. Provision is made in the plan for consultations on any disposals with interested governments. Before the proposal can go into effect it must be approved by Congress, which has opposed changing stockpile goals.

### Price elasticities

30. The supply and demand for lead, as for most metals, are not very sensitive in the short run to price changes, and therefore relatively large price variations are required to clear the market. It is estimated that price elasticities of supply and demand for the short term are negligible. In addition, as mentioned before, production of primary lead is influenced by market trends in silver and zinc as well as by demand for refined lead. It seems that in the absence of government regulations secondary production is more responsive to demand for refined lead, than primary production. In some countries domestic regulations are considered to be an important influence on level of secondary production. Chart VI shows the relation between world production and consumption of refined lead from 1960 to 1985.

Statistical data on production and consumption of centrally-planned economies are estimates.

International Lead and Zinc Study Group: "The Market Situation for Lead," September 1985.

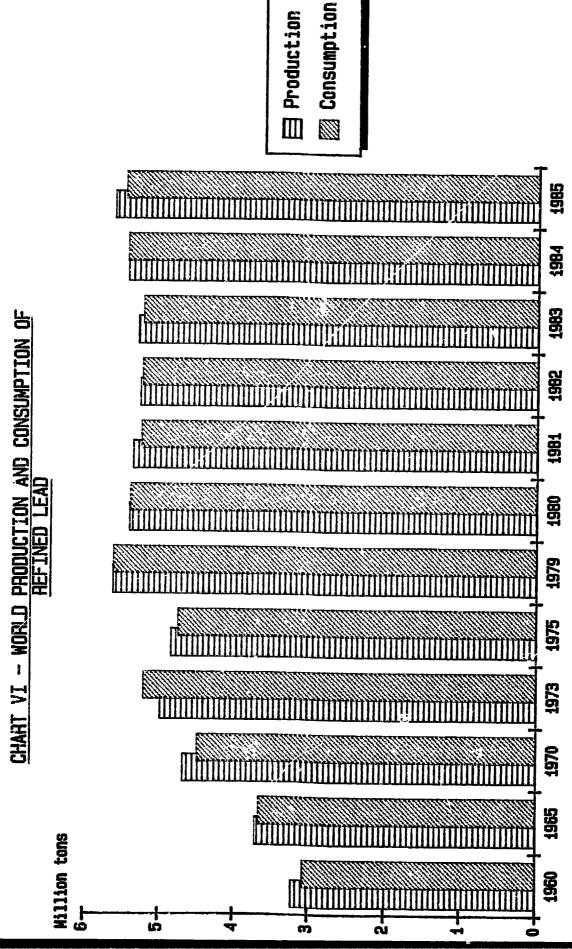
<sup>&</sup>lt;sup>3</sup>Two-thirds of market-economy country lead mine production are derived from mixed ores. About 60 per cent of silver and 8 per cent of copper are produced jointly with lead and zinc. International Lead and Zinc Study Group: "Joint Production of Lead and Zinc."

International Lead and Zinc Study Group: The Market Situation for Lead; January 1986.

Data on secondary refined lead production in centrally-planned economies are not available.

The figure is substantially higher in the United States as a result of the importance of the large vehicle population and the consequent availability of scrapped vehicle batteries.

Copper, zinc and tin experienced the same downward trend and in 1985 their shares in metal consumption were as follows: copper - 24.8 per cent (1960 = 31.5 per cent), zinc - 16.7 per cent (1960 = 20.4 per cent), tin - 0.6 per cent (1960 = 1.3 per cent) in contrast to aluminium the share of which ros to 42 per cent (1960 = 27.6 per cent). The share of nickel remained unchanged at 2 per cent.



GATT based on statistics compiled by the International Lead and Zinc Study Group. Source:

Table 6 is based on consumption by use in the Federal Republic of Germany, Italy, Japan, the United Kingdom and the United States, as figures for other countries for years 1960 and 1965 are not available. It should be noted that although trends in use of lead have been similar in most consuming countries, the importance of each use may vary from country to country. Thus, the battery sector which has increased its dominant position in total lead consumption takes a more important share in the United States (73 per cent of all lead consumption in 1985) while its share in Japan and the EEC is lower (64 per cent and 36 per cent in the same year, respectively). In developing countries, consumption is also dominated by batteries which, for example, accounted for 66 per cent of lead usage in Brazil in 1985.

9SLI - starting, lighting, ignition.

In 1980 constant or real dollars, deflated by the c.i.f. Manufacturing Unit Value Index (MUV - Industrial market economies' indices of US dollar unit values of manufactured exports to developing countries. The c.i.f. index combines a 90 per cent weight of f.o.b. export prices with a 10 per cent weight of transport costs).

## SECTION III

# INTERNATIONAL TRADE

- 31. This section discusses briefly export and import flows in lead concentrates, lead bullion and refined lead from 1975 to 1985. It also describes the direction of trade in these products by main exporters and importers in 1985. More detailed information on trade flows in lead and lead products, semi-manufactures and manufactures included, is provided in Section IV which exacines the world trade in lead on a tariff line basis together with individual tariff treatment in developed country markets and some developing countries.
- 32. According to the statistics of the International Lead and Zinc Study Group, in 1985 the volume of trade in lead concentrates represented 16.5 per cent of world mine production and 5.7 per cent and 14 per cent of world smelting and refining, respectively. Data shown below indicate total world trade in the above mentioned products in the period from 1975 to 1985.

Thousand tons	1975	1979	1980	1981	1982	1983	1984	1985
Ores/concentrate (lead content) Exports	— 640.4	649.7	667.9	718.9	642.1	646.4	660.2	635.0
Imports	(571.2) 620.9 (557.8)	(544.2) 711.5 (620.7)	(583.4) 723.4 (638.9)	(645.6) 724.9 (649.8)	(596 4) 638.5 (584.3)	(593.2) 655.7 (594.2)	700.9 (651.7)	(575.3) 676.8 (612.5)
Lead bullion	230.5	292.9	248.6	203.2	260.5	249.7	<sup>293.5</sup>	242.3
Exports	(199.5)	(231.4)	(214.9)	(176.4)	(222.6)	(201.0)	(239.0)	(198.1)
Imports Refined lead	247.3	296.8	277.3	192.4	253.0	202.3	242.6	247.1
	(210.8)	(246.0)	(237.7)	(165.9)	(204.9)	(144.8)	(206.9)	(225.5)
Exports	868.2	1,006.2	1,108.4	910.0	1,024.0	1,019.1	971.9	1,010.9
	(715.2)	(804.7)	(889.7)	(694.5)	(831.1)	(810.8)	(741.4)	(788.0)
Imports	811.0	1,112.7	1,015.7	943.5	964.9	991.4	1,023.4	986.7
	(672.7)	(894.0)	(807.6)	(725.5)	(756.1)	(783.3)	(773.3)	(749.7)

Note: The totals shown above include published data on exports and imports reported by market economy countries together with estimates of trade between centrally-planned economies and other countries not covered by official trade statistics. Trade among centrally-planned economies is excluded, intra-EEC trade is included. The figures in brackets indicate the world total excluding intra-EEC trade.

## Exports

- In volume terms, world exports of lead ores and concentrates accounted for 575,000 tons in 1985, about the same level as in 1975 but below lead concentrates exports in the previous four years. change in the pattern of exports has been the emergence of South Africa as a substantial exporter since 1980, after the opening of the Black Mountain South Africa became the second largest exporter after Peru, preceding Australia and Canada. Canada was the top exporter until 1981; its exports thereafter declined both in volume and in share of the total world exports to subsequently displace it from its leading position. other principal exporting countries in decreasing importance were Morocco, Thailand, Sweden, Iran, Honduras and the EEC (Ireland and Italy). The figures on world exports of lead ores and concentrates from 1975 to 1985 are given in Table 9. Exports of lead bullion are mainly undertaken by developed countries which accounted for about 89 per cent of total world exports of this product in 1985. They are dominated by Australia, which in the same year was responsible for 82 per cent of world exports, amounting to about 200,000 tons.
- 34. Developed countries are also the major exporters of refined lead. Their share in world refined lead exports of about 800,000 tons in 1985 was 65.5 per cent. Of this amount, Australia and Canada accounted for 29 per cent and 21 per cent, respectively. Other developed country exporters are the EEC (mainly Spain and the Federal Republic of Germany) and Sweden. Refined lead exports of developing countries amounted to about 240,000 tons in 1985 and represented about 33 per cent of total world exports. The six developing country exporters in decreasing order of importance, the following: Mexico (12.6 per cent of world trade), Peru (8.1 per cent), Morocco (6.9 per cent), Taiwan (2.6 per cent), Yugoslavia (1.9 per cent) Zambia (0.6 per cent). (See Table 11) As can be seen from the Tables on exports, centrally-planned economies practically do not export any of the above-mentioned products. The exception is exports of bullion by the People's Democratic Republic of Korea.

## Imports

35. Developed countries accounted for over 86 per cent of world imports of lead ores and concentrates totalling 613,000 tons in 1985. Compared with 1975, their imports increased in both volume and percentage share, mainly due to increased imports by Japan. In contrast, imports of developing countries declined both in volume and as a proportion of total trade as Mexico expanded its lead mine production to meet its domestic requirements. Table 12 indicates that in 1985 the EEC was the largest importer of lead ores and concentrates (53.1 per cent), followed by Japan (25.7 per cent), the USSR (8.2 per cent) and the United States

TABLE 9

WORLD EXPORTS OF LEAD ORES AND LEAD CONCENTRATES, 1975-1985

(Thousands of Metric Tons)

	1975	1978	1979	1980	1981	1982	1983	1984	198
Total Trade	640.4	7.0.0	4/0.7	1			<b></b>	<del>                                     </del>	-
Total trade excluding		710.8	649.7	667.9	718.9	642.1	646.4	66V.2	635.
	(571.1)	(616.4)	(544.2)	(579.5)	(645.6)	(596.4)	(593.2)	(600.1)	(575.
intra-EEC trade	ı					1			
Developing countries, of which	210.1	286.7	244.3	223.3	245.8	230.4	267.6	264.3	237.
or water .		1							
Algeria	2.8	0.6	2.2	2.04	2.0*	2.0*	2.0*	2.0*	2.
Argentina	-	*	1.6	-	10.6	10.5	12.8	5.8	8.
Bolivia	17.7	16.5	12.8	15.9	15.6	12.0	9.3	2.4	1.
Congo	2.0*	2.5*	5.0*	6.0*	6.0*	6.0*	6.0*	6.0*	1 4.
Honduras	18.2	21.8	16.4	9.9	11.6	8.7	15.4	20.8	19.
Iran	34.5	29.6	15.1	10.0*	20.0*	15.0*	20.0*	20.0*	20.
Korea, Rep.of	4.4	7.4	4.3	2.6	5.0	0.5			
Hexico		4.1	7:3	1 2.0	3.0	0.5	-	0.6	0.
Morocco	62.9	81.0	79.6	1		1		4.4	9.
Peru				69.7	60.3	41.4	45.5	56.3	37.
	64.5	97.4	90.2	86.3	83.4	106.7	128.4	117.8	105.
Philippines	2.2	1.4	3.3	1.9	1.1	-	-	-	١ -
Thailand	0.9	0.5	5.7	13.0	22.5	22.6	25.6	25.0	26.
Yugoslavia	-	23.9	8.1	6.0	7.7	5.0	2.6	3.2	2.
eveloped countries,	418.3	420.1	393.4	433.6	468.1	407.8	270	200.0	
	(349.0)	$(\overline{325.7})$	(287.9)	$(\frac{335.0}{345.2})$			370.8	390.9	393.
of which:	(34)10)	1323.77	(207.7)	(343.2)	(383.5)	(362.1)	(317.6)	(330.8)	(333.
Australia	39.8						ł		1
Canada		72.0	25.1	15.6	22.	36.4	45.3	65.7	80.
EEC	211.9	142.7	151.5	147.2	146.1	106.7	85.5	72.9	62.
LEC	88.7	113.2	144.9	135.4	105.4	102.0	102.4	120.1	106.
9-1-4	(19.4)	(18.8)	(39.4)	(47.0)	(32.1)	(56.4)	(49.2)	(60.0)	(47.
Belgium	0.0	0.0	0.6	3.9	-	0.0	0.0	_	
	(+)	(-)	(0.6)	(2.3)	(-)	(-)	(-)	(-)	(-)
Denmark	25.6	31.4	29.7	28.9	28.9	21.5	24.9	18.9	16.
	(6.0)	(2.0)	(9.9)	(11.2)	(0.5)	(7.9)	(3.5)	( <del>-</del> )	(3.
France	5.2	0.0	0.0	0.0	0.1	0.0	2.0	ò.í	``_
	(0.1)	(0.0)	(0.0)	(0.0)	(0.1)	(0.0)	(0.0)	(0.1)	(-
Germany, F.R.	2.0		1.5	1.2	0.2	0.0			
• -	(0.8)	(.)	(1.5)	(1.2)			0.4	0.0	6.
Greece	6.5	26.0			(0.2)	(-)	(-)	(-)	(0.
	(4.2)		30.1	19.5	12.5	29.0	22.1	20.2	10.
Ireland		(4.7)	(16.6)	(4.5)	(7.4)	(23.0)	(13.1)	(14.7)	(7.0
TIETHIG	36.3	43.3	68.0	60.3	28.9	33.4	35.3	36.4	35.4
·	(-)	(7.0)	(5.6)	(17.3)	(7.0)	(9.5)	(16.2)	(16.2)	(15.
Italy	13.1	12.5	12.6	13.9	11.3	14.0	13.7	20.1	13.
	(8.3)	(5.1)	(5.2)	(6.7)	(5.6)	(14.0)	(13.7)	(19.5)	(13.0
Spain	-	0.0	0.0	5.6	19.3	0.1	1.5.17	20.4	
	(-)	(-)	(0.0)	(1.7)	(11.3)	(-)			20.
United Kingdom	1 '-' 1	`′	2.4	2.1.			(-)	(7.1)	(7.0
	(-)	(-)			4.2	4.0	4.0	4.0	3.0
Finland		2.0	(-)	(2.1)	(-)	(2.0)	(2.7)	(2.4)	(1.0
Horway	2.0		1.5	0.7	1.9		-	3.8	3.1
South Africa		3.2	3.7	2.4	3.4	3.6	4.1	3.7	3.7
Sweden	1.9	-	0.1	72.3	101.5	101.8	84.2	85.5	101.7
	28.2	32.8	33.7	32.4	52.0	28.1	29.2	27.3 j	24.5
Switzerland United States	0.0	-	- j	-	2.5	0.0	-	-	_
United States	45.8	54.2	32.9	27.6	33.0	29.1	20.1	11.9	9.9
entrally-planned	12.0	4.0	12.0	.,,	ا م	ا 🔒 ا		[	
economies,	1 14.0	4.0	12.0	11.0	5.0	4.0	8.0	<u>5.0</u>	4.0
of which:				- 1	i		1		
P-1				- 1	I				
Bulgaria Czechoslovakia	1 - 1	,- <u>,</u>	6.0	6.0	- 1		-	-	-
	4.0	4.0	5.0	43	4.0	3.0	4.0	4.0	4.0
Other	8.0	- 1	1.6	1.0	1.0	1.0	4.0	1.0	•
							4	- 1	

TABLE 10

WORLD EXPORTS OF LEAD SULLION, 1975-1985

(Thousands of Metric Tons)

	1975	1978	1979	1980	1981	1982	1983	1984	1985
Total trade Total trade excluding intra-EEC trade	(199.5)	257.2 (211.7)	292.9 (231.4)	248.6 (212.7)	203.2 (176.4)	260.5 (222.6)	249.7 (201.0)	293.5 (239.0)	242.3 (198.1)
Developing countries, of which:	5.2	4.6	9.3	5.4	6.9	11.4	5.0	2.5	8.0
Korea, Rep. of Mexico Yugoslavia	5.0 0.2	1.3 3.2 0.1	1.9 6.4 0.3	2.6 6.7 0.1	0.1 4.7 2.1	11.4	- 5.0 -	0.0	0.9 7.1
Developed countries,  of which:	190.3 (159.3)	222.6 (177.1)	(198.1)	214.2 (178.3)	184.3 (157.5)	229.1 (191.2)	234.7 (186.0)	273.0 (218.5)	220.3 (176.1)
Australia EEC	142.4 32.7	147.1 49.1	161.7 57.5	153.9 42.2	136.6 27.8	165.4 39.7	161.4 51.5	201.2 54.7	162.9 45.1
Belgius	(1.7)	(3.6)	1.2	(6.3) 1.2	(1.0)	(1.2) 0.2	(2.8) 0.5	(3.9) 0.8	(4.1) 2.5
Denmark	(n.a.) - (-)	(n.a.) 0.4 (n.a.)	(0.4)	(0.9) 0.3 (0.2)	(0.5) 0.1	(0.1)	(0.5)	0.7)	(2.0) 0.3
France	2.2 (0.8)	10.2	6.1	9.2 (4.4)	(0.0) 0.8 (0.0)	(-) 1.3 (0.0)	(-) 2.9 (1.2)	(0.2)	(0.1) 2.5
Germany, F.R.	1.7 (0.9)	1.1 (0.1)	2.5	0.5	1.3 (0.2)	2.2 (0.8)	2.9	(0.5) 0.8 (0.0)	(0.0) - (-)
Italy	(-)	3.0 (-)	15.3 (1.8)	0.6 (0.4)	0.0	0.0	0.0	(-)	0.6 (-)
Netherlands	(-)	0.2 (n.a.)	0.3 (n.a.)	(-)	0.4 (0.3)	(-)	0.5 (-)	(-)	0.3 (-)
Spain	(-)	5.2 (-)	17.0 (10.3)	2.2 (-)	11.2	0.0	0.0	3.7	3.2 (-)
United Kingdom	24.6 (-)	27.6 (0.2)	32.1 (0.0)	28.2 (0.4)	23.7 (0.1)	35.4 (0.3)	44.6 (1.0)	49.1	38.9 (2.0)
Norvay Sveden	15.2	26.4	0.0 23.4	18.1	0.0 8.7	0.0 24.6	0.1 21.7	0.0 13.4	0.0 9.1
Centrally-planned economies, of which:	35.0	<u>30.0</u>	24.0	<u>25.0</u>	12.0	20.0	10.0	<u>18.0</u>	14.0
Korea, P.D.R.	35.0	30.0	24.0	25.0	12.0	20.0	19.0	18,0	14.0

TABLE 11

# WORLD EXPORTS OF REFINED LEAD, 1975-1985 (Thousands of Hetric Tons)

•	1975	1978	1979	1980	1981	1982	1983	1984	1985
Total trade	868.2	978.9	1,006.2	1,101.4	910.0	1,024.0	1,019.1	971.9	1.010.9
Total trade excluding intra-EEC trade	(713.9	(775.1)	(804.7)	(879.2)	(694.5)	(831.1)	(810.8)		(788.0
Developing countries. of which:	278.6	283.9	278.8	242.5	222.?	235.5	252.9	222.9	258.8
Argentina	-	1.1	0.6	4.6	0.3	0.1		-	-
Hexico	109.9	111.9	111.0	88.9	66.3	58.7	89.8	82.2	98.
Могоссо	4.4	28.1	32.2	32.8	43.9	51.9	59.7	46.1	54.
Peru	62.7	74.2	69.7	59.3	80.3	66.1	55.4	58.6	64.
Tunisia	20.6	12.2	11.1	11.9	6.5	14.8	1.3	0.1	0.
Yugoslavia	62.4	41.9	35.3	24.7	14.0	17.8	18.0	14.0	15.
Zembie	17.9	10.0	8.5	8.9	8.3	11.3	12.7	6.0	5.0
Other	0.7	4.5	10.4	11.4	3.1	14.8	16.0	15.9	20.
Developed countries of which:	545.6 (391.3)	(466.2)	692.8 (491.3)	(831.9 (609.7)	670.3 (454.8)	764.5 (571.6)	750.2 (541.9)	732.0 (501.5)	739. (516.
Australia	117.1	148.7	172.2	165.2	170.5	194.8	180.6	147.3	153.
Austria Canada	3.4	0.7	0.4	0.4	0.3	0.8	0.8	0.5	1.
EEC	110.9 221.0	132.0	118.0	126.5 330.0	119.8	146.1	147.3	120.7	113.
550	(66.7)	320.0 (116.2)	332.0 (130.5)		323.9 (108.4)	320.9 (128.0)	326.2 (117.9)	382.5 (152.0)	354. (131.
Selgium	55.0	74.8	65.0	70.8	62.2	56.8	69.8	77.8	59.
2418103	(8.3)	(23.0)	(21.8)						
Denmark	1.2	10.0	5.8	(15.5)	(12.4)	(22.9) 2.6	(14.0)	(20.3)	(18.
Deliustr	(1.1)	(2.6)	(5.1)		5.9		0.3	9.7	3.
France	5.6	24.7	47.9	(3.8) 33.5	(5.8) 58.6	(2.6) 52.2	(0.3) 45.3	46.3	(3.) 55.
	(3.3)	(10.2)	(23.7)		(16.9)	(10.0)	(8.7)	(11.4)	(10.
Germany, F.R.	73.6	98.9	97.5	97.7	86.7	80.3	110.4	99.3	99.
oczany, iii.	(20.7)	(34.2)	(27.9)	(29.9)	(27.8)	(36.1)	(44.1)	(40.4)	(38.0
Greece	1.0	1.1	0.1	0.6	1.5	-		2.0	, , ,
	(0.9)	(0.6)	(0.1)	(0.1)	(0.8)	(-)	(-)	(2.0)	(-)
Ireland	2.0	3.1		.•.	0.9	0.1	i	0.2	0.
Ta-1	(-)	(-)	(-)	(-)	(0.3)	(0.1)	(-)	(0.2)	(-
Italy	3.2	4.2	4.6	1.8	4.1	3.9	5.3	8.0	10.
Norhool and	(3.0)	(4.1)	(4.2)	(1.7)	(2.6)	(3.8)	(5.2)	(7.9)	(9.
Netherlands	22.8	20.3	16.2	16.4	11.0	12.3	11.7	13.6	19.0
Spain	(10.2)	(4.6)	(1.4)	(2.2)	(3.0)	(2.1)	(0.6)	(1.2)	(2.
Sperii	1.6	5.3	1.9	5.5	12.2	33.3	39.7	57.6	52.
United Kingdom	(0.3)	(1.6)	(-)	(2.0)	(5.5)	(28.5)	(30.2)	(46.2)	(42.
ources wingsom	55.0	77.6 (35.3)	93.0	99.8	80.8	59.4	43.7	68-0	54.
Finlend	(18.9)	0.8	(46.3) 1.0	(45.3)	(33.3)	(21.9)	(14.8)	(13.3)	(7.
Japan	39.5	7.8	9.2	0.9	0.5	7.5	1.2 14.4	0.0	24.
Horway	0.2	0.0	0.1	6.3	2.9 0.0	'"	0.0	16.5	] ~4.
South Africa	26.5	27.6	25.0	27.3	18.2	18.6	23.8	9.1	14.
Sveden	11.4	26.4	2 .6	21.2	15.7	26.5	30.7	43.9	41.
Switzerland	1.8	2.8	4.9	4.1	4.8	5.1	7.7	6.8	- 10.
United States	16.7	3.2	7.4	150.0	13.7	44.2	17.5	4.7	24.1
entrally-planned	44.0	25.0	34.6	27.0	17.0	24.0	16.0	17.0	13.0
economies, of which:					•				==
Bulgaria	15.0	10.0	12.0	5.0	4.0	5.0	-	1.0	1.6
Korea, P.D.R.	15.0	6.0	6.0	13.0	4.0	5.0	6.0	1.0	-
Poland	0.0	-	4.6	-	•	-	-	-	-
USSR Other	11.0	8.0.	10.0	7.0	7.0	10.0	8.0	10.0	10.
	3.0	1.0	2.0	2.0	2.0	4.0	2.0	5.0	2.0

Estimated

UCRLD DEFORTS OF LEAD CRES AND LEAD CONCENTRATES, 1975-1965
(Lead content; thousands of metric tons)

	1975	1978	1979	1980	1961	1962	1983	1984	1965
Total trade	620.9	667.5	711.5	723.4	724.9	638.5	655.7	700.9	676.8
Total trade exclusing	(336.8)	(589.9)	(620.7)	(630.3)	(649.8)	(584.3)	(394.2)	(651.7)	(612.5
intra-EEC trade	1.000.0			(030.3)	(647.07	1,504.3,	(374.2)	(031.77	(612.3
Daveloping countries, of which:	52.9	103.8	107.8	8.58	68.9	44.7	32.9	24.5	23.7
Brazil	14.9	26.9	25.2	20.9	9.2	_	4.0	6.4	16.5
India	-	-		0.9	3.6	7.1	5.0	1	
Hexico	13.3	60.8	58.4	34.4	23.1	9.0	10.0	4.2	
Romania	2.0	4.0	18.0	25.0	20.0	15.0	10.0	5.0	7.0
Tunisia	12.7	8.7	5.0	6.0	12.4	13.6		8.6	1 "."
Yugoslavia	10.0	3.4	1.2	1.6	0.6	-	3.9	0.3	0.2
Developed countries,	523.0 (458.9)	483.7	505.7	566.6	566.0	535.8	551.8	618.4	592.1
of which:	(438.9)	(406.1)	(414.9)	(473.7)	(501.2)	(481.6)	(490.3)	(369.2)	(527.8)
Austria	7.4	2.6	3.7	2.5	1.0	4.2	2.8	4.2	2.2
Canada	2.5	4.8	1.6	50.9	48.4	34,4	18.5	21.6	
EEC	310.4	294.1	326.4	328.9	323.6	324.9	325.1	344.4	0.3
	(246.3)	(216.4)		(236.0)	(248.5)		(263.6)	(295.2)	389.7
Belgium	43.8	36.2	39.9	36.7	37.4	47.7	38.5		(325.4)
•	(34.8)	(25.4)	(25.0)	(26.0)	(35.7)	(43.3)	(31.5)	30.4	51.7
France	90.9	87.7	87.6	90.7	92.8	109.4	94.0	(24.8)	(45.8)
	(60.8)	(56.0)	(52.7)	(55.5)	(65.2)	(85.4)	(78.5)	103.2	123.8
Germany, F.R.	118.8	96.4	108.4	102.9				(88.3)	(97.1)
,,	(103.5)	(87.8)	(95.2)	(88.8)	121.7	108.9	123.4	117.1	146.6
Greece	3.8	16.8	15.8		(102.7)				(132.5)
	(n.a.)	(-)		18.3	10.2	8.7	0.5	3.2	-
Italy	8.9		(1.4)	(5.1)	(2.1)	(8.7)	(0.5)	(1.3)	(-)
	(6.4)	12.1 (6.4)	29,1	28.8	15.8	0.2	3.6	7.4	6.6
Spain	14.6	20.0	(22.3)	(21.3)	(12.1)	(0.2)	(3.6)	(7.4)	(6.6)
opazu	(13.6)	(14.0)	9.1	16.8	16.9	21.0	39.7	48.4	32.7
United Kingdom	29.6	30.9	(8.2)	(8.4)	(6.6)	(10.5)	(18.3)	(29.0)	(16.7)
ources will don	(27.2)	(26.9)	36.5	34.7	28.8	29.0	25.4	34.7	28.3
Japan	118.5	129.2	(30.8)	(30.9)	(24.1)	(26.9)	(22.1)	(33.4)	(26.7)
United States	79.4		131.0	137.1	134.2	136.5	145.4	169.4	157.1
Other	4.8	53.0	40.0 3.0	44.1 3.1	58.5	35.8	47.5 12.5	78.8	42.8
entrally-planned							-		
economies,	45.0	• • •					1		
of which:	45.0	80.0	98.0	68.0	90.0	58.0	71.0	58.0	61.0
Bulgaria	1.0	15.0	25.0	15.0	28.0	10.0	10.0	8.0	4.0
Germany, D.R.	5.0	5.0	3.0	3.0	2.0			***	
USSR	30.0	40.0	70.0	50.0	60.0	45.0	55.0	45.0	50.0
Other	9.0	20.0	7.0.0	30.0	-	3.0	6.0	5.0	7.0
	1 1		_		_	3.9	0.0	3.0	7.0

i

(7 per cent). In the same year, almost 84 per cent of world imports of lead bullion were destined to the member States of the European Economic Community, of which about 65 per cent were imported by the United Kingdom, and 9 per cent by the Federal Republic of Germany. Japanese imports of lead bullion increased in 1985 and accounted for the remaining 16 per cent (Table 13).

36. The major change in the pattern of imports of refined lead has been the increase of imports by several developing countries. Compared to 1975, their imports rose by about 80 per cent, to 240,000 tons in 1985 and their share from about 20 per cent in 1975 to 32 per cent in 1985. Table 14 indicates that among others, developing countries importing refined lead were the following: The Republic of Korea, India, Iran, Malaysia, Indonesia and the Philippines. In contrast, the share of world imports by developed countries and centrally-planned economies in 1985 were 4 percentage points and about 7 percentage points lower than their share of imports in 1975, respectively. This was mainly due to reduced imports by the United States and the People's Republic of China.

## Direction of Trade

Table 15 shows destinations of exports of lead ores and concentrates, lead bullion and refined lead by main suppliers in 1985. Peru is the largest exporter of lead ores and concentrates. Its exports of these products in 1985 were almost twice as high as its exports in 1975. Though the United States and Japan have remained its major customers, the EEC, namely Belgium-Luxembourg, has increased its purchases of Peruvian lead concentrates since the early 1980s. The shares of these countries in Peru's exports of lead concentrates in 1985 were as follows: 36 per cent, Japan, 26 per cent and the United States, 24 per cent. Lead ores and concentrates exports of South Africa, the second largest exporter of these items since 1980, are mainly oriented towards the EEC. Australian lead ores and concentrates exports showed large fluctuations over the last few years. In 1985, most of its exports were destined to Japan, the EEC and the United Stat's (33.9 per cent, 33.7 per cent and 18 per cent, respectively). In contrast to the above-mentioned countries, exports of lead ores and concentrates by Canada substantially decreased in the last decade and in 1985 they were 70 per cent below the level in 1975. Japan which was previously the principal buyer of Canadian lead ores, did not import any ores and concentrates in 1983 and 1984 and its imports in 1985 were about one-tenth of its imports in 1975. In the same period, imports of its other two largest customers, the United States and the EEC also declined. As mentioned before, lead bullion is principally exported by Australia. Its exports have been mainly destined to the EEC and since 1984-85 to Japan (63 per cent and 37 per cent of total exports in 1985, respectively).

TABLE 13

WORLD IMPORTS OF LEAD BULLION, 1975-1985
(Thousands of Ketric Tons)

	1975	1978	1979	1980	1981	1982	1983	1984	1985
Total trade Total trade excluding intra-EEC trade	247.3 (210.8)	253.8 (212.8)	296.8 (246.0)	( <del>277.3</del> ( <del>237.2</del> )	192.4 (165.9)	( <del>253.0</del> ( <del>204.9</del> )	202.3 (144.8)	242.6 (206.9)	247.1 (225.5)
Developing countries, of which:	5.4	1.5	1.1	1.6	1.3	0.7	1.4	1.3	0.8
Korea, Rep. of Philippines Yugoslavia	5.4	0.7 0.2 0.6	0.4 0.4 0.3	1.5 0.1	1.2	0.5	1.0	1.1	0.6 0.2
Developed countries,	241.9 (205.4)	249.3 (208.3)	285.3 (234.5)	267.3 (227.2)	191.1 (164.6)	252.3 (204.2)	200.9 (143.4)	241.3 (205.6)	246.3 (224.7)
of which:		1					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	, , , ,
EEC	241.5 (205.0)	242.2 (201.3)	277.7 (226.9)	257.2 (217.1)	182.1 (155.6)	245.3 (197.2)	196.3 (138.8)	220.4 (184.7)	210.4 (188.8)
Belgium	8.9	37.0	37.3	25.7	15.2	15.8	43.5	22.9	21.6
France	(6.4) 8.0 (5.0)	(25.2) 1.5 (-)	(20.6) 14.3 (9.6)	(14.7) 12.0 (11.3)	(8.5)	(9.4)	(21.6)	1.2	(21.6) 0.4
Germany, F.R.	84.8 (53.8)	62.7	61.3	69.9	(1.1)	(2.7)	(0.4) 51.2	(0.5)	(0.1) 38.3
Italy	9.8	5.9	2.0 (0.9)	4.5	9.0	(54.2) 17.9	(39.0) 16.2	(26.7) 15.2	(19.9) 4.2
Netherlands	13.1	11.7	10.3	8.2 (8.2)	(2.9) 0.1 (-)	(10.0) 9.0 (8.9)	(3.2)	(1.0)	(1.7)
Spain	_	0.2	0.1	(-)	(0.0)	(-)	(2.0) (-)	(-) (-)	(-) (-)
United Kingdom	(-) 116.9 (116.9)	(-) 123.2 (123.2)	(0.1) 152.5 (152.5)	(0.5) 136.4 (136.4)	(0.0) 109.9 (109.8)	(-) 123.9 (112.0)	(-) 82.1 (72.6)	(-) 138.1 (134.1)	(-) 145.9 (145.5)
Japan	-	2.5	5.1	8.9	8.3	6.9	3.8	19.8	34.0
Norway Sweden	-	-	0.5	0.7	0.0	0.0	0.6	0.9	0.9
United States	0.4	0.2 4.4	0.2 1.7	0.2 0.3	0.3 0.4	0.1 0.0	0.1 0.1	0.2	0.3 0.7
Centrally-planned economies,		3.0	10.4						
of which:	=	3.0	10.4	8.4	=	Ξ	<b>.</b>	=	=
Bulgaria Czachoslovakia	-	-	_	3.5	-	-	-	-	-
USSR	-	3.0	10.4	0.9 4.0	-	-	-	-	-

\* Estimated

TABLE 14

WORLD IMPORTS OF REFAMED LEAD, 1975-1985
(Thousands of Metric Tons)

	1975	1978	1979	1980	1981	1982	1983	1984	1985
fotal trade	811.0	1.037.6	1,112.7	1,015.7	943.5	964.9	991.4	1,023.4	986.
Total trade excluding intra-EEC trade	(658.2)	(819.2)	(894.0)	(787.2)	(725.5)	(756.1)	(783.3)	(773.2)	(749.7
Developing countries, of which:	131.7	164.3	177.6	164.0	181.0	226.7	248.5	203.6	240.3
Algeria	7.8	7.9	4.2	6.4	3.6	0.6	0.3	2.7	6.1
Brazil	12.5	0.8	0.6		0.2	0.6	0.6	0.7	2.
Egypt India	15.2 14.4	16.0	15.0	14.0	15.0	16.0	28.0	10.1	111.
Indonesia	2.6	29.3 6.5	39.6 5.7	31.0	31.7 8.7	11.4	61.3	38.9 12.3	39.
Iren	14.0	10.6	3.6	2.0	12.4	16.8	25.1	16.2	22.
Israel	0.8	2.1	2.9	i.i	1.9	1.8	1.2	0.8	1.
Korea, Rep. of	4.5	20.5	19.1	18.2	16.7	16.5	22.2	26.2	42.
Helaysia	1.0	5.2	4.7	5.8	7.9	7.9	7.6	8.1	11.
Philippines	6.4	7.5	7.0	4.6	6.0	5.7	9.0	5.7	9.
Romania	5.0	4.0	17.0	10.0	10.0	10.0	5.0	5.0	5.
Theiland Turkey	6.0	8.6	10.8	11.2	8.9	9.7	13.2	10.0	8.
Yugoslavia	15.6	3.3	2.9 9.6	5.5 10.1	12.1	6.3 15.6	7.1	6.8	8.
Other	21.2	33.2	34.9	36.7	44.2	41.8	48.5	51.2	53.
oenet.	1 21.2	33.2	34.9	30.7	•••.2	*1.0	40.3	31.2	1 33.
eveloped countries.	539.6 (386.8)	732.2 (513.8)	696.7 (478.0)	711.8 (483.3)	624.4 (406.4)	607.8 (399.0)	635.9 (427.8)	719.8 (469.6)	643. (406.
of which:			Ì	ŀ	1	j			
Austria	15.9	24.5	29.5	32.4	35.7	32.5	31.4	38.3	37.
Canada	2.0	1.7	2.3	2.6	9.2	5.7	2.6	6.3	5.
EEC	364.8	387.3	378.0	463.2	369.7	376.8	375.7	398.1	375.
	(212.0)	(168.9)	(159.3)		(151.7)	(168.0)	(167.6)		(138.
Relgium	9.3	12.7	18.3	21.8	24.8	27.1	18.6	33.9	24.
Denmark	6.4	(0.1) 6.7	(1.2)	(9.9)	(5.2)	(4.7)	9.6	(10.1)	16.
Delimer K	(5.2)	(5.3)	(1.2)		(0.7)	(2.6)	(1.6)	(6.5)	7.
France	42.8	32.6	35.5	35.4	36.5	37.1	44.3	51.2	39.
	(2.0)	(1.6)	(1.8)		(5.5)	(8.8)	(3.7)	(7.4)	(5.
Germany, F.R.	32.8	63.4	62.6	90.7	67.5	76.9	64.1	99.0	92.
_	(10.6)	(5.5)	(6.9)		(8.0)	(9.8)	(5.4)	(4.8)	(8.
Greece	7.9	6.4	5.0	7.0	5.8	18.7	24.4	12.2	9.
Ireland	(n.a.)	(n.a.) 4.2	(n.a.) 4.0	(7.6)	2.2	(14.3)	(22.0)	(8.9)	(8.
11414114	(n.a.)	(0.4)	(0.2)		(-)	(0.1)	(-)	(0.3)	،" ا
Italy	125.4	136.7	147.9	171.6	122.4	108.2	115.2	107.6	108.
,	(94.0)	(92.5)	(99.1)		(73.6)	(70.7)	(75.4)	(66.3)	(61.
Netherlands	41.5	38.6	37.1	46.0	34.2	32.8	30.1	26.8	24.
	(17.4)	(1.2)	(1.9)	(8.3)	(2.9)	(2.5)	(6.0)	(0.3)	(0.
Portugel	8.2	14.3	13.1	16.5	17.8	18.6	16.3	13.9	20.
	(n.a.)	(n.a.)	(~)	(n.a.)	(2.0)	(8.9)	(8.2)	(8.9)	(10.
Spain	6.8	3.5	1.0	3.9	6.8	6.0	6.7	4.1	2.
* * * * * * *	(0.5)	(-)	(-)		(-)	(-)	(-)	(-)	1
United Kingdom	82.3	68.2	47.1	63.1	49.5	45.7	45.3	35.0	36.
Finlend	(81.9)	(62.3)	(47.0) 15.5		(49.1)	(45.6)	(45.0)	(34.4)	(32.
Japan	15.8	48.4	50.2	20.5 69.1	20.9 48.7	19.2 45.5	12.1	63.6	18.
New Zealand	7.8	8.6	6.6	6.8	5.2	6.0	5.1	4.9	4.
Norway	8.2	7.4	6.5	7.7	6.5	12.3	11.6	13.3	12.
South Africa	3.3	5.7	3.4	9.2	9.3	4.0	5.4	9.9	3.
Sweden	3.2	0.3	1.5	0.6	7.1	1.7	1.9	0.5	1.
Switzerland United States	14.4 91.2	15.6	11.6	18.0 81.7	10.2	12.9 91.2	10.4	7.1 163.3	10.
entrally-planned			1	İ		1			
economies, of which:	139.7	141.1	238.4	139.9	136.1	130.4	106.6	100.0	103.
China, P.R.	55.0	40.0	50.0	35.0	30.0	15.0	10.0	5.0	5.
Czechoslovakie	16.0	14.0	15.0	15.0	15.0	15.0	15.0	18.0	18.
Germany, D.R. Hungary	3.0	2.0 4.0	7.0	5.0	7.0	8.0	4.0	4.0	4.
nungary Poland	14.7	-5.1	5.4	1.9	2.0 3.1	6.4	1.6	6.0	6.
USSR	48.0	70.0	150.0	80.0	80.0	80.0	70.0	60.0	65.
		,		. ~~.~					

"Estimated

TABLE 15 DIRECTION OF TRADE BY MAIN EXPORTING COUNTRIES, 1965
(as percentage share of total exports)

Land eros and conces	trates	leed bull	iton	Refined lea	đ
Country	2	Country	z	Country	2
Peru *	105.0	Australia	162.9	Australia	153.5
to: REC	35.9	to: FEC	62.9	to: India	29.2
Jepan	26.0	Japan	36.9	Japan	13.6
United States	24.:	Other	0.2	Iran	13.0
Frezil	3.7		ł	EEC	9.4
Korea, P.D.R. Yugoslavia	3.2	1	İ	Indonesia	7.1
USSR	2.3	1	ì	Korea, Rep. of	5.2
Other	2.4			Theiland Other	3.3
South Africa				*	
to: IIC	101.7			EEC*	131.7
Japan	n.e.	<u> </u>		to: USSK Austria	31.2
				Egypt	7.6
Austreile	80.8	1	}	Turkey	5.1
to: Japan	33.9	-	İ	Switzerland	3.4
EEC	33.7		1	Csechoslovakia	3.0
United States	18.1			Other	29.5
South Africa	8.3		1		]
Other	6.0			Canada	113.9
O	1		1	to: United States	64.9
Ceneda	62.6			EEC	30.7
to: EEC	54.3		Ĭ	Other	4.4
Japan United States	22.4		1		1
Other	16.0	l	1	Mexico	98.9
ocust	/ ' ' '			to: BEC United States	53.6
				Japan	29.8 4.6
	}	1	Ì	Cuba	4.2
		1		Other	7.8
				Peru	44.1
		1	İ	to: EEC	64.1 43.5
		1	1	Korea, Rep. of	27.2
			1	Venezuela	11.7
	1	1	1	Japan	8.5
		j	1	United States	6.8
				Other	2.3
				Horocco*	54.7 67.6
	1			to: EEC	67.6
				Other	32.4
				Sweden .	41.5 40.0
	1		1	to: USSR	
		1		EEC	33.8
	Ī	1		Norway	12.2
	1			Fislend Other	11.6 2.4
	•				4

Estimates

Source: International Lead and Zinc Study Group
Hetallgesellschaft: Metallstatistik, 1975-1985
Estadistica del Comercio Exterior de Espana

- India has replaced the United Kingdom as the principal buyer of Australian refined lead. Its share in Australia's exports in 1985 was almost 30 per cent and Japan and Iran shared equally 27 per cent. Most of the remaining Australian lead metal exports were destined to other in South East Asia. United States has The considerably its imports of refined lead from Canada in the last few years and become its principal customer. In 1985, the United States bought about two-thirds of refined lead exported by Canada. In contrast the volume and share of Canada's exports into the EEC decreased in the last two years, and accounted for 31 per cent of total Canadian lead metal exports in 1985. Most refined lead exported by the EEC is consumed in other European countries, including the USSR. The latter country has been the principal importer of refined lead exported by Spain since 1982 although this ceased in 1986. The USSR has also been the major customer of Sweden, together with the EEC and other Nordic countries. The EEC is the major customer of refined lead exported by Mexico, Peru and Morocco.
- Table 16 indicates that in 1985 Peru, followed by South Africa. Australia, Morocco, Canada and Sweden were the major suppliers of lead ores and concentrates to the EEC. In the same year, Peru became the principal supplier of lead ores and concentrates to Japan (29 per cent). followed by Australia, Canada and South Africa (25 per cent, 22.5 per cent and 13 per cent, respectively). The USSR makes most of its lead ores and concentrates purchases in Spain and Sweden, while the United States imports mainly from Peru, Australia and to a lesser extent from Canada and Honduras. Most lead bullion imported by the EEC and Japan originates from Australia. The United States has remained the largest importing country of lead metal though the volume of its imports showed large fluctuations over the last ten years. Its principal suppliers have been Canada and Mexico which supplied 67 per cent and 25 per cent of its total lead metal imports in 1985. The EEC's import requirements of refined lead are mainly covered by imports from Morocco, Canada, Mexico, Peru and Australia. Similar to lead ores and concentrates, Spain and Sweden have been the major exporters of lead metal to the USSR. The Republic of Korea purchased most of its refined metal from the countries in the same geographic region, namely Australia, Japan, the People's Republic of China, and Peru. Most lead metal imports to Japan originate from Australia and to a lesser extent from Mexico, Peru and South Africa. India buys all its lead metal from Australia.

If not otherwise mentioned all figures exclude the EEC intra-trade and trade among centrally-planned economies.

TABLE 16 (as percentage shere of total exports)

Lead ores and conc	entrates	Lead bullion		Refined lead	I
Country	z	Country	2	Country	z
EEC From: Peru South Africa Australia Horocco Canada Sweden Honduras Iran Thailand Other  Span From: Peru Australia Canada South Africa Thailand Other  SSR From: EEC (Spain) Sweden  mited States For: Peru Australia Canada Honduras Other	325.4 35.0 10.6 9.2 8.4 6.5 6.0 4.0 3.7 1.6 15.0 157.1 29.1 25.0 22.5 13.2 6.5 3.7 50.0 n.a. n.a. 42.8 34.9 27.9 11.6 4.7 20.9	EEC from: Australia Korea, F.D.R. Other  Japan from: Australia Korea, P.D.R. Other	188.8 84.3 2.2 13.5 34.0 67.7 10.6 22.7	EEC from: Morocco Canada Mexico Peru Australia Sweden Other  United States from: Canada Mexico Peru Australia Other  USSR from: EEC (Spain) Sweden  Korea, Rep. of from: Peru Australia Japan China, P.R. Other  India from: Australia Mexico Peru Australia Australia  Japan China, P.R. Other	138.1 29.2 22.8 14.2 10.4 10.0 5.7 7.7 133.6 67.2 25.4 3.7 3.0 0.7 65.0 n.a. n.a. 42.3 39.5 19.6 n.a. n.a. 100.0 39.6 59.0 12.8 12.8

Estimates

Source: International Lead and Zinc Study Group Metallgesellschaft: Metallstatistik, 1975-1985 Estadistica del Comercio Exterior de Espana

### SECTION IV

# COMMERCIAL POLICY SITUATION1

40. This section discusses commercial policy measures affecting trade in lead and lead products. First, it describes tariff concessions made by developed countries on lead in the Tokyo Round negotiations and refers to pre- and post-Tokyo Round rates. This part is followed by an analysis of trade flows in lead, under different tariff atment for countries participating in the Tariff Study. Information on tariff treatment and trade flows for certain developing countries is also presented. Some reference is made to the problems of tariff escalation and effective tariff protection in the lead industry. This section is concluded with a description of non-tariff measures applied to trade in lead and its products which have been notified to GATT. As explained in paragraph 6, several other metals are commonly produced in association with lead; this study does not attempt to describe the impact that trade barriers applicable to co-product and by-product metals might have on lead trade.

# Tokyo Round negotiations: tariff assessment

- 41. Tariff concessions and the binding of m.f.n. rates of duty in lead and lead products were subjects of several trade negotiations undertaken in the GATT. In this section, the main focus is the Tokyo Round negotiations and their results in further liberalizing lead trade. It should, however, be borne in mind that any attempt to measure the importance of tariff reductions encounters a number of technical difficulties. "The main problem stems from the impossibility to correctly assess the volume of trade which will be generated by the agreed duty reductions. Instead of the future trade increment the past volume of trade is usually taken into consideration when the depth of the duty cut individual customs tariff lines is combined in the overail The methodology worked out by the Working Party on the tariff study was based on the comparison of the level of tariffs before the negotiations with the agreed level of concessional rates agreed. Two tariff averages were used: the first tariff average was a simple arithmetic average of duty rates; the second was a weighted average giving to each duty the weight of imports on which such duty was collected.
- 42. Table 17 presents a comparison of pre- and post-Tokyo Round simple and weighted average tariffs on all industrial products (excluding petroleum) with tariff averages on unwrought lead, lead semi-manufactures and metal manufactures (other non-ferrous metals included) for nine developed country markets. Weighted tariff averages of all duty rates are calculated using the m.f.n. imports at the national tariff level in 1977 (in some cases 1976) of the country concerned. Simple and weighted

TABLE 17 PRE-TOKYO ROUND AND POST-TOKYO ROUND TARIFFS
IN NINE DEVELOPED MARKETS

(Percentages).

		Al indus prod exclu petro	trial ucts ding	Unwr 1e	ought ad	semi	ead -manu- tures	ma	al <sup>l</sup> nu- ures
		Pre	Post	Pre	Post	Pre	Post	Pre	Post
Nine tariffs									
combined	s	10.4	6.4	4.1	3.0	8.4	5.8	9.8	5.9
	W	7.0	4.6	2.6	2.3	6.8	4.8	9.3	5.7
United States	s	11.2	6.3	4.0	3.1	5.0	3.9	9.9	7.9
	W	6.3	4.3	3.6	3.4	3.2	2.4	5.5	4.5
Canada	s	12.6	7.3	9.2	5.7	11.2	7.8	14.6	8.5
	W	12.7	7.8	0.0	0.0	6.8	4.8	16.1	9.4
Japan	S	10.2	5.0	6.6	5.0	15.6	7.2	10.4	5.4
	W	5.4	2.7	5.5	4.4	11.7	6.3	9.3	5.2
Austria	S	11.7	8.1	3.3	2.7	13.0	7.0	15.9	9.6
	W	8.9	7.7	4.9	3.9	0.0	0.0	19.8	13.4
Finland	S W	13.2 6.9	11.4 5.5	0.0 0.0	0.0	1.1 1.1	0.0	8.8 7.7	6.8 6.2
Norway	s W	8.5 4.2	6.7 3.1	ა.ი ი.ი	0.0 0.0	1.0	0.8 3.2	7.8 6.9	5.3 4.5
Sweden	S W	6.0 5.6	4.8 4.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	5.1 5.3	3.8 3.9
Switzerland	s	3.7	2.9	0.1	0.1	1.7	1.4	3.2	2.4
	W	2.9	2.2	0.1	0.1	2.8	2.3	3.8	2.7
EEC	S	9.1	6.4	i.2	1.2	8.9	7.2	7.8	5.6
	W	6.5	4.6	1.3	1.3	9.7	7.8	5.8	5.8

 $^{
m l}$ Metal manufactures include all non-ferrous metals.

S: Simple averageW: Weighted average

tariff averages are broken down into three groups of products divided according to the stage of processing. Table 17 shows that tariff both simple and weighted, on unwrought lead and averages, semi-manufactures are, in most countries, lower than those on all industrial products taken together. The exceptions to this observation are the weighted tariff average on unwrought lead in Japan, the simple tariff average and the weighted tariff average on lead semi-manufactures in Canada and Norway, respectively, and both simple and weighted tariff averages on lead semi-manufactures in Japan and the EEC. With respect to metal manufactures (other non-ferrous metals included), eight out of nine developed country markets listed in Table 17 have higher than average tariffs on either the weighted basis, or on both the simple and weighted basis. The only exception is Sweden. However, in examining simple tariff averages for lead manufactures given in Tables 20 to 34 it can be noted that simple tariff averages on lead manufactures are lower than those of metal manufactures in all countries with the exception of Canada, Japan and the EEC. Weighted tariff averages indicated in these Tables cannot be compared as they relate to different trade years.

- 43. Tariff concessions granted on itad and lead products in the Tokyo Round, vary according to different products and countries. On the basis of the information on pre- and post-Tokyo tariff treatment on lead and lead products in the countries participating in the MTNs presented in Annex I, the following observations can be made:
  - (i) except for Australia and New Zealand, m.f.n. duties on lead and lead products are bound by all developed countries. Australian m.f.n. tariffs are unbound and m.f.n. rates shown in Annex I, under post-MTN, represent m.f.n. rates applied as from l January 1985. New Zealand's m.f.n. rates are bound on lead ores and concentrates and most lead chemicals. The m.f.n. duties on unwrought lead, lead semi-manufactures and lead oxides are only partially bound. CCCN 78.06 (other articles of lead) is subject to a ceiling binding. CCCN ex 28.42 in Norway and TSUS 473.52 and .56 in the United States are also bound at a ceiling rate;
  - (ii) most of m.f.n. duties are ad valorem. Only Switzerland applies low specific duties on all lead semi-manufactures and manufactures. Specific rates also apply on unwrought lead (CCCN 78.01) in Austria and Japan and on lead ores and concentrates and ashes and residues in the United States (for the sake of comparison ad valorem incidence is indicated in brackets):
  - (iii) the majority of the positive m.f.n. rates on lead were reduced.

    Tariff cuts varied according to the products and countries and

ranged between 10 per cent and 55 per cent. In general, tariff cuts were deeper on products which were facing higher nominal duties. However, certain m.f.n. rates were bound at the same level. Moreover, while most developed countries grant the m.f.n. duty-free treatment on lead ores and concentrates, m.f.n. nominal duties increase with higher stages of lead processing.

# Trade in lead and lead products under different tariff treatment according to stages of processing

The purpose of this discussion is to give an indication of the magnitude of trade flows in lead and lead products under different tariff treatment according to stages of processing for the countries for which more detailed statistical information is available. Three sets of Tables, with varying degrees of detail, have been established for this purpose. First, Table 18 provides a summary of trade in lead and lead products under different tariff treatment in sixteen developed-country markets' and seventeen developing countries. Second, Tables 19 to 34 give information on trade flows for the same sixteen developed countries at tariff line level broken down by stages of processing as well as by different tariff Third, trade flows in lead and lead products of other treatment. countries included in Table 18 are shown in Tables 35 to 51, based on information gathered from nat.onal trade statistics. In addition to the individual country cables, Table 52 indicates m.f.n. rates on lead and lead products applied by some other countries.

# (i) Developed countries

- 45. Tables 19 to 34 were established on the basis of the tariff assessment listing for the countries participating in the Tariff Study and from national statistics and tariff schedules for other countries. The trade flows in value terms (US\$'000) refer to 1984 data (1984-85 for Australia, 1983-84 for New Zealand and 1985 for Canada). The Tables indicate imports on a tariff line basis from m.f.n. sources, imports from GSP beneficiaries and imports under other preferential treatment. They also show shares of imports under different tariff treatment in different stages of processing as well as in total imports of lead and lead products. Additional columns give the principal exporters under each treatment.
- 46. Each tariff line shows tariffs granted to the item under different tariff treatment. The m.f.n. treatment relates to m.f.n. final rates (1984-85 for Australia). In certain cases footnotes indicate lower rates actually applied (New Zealand) or imports under by-law provisions (Australia). For the purpose of comparability, specific rates were converted to ad valorem equivalents on the basis of 1984 trade figures

SUMMAY OF THANK IN LEAD AND LEAD PRODUCTS UNDER DITTIBUT TAXITY TRANSMED IN THIRT IND CONSTITUT TANE 10

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12.3   Tariff Fenge   Value															ł				(
Value   Valu														8			Other	prefer	sected tresment
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1984   1964   1964   1965	Pereloned countries														T			I	
1966   1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	. Australia	1964/85	14,632	200.0	10,531	72.0			10.0-20.0		\$	4.0	10.0						1
1986   47,519   100.0   4,05   100.0   4,19   4,19   4	AMORTIA	70.0	210,01	9 9 9			2,091	12.3		4.0-13.0	17	0.1	2.0-7.5				32.		
19th   647,519   100.0		782	25.7	20.08			2,500	3.0		3.8-13.0	65,009	97.0	_	•			•		Comments comprises
1986   4,581   100.0   1,00.0	#	136	447,519	100.0			410.910			3,10	, ;	•		-					M X
1986   1,191   100.0   1,194   100.0   1,194							•	:				;	•	î	<b>.</b>		Š	÷:	ICP, EFZA, ESP <sup>A</sup> , THE, Nodi Lettenana anoras,
1986   1,577   100.0   2,384   32.2   3.75.3   3.75   3.	Finland	1964	4.501	9															otali files
1985   175   150	Managery.	361	5.676	9			201			3.8-5.1	•	0.1	78	•		25.	275	9	PTA, ERC, CPC, EXP <sup>3</sup>
1886   100,465   100.0	Iceland	1905	134	100			,	33.2		2.3-9.8	2.730	29.6	Free-5.0	•		:	102	1:3	lastors trading ores <sup>2</sup> ,5
1984   1,137   100   1	Jopan	1961	170,663	100.0			78.441	,		20.00	7	•				:	727		Pla, EBC
1986 4,831 100.0 6,654 90.0 7.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1	Hew Zeelend	1963/64	3,337	200.0			1.065			7.00	7.2.7	9.0	_						
1,000   1,00			,							?	3	•	25.0	2		•	732	0:4	PARTICA (Incuding 1875,
1984   19,835   100.0     10.0-10.0     1.0-10.0     1.35     1.0-10.0     1.35     1.0-10.0     1.35     1.0-10.0     1.35	Morvey	1367		100.0			6,475	****	-	3.2-3.6	12	-	-		· <del></del> -		-	-	
1984   4,833   100.0   6,694   98.0   0.4-20.0   139   2.0   13.2   10.0   13.8   13	Pertugal	1964	10,836	300.0	•			_	0.01-0.1		* * * *		-	,				7	E. EPLA, ESP
1984   15,421   100.0   -	South Africa	7367	6,633	300.0	49.9	0.			0.4-20.0							 <u>:</u>	2.4.0	3. K	FIA, ERC
1984   14,601   100.0   100.0   1,001   100.0   1,002   100.0   1,002   1,00	Spein	136	15,582	100.0	•				6.0	26.0	\$.073	8					_		į
1384 117,190 100.0  1385 1,041 100.0  1385 4,901 100.0  1385 1,041 100.0  1385 1,001	2000	1	16,601	3.001	-		13,636	7.7		2.7-3.8	217	7.5	2	-			_		
1382 1,041 100.0 1,436 37.7 100.0 1,436 10.0	POLITETIONS	100	6,683	0.0			:			0.1-1.4	1,031	15.4	***	•		_	_		E. Pera Can
1982   1,041   100.0   1,826   37.2   100.0-38.0   1,636   33.4   1.4.1   1,437   181.9   12.4   1.4.1   1,437   181.9   1.2.4   1.4.1   1,437   181.9   1.4.4   1.4.1   1,437   1.4.1   1,437   1.4.4   1.4.1   1,437   1.4.4   1.4		£	117,190	0.00						0.51-8.0	102,449	47.70					_	1:0	MDA comertos.CAR.188
1982   1,041   100.0   1,816   37.2   20.0-38.0   1,858   33.4   n.e.   912   67.6   1,815   100.0   1,816   1,816	beveleping countries																7	_	
1982   1,044   100.0   1,826   17.2   100.0-18.0   1,658   13.4   12.4													_						
1985   1,999   100.0   1,414   1,414	Argenting	7	7	000	,				0.0-38.0		129	12.4			_	•	_	17.6	•
1985   1,175   100.0   1,416   100.0   1,008   50.4   100.0   1,008   100.0   1,008   100.0   1,416   100.0   1,416   100.0   1,342   96.8   1,00.0   1,342   96.8   1,00.0   1,342   96.8   1,00.0   1,342   96.8   1,00.0   1,342   96.8   1,00.0   1,342   96.8   1,00.0   1,342   96.8   1,00.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,342   96.8   1,720   100.0   1,720   1,720   100.0   1,720   100.0   1,720   1,720   100.0   1,720   1,720   100.0   1,720				2.0	7,626	37.2			0.02-0.0		1,656	33.0			_		_	10.0K	3
1981/82   25,717   100.0   1,342   96.8   10,046.0   25,719   100.0   4.5   1			7,77	0.00					0.94-0.		1,000	3.03			_	_		3.6 \$	191
1963 1,364 100.0 1,342 94.8 2,719 100.0 10,393 99.9 4.5 14.5 14.5 1.0-7.9 1.0-10.0 10,393 99.9 99.9 4.5 1.0-7.9 1.0-7.9 1.0-10.0 1.364 100.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.0-10.0 1.342 94.8 1.34	•	1961/62	2,73	9 9		-					_		_						
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1.0-10.0 12,087 96.8 n.e. 140 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2				3 8				<u></u>	2			9 9				,	_	_	
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Defore the entry of Spain to the EZG.

and reference is made to Annex I where specific rates are indicated. The m.f.n. rates are broken down into duty-free and dutiable rates, bound and unbound. The GSP rates for Austria and Canada refer to the final GSP rates which were gradually reduced in step with staged m.f.n. reductions. GSP rates for other countries refer to 1985 schemes. (1984-85 for Australia.) Other preferential treatment refers to preferential rates of duty granted to certain countries or regional groupings.

Sub-totals on trade flows in each stage of processing are given together with tariff ranges and m.f.n weighted and simple tariff averages. Figures for total lead trade are also provided. However, it should be n ad that trade flows under ex tariff lines comprise imports of all products included under the respective tariff lines and not only lead products. In order to avoid the largest distortions, trade indicated in brackets under CCCN ex 26.03 was not taken into account in the calculation of the total lead trade. Most tariff lines on lead chemical compounds are ex items and also include chemicals of other non-ferrous metals. As no percentage allocations for different metals are available, trade figures given for these products relate to the total trade under the same tariff line and should be considered as a rough order of magnitude. they were not included in the sub-total trade of chemicals and in the total trade. Also, no weighted tariff averages were calculated for these In addition, as mentioned in the footnotes to the Tables, for certain countries, separate values for imports under CCCN 78.04 (powders and flakes and lead foil) are not available. In such cases, trade values were considered for only within one tariff line; however, they were considered in calculating the weighted tariff averages. It should also be noted that a weighted tariff average of zero per cent does not necessarily indicate duty-free treatment but may indicate that there is no trade under m.f.n. dutiable items. Certain difficulties in the calculations relating to the actual incidence of tariffs mentioned above, make it necessary to regard these figures as approximations at best. Moreover, neither the simple nor the weighted tariff averages provide a fully satisfactory indication of how tariffs have affected trade flows over time.

# Individual developed-country profiles

48. Despite difficult market conditions and severe cost cutbacks, Australian production of base metals has continued to progress. Most base metal ore bodies are polymetallic, with joint production of metals where the buoyancy of one metal is supporting the weakness of another. For instance, zinc supports lead production at Broken Hill and lead and zinc support copper at Mount Isa. At present, Australia is the second largest world lead mine producer and the third largest exporter of lead ores and concentrates. Australia's main lead mine producer is Mount Isa which produces about 33 per cent of the country's lead. About half of the

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<sup>&</sup>quot;Lf.s. day-free subject to a 2 per cent revenue daty.

Train figure included with produce and finises above.

The entings rate and these figure, USS.TM per Australian daller, is an average of serial average from July 1994 – June 1995 (BW Statistics).

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livin: Where the land products are not specified separately (indicated by "ea") the trade flow figures, show within brackets, any facilists deposits of products other than time of land, and for the same reason are not facilisted in the sub-total.

output comes from mines in the mining area of Broken Hill belonging to CRA and North Broken Hill Holdings Ltd. (NBHH). About 75 per cent of lead concentrates are processed locally and exported either as lead bullion or refined lead. Australia is also the main world exporter of these two products. The Broken Hill Associated Smelters Pty. Ltd. at Port Pirie is the major producer of refined lead. Another smelter owned by CRA (about 70 per cent) and NBHH (30 per cent) has recently been modified. In addition to these items, Australia also exports some lead oxides and lead scrap.

- 49. Table 19 indicating Australian lead imports in 1984-85 fiscal year shows that in that year its imports consisted mainly of lead ores and concentrates and lead chemicals. As already mentioned, Australian m.f.n. duties on lead are not bound. With the exception of arsenate of lead and lead manufactures, all m.f.n. rates of duty applied to lead are zero. However, unless they are imported under by-law provisions, all lead products are subject to a revenue duty of 2 per cent introduced in 1979. Positive m.f.n. rates of duty of 10 per cent are applied on arsenate of lead and 20 per cent on lead manufactures. Australia grants tariff preferences under its GSP scheme to lead imports from developing countries. It also grants duty-free access to imports of lead products from New Zealand under the Australia-New Zealand Economic Relations Trade and to Papua New, Guinea under the Agreement on Trade and Commercial Relations (PACTRA)'. In addition, the South Pacific Regional Trade and Economic Cooperation Agreement (SPARTECA) provides for duty-free and unrestricted access to imports from the Forum Island countries. In 1984-85 about 26 per cent of total lead imports originated from GSP sources and 1.5 per cent from New Zealand.
- The lead and zinc industry belongs to important processing industries of Austria's economy. Bleiberger Bergwerks-Union AG, a part of the state-owned holding company, Oesterreichische Industrieverwaltungs AG (OIAG), is the major country's lead producer. Most of lead metal is produced from secondary sources (about two-thirds of total production), while primary production processes small amounts concentrates mined in the country or imported. Since primary and secondary lead metal production covers only partially its domestic consumption (66 per cent in 1985), Austria depends to a large extent on imports of unwrought lead. This item represented 75 per cent in Austria's total lead imports in 1984. Lead metal was imported duty-free under the Agreement between EFTA countries and the EEC, while about 5 per cent was supplied under the GSP preferential treatment of 2 per cent (ad valorem incidence of a specific rate) by 'ugoslavia. Imports of lead scrap from Hungary, Switzerland and the EEC represented 4.4 per cent of total imports in 1984. Austria also imports wrought lead products, lead oxides and some lead manufactures. These products represented 6.8 per cent, 3.5 per cent and 2.8 per cent in total lead imports in 1984, respectively, and were

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<sup>1</sup> CSP rates indicate rates an calculated by the occretarist in accordance with the fastrius formula: 50 per cent of final post-NIM rates, applied on a by-country of origin and by-product basis. Also, preferential dety-free trustment in general to MCs.

Index the Agrament between the DTA countries and Spain, signed on 26 June 1979, Spain benefited from 60 per cont reduction of applied m.f.m. rates in 1964.

<sup>3</sup> M valueur tackfrace of specific rates bases in 1994 trade figures. Specific rate indicated & Annex I.

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Note: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, any include imports of products other than those of lead, and for the same reason are not included in the non-total.

also imported mainly from the EEC. As can be seen from Table 20, Austria's duty-free lead imports from the EEC and other EFTA countries accounted for 84 per cent of total lead imports valued at US\$17 million in 1984. In contrast, imports from m.f.n. sources subject to m.f.n. positive rates of duty ranging from 4 per cent to 15 per cent were practically nil.

- Canada is one of the world's major lead producers. production of concentrates has fluctuated quite widely due to market conditions including temporary mine closures, interruptions due to labour disputes, and the permanent closure of some mines due to ore depletion. Mine production peaked at over 400,000 tons in 1971, trended downwards until 1980 and then levelled out at about 270,000 tons. The closure of the Faro Mine in the Yukon by Cyprus Anvil Mini.g Corporation in 1982 was partly offset by the Polaris Mine in the High Arctic, opened by Cominco same year. Consequently, Canada's exports of concentrates decreased to less than 30 per cent of total lead exports in 1985, compared with 60-70 per cent in the early 1980s. The Faro Mine was in 1986 under the new ownership of Curragh Corporation, whereas Pine Point Mines Limited, controlled by Cominco Limited, announced plans to close its Northwest Territories Mine in 1987. There are no significant new lead mines under development. production has also fluctuated but to a lesser extent than mining. of Canada's primary lead smelters are relatively old and Cominco Limited recently announced that it is replacing its smelter at Trail, British Comombia, with some financial investment by the Federal and Provincial Governments. It will be completed in 1989 and have an annual smelting capacity of 160,000 tons. In addition to lead ores and concentrates and unwrought lead, Canada exports lead semi-manufactures and lead scrap.
- 52. For the purpose of inter-country comparability, Canadian statistics on lead imports were elaborated on the basis of CCCN concordances supplied by the Canadian author'ties. However, since the Canadian tariff is end use oriented, it is difficult to assess the average level of m.f.n. tariffs by stages of processing. Trade flows indicated under ex tariff lines overstate the magnitude of trade in lead since they pertain to trade of other products included in the same tariff lines. Table 21 indicates that in 1985 Canadian imports of lead amounted to US\$85 million. amount imports of collapsible tubes of lead from the United States accounted for 95 per cent of total imports. The remaining 5 per cent consisted of imports of unwrought lead and lead oxides supplied by the United States. Mexico and the EEC. Most m.f.n. semi-manufactures and manufactures are positive, ranging from 3.8 per cent to 15.0 per cent. Canada grants preferential treatment to imports of m.f.n. dutiable lead products from developing ountries under its GSP It also applies preferential rates to imports from New Zealand and the British Commonwealth countries other than the United Kingdom. 1985, there were no imports from these sources.

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there the land products are not specified superstely (indicated by "es") the trade flor figures, show which brackets, any include inputs of products other than those of lood, and for the same are not included in the advantal.

- 53. Lead mine production in <u>Czechoslovakia</u> is estimated at about 3,000 tons annually. Most of lead concentrates are exported, mainly to the Federal Republic of Germany. Czechoslovakia also has secondary lead plants, the output of which is estimated at about 21,000 tons annually. Its imports of lead products are generally low. In 1982, Czechoslovakia imported a large quantity of lead oxides from Yugoslavia. In the Tokyo Round, Czechoslovakia reduced most m.f.n. rates applied to lead imports. The m.f.n. tariff treatment is indicated in Table 53.
- 54. The EEC has an important smelting and refining production of lead which in 1985 amounted to almost 1.4 million tons of lead metal, representing approximately 25 per cent of world production." In 1984-85. its metal consumption was about the same level as its production, in contrast to previous years when the former was on average about 200,000 tons lower than the domestic output. As its lead mine production is only between 200,000 to 300,000 tons per year, most EEC smelters and refineries depend to a large extent on imports of lead concentrates or lead bullion, and supplies of scrap. Consequently, the EEC is a net importer of these products. Most lead metal is processed semi-manufactures, including chemicals, and manufactures for the EEC market and abroad. As can be seen from tables on imports of other countries, the EEC countries are major suppliers of these products to most of them.
- he EEC constitutes the largest market for lead and lead products. Table 22 indicates that in 1984, its lead imports were valued at US\$458 million. The bulk of them are lead concentrates and unwrought lead mainly descined for further processing. In 1984, these items represented 50 per cent and 47 per cen of the EEC imports, respectively, and with the exception of alloyed lead, were imported m.f.n. duty free. Most lead ores and concentrates were supplied by Peru, South Africa and Sweden while unwrought lead originated mainly in Australia, Sweden and Mexico. Table 22 shows, lead alloys are subject to the m.f.n. duty of 3.5 per cent and there is no GSP preference on this item under the EEC's GSP scheme. Nominal m.f.n. rates of duty increase on lead products of higher stages of processing. Thus, m.f.n. simple tariff averages are 7.8 per cent on lead wrought products, 10.5 per cent on lead c'amicals and 7.6 per cent on lead manufactures compared to 0.3 per cent on unwrought lead and zero duty on lead concentrates. In 1984, imports from m.f.n. sources shared 41 per cent of total dutiable imports. The EEC grants duty-free and unlimited access to most lead products subject to positive m.f.n. rates of duty when imported from developing countries as well as to least-developed countries under the GSP scheme. However, as mentioned above, lead alloys are excluded from the GSP preferential treatment. In 1984, GSP imports amounted to over US\$0.5 million and represented 1.1 per cent of m.f.n. dutiable imports. The EEC also grants the duty-free preferential treatment to the ACP countries, members of the Lomé Convention, as well as

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(Value in USS'300)

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to Mediterranean countries and Yugoslavia, while the preferential rates for Spain before its accession to the EEC were 40 per cent below the applied m.f.n. rates. In 1984, these countries supplied 39 per cent of lead products subject to m.f.n. rates of duty valued at US\$18 million. Most of these imports were lead based alloys supplied by Morocco, Spain and Yugoslavia. Imports of m.f.n. dutiable lead products are also free of duty when imported from FFTA countries under Free Trade Agreements. In 1984, EFTA countries shared 19 per cent of these imports.

- Finland has small lead mine production (about 2,000 tons a year) and one secondary smelter with an annual capacity of 7,000 tons. Most of its domestic requirements for refined lead are covered by imports. shows that in 1984 this item represented about 84 per cent of its total lead imports and was supplied mainly by the Soviet Union, Sweden and the The remaining 16 per cent of total imports amounting to US\$8.6 million were wrought lead products, lead oxides and lead containers imported from the EEC and Sweden. With the exception of lead oxides and some lead manufactures, imports of all lead products into Finland are m.f.n. duty free. These two products enter duty free when imported from developing or least-developed countries included in the list of GSP beneficiaries or from other EFTA and EEC countries. In 1984, most of these products were supplied by the latter countries. There is also no duty on imports from Bulgaria, Czechoslovakia, the German Democratic Republic, Hungary, Poland and the USSR under the agreement for the reciprocal removal of obstacles to trade and from Romania and the People's Republic of China under the long-term trade agreements.
- 57. Hungary also produces small quantities of lead and meets its needs largely through imports. In 1984, the value of its lead imports was US\$6 million of which almost 67 per cent was unwrought lead and 29 per cent lead oxides. The major suppliers of unwrought lead were the USSR. Buigaria and Switzerland while Austria and the EEC covered most of lead oxides imports. Ash residues and unwrought lead excepted, all lead products are subject to positive m.f.n. rates of duty which are 3.8 per cent on lead ores and concentrates, 7.7 per cent on wrought lead and lead manufactures and from 2.5 per cent (lead oxides) to 8.9 per cent on lead chemicals. In the Tokyo Round, Hungary reduced and bound all m.f.n. rates of duty on lead. Hungary grants preferential treatment to imports of certain lead products under its GSP scheme. Table 24 shows that GSP preferential rates range from duty free (lead ores and concentrates, lead tubes and pipes and lead oxides) to 5 per cent (other chemicals). 1984, Hungary's imports under the GSP were nil. M.f.n. dutiable lead products enter duty free when imported from CMEA countries within the framework of bilateral agreements and from Finland. In 1984, about 6 per cent of lead oxides were imported from Bulgaria.

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ladalı	2.7.00 2.30.00 2.30.00 2.30.00 2.30.00 2.30.00 2.30.00 2.30.00 2.30.00 2.30.00 2.30.00	1,738 (3) (497) (922) (226) (1,660)										2.5 6.2 9.8 8.9 8.9 3.8 8.9	1,656 (3) (81) (286) (156) (1,256)		er,er er,en er,er,er er,er,er	5.0	(-)			Free Free Free Free Free Free	(415) (636) (68) (404)		SUP, CSX UTR, CSP, CHI FOL, UTR FOL, UTR FOL, UTR, CSX
	Sib-total	1,758	100.0	2.5	8.2							2.5-9.6	1,656	<b>%</b> .2		Free	-			Free	102	5.8	
idad unfecture	78,06.00	198	100.0	1.7	1,1							7.7	158	100.0	ec,ait,ce					Prez	•	<b></b> >	ectr, Jacus
	TUDL	5,979	100.0					2,344	39.2			.5-9.8	1,770	29.6		Free-5.0	-		_	Pree	102	1.7	

ingery grants daily-free treatment to Separts from LDC countries.

Note: there the head products are not executed expensively (indicated by "ex") the trade flow figures, show within brackets, way include imports of products other than those of head, and for the same resum are not included in the sub-total.

luty-free rates applied to Malard under the bilateral agreement on the recipical renoval of obstacles to trade.

 $<sup>\</sup>frac{1}{2}$  Difference between total and sub-total represents trade of unspecified origin on line 38.01.01

laciades posiers and flains

Tariff range

- 58. <u>Iceland</u> imports all its requirements of lead and lead products. Table 25 indicates that in 1985, its total lead imports were valued at US\$124,000 and were composed mainly of refined lead (60 per cent of total imports), unwrought lead products (24 per cent) and lead oxides (15 per cent). Most of these products were supplied m.f.n. free of duty by the EEC countries. Iceland reduced and bound its m.f.n. tariffs on lead in the Tokyo Round. M.f.n. positive rates are applied only on ash and residues and lead manufactures.
- 59. As mentioned before, Japan has substantially increased its lead metal consumption. Although its production of refined lead has also risen it has still to import in order to satisfy its domestic consumption. has one fully integrated company (Kamioka Mining and Smelting Co. Ltd.). and eight custom smelting and refining companies, (Dowa Mining Co. Ltd., Hosokura Mining Co., Mitsui Mining and Smelting Ltd., Mitsubishi Cominco Smelting Co. Ltd., Sumitomo Metal Mining Co. Ltd., Nippon Mining Co. Ltd., Toho Zinc Co. Ltd. and Hachinohe Smelting Co. Ltd). Its domestic lead mine production is not sufficient and about 80 per cent of lead ores and concentrates requirements are imported (average for 1980-85). shows that this product represented in value terms more than one-half of total Japanese imports in 1984, and was imported mainly from Peru, Australia and Canada, m.f.n. duty free. However, the dependence on foreign sources might diminish in the future as Down Mining Co. Ltd. reportedly discovered a rich mixed sulphide ore deposit with, among other metals, lead grading 10.3 per cent. In contrast to lead ores and concentrates, all other lead products are m.f.n. dutiable and, except for lead manufactures, m.f.n. rates increase with higher stages of processing. M.f.n. rates of duty range from 3.2 per cent to 6.5 per cent on unwrought 5.8 per cent to 8.2 per cent on wrought lead, 3.7 per cent to 7 per cent (lead oxides) on lead chemicals and 5.8 per cent on lead In 1984, refined lead imports valued at US\$76 million manufactures. represented about 44 per cent of total imports and that of lead oxides valued at about US\$4 million were over 2 per cent. Imports of wrought lead products and lead manufactures were n ligible, about 0.3 per cent of total lead imports in 1984. Except for le 1 oxides, most m.f.n. dutiable lead products imports originated from m.f.n. sources, namely Australia, the United States and Canada (lead metal) and the EEC. Imports of lead concentrates and lead metal from South Africa and the People's Democratic Republic of Korea are subject to general rates.
- 60. All m.f.n. dutiable lead products benefit from preferential duty-free treatment when imported from developing countries under the Japanese GSP scheme. However, in principle all industrial products covered by the GSP are subject to quantitative limitations. In the case of lead, ceiling quotas are applied to goods in Chapter 28 (lead oxides and other lead chemicals) and to unwrought lead (CCCN 78.01.01 other). In the fiscal year 1984, the ceiling quota on unwrought lead was 783 tons and was

### THATE IN LEAD AND LEAD PROJECTS UNDER DIFFERENT THALIF THEMPOOL ACCURATE TO STACES OF PROCESSING

Country: ICELNO Year: 1985 (trade), 1986 (tariff treatment)

(US\$'000)

		Total			1971			Other 1	र्श्वसम्	Treatment 2
Product Description	Tariff No.	Imports	Deriff :	vezi <b>ge</b>		7.1				1 .
			Velgital Z	Simple I	Pate Z	Value	Origin <sup>1</sup>	Rate <sup>2</sup>	Value	Origin
ites and concentrates	26.01.45				Pres(B)			1,		<del> </del>
lah and residues	<b>ez 26.03.00</b>		1	į	Free (8) 5(8)	l -		1;		}
	Sib-total	-		2	Proc-4	•			-	
hrogit	-		<b> </b>							
Unalloyed	78.01.20		1	1	h		İ	11		
•	78.01.30			1	15		i	11	70	EEC
Alloyed	78.01.40			1	li			15	4	200
Veste and scrap	78.01.10				Free(8)	٠.		lí		
Powled and flakes	78.04.01		1	ļ	lj .	-		15	-	gec .
•	ez 78.04.09			1	l)	-		l i	(8)	EEC
	Sib-total	74				-		) Pree	74	
irought	78.02.01		<del> </del>		,			<b>-</b>	11	EEC
	78.02.02			1	) - m	۱.		j		ēEC
	78.03.00				Pres(B)	-		j	10	220
	ex 78.04.09				)	١.		j	8	DEC.
	78.05.00			}	Pree			1)	ı	EEC.
	Sub-total	30				-		)	30	
halals	28.27.00				,	•		1,	18	盃
	ez 28.30.09			l	)	(-)	1		(18)	DEC.
	ez 28.35.00	}		l	)	(-)		)	(7)	EDC.
	ex 28.36.20	1	1	ĺ	) Prec(B)	(6)	USA	)	(58)	EEC,ICE,SE
	ez 28.39.09			l	)	(-)		)	(13)	SE,EE
	ez 28.42.10				)	(219)	POL,OOR	)	(99)	PEC.
	ez 28.48.00	1			()	(1)		1)	(-)	1
	Sub-total	18				٠		)	18	İ
inisted manufactures	78.06.01				2 (8)			1,	_	
	78.06.02			1	25 (8)	-			-	
	78.06.09	1		•	35 (B) 2-35	2			-	
	Sab-total	2	352	20.7%	2-35	2		)	-	
	TUENL	124			Proc-35	2			122	<del>                                     </del>

Not swillable when imports (c.1.f. value) are smaller than US\$1,205 by supplier.

Note: Where the lead products are not specified expensely (indicated by "ex") the trade flow figures, show within brackets, any include imports of products other than those of land, and for the same reason are not included in the sub-total.

Embarge rate 1985: Kruner 41.508 per US\$, International Financial Statistics, DF, February 1987.

Source: Statistics of Iceland II, 64, External Trafe 1985, Statistical Sureau of Iceland, 1986

International Outons Journal, 1979-80, Branels, 1979

<sup>2</sup> Daty-free treatment is granted to Seports from the EEC and other EZTA countries.

<sup>3,</sup> Applied rate as from 1979 is 4 per cent. This rate has been used for the calculation of turiff averages.

iniff rage.

<sup>(8)</sup> Bound rate (Schedule IIII)

#### THATE IN LEAD AND LEAD PRODUCTS UNDER DIFFERENT TIMETY EVALUATE ACCORDING TO STATES OF PROCESSING

Country: JAPAN Teat: 1984

											129						Œ s	nd LD(	•	0	her prefer	erial tre	
	Tariff No.	Total t	rade	157	Į.			Daty for	*				detin	e							<del></del>	·	
		(alue	1	laiff a	erage	Unibou	ni	Box	ri 	Origin		te	Value	2	Origin	Rate	Value	2	Origin	Rate	Value	7.	Origin
				ie jac			2	Value	1		liband										<u> </u>		
(I)	(2)	(3)	(4)	(5)	(6)	(1)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(15)	(19)	(20)	(21)	(22)	(23)	(24)
res and concentrates Left and residues	26.01.813 <b>cz 2</b> 6.03.250	89,697 <sup>1</sup> (46,564)						78,641 (46,484)		PER,ALS,CAN AUS,DAN,DO													
	ûib-totel	89,697	100.0		 			78,541	87.7														
linerweght  linere and europ  Posters and flakes	78.01.111 78.01.119 78.01.121 78.01.129 78.01.200 78.04.200	18,1762 51,650 6,062 59 123 36										6.0 <sub>3</sub> 5.1 <sub>3</sub> 6.5 <sub>3</sub> 4.7 3.2 6.5	17,802 21,899 2,049 17 95 36		AIG AIG,TCA,CAN EIC,AIG,CAN EIC,TCA EIA,NIL ICA		2,162 4,033 42 28		PEX.PER.OM PEX.OM OM,932 POC.ARE				
	Sib-total	76,326	100.0	5.5	5.3							3.2-6.5 <sup>4</sup>		54.9			6,265	21.3					
Yngt	75.02.000 78.03.100 78.03.200 78.04.100 78.05.100	63 - - 88 1 5										5.8 8.2 8.2 6.5 8.2 7.2	36 - - 68 1 5		ISA,EEC ISA,EEC ISA ISA	Free Free Free Free Free	27		SCP_KOR				
	Sub-total	157	106.0	6.3	7.3							5. <del>8-</del> 8.2 <sup>4</sup>	130	82.6	}	Free	27	17.2					
( <b>i.e.</b> 'a)s	28.27.100 26.27.200 ez 28.30.140 ez 28.35.290 ez 28.39.300 28.42.500 ez 28.48.100	(3,000) (423) (1,793) (1,000) 49				and the state of t						7.0 3.7 4.9 3.7 4.9 4.9 7.0 5.8	116 22 (822) (339) (751) (935)		EEL, ALB, ISA EEL, ISA EEL, ISA, SE EEL, ISA, FOL EEL, ISA, FOL ISA, EEL	Pree Pree Free	1		HZ,527,09 CH,123,00 CH,626 EZ,62H,644 H2,62H				
••	Sub-gotal	3,965	100.0	6.5	5.2							3.7 <b>-</b> 7.0	138	3.5	5	Free	3,827	96.	5				
Firishel merufactures	78.06,000 Sub-total	518 518	100.0	5,8	5.8							5.8 5.F	512 512	98.	USA,EZE	Free Free	6		ONY, TOR				
	TULAL	1,2	100.0		-		_	78,641	46.	1		3.2-8.2	42,678	25.	9	îne	20,125	11.	8	-	+-	†-	+

Difference between total and sub-total represents trade with South Africa, which is subject to general rates

Difference between total and sub-total represents trade with the Demorratic Republic of Krea, which is subject to general rates

<sup>&</sup>lt;sup>3</sup>Al values incidence of specific rate based on 1985 trade figures. Specific rate indicated in Ames I

Tariff rate

Note: there the lead products are not specified separately (indicated by "ex") the trade flow figures, show within brackets, any include, imports of products other than those of lead, and for the same reason are not included in the sub-total.

increased by 50 per cent in the scheme for 1986-87. Ceiling quotas on chemicals included in Chapter 28 were also increased by 50 per cent. In 1984, developing countries, namely Mexico and Peru, supplied about US\$16 million or over 21 per cent of lead metal. In the same year, Mexico, Singapore and the People's Republic of China supplied almost the total of lead oxides imports by Japan.

- New Zealand is pertially dependent on imports of lead metal as its secondary metal production satisfies on average only about one-half of its domestic requirements. Table 27 indicates that in 1983-84 imports of unwrought lead amounted to US\$3 million representing 90 per cent of total Most of this product was imported w.f.n. duty free from Australia and the EEC. The m.f.n. duty-free treatment applies also to lead ores and concentrates and lead chemicals. Other lead products are subject to m.f.n. positive rates of duty. In 1983-84, imports of products from m.f.n. sources subject to positive m.f.n. rates were about 26 per cent (wrought products) and 69 per cent (lead manufactures) and were supplied mainly by the EEC and Japan. A large part of dutiable lead products were imported from Australia which enjoys duty-free access to New Zealand's market under the Australia-New Zealand Closer Economic Relations Agreement. New Zealand's GSP scheme grants tariff preferences to imports of wrought lead products and lead manufactures when imported from developing countries. Canada also benefits from preferential rates on The Forum Islands have duty free and unrestricted access certain items. to New Zealand under the South Pacific Regional Trade and Economic Cooperation Agreement (SPARTECA). In 1983-84, imports of lead products from these sources were practically nil.
- Norway has no lead metal production and all lead ores mined in the country (around 4,000 tons annually) are exported. Norway also sells lead scrap (7,000 tons per year) mainly to its neighbours, Denmark and Sweden. Consequently, all its domestic requirements for lead products are covered In 1984, Norway imported about US\$8.7 million of lead from abroad. products of which lead metal accounted for 78 per cent, wrought lead for 15 per cent and lead oxides for 4 per cent. Most lead imports were supplied by the EEC and Sweden. Table 28 indicates that with the exception of lead foil (CCCN 78.04.1000) and lead nails, rivet (CCCN 78.06.0090), all other lead products enter Norway m.f.n. duty free. Norway accords duty-free treatment on the two above-mentioned items when imported from developing and least-developed countries included in the list of the GSP beneficiaries. Norway also grants duty-free access to imports of these products when imported from other EFTA countries or the In 1984, most of the dutiable products were imported from these EEC. countries.
- 63. Poland is an important European producer of lead. In 1985, its mine production was at 51,000 tons and refined lead production was 87,000 tons. However, with the decreasing metal content of lead ores, the production

THAIR IN 12AD AND 12AD PRODUCTS UNITR DIPPRENT THRITPET ACCUPANCE TO STATES OF PROCESSING THEE 27

(Value in US\$\*000)

COLUCY: YOU ZZAJAD Teer: 1983-1984

										N.						9		-	Och	Other preferential trestment	[a] frest	
	1	Trees symple	1	į			1	Diffe frae				Dutteble		Ī		•			ñ.	(SAKTELA Inc. Paleyele,	To large	<u>-</u>
	OU TIE	100	•	Tariff everage	-	Urboard	-	Board	Option	Rate	9	United	•	ļ,	Pare	Velte	-	- Green	Pere .	Value		1
			_	Heightes Simple		Value	Z Velue	1 9	T	Uniound Bound	Bornel			}				•			,	}
8	8	€	9	(3)	9	(2)	(6) (9)	(3)	(ii)	(12)	(13)	(10)	(13)	(91)	(10)	(18)	(61)	(R)	(21)	(23)	(23)	(56)
Other and concentrates Ash and realthes	er26.01.019 er26.03.000	( <b>98</b> )					=	(667)	JEN, ALS, CHI					<del></del>						-		
	Sub-total	:	100.0					100.0	- q													
Varcoupt Powlers and Elakos	78.01.001	2,942					5;2	2,942	ALS, PEC	5.0		07	법	AL, JE								
	Sub-total	2,991	100.0	0.2	5.0		2,951	51 98.7	~	5.0		ş	1.3									
drought	78,62,001 78,62,009 78,69,000 78,94,001 78,94,001	ឌទនៈ ។					<del></del>	<u>_</u>		6.0	5.0 5.0 5.0 5.0	. E. e. 1.4		322 323 NAC '323	10.0 15.0	9'''	<u></u>		Present Present	Ω¢ <b>8</b> 6.		ALS ALS ALS
	Sub-total	191	0.08	6.9	11.0				_,	5.0 - 25.02	5.02	3	25.5		15.0	01	6.2		Fine	911	£.	
Gentrals	28.27.001 28.27.003 e.27.009 e.28.5.000 e.28.47.000 e.28.42.000	2, 693 (2, 350) (3, 3					26586	6 % (5.0%) (1,5%) (1,5%) (1,5%) (1,5%) (1,5%) (1,5%) (1,5%) (1,5%)	MS, USS, MS MS, USS, USS, MS, USS, USS, MS, USS, USS, MS, USS, USS, MS, USS, USS, MS, USS, USS, MS, USS, USS, MS, USS, USS, MS, USS, USS,													
	Seb-total	114	166.0	0.0	0.0			114 100	100.0													
Malehel sesufacture	78.06.000	ĸ		_							50.03	63	5	JPN, EZE, USA	25.0				Ĕ	ង		F.II.AE
	Seb-total	ĸ	0.00	0.05	0.0%						20.0	63	\$		25.0		$\dashv$		Je.	я	31.0	
•	TODA.	3,337	100.0				3,	3,065 91.8	eo	5.0 - 50.0 <sup>2</sup>	30.0 <sub>2</sub>	81	9.6		25.0	ĕ	0.3		Fre	133	4.0	

Committee transport Committee transport Committee transport Committee transport Committee transport commit

Note: there the last products are not specified separately (indicated by "or") the trade flow figures, shown within brackets, may include imports of products other than those of last, and for the same are not included in the sub-column.

TAFLE 20

TRADE IN LEAD AND LEAD PHODUCES UNDER DIFFERENT TABLET TREATHORT ACCURDING TO STACES OF PROCESSING

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						-					100						20.00	į		i i	Other preferential treatment	lak eream	i
	Tertif No.	Total trade	rade	Ę	•			Duty free					Decisio			-	i	3			(TEC, EFTA, Spein)	Spets) 1	
		Value	•	Tottle average		Unbound	Ē	Round	_	Orteta	בני		Value	,	Ortein	Patre Patre	1014	٥	Octeta &	Eace V	Value	,	Origin
		_		Velighted Stepte		Value.	•	Value	•		Debound Bornel	1		,				_			_		
(3)	(3)	(3)	ઉ	(S)	(9)	(2)	(8)	(6)	(10)	(11)	(13)	(13)	(10)	(33)	(91)	(1)	(01,	(52)	(20) (3	(31)	(23)	(33)	(35)
Ires and contentrates	26.01.6000	. 625						(4,621)	- 43	#14.742,525													
	Sub-cotal	:	100.0					:	100.0	-													
Berought	78.01.1100	3						3		ZC.SE								<u> </u>	<u> </u>	_			
	78.01.2000	36.5						3,	* *	EEC, SWE					-				<del></del>				
Waste and screp Powders and Elekes	78.01.3000	÷ •						<u>*</u> •	٠	221		-											
	Sub total	4,607	100.0			- <b>-</b> -		109.9	139.0										-				
Jeonght.	76.02.0000							59.6		EEC, SWE EEC, SWE	 					,	<del></del>						
	78.05.000	- :						?	<u> </u>	245,333		<u>.                                    </u>	<del></del>	g S		Ē	•			T .	•	<u>~</u>	<b>22</b> C
	Sub-cotel	1,291	100.0	0.0	0.1			1,282	99.3			3.6	6	0.2		Free	•			Free	•	·:	25
Chemicolo	28,27,1000	** *\$E						32, 7		120, 5VE, USA													
	es 28.30.9090 es 28.35.9000	Ċ.			**************************************			3,678		EEC. JFN, USA												<del></del>	
	ez 28.38.9000 ez 28.39.9000	-						(100)		EEC, SAE, USA										<del></del>			
	28.42.8500 en 28.48.0000	(123)						• (£3)		EEC FIR, EEC, SVE													
	Sub-total	386	0.001					ğ	0.001										<del></del>		·····	.—	
Finished manufactures	78.06.0010	· 8						•				3.2	•	nS.A		Pree	<del></del> ;-			ž	8		EEC, AUT, SAR
	Sub-cotal	203	100.0	3.2	1.6			•	·			3:2		<u> </u>		Free				ž	193	\$.5	
	TOTAL	989**	100.0					\$1.4,0	37.6			3.2-3.02	- 3	- ;		Ę.				ž	ĕ	2.	
1													-	1			1					-	

Under the Agreement between the 277A countries and Spain, signed on 26 June 1979, Souln benefitted from 60 per cent reduction on applied m.f.n. rates in 1954.

Tariff range.

Note: Where the lead products are not specified separately (indicated by "est") the trade fl. or Sigures, shown within brackets, say include imports of products other than those of lead, and for the same reason are not included in the sub-total.

costs have increased and presently lead-zinc operations require State subsidies. As production does not meet domestic needs, some lead concentrates, lead metal and lead oxides are imported, mainly from the Federal Rapublic of Germany and the People's Democratic Republic of Korea (refined lead). Table 52 shows the m.f.n. tariff treatment applied to imports of lead.

- Portugal's consumption of refined lead which has been increasing in recent years is only partially covered by domestic secondary production (around 6,000 tons annually). About 80 per cent of domestic requirements of refined lead are imported. As can be seen from Table 29, in 1984 this product represented more than 95 per cent of Portugal's lead imports. Over two-thirds were supplied by Peru, Morocco, Australia and Canada and were subject to an m.f.n. duty of 2 per cent. The other third of metal imports originated in the EEC which together with EFTA countries enjoys duty-free preferential treatment. The EEC countries also supplied lead oxides and other lead chemicals. M.f.n. rates of duty range from free to Zero duty applies to lead cres, lead scrap and some lead chemicals (the m.f.n. rate of duty on lead oxides is 12.2 per cent). m.f.n. tariffs on lead are being adjusted in the process of the harmonization of its tariff with the EEC Common Tariff after Portugai's accession to the European Community.
- South Africa has been the second largest exporter concentrates after Peru since 1980. As it has no primary smelting, all lead concentrates produced by the Black Mountain Mineral Development Co. (Pty) Ltd. are exported. A new open pit zinc lead mine with an annual output of 5,000 tons of lead concentrates by 1987 has been developed by Shell South Africa (Pty) Ltd. Though the secondary lead production has increased in recent years it does not fully cover domestic consumption and some refined lead is imported. In 1984, this item represented almost the total of South Africa's lead imports valued at US\$4.9 million. imported m.f.n. duty free mainly from the EEC. Mexico and Sweden. 30 shows that the m.f.n. treatment on lead products ranges from zero to 20 per cent. M.f.n. duty-free access is granted to most lead products, 10 per cent duty applies to some chemicals and lead bars and 20 per cent to lead containers.
- 66. Spain is the largest European lead mine producer after Yugoslavia. It also has an important primary and secondary metal production. principal lead producer, Sociedad Minera y Metallurgica de Penarroya de Espana, owns mines in Union and a smelter at Santa Lucia. Andalusa de Pintas SA and Exploracion Minera International Espana non-integrated mining and milling companies. A customs smelter owned by Compania La Cruz SA was closed indefinitely in July 1986. The Government of Spain has undertaken administrative decentralization of the mineral industry in order to speed its development. Several explorations and studies have been done on the possibilities of opening new mines by

## TAKE IN LIND AND LEAD PRODUCTS WERR DEPTOMENT TOMORY REMINDED TO SOLUTE OF PROCESSING

Country: FMCCOL NAC: 1986 (trade), 1986 (tariff treatment)

(000'230)

	1	Total			121			1	het Professor	iai Trestment
Product Description	Tariff No.	Imports	Teriff .	mer age		T .	1 ,		1	1
			ikighted Z	Simple Z	Race	Value	Origin <sup>2</sup>	Rate	Value	Origin <sup>2</sup>
Ores and concentrates With and revidues	26.01.500 26.03.300 Sub-total	-		0.5	Proc. 1 3 Frac-1	-			-	团
harought Unalleyed Alioyad	78.01.120 78.01.130 78.01.150 78.01.190				) 2	157 7,246	ON PER, MR, AIS, ON		1,662 1,055 199	) } }DEC
Haste and acrap Powders and flakes	78.01.300 78.04.200 Sub-total	10,341	2	2.7	Free-8	7,404			1 2,937	)
ka <b>n</b> it	78.02.000 78.03.000 28.02.119 78.05.00 Sub-total	53	18	14.2	10 20 3 15 11 10-20 <sup>3</sup>	- 8 - 1 12	USA		1 39 1	) }EEC EEC,EFTA
hericals	28.27.200 28.27.800				} 12.2	•			355 8	) Exc
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	28.42.740 ex 28.48.200 ex 28.48.999 Sub-total	402		4	) ) 12 ) Free-12.2 <sup>3</sup>	(-) (-)		36	) (-) (49) 402	) EEC,EFTA
idsied manifectures	78.06.100 78.06.900 Sub-total	40		23.3	20 20,30 20-30	- - -			40 40	EEC
	TOTAL	10,8%			Pres-30 <sup>3</sup>	7,416			3,420	

The Act of accession to the European Communities (Articles 190 and 197, Section I., Chapter I., Title III, Part Four) provides for progressive introduction of the Communities (Articles 190 and 197, Section I., Chapter I., Title III, Part Four) provides for progressive introduction of the Communities are indicated together with those from the EEC. No information is smalled with respect to the tariff treatment actually applied.

Source: Establistics do Comercio Externo 1984, Instituto Nacional de Estatictica, Lisbon, November 1985
International Customs Journal, 1983-84, Brassels, July 1983
Official Journal of the European Communities, 1/302, Vol. 28, 15 November 1985

 $<sup>^2</sup>$  Origin not available when imports are smaller than USSS,831. For this reason, EFTA origins are not shown separately.

lariff range.

Note: Where the lead products are not specified experitely (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the anh-total.

Exchange rate 1964: Escados 146.39 per USS, DF International Pinancial Statistics, September 1986.

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Indut Buchtin	Tell N.	<u> </u>	Section 1					<b>}</b> _		<del></del>
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hu ad countries th ad rathus	M.M.A- on V.M M-total	2,133			Trees	2,135 (1,207) 2,135	##  E.,##			
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	TIME.	6,833			Prus-20 <sup>3</sup>	6,833				

F. 5.5. value is indicated.

<sup>2</sup> Mi values taciones of a specific rate of \$40 per 1,000 kgs.

beitt mgs.

Note: them the last products are unt specified expensely (indicated by "or") the trade flow figures, show within brackets, my include Superts of products other close of last, and for the same reasons are not included in the sack total.

Bedsupe rate 1961: WAR-6974 per hand, International Francial Statistics, NF, Superdoc 1966.

Source: Studies Tests Statistics, Calender Seer 1984, Commissioner for Continue and Barian of the Republic of Seath Mirica Continue Testiff, Continue and Recine, Department of Pinness, Protocols, 1986

(022,020)

		Total			187			Oc.	her Prefere	cial Transmit
Product Rescription	Tariff No.	Imperts	Sectiff of Metadoxed 2	Simple 2	here <sup>2</sup>	Nine	Origin	Backe Z	Velor	Origin
Ores and concentrates	26.01,50.1				} 0.9	8,977	HM.,CM,CE.,MA,MO,FR		3,442	W.52
lah ani residan	26.01.50.9 26.03.30	•				1:			112	EEC.
	Sab-cotal	12,531	0.9	9.4	free-3.5 <sup>3</sup>	8,977			3,554	
taroute.										
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	78.01.13			i	1 (	l ī	ZAF		! !	1 22.
Alloyed	78.01.15				32.7	-	USA		1,955	) <b>ac</b>
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Visite and accept Powlers and finise	78.01.30 78.04.20			1	),	31	CAM, USA		8	EEC,AGC EEC
LONGER WAY I TOWNS	Sá-total	2,647	2.7	3.1	5.5 2.7-5.5 <sup>3</sup>	62			2,585	
irosit	78.02.00				2.7	-			34,	)
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	78.04.11	1			5.5	23	)USA		12	(Ext
	78.04.19 78.05.00	İ		l	1 (	1	)		1	)
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hadois	26.27.20				) 26(B)		·			
	28.27.80				1 "	4	USA		5	EC.
	ex 26.30.79 28.30.80.9			i	9.5 11.1	(254)	JPM,USA		(2,0(6)	EBC:
	ex 28.30.95				17.3	(32)	ISR,USA,DOR		(130)	BeC
	ex 28.30.98.9				(23.1)24.4(8)	(51)	USA		(30)	200
	e. 25.35.47			İ	}14.8	(2)	USA		(181)	EC,AUT
	es 28.35.59 28.38.71.1				16	(-)	JPI		(19) 53	AUT, EEC
	ex 28.36.90				(19.8)20.8(3)	(78)	USA		(745)	7E
	28.39.10				0.9	(103)	102,00R		(814)	
	28.39.70				16.5	-			2	<b>EC</b>
	28.42.74 es28.48.99				25(8) 13.2,	(6)	USALJEN		25 (552)	EC .
	Sub-total	89	26	16.6	0.9-263	4	- Complete		85	
Pinished sandectures	76.06.10				6.4	-	USA		45	EEC,CRE
	78.06.90				10.7 6.4-10.7 <sup>3</sup>	1	JPK		124	12C
	Sé-total	170	19.7	8.5	6.4-10.7	1			169	
	TOTAL	15,542			irre-26 <sup>3</sup>	9,073			6,509	

The Act of Accounts to the Bengasa Communities (Articles 31 and 37, Section I, Chapter I, Title II, Part How) provides for full introduction of the Common Contant Tariff and chary-free entry for EC originating goods, from 1 January 1993. Imports from PFTA countries are indicated together with those from the PEC. No information is smallable with respect to the tariff treatment actually applied.

Source: Establistica del Comercio Ratarior de Rapano, Nuovo-Dicionheu 1984, Direccira Comeral de Adamso, Madrid Roletia Oficial del Ratalo, Suplamento al. mas. 296, Hadrid, 11 December 1985, 788/49 Oficial Journal of the Recupen Communicies, 1/302, Vol. 28, 15 November 1985

<sup>2</sup> Figures in parenthesis represent explicit rates. These rates have been used for the calculation of the tariff averages. M.f.m. rates take account of the successive reduction treards the alignment with the CCT.

Toriff page.

Here the last projects are not specified especially (indicated by "m") the trade flow figures, shows within brackets, any facinds imports of products other than those of last, and for the same reason are not facilised in the sub-total.

(8) - Bound rates (Schedule MF).

The change rate 196: Posses 160.76 per USS, MF International Piesecial Statistics, September 196.

private companies in recent years. All lead mine output is processed further in the country, and about 30 per cent of lead metal is exported. As Table 31 shows, Spain has to import some lead concentrates as its domestic lead mine production is not sufficient. In 1984, this product represented over 80 per cent of total lead imports. About two-thirds of lead concentrates were imported from m.f.n. sources, namely, Morocco, Canada, South Africa, Honduras and Peru, and were subject to a duty of 0.9 per cent. The remaining one-third was supplied by the EEC and Sweden under the duty-free preferential treatment. These countries also supplied most of lead metal and other lead products. Like Portugal, Spain too harmonizes its tariff schedule in several stages with the EEC Common Tariff, since its accession to the EEC.

- 67. Sweden's fully-integrated Boliden Mineral AB operates eighteen local mines of sulphide ores with total annual ore production of about 16 million tons. The copper and lead concentrates are partly delivered to smelters within the Boliden Group and partly exported (mainly to the EEC). Boliden also owns a secondary smelter with an annual capacity of 25,000 tons. Sweden consumes less than one-half of its refined lead metal output and exports the other half (mainly to the Federal Republic of Germany and Table 32 illustrates Sweden's lead imports which in 1984 the USSR). amounted to US\$16.6 million. It consisted of 38 per cent concentrates, 26 per cent lead metal, 12 per cent lead scrap, 6 per cent wrought lead, 12 per cent lead oxides and 6 per cent lead manufactures. Except for certain lead manufactures (lead containers and other) all lead products are imported m.f.n. duty free. These two items receive the duty-free treatment when imported from develoring and least-developed countries included in the list of GSP beneficiaries or from other members of EFTA and the EEC. As can be seen from Table 30, lead manufactures, as well as most of the m.f.n. duty-free lead products, were imported from the latter countries. Canada and Australia were major suppliers of lead concentrates.
- 68. Switzerland is a net importer of refined lead as its requirements are only partially covered by the domestically-recycled metal. Some old lead scrap which is not locally processed is exported, mainly to the EEC. Switzerland also exports some lead unwrought products. In 1984, lead products imports amounted to US\$6.7 million. Of this amount, refined lead accounted for 62 per cent, wrought lead 18 per cent, lead manufactures 16 per cent and lead oxides and other chemicals were the remaining 4 per cent. Table 33 indicates ad valorem incidence based on 1984 trade figures of specific m.f.n. rates which are applied to all lead products with the exception of lead ores and concentrates. They range from 0.1 per cent to 3 per cent (CCCN 78.05.1000 lead foil). In 1984, imports from m.f.n. sources represented about 15 per cent of total lead imports and consisted mainly of refined lead supplied by Canada. Switzerland grants duty-free access to imports of lead products originating from developing

## THE R LINE AND LIVE PROMICES SHARE REPRESENT SHAFF THROUGH ACCIDENCE TO STAKE OF PRACEING

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	Mi	16,601	100.0					15,656	94.3			2.9-3.8 <sup>3</sup>	217	1.3		Pree	ı	0.0		Free	מו	4.4	

Under the agreement between the ETM countries and Spain, algord on 26 June 1979, Spain benefited from 60 per count reduction on m.f.m. rates in 1994.

<sup>?</sup> Partially house

<sup>3</sup> Tediff rasp

Note: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, any include imports of products other than those of lead, and for the same reason are not included in the sub-total.

## THE IS THE AN THE PICKETS HER REFERRE WATER TRADERS ACCORDED IN SINCE OF PROCESSES.

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res and concentrates À and residues	26,91,4 <b>800</b> ex 26,63,0100	(512)						(512)		MC, NOV, AUT													
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hosicals	28.27,1000 28.27,2000 es 28.30,4000 es 26.30,8630 es 28.35,2000 28.35,5000 29.39,4000 28.42,5000	117 35 (1,060) (590) (628) 1						٠				0.6 0.6 0.1 0.2 0.1 0.2 1.7	(117) (11) (16)		158, POL 158, HOM, POL 158	Free Free Free Free Free Free Free	(124)			Free Free Free Free Free Free Free	117 35 (933) (655) (162) 1		DC DC DC,AT DC,AT DC,AT,SA
:	en 28,48,1000 Sub-total	(21) 240	190.0									0.1 0.1-1.? <sup>3</sup>	(164)			Proc	(1%)			Free Free	(21)	180,8	SC,LIT
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	Sub-total	1,055	100.0									0.1-1.4	1	0.7		free		v.û		free	1,64	99.3	
	TOTAL	6,683	190.0			7						0.1-3.0	1,031	15.4		Free		0.0		Free	5,652	94,6	

<sup>1</sup> Suder the agreement between the EFFA countries and Spain, signed on 26 June 1979, Spain benefited from 66% reduction of applied m.f.m. rates in 1864.

<sup>2</sup> M.S.w. decles indicate ad valorum incidence of specific rates based on 1996 trade figures. Specific rates are indicated in Annex I.

<sup>3</sup> Tariff range

Note: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the sub-total.

countries and least-developed countries under the GSP. In 1984, imports from these countries were nil. In contrast, most lead products are supplied duty free by the EEC or other EFTA countries. In 1984, almost 85 per cent of lead products imports originated in these countries.

The United States lead production has been stagnating since the early 1970s as a result of production cutbacks by most lead producers due to declining domestic consumption. Nevertheless, the United States remains the world's leading producer and consumer of lead. In 1985, the United States produced about 12 per cent of world lead concentrates and over 18 per cent of lead metal and consumed over 1.1 million tons of refined lead which represented about 20 per cent of world consumption. About 90 per cent of domestic lead mine production is located in Missouri. The Buick Mine, the country's largest single producer and the second largest Viburnum Division now owned by Doe Run Company produce more than one half of the country's lead concentrates. The principal United States lead producer has been St. Joe Minerals Corp. and is now Do: Run Company, which in 1986 was the result of a merger of the lead assets of St. Joe Minerals and Homestake Mining Co. In 1987, its mine capacity was estimated to be 58 per cent of the total United States capacity. The Doe Run also owns the country's largest smelter at Herculaneum. Other major smelters and refiners are owned by AMAX-Homestake and ASARCO. In 1985, secondary production was responsible for 55 per cent of total metal production. However, the number of secondary refineries and the production capacity have decreased in recent years partly due to low lead prices but also because of the effect of strict anti- pollution measures, e.g. on scrap collection, and new investment needed for modernization. The United States exports some lead concentrates, mainly to Canada, and refined lead. It also exports wrought lead products and lead pigments, mainly litharge. Taiwan and Brazil are its major markets for lead scrap.

70. The United States is a net importer of several lead products. Table 34 prepared on the basis of concordances established between the Tariff Schedule of the United States Annotated (TSUSA) and the Customs Cooperation Council nomenclature, indicates that in 1984 the United States imported about US\$117 million of lead products, out of this amount unwrought lead accounted for three quarters. It was mainly supplied by Canada and Mexico and to a lesser extent by the EEC. The m.f.n. duty on this product is bound at a ceiling rate of 4 per cent but the m.f.n. The remaining imports consisted of applied rate is lower. concentrates (10.5 per cent of total imports), lead chemicals (8 per cent), lead manufactures (3.3 per cent) and wrought lead products (2.9 per cent). As can be seen from Table 34, most of these products were supplied from m.f.n. sources, principally Canada and the EEC, and were subject to positive m.f.n. rates of duty ranging from 0.1 per cent (lead residues) to 15 per cent (lead sub-oxide), with the majority of rates being between 2 per cent and 4 per cent. M.f.n. specific duties are applied on lead ores MEL N

#### THE IS NO 40 THE PRINTS WIRE REPORT MADE RECORD ACCOUNT TO SHARE OF PRINTED

Charley: DETEN SPORE

<u>Year</u>: 1984

(Nalue in 1885 (1880))

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	644.28	2										2.2	2		CT.								١.
	Sal-total	3,3%	100.0	2.3	3.0						-	1.2 <del>5</del> 6.5	2,379	70.1		Pres	997	29.4		Pres	14	<b>Q.</b> 5	
ملمه الم	419.00 419.02	说		i								3.7 1.9	40 202		200, COM COM , 2007, 1980	Pres.	105 6		版	Free Free	:		
	419.04	1,579										4.8	1,561		EC,ON,JN	Proc	18		1922	Pres			
	436.36 436.42	112			j	1					- 1	1.1 2.5	i12		TA, PLAT	Pres Pres				Free	-		
İ	436.44	97			ı				- 1		- 1	4,9	97		EC,0W,291	Pres	-		1	Pres	-		İ
	473,44 473,46	19										5. <b>8</b> 1.2	19		<b>.</b>	Pres Pres	-			free	-		
	473,48	,			- 1	1	. !	į	-			4.3	,		AT.	ire.				free Free			
	473.50 473.52	4 113		[	- 1	ĺ		١		1		5.8	4			Ite.	-			Tree	-		
	473.54	6,313			- 1				-		- 1	6.0° 2.3,	6,313		162,007,EEC	Pres.				Pres Pres	-		
1	473.56	554				I		ı	ı	[	- 1	2.3 <sub>4</sub>	554		162,520,391	7100	-			Pres	-		
	473.58 473.60	2 373				Ì		1		- 1		15.0 0.5	373		JIM Mac,car	Page Progr				Pres	-		1
	473.62	149						1				10.0	149		<b>3</b> EC	Pres	-			free	-	:	1
	Sé-tatal	7,644	100.0	5.6	4.5						İ	0.5 <sub>3</sub> 15.0 <sup>3</sup>	9,515	<b>98.</b>		Proc	129	1.3		Pres	-	0.0	
Pinided undechare	657.70	20			7		7	1	1			0,6	4	Н	<b>a</b> t	Pres	16		ON, NE, NE				
	631.75	3,790			- }			]	-			3.9	1,922		BC,379,00	free	1,048		044,380,363	Pres	-		
	Så-total	3,610	100.0	3.9	2.2							0.6 <sub>3</sub>	1,926	30.4		Pres	1,984	49.4		Pres	(2,463)	0.0	
			100.0				ᅱ	$\dashv$	-					$\vdash$						┝━┼			

A preferential . "Appete of lead products are day-free when important from Lecture States and the Communication of

Mit detail indicate of valueur incidence of specific rates based on 1996 trade figures. Specific rates on taciff like basis are given in James I.

Theilf range.

Colling binding.

Heries excluded from CEP constraint for 1994 CEP extense.

Here: there the fact predicts are not specified aspectably (initiated by "m") the trule flow figures, down widden brackets, say include departs of predicts other than those of land, and for the one record are not included in the one-total.

and concentrates and lead ash and residues. The United States grants preferential duty-free treatment to imports of lead products when imported from developing countries included in its GSP scheme. The United States feguard mechanism whereby GSP beneficiaries GSP scheme has a built-in may be excluded from GSP treatment on a product-by-product basis. 1984, litharge and red lead imported from Mexico were affected by these provisions. In the same year, imports from GSP sources represented about 11 per cent of total lead imports. However, most of lead ores and concentrates (about 70 per cent of total lead concentrates imports) entered duty free from Peru and Mexico under the GSP. About 17 per cent of lead concentrates originating in Honduras were also imported duty free. This country benefits duty-free access granted by the United States to all lead products imports from the countries in the Caribbean under the Caribbean Basin Economic Recovery Act (CBERA).

## (ii) Developing countries

71. The following sub-section gives a brief description of production. consumption and trade of lead in some developing countries. Tables 35 to 51 provide detailed information on imports of lead and lead products on tariff line basis divided according to stages of processing for the following developing countries: Argentina, Brazil, Colombia, Hong Kong, Indonesia, Israel, the Republic of Korea, Malaysia, Mexico, India. Morocco, Philippines, Peru, the Singapore, Thailand, Turkey Yugoslavia. Trade figures are based on the most recent statistics. Imports under CCCN ex 26.03 and lead chemicals under ex tariff lines are not included in total lead trade. Tables indicate the m.f.n. tariff treatment applied in 1986 and where available, preferential treatment granted to other countries or regional groupings together with the value of preferential imports. Tariff averages, both simple and weighted, are given for lead products at each stage of processing. addition to the individual country Tables which link tariff treatment to trade flows, Table 52 indicates m.f.n. tariff treatment applied to lead and lead products by the following developing countries: Chile, Egypt, Ghana, Jamaica, Nigeria, Pakistan, Romania, Tunisia, Uruguay and Zaire. Trade statistics based on the tariff line level for these countries are not available.

### Individual developing-country profiles

72. The Minera Aquilar, Argentina's only lead-zinc mine situated in the province of Jujuy, produces on average around 30,000 tons of lead in concentrates annually. The concentrates are normally processed into refined lead by the National Lead Company in Chaco. For the last four years a part of the concentrates output has been exported. Argentina also has some secondary lead production (17,000 tons in 1985). Under the "Mining Expansion Plan", Argentina's Government has undertaken feasibility

# THADE IN LEAD AND LEAD PRODUCTS UNDER DIFFERENT TARIFF TREATMENT ACCORDING TO STAGES OF REOCESSING

Country: ARGENTINA

Year: 1982 (crade), 1986 (tariff treatment)

/::c610001

						am		Other Pro	eferentia	l Treatment
Product Description	Teriff No.	Total Imports	Tariff Av Neighted Z	erage Simple 2	Rete i	Value	Origin	Rate Z	Value	Origin
Dres and concentrates Ash and residues	26.01.07.00 ex26.03.00.00				26 30	- (127)	USA.		(30)	URY
	Sub-total	,.,		28	26-30 <sup>2</sup>					
invrought	20.01.00.00					44	EEC		_	] } {
Unalloyed	78.01.02.00				(	-	EEL		849	MEX, PER
Alloyed	78.01.03.00 78.01.04.00				37	2	EEC		-	,
Waste and scrap	/8.01.01.00				) }				-	
Powders and flakes	ex78.04.00.00				38	-	EEC,USA		-	BRA
	Sub-total	895	37	37.2	37-38 <sup>2</sup>	46			849	
izought	78.02.00.00				)	22	JPN,EEC		-	
•	78.03.00.00				)	-		ļ	-	l
	ex78.04.00.00				) 38	•	EEC,USA		-	BRA
	78.05.00.01				)	•		İ	-	<b> </b>
	78.05.00.99				)	3	USA		3	BRA
	Sub-total	28	38	38	38	25			3	
Chemicals	28.27.00.01				)	2	USA		16	MEX
	28.27.00.02	İ			)	•			39	1
	28.27.00.99	i			) 35	2	USA	İ	-	
	ex28.30.00.01.99	]	1		)	(145)	EEC,USA,CHE	1	-	1
	ex28.30.00.02.99		1		)	(6)	USA, EEC	1	-	
	ex28.30.00.03.99	İ	i		<sup>}</sup> 10	-	ĺ			
	ex28.30.00.04.99		İ		) 25	16563	PRO TICA ATTR CCK		(10)	BRA
	ex28.35.00.99				25 35	(574) (297)	FEC,USA,AUT,CSK AUT,EEC,USA,JPN,CHE		(21)	BRA, PER
	ex28.38.02.01.99 ex28.39.00.01.99				25	(2)1)	Wither town the core		(21)	300,15A
				i	10	35	USA,ZAF	l	5	MEZ
	28.39.00.02.10 28.42.02.14				35	-	EEC	1		
	ex28.48.00.02.99				10	(8)	USA, EEC, CHE		-	
	Sub-total	95	12.6	25.8	10-352	39			60	
linished manufactures	78.06.00.00.01 78.06.00.00.99				) 38 )	19	USA, EEC, JPM, CHE		-	BRA
	Sub-total	19	38	38	38	19			-	
<del></del>	TOTAL	1,041			i0-38 <sup>2</sup>	129			912	

Imports from ALADI countries; no information is available in relation to the nature or extent of preference applied. The weighted tariff averages are calculated excluding this trade.

Note: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.

Tariff range.

Source: - Comercio Exterior 1982, Tomo III, Instituto Nacional de Estadistica y Censos.
- International Customs Journal, 1985-86, Brussels 1986.

studies for possible exploitation of its metallic reserves. It also encourages the domestic and foreign investment in the development of its metal sector. Most of Argentina's imports of lead are in the form of unwrought unalloyed lead. As Table 35 indicates, this product represented almost 90 per cent of Argentina's imports in 1982. It was supplied mainly by Mexico and Peru under the ALADI preferential regional agreement. M.f.n. rates of duty applied to lead and lead products range from 10 per cent to 38 per cent; 37 per cent and 38 per cent being applied to unwrought and wrought lead and lead finished manufactures.

- Brazilian primary and secondary lead industry at present fully satisfies domestic refined lead requirements. After several years of depressed demand, Brazilian consumption of refined lead recovered and in 1985 it was almost 83,000 tons. Since Brazilian lead mine production is not sufficient, part of local demand of lead concentrates, is imported. mainly from Ireland and Peru. However, it is expected that the import requirements of the primary industry will decrease in the near future upon the opening of a new zinc/lead mine Morro Agudo in Minas Gerais with an annual capacity of 12,500 tons in 1987. Brazil also imports lead scrap for its secondary smelting. Its principal suppliers of this item are the United States and the EEC. As can be seen from Table 36, both lead concentrates and lead scrap enter m.f.n. duty-free and in 1983, they represented more than one-half of total lead imports valued at US\$5 Other major lead imports are lead manufactures (CCCN 78.06.09) which in the same year accounted for about 30 per cent of total lead imports and were shipped by Japan, the EEC, the United States and Switzerland. The remaining lead imports are composed of refined lead and lead oxides supplied by Mexico and Peru under ALADi preferential agreements. With the exception of lead ash and residues and lead scrap, Brazilian m.f.n. tariff treatment on lead products is positive ranging from 20 per cent to 70 per cent. M.f.n. tariff rates increase with the higher degree of processing.
- 74. Chile has a small mine production of lead but no smelting or refining capacity. Lead and lead products for its domestic consumption, which is very low, are imported. As trade figures on its imports are not available, Table 52 only gives Chile's tariff treatment applied to imported lead products.
- 75. Colombia's small production of lead ores and concentrates is principally exported. Its secondary lead output is estimated at about 3,000 tons annually. Consequently, most of its requirements of lead products are covered by imports. Table 37 indicates that in 1983, Colombia's lead imports valued at about US\$2 million were made up mainly of unwrought lead and lead oxides and lead sulphates. About 50 per cent of them came from m.i.n. sources under the m.f.n. rates of duty of 13 per cent (unwrought lead) and 26 per cent (chemical compounds). The other half was supplied by Peru and Mexico under the ALADI preferential agreements.

## TRACE IN LEAD AND LEAD PRODUCTS UNDER DEFFERENT TARTFF TREATMENT ACCOUNDING TO STAGES OF PROCESSING

Country: MAZIL Tear: 1983 (trade), 1986 (tariff treatment)

(0001220)

		1	1			HEN		Other Pr	eferent i	i Treatment
Product Description	Tariff No.	Total	Toriff A	FO 7 AP-0						
		Imports	Weighted	'aple	Rate Z	Value	Origin	Rate Z	Value	Origin
Ores and concentrates Ash and residues	26.01.06.99 ex26.03.01.00				20 <sup>2</sup> Free	848 (1,083)	EEC,USA USA		747	PER
	Sub-total	i,595			free	848			747	
Unwrought Unwiloyed Alloyed	78.01.01.01 78.01.01.99 78.01.02.01 78.01.02.01 78.01.02.99 78.01.03.00				30	-	CHE		- - 60 299	HEX HEX
Waste and scrap Powders and flakes	78.01.04.00 78.04.01.00				Free 45	978	USA, EEC EEC		•	
	Sub-total	1,337		27.9	Free-45	978			359	
Vrought	78.02.01.00 78.02.02.01 78.02.02.99 78.03.00.00 78.04.99.00 78.05.01.00 78.05.02.00 78.05.03.00 78.05.04.00				37 55	1 - 1	CHE JPM,PTW JPM,USA EEC,JPM USA		-	
	Sub-total	2	55	53	37-55 <sup>3</sup>	2			-	
Chemicals	28.27.01.00 28.27.02.00 28.27.03.00 28.30.09.00 28.30.35.00 28.30.5.00 28.30.5.00 ex28.30.67.00 28.35.06.00 ex28.35.22.00 28.38.06.01 28.38.06.02 ex28.39.06.30 28.39.06.30 28.42.05.01 28.42.05.02 ex28.42.21.00 28.48.01.03 28.48.02.03				) 45 ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	9	USA, EEC EEC USA, EEC EEC USA EEC USA EEC USA, EEC EEC, CRE		185 7 1119	MEX PEX
nished manufactures	78.06.01.00 78.06.02.00	517	30.7	31.5	30-45 <sup>3</sup>		US <b>A</b>		311	
	78.06.99.00				)		JPW, EEC, USA, CRE	11	•	
	Seb-totel	1,450	70	70	70	1,450			-	
	TOTAL	4,901	- 1	l	fean-70 <sup>.3</sup>	3,484			1,417	

laports from ALADI countries; no information is available in relation to the nature or extent of preference applied. The weighted tariff are, gen are calculated excluding this trade.

<sup>&</sup>lt;sup>2</sup>Applied rate free

<sup>&</sup>lt;sup>3</sup>Tariff range

Note: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.

Source: - Comercio Exterior do Brasil, Importação 1983, Tomo I and II, Ministerio da Fazenda, Brasilia. - Tarifa Adusmeira do Brasil, 1985.

### TRANK IN LEAD AND LEAD PRODUCTS GIVER DEFFERENT TRALEFF TREATMENT ACCORDING TO STACES OF PROCESSING

Country: COLONGIA Yes: 1983 (trade), 1986 (tariff treetment)

	<del></del>	T	T			197	···	A-1		(BS\$'000)
Broduct Beaudates	Tariff No.	Total	tariff hv			<del></del>	<del>, </del>	Wild: I	-	MAN STANCTORS
Product Procription	Tariti me.	Imports	Heighted	Simple	inte I	Value	Origin <sup>2</sup>	Rate	Value	Origin
Ores and concentrates Asi, and residues	26.01.05.00 ex26.03.00.00				7	:			•	
	Sub-total	-		10	7-13 <sup>3</sup>	-			•	
Universit Unailoyed	78.01.01.01 78.01.01.02				)	57 300	·			
Alloyed	78.01.02.01 78.01.02.99 78.01.03.00				) 13	120	EEC, JPH		512	PER,CEL
Powders and flakes	78.04.02.00				26					
	Sub-total	909	13	15.2	13-263	477		ļ	512	
Vrought	78.02.01.00 78.02.02.00 78.03.00.00 78.04.01.00 78.05.01.00 78.05.02.01 78.05.02.99				26 26	10 31 24 30 -			•	
	Sub-total	101	26.8	32	26-403	101			-	
Chemicals	28.27.00.01 28.27.00.02 28.27.00.03 ex28.30.01.99 28.30.02.03 ex28.30.04.99 ex28.30.04.99 ex28.35.01.99				26	- 96 - (92) - (59) (2) (33)			479	Ma, Per
	ex28.35.02.99 28.38.01.12 ex28.38.03.99 ex28.39.01.99 ex28.39.02.99 28.42.02.51					(1) (86)			-	
	ex28.48.01.99 28.48.05.01 ex28.48.89.00				33 20 33	(8) - (25)			-	
	Seb-total	906	26	26.5	20-332	427			479	
Finished menufactures	78.06.01.00 78.06.00.99				46	3			•	
	Seb-total	3	46	46	46	3			•	<del></del>
	TOTAL	1,999		1	7-463	1,008	†		991	

Imports from ALADI countries; so information is available in relation to the nature or extent of preference applied. The weighted tariff averages are calculated excluding this trade.

Origin not available for imports below US\$400,000

Teriff reage.

Note: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than three of lead, and for the same reason are not included in the such total.

Source: - Assario de Comercio Exterior 1983, Departmenente Administrativo Macional de Estadistica.

<sup>-</sup> Zell-und-Handels Information, January 1984.

- 76. In the last five years, consumption of refined lead in Egypt has doubled reaching 30,000 tons in 1985. All requirements for lead are satisfied from external sources. As detailed figures on Egypt's lead trade are not available, Table 52 gives only the tariff treatment applied to lead imports.
- 77. Refined lead consumption of both Ghana and Jamaica is insignificant. The m.f.n. tariff treatment on lead is also indicated in Table 52.
- 78. In 1985 Hong Kong imported about US\$1.4 million of lead products (see Table 38). About two-thirds of these imports were unwrought lead shipped mainly from countries in the same geographic region. The other third was shared among wrought lead, lead oxides and lead manufactures. Imports of lead and lead products to Hong Kong are m.f.n. duty free.
- 79. The consumption of refined lead in India, which has been rising 5.5 per cent per year, by far exceeds domestic production. In the fiscal year 1985-1986, Indian lead metal consumption has been estimated at around 75,000 tons against 17,200 tons of primary lead and 9,200 tons of secondary lead production. Hindustan Zinc Ltd. (HZL), a State company, is the only primary producer. Seconda lead is produced from indigenous or imported scrap by a private company Indian Lead Pvt. In its long-term plan to increase domestic production, the Indian Government has decided to develop a lead-zinc mine and smelter complex based on the Rampura-Agucha deposits in Rajasthan. The new project, with a refined lead capacity of 35,000 tons per year, is expected to be completed by the early 1990s. With the commissioning of the new smelter, India will satisfy 65 per cent of domestic lead consumption from its sources since the mid 1990s. present, about two-thirds of Indian lead metal consumption is imported. As Table 39 indicates, in the fiscal year 1981-1982, this item represented 87 per cent of total imports of lead valued at US\$25 million. Lead metal is principally purchased in Australia and the EEC (mainly the Federal Republic of Germany). Australia, together with the United States and United Arab Emirates, was the major supplier of lead scrap which in the same year accounted for over 10 per cent of total lead imports. exception of lead ashes and residues and unalloyed lead metal which are subject to the m.f.n. duty of 40 per cent, m.f.n. duties on all other lead products are 60 per cent.
- 80. <u>Indonesia</u> has a small secondary production of lead (about 6,000 tons per year) and meets most of its requirements of lead from foreign sources. In 1934 lead metal accounted for 90 per cent of total lead imports of US\$10.4 million and originated mainly from Australia. Australia and Mexico supplied most of lead oxides. Table 40 shows the m.f.n. tariff treatment on lead and lead products as well as m.f.n. applied rates (in parenthesis). The majority of lead imports enter under the m.f.n. rate of duty of 5 per cent.

### THANK IN LEAD AND LEAD PRODUCTS WHERE REFFRANCE THALLY THANKSHIP ACCORDING TO STACES OF PROCESSING

Country: Mac Mac

Test: 1905 (trade), 1906 (teriff treatment)

(TEST SAME)

			1				Other P	referenti	al Treetme
Product Description	Tariff No.	Total imports	Tariff An Heighted 1	late 1	Value	Origin	Rate I	Value	Origia
Pres and concentrates lab and residues	26.01 ex?6.03			Free	(196)	CRM, NAC, SCP			
	Sub-total			Free	•••				
Courought Unelloyed Alloyed Waste and scrap Powders and flakes	78.01 78.01 78.01 ex78.04			Free	583 341 65 (2)	PTV, CEN, JPW, AUS, CAN, KON CHN, EEC, AUS PTW, CEN, USA, SGP, MAC EEC			·
	Sub-total	989		Free	989			<u> </u>	
iirought	78.02 78.02 78.03 ex78.04 78.05			Free	58 29 75 2 93	SCP, AUS, PTV, CHM, JPM PTV, SCP, JPM EEC, ZAF, USA, AUS EEC JPM, EEC, ZAF			
	Sub-total	257		Free	257				
Chemicals	28.27 26.27 en28.30 ex28.30 ex20.35 ex28.38 ex28.39 ex28.41 ex28.42			Free	93 7 (698) (28) (3,028) (3,947) (209) (26) (1,044) (25)	CHM, EEC, USA, AUS EEC, AUS, JPM CHM, PTW, SCP, EEC, JPM, SM EEC, USA CHM, EEC, PTW CHM, EEC, JPM, PTW, USA, SGI CHM, JPM, EEC EEC, USA, JPM, SCP CHM, JPM, SUM, USA, EEC EEC, USA, JPM, SCP			
	Sub-total	100		Free	100				
Finished manufactures	78,06			Free	70	EEC,CHI,SCP,JPN			
	Sub-total	70		Tree	70				
	TOTAL	1,416		Free	1,416				

Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.
Exchange rate 1985: 7.791 Hong Kong dollars per US\$, Hong Kong monthly digest of statistics, March 1986.

Source: - Hong Kong Trade Statistics, December 1965, Census and Statistics Department, Hong Kong

- Zoll-und-Handels Information, January 1965.

## THERE IN LESS AND LESS PRODUCTS WHERE DIFFESHER THEORY TREATMENT ACCOMMING TO STACES OF PROCESSING

Country: Nº4A Tent: 1981-62 (trade), 1986 (tariff treatment)

(BS\$ '580)

						161		Other P	referenti	al Treatmen
reduct Description	Tariff No.	Total	tariff ha	-		,	<del></del>		т	T
react seathful	iettii mo.	Imports	Heightod	Simple	late I	Value	Origia	<b>L</b> ate	Value	Origin
res and concentrates	26.01				60	48	MAR, EEC			
ish and residues	26.03		1			13	KDI			
	26.03				40	708	AUS, EEC, USA, CYP, KEN			
	Sub-total	769	41.2	46.7	40-601	?69				
Jawrought										
Unalloyed	78.01	1		1	Ь	13,270	AUS, EEC, AUT, USA, SCP		l	1
	78.01	1		1	<b>K</b>	2,626	AUS		1	
	78.01		i	i	40	3,014	AUS, AUT, SGP		1	
	78.01			1	<b>K</b>	150	EEC, ARE, MYS, HKG, SCP		1	
Alloyed	78.01		i	1	5	2,013	AUS, SUN, EEC, USA			1
•	78.01	1	1	i	60	2,578	AUS, USA, ARE, EEC, SGP			
Naste and scrap	1		1		K	-1,710	aus justinatijitu juli		1	1
Powders and flakes	78.04	<u> </u>	ļ	ļ	<u> </u>	<u> </u>	<b></b>		ļ. <u>.</u>	<del> </del>
	Sub-total	23,651	43.9	48.6	40-60	23,651			<u></u>	
Wrought	78.02				)	61	AUS, JPN, EEC, USA			
•,•••	78.03		1	ļ	b	2	USA, EEC	i		]
	78.04				5 60	9	EEC			
	78.05				Ď	10	SWE, JPN, EKG			
	Sub-total	82	60	60	60	82				<del> </del>
Chemicals	28.27				)	-	U*A			
· · · · · · · · · · · · · · · · · · ·	28.27	1			5	191	EEC,USA	1	-	
	ex28.30	1			5	(581)	EEC, JPN, USA			
	ex28.35	1	1		5	(71)	EEC, AUT, USA, JPN	1	1	
	ex28.38	1	•		0 60	(278)	EEC.USA.JPN		1	
	ex28.38		1		γ ου λ	(18)	JPN.EEC		1	
					ζ	1	1 -	1		
	ex28.39			1	<i>y</i>	(160)	USA, CAN, EEC, JPN, NOR			
	ex28.42	1			y k	(26)	EEC,USA,JPN		Ì	
	ex28.48				)	(14)	EEC, JPN			
	Sub-total	191	60	60	60	191				
Finished manufactures	78.06				60	4	HKG			
	78.06		Ĺ		) 60	22	USA, JPN, HKG, EEC, SUN			
	Sub-total	26	60	60	60	26	t			
	TOTAL	24,719	I		40-601	24,719				:

lariff range.

Note: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.

Exchange rate April 1981/March 1982: Rupees 8.92925 per USS, IMF International Financial Statistics, April 1985.

Source: - Monthly Statistics of the Foreign Trade of India, Volume II - Imports, March 1982, Directorate General of Commercial Intelligence and Statistics, Calcutta.

<sup>-</sup> International Customs Journal, 1983-84, Brussels 1983.

#### THESE IN LEAS AND LEAS PRODUCTS WHERE REPRESENT THEORY THEADSHIP ACCOUNTS TO STACES OF PROCESSING

Country: INDUNESIA Voge: 1984 (trade), 1986 ,tariff treatment)

(B\$1000)

	7	<del></del>	T			METO I		<u> </u>		(65)'01
	1	Total	- 44				· · · · · · · · · · · · · · · · · · ·	ACDES 1	eterest	iel Trestmei
Product Description	Tariff No.	Isgurta	Tariff in Heighted I	Simple Simple	Rate I	Value	Origin	Rete	Volue	Origin
res and concentrates th and residues	26.01.400 ex26.03.900				5	•	USA		٠	
	Sub-total	-	5	5	5	-				
mrought										
Unailoyed	78.01.200	ĺ				5,296	AUS, JPW, PTW, USA, CHM	4.53	14	MYS. SCP
	78.01.300		1			587	AUS, JPM, PTV			
Alloyed	78.01.400		İ	1	52	3,370	AUS, MYS, PTV, BUR, CAN			
Weste and scrap	78.01.100	1	1			35	PRK			
Powders and flakes	78.04.200					-	MYS			
	Sub-total	9,302	5	5	5	9,288			14	HTS,SCP
frought	78.02,100					96	EEC, JPH, PTV, CAN			<del>}</del>
	78.02,910	ł	1		20(10)	-				
	78.02.920	1	j	1 1		1	USA,SGP	!		
	78.02.990	1	1		30(10)	1	į USA	İ		
	78.03.110	ı	l	1 1	)	3	sæ	1 1		
	78.03.190	- }			)	22	PTW, JPW, USA			
	7b.03.210	1	1		20(10)	-	]	1		
	78.03.290	- 1	1		)	•	SG2	]		
	78.C4.110			1 1	)	Ź	CHIN			
	78.04.120		1		30(20)	-	EEC,SGP			
	78.05.000		<u>.</u> .		20(10)	7	PTW,SGP,USA			
	Sub-total	132	10	10.9	20-30 <sup>4</sup> (10-20)	132				
henicals	28.27,100	<del></del>	<del>                                     </del>			359	USA, MEX, AUS, EEC, JPN			
100000000	28.27.200		1			370	AUS, EEC, CHM, JPM			
	ex28.30.900	1	1			(2,341)	JPN, PTW, EEC, CHM, USA			
	ex28.35,190	1				(221)	CHN, EEC, HKG, PTW, USA	1 1		
	ex28.35.200	i	1			(22)	KOR			
	ex28.38.990				15(5)	(370)	PTW, EEC, JPW, USA, CEM, KO	1		
	ex28.39.190	1			.5(5)	(209)	JPN, EEC, USA, NOR, POL, SGI		1	
	ex28.39.290		1	1		(2,614)	JPM, PHL, CHM, AUS, KOR, USA			
	28.42.220	1	1	•		3	EEC			
	ex28.48.000					(568)	EEC, JPH, USA, SCP, MTS			
	Sub-total	732	5	5	15(5)	732				
inished manufactures	78.06.100	1			***	-				
	78.06.200		'		20(10)	-	USA	<u> </u>		
	78.06.300				10(5)	203	CEN, PTV, SVE, USA, EEC		- 1	
	78.06.400		l i	1	30(20)	-		1		
	78.06.900				50(40)	38	JPW,SGP,USA,EEC,CAN			
	Sub-total	241	16.3	15	10-50	241				
	TOTAL	10,407			5-50 <sup>4</sup> (5-40)	10,393			14	

Ifigures in perenthesis indicate applied rates. These rates have been used for the calculation of tariff averages.

Bota: Where the last products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.

<sup>&</sup>lt;sup>2</sup>Rate bound (Schodule XXI) at 30 per cent.

<sup>&</sup>lt;sup>3</sup>Preferential rate applied to imports of unrefixed lead (CCCM 78.01.200) from ASEAN countries.

Tariff range.

Source: - Indonesia Foreign Trade Statistics, Imports 1984, Vol. I, Central Bureau of Statistics, Jakarta. - Zoll-und-Handels Information, August 1985.

- 81. Israel has no domestic lead production and imports all lead metal. In 1983, Israel's imports of unalloyed lead valued at US\$1.1 million and were supplied by the EEC and the United States (see Table 41). Israel imports some wrought lead products and lead oxides. The m.f.n. treatment of Israel applied to lead ranges from zero duty to 10 per cent. Israel grants preferential treatment to the EEC on most m.f.n. positive rates of duty. M.f.n. dutiable imports enter duty free when supplied by the United States under the Agreement of a Free Trade Area.
- 82. The Republic of Korea has small lead mine production and thus a large part of lead concentrates for its custom smelter and refiner "Korea Mining and Smelting Co." is imported. A new 35,000 ton refinery was opened in 1986. However, its lead metal production is insufficient to cover domestic consumption which has been substantially increasing in recent years. In 1985, about 72 per cent of Korea's total lead imports or two-thirds of is consumption was unwrought lead, which entered under the m.f.n. rate of duty of 20 per cent. The principal suppliers of this product were Peru, Australia, Japan and the People's Republic of China. In the same year, imports of lead concentrates and lead scrap accounted for about 13 per cent each. The m.f.n. applied rate of duty on lead concentrates was reduced from 5 per cent to 1 per cent while the m.f.n. rate on scrap is at 10 per cent (see Table 42). Korea also imports wrought lead products (4 per cent of total lead imports in 1984).
- 83. Malaysia has a secondary production of about 12,000 tons. All lead imports requirements for domestic consumption enter m.f.n. duty free. Table 43 gives the composition of Malaysia's imports in 1984. In that year, lead metal accounted for 58 per cent of total imports valued at almost US\$13 million. It was supplied mainly by Australia and Burma. Lead bars and other wrought lead products representing 32 per cent of total imports originated principally from Singapore, Japan and Australia. Japan and the EEC were the major suppliers of lead manufactures and lead oxides which accounted for 8 per cent and 2 per cent of total imports, respectively.
- 84. Mexico is, with Peru, the largest lead mine and lead metal producer among developing countries. As lead and zinc are often found together with silver in complex ores, generally, their output reflects changes in silver output. Following the increase in silver production in the last three years, mine production of lead rose to over 200,000 tons in 1985, the highest level since 1974. Lead concentrates supplied by 130 concentration plants throughout Mexico are processed by Penoles and MEDIMSA at their metallurgical plants. Mexico also produces some refined lead from secondary materials. Mexico's consumption of refined lead has increased in recent years and in 1985 it accounted for about 50 per cent of its total refined output. The other half of lead metal is exported mainly to the EEC (Italy) and Japan. Since Mexico is self-sufficient in

#### TRACE IN LEAD AND LEAD PRODUCTS STORE DIFFERENT TRAILEY TREATMENT ACCORDING TO STAGES OF PROCESSING

Country: ISBAEL

Test: 1963 (trade), 1966 (teriff trestaunt)

(MES'000)

	<del></del>		<del></del>							(88),000
								Other Pro	eforestie	l Treatment
Product Description	Tariff No.	Total Imports	Cariff An	Simple 1	Rate 1	Value	Origin <sup>2</sup>	Rate I	Valor	Origin
Ores and concentrates ish and residues	ex26,01.9900 ex26,03				Free	(664)	ZAF, EBC, AUS			
	Sub-total				Free					
Onwrought Unalloyed Alloyed Waste and scrap Powders and flakes	78,01,1091 78,01,1099 78,01,1010 78,01,2000 78,04				8 Frae 8	1;118	ZEC,USA	4.9	44	
	Sub-total	1,1232		3.2	Free-8	1,118			•	
Vrought	78,02,1600 78,02,9900 78,03,0000 78,04 78,05,0000				8 ) ) Free )	- 22 62 41	EEC n.a. u.a.			
	Sub-total	1732		3.6	Free-103	125				
Chemicals	28.27.0000 ex28.30.9900 ex28.35.9900 ex28.35.9900 ex28.35.9900 ex28.39.0000 ex28.42.9900 ex28.48.0000				) ) ) Free )	99 (594) (47) (1,683) (649) (341) (148)	n.a. EEC,USA n.a. EEC,SWE,AUT,USA,ROM EEC,AUT EEC			
	Sub-total	99			Free	99				
Pinished menufactures	78.06.1000 78.06.3000 78.06.9920 78.06.9930 78.06.9990				2 10 8 Free 10	•		1 7.9 4.9		
	Sub-total	-		6	Free-10	-		1-7.9	•	
	TOTAL	1,3862			Free-10	1,342		1-7.9	•	

Preferential treatment granted to the EEC countries on most m.f.m positive rates of duty. On the basis of the Agreement of a Free Trade Area between the government of the United States and the government of Israel which entered into force on 19 August 1985, trade between these countries are subject to no duties (L/5862).

Mote: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.

Source: - Foreign Trade Statistics 1963 Vol.XV, Central Bureau of Statistics.

- International Customs Journal, 1982-83, Brussels 1982.

Imports below US\$50,000 are not indicated at a tariff line basic awi their origin and tariff treatment are not specified. Their values included in sub-totals and total imports are as follows: Unwrought (ex78.01): US\$5,000; Wrought (ex78.02): US\$8,000; other items under chapter 78: US\$31,000; total: US\$44,000.

Teriff range.

2: MATEL, MEP. OF 1985 (Erodo), 1986 (tartiff triudmant)

										()
						1814		Other	Profese	tiel Treetmen
Product Beautiption	Tariff No.	Total Imports	teriff in Height of	Simple 2	Rate	Talus	Origin	Rete I	Value	Origin
Ores and concentrates Ask and residues	26.01.07.05 es26.03.02.99				5(1 <sup>1</sup> ) 20	3,045 (110)	JPM,CAN JPM			
	Sub-total	3,845	1	10.5	5(1)-20 <sup>2</sup>	3,845				
University of Dualloyed Alloyed  Nate and ecrap Powders and flakes	78.01.02.00 78.01.03.00 78.01.04.01 78.01.04.02 78.01.04.99 78.01.01.00 ex78.04.02.00				) ) ) 20 ) ) 10 20	12 16,260 92 2,891 1,117 3,684 4	USA, JPM PER, AUS, JPM, NEX, NAM, CIM NEG, USA, JPM, NTS CIM, USA, AUS CIM, USA, AUS AUS, USA, ARE, JPM, SAM, KNT EEC, JPM			
	Sub-total	24,060	18.5	18.6	10-202	24,060				
<b>Vrought</b>	78.02.01.00 78.02.02.00 78.03.00.00 78.04.01.00 78.05.01.00 78.05.02.00				) ) ) ) ) ) 25	356 618 16 135	MEG.JPH,SGP,USA,EEC JPH,USA USA,JPH JPH,USA			
	Sub-total	1,125	20	22.5	20-252	1,125				
Chemicals	28.27.01.00 28.27.02.00 28.27.03.00 ex28.30.01.99 ex28.30.02.00 ex28.30.03.00 ex28.30.05.00 ex28.30.05.00 ex28.35.02.00 ex28.35.02.00 ex28.35.02.99 ex28.38.04.99 ex28.38.04.99 ex28.39.01.99 ex28.39.01.99 ex28.39.01.99 ex28.39.02.99 ex28.38.04.99 ex28.39.02.99 ex28.39.02.99 ex28.39.02.99 ex28.42.02.00 ex28.48.13.00 ex28.48.13.00				20	33 8 - (802) (333) - (275) - (1,856) (313) (17) (333) (1,816) -	JPN EEC, USA JPN, EEC, USA JPN, EEC, USA JPN, EEC JPN, EEC JPN JPN, EEC, USA, AUS JPN, EEC, USA USA, JPN JPN, USA, EEC, CRE EEC, JPN, USA			
	Sub-total	41	20	20	20	41				
Finished namefactures	78.06.01.00 78.06.02.00 78.06.03.00				25	29 366 195	USA, JPM, CHM, EEC CHM, SGP, JPM JPM, EEC, USA, CAM			
	Sub-total	590	25	25	25	590				
	TOTAL	29,661		i	5(1)-25 <sup>2</sup>	29,661				

ipplied rate. This rate was used for the calculation of the tariff average.

Hote: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the seen reason are not included in the such total.

Source: - Statistical Tearbook of Foreign Trade, 12/1985, Office of Customs Administration. - Tariff Schedules of Korea 1984, Customs Bureau, Ministry of Finance.

<sup>&</sup>lt;sup>2</sup>Tariff range.

#### THERE 43

## THANK OF LAND . ON LAND PRODUCTS WHERE REFFERENT TAKETY THEATHERY ACCORDING TO STACES OF PROCESSING

Country: MALATSIA

Year: 1904 (trade), 1906 (teriff treatment)

(MES 400)

		Total				1971		Pref	Oti erest1	her al Treatmen
Product Description	Tariff No.	Imports	Tariff In Heighted I	Simple	Rate I	Value	Origin	Rate I	Value	Origin
Ores and concentrates	26.01.210				)	1	AUS, JPM, USA			
Ach and residues	ex26.03.900				free	(209)	JPW,SGP,FIW,EZC,AUS		:	
	Sub-tota?	1			Free	1				
Unerought Unelloyed Alloyed Waste and scrap Powders and flakes	78.01.200 78.01.300 78.01.400 78.01.100 78.04.000				) ) } Free )	374 3,953 2,725 235 (30)	AUS, BUR, PTW, SGP, JPM, EEC BUR, AUS, JPM, PTW, SGP, PTW AUJ, EEC, USA, PTW, SGP, JPM SGP, AUS, MTS, EEC JPM, P1W, EEC, SGP, CHE			
	Sub-total	7,287			Free	7,287				
ifrought	78.02.000 78.03.000 78.04.000 78.05.000				) ) Free )	3,610 278 30 197	SGP, JPN, AUS, PTW, EEC, USA AUS, EEC, USA, JPN, USA, SGP JPN, PTW, EEC, SGP, CHE JPN, AUS, EEC, SGP, KOR, USA			
	Sub-total	4,115			Free	4,115				
Chemicals	28.27.000 ex28.30.900 ex28.35.000 ex28.38.290 ex28.39.000 ex28.42.200 ex28.48.900				) ) ) ) Free ) )	279 (2,832) (106) (973) (867) (2,526) (152)	EEC.JPN,CHN,USA,PTW,SGP JPM,EEC,SGP,CHM,HKG,IND,USA EEC,AUS,PTW,JPN,USA,CHM EEC,JPN,PTW,CHM,SGP,USA EEC,NOR,USA,CHM,SGP,JPN USA,JPN,EEC,CHM,PTW,SGP JPN,EEC,SGP,CHM,PTW,HKG			
	Sub-total	279			Free	279				
Finished manufactures	78.06.000				Tree	988	JPM, EEC, SGP, HKG, PTW			
	Sub-total	988			Free	988				
<del> </del>	TOTAL	12,670			Tree	12,670				

Note:

- Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.
- Exchange rate 1964: Ringitt 2.3436 per DS\$, IMF International Financial Statistics, July 1986.

Source: - Malaysia Annual Statistics of External Trade 1984, Volume II Part I and II, Department of Statistics, Kuala Lumpur

- International Customs Journal, 1981-82, Brussels 1981.

## TRANS IN LEAD AND LEAD PROJECTS MORE REFPERENT TAKEFF TREATMENT ACCORDING TO STACES OF PROCESSING

Country: MEXICO

Test: 1985 (trade), 1986 (tariff treatment)

(ES\$'000):

-								Other P	referent	ial Treatmen
Product Description	Tariff No.	Total Imports	Tartiff An Heighted	Simple	Rate	Value	Origin	Rete Z	Value	Origin
Ores and concentrates	26.01.999				)	(?7)	CTM, USA, CHE, SME, EEC		(1)	IRA.
leh and residues	ex26.03.0C3				) 5	•			-	<u></u>
	Sub-total	•••	5	5	5	•••			•••	
Inercought										
	78.01.001		1			11	USA, EEC			
Waste and scrap	78.01.002		i		) 10	14	USA			
Powders and flakes	78.04.002				) 	,				
	Sub-total	28	10	10	10	28				
irought	78.02.001				) 20	2	CHE, USA			
	78.02. <del>999</del>	1	l		) 20	15				
	78.03.001				) 10	19	USA			
	78.04.001				)	8				
	78.05.031				25	2				
	Sub-total	46	14.3	17	10-25	46				
Chemicals	28.27.601				40	10	USA			
	28.27.999				)	37	į			
	ex28.30.999				20	(251)	USA, EEC, PRI, CHE			
	ex28.35.999				25	(45)	EEC,USA			
	ex28.38.999 ex28.39.999	1			, 5 \	(85) (25)	USA, EEC, JPN USA, EEC, AUT			
	ex26.42.999		:		40	(71)	USA, NOR, SWE, EEC, CHE			
	ex28.48.999				20	(452)	USA, EEC, CHE			
	Sub-total	47	40	28.7	5-40 <sup>2</sup>	47				
finished nemfactures	78.06.001				)	13	USA, EEC			
	78.06.002 78.06.999				25	- 206	USA, EEC			
	Sub-total	219	25	25	25	219				
	<del></del>	-	25	25						
	TOTAL	340			5-40 <sup>2</sup>	340	ĺ		•••	

Imports from ALADI countries; no information is available in relation to the nature or extent of preference applied.

Note: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.

Source: Mexico Information File, GATT

Tariff range.

lead and lead products, its imports are practically nil. Table 44 indicates the m.f.n. tariff treatment on lead and lead products which ranges from 5 per cent (ores and concentrates) to 40 per cent (lead oxides and sulphates).

- 85. Morocco too belongs to the major world lead mine producers. However, its production has decreased since 1981 as a result of closures of some mines (Aouli-Mibladen in 1983 and the mine in Zaida in 1985). In 1986, it was 70,000 tons, about 37,000 tons below the level in 1985. Some decrease in the capacity will be partially offset by the opening of new mines. At present more than one-half of mining output is processed into lead metal locally by Oued El Heimer smelter and the other half of concentrates is exported mainly to the EEC, Switzerland, the USSR and Sweden. As domestic consumption of refined lead is only about 5 per cent of its production, most metal is also exported, principally to the EEC, Switzerland, the USSR and Sweden. Consequently, as can be seen from Table 45, Morocco's imports of lead and lead products are low and consist mainly of lead oxides and unwrought and wrought lead products. The m.f.n. rates of duty on lead range from 10 per cent to 40 per cent. However, the applied tariff treatment is lower, between zero and 25 per cent.
- 86. Nigeria has a secondary smelter which produces about 2,000 tons of lead metal annually. Its consumption of lead and lead products is low and imports are limited to a few lead products. Table 52 indicates the m.f.n. tariff treatment which is applied to imports of lead and lead products.
- 87. Pakistan has one secondary plant producing about 2,000 tons of lead metal per year. Its imports of lead products consist mainly of unwrought lead and lead oxides. This is 52 indicates the m.f.n. treatment applied to imports of lead and lead products.
- 88. Peru, with 200,000 tons of lead in concentrates produced in 1985, is the largest lead mine developing country producer. However, Peru's lead production has suffered from low prices and has been mainly maintained as a by-product to silver and zinc. Also, the future plans for expansion or development of new mines are primarily designed to increase In recent years, the Peruvian Government has silver and zinc output. taken several legislative actions, such as tax incentives to the small mining sector, the establishment of certain guarantees in new mining contracts, etc. for promoting the development of and investment in the mining industry. The State company Centromin Peru, the leading producer of lead concentrates, also owns the lead agglomeration plant installed in 1983 in La Oroya, in the site of the old lead smelter and refinery. also has several smaller private mines with the participation of foreign, mainly Japanese, capital. A new lead smelter and refinery owned by FUNDECONSA was put on stream in 1986. Presently, Peru processes less than one-half of its mine production. Only a small part of refined lead output remains in the country for domestic consumption. Consequently, Peru is a

TABLE 45

# TRACE IN LEAD AND LEAD PRODUCTS HINDER DEFFERENT TREATMENT ACCOUNTING 3 STACES OF PROCESSING

CONT. INDO

Tear: 1984 (traie), 1987 (tariff treatment)

(05\$'000)

	7	7	T							(05\$'000
		Total				PER		Other Pre	ferenti	al Treatment
Product Description	Tariff No.	Imperts	Tariff A	serate	Bare <sup>1</sup>					<del></del>
		1	Weighted	\$1 <b>-</b> 1	1 2	Value	0-4-4-	Rate	l	l
		1	2	2	•	4410c	Origin	1	Value	Origin
Ores and concentrates Ash and residues	ez:26.01.90 ex:26.03				10(Free) 10	(14)	AUS			
	Sub-total	•••		5	2 (Free-10)	•••				
Unwrought Unalloyed Alloyed Waste and scra; Powders and flakes	78.01.11 78.01.19 78.01 78.01				) ) 25(5) ) 30(25)	371	EEC,CHE			
	Sub-total	371	5	10	25-30 <sup>2</sup> (5-25)	371				
lizoughe	78.02.00 78.03.00 78.04.20 78.05.10 78.05.29				25(10) 30(25) 35(25)	295	EEC PEC, CHE EEC USA, EEC			
	Sub-total	301	10.3	22	25-35 <sup>2</sup> (10-25)	301				
Chemicals	28.27.10 28.27.91 28.27.99 ex28.30.79 ex28.30.90 ex28.35.49				30(10) 30(26)	144 169 3 (15) (1)	EEC,CHE  EEC,CHE  )			
	ex28.38.71 1x28.38.99 1ex28.39.10 28.39.70 28.42.74 ex28.48.99				30(10) 40(20) 30(20) 30(10) 30(20)	(2) (34) (1) (22) 6 5 (18)	DEEC ) ) DEEC,CHE ) EEC EEC,CHE			
	Sub-total	327	10.1	15.8	30-40 <sup>2</sup> (10-20)	327				
Pinished manufactures	78.06.10 78.06.91 78.01.98				35(25) 35(15) 35(25)	3 5 6	EEC AUT EEC, USA			
	Sub-total	14	21,5	21.7	35 <sup>2</sup> (15-25)	14				
	TOTAL	1,013			10-40 <sup>2</sup> (Free-25)	1,013				

<sup>1</sup> Figures in parenthesis indicate applied rates. These rates have been used for the calculation of tariff averages.

Note: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may in "ode imports o and for the same reason are not included in the such total.

Exchange rate 1984: Dirhams 8.811 per US\$, DMF International Financial Statistics, October 1586.

Source: Statistiques du Commerce Extérieur, Ministère des Finances, Office des Changes, 1984 International Customs Journal, 1986-87, Brussels 1986

Zariff range.

## TRADE IN LEAD AND LEAD PRODUCTS UNDER DIFFERENT TARIFF TREATMENT ACCORDING TO STAGES OF PROCESSING

Country: PERU Year: 1902 (trade), 1906 (tariff treatment)

(US\$1000)

						HEM		Other Pre	ferenti	al Treatment
Product Description	Tariff No.	Total Imports	Tariff Av Meighted 2	Simple 2	Rate Z	Value	Origin	Rate Z	Value	Origin
Ores and concentrates Lah and residues	26.01.05.00 ex26.03.00.00				10	:			:	
	Sub-total	-		10		-			-	
Javrought Unalloyed	78.01.01.01									
ouerroken	78.01.01.02	l l	1		15	1	USA		1	
Alloyed	78.01.02.01		1		,	1	1	Ì		
urrolen	78.01.02.99				20	51	USA		9	BOL
Waste and scrap	78.01.03.00				15	l _	Ì			
Powders and flakes	78.04.02.00	İ			25	(36)	USA,EEC			
	Sub-total	61	19.9	18.3	15-25 <sup>2</sup>	52			9	
rought	78.02.01.00				)	38	USA.JPN			
	78.02.02.00				25	1				
	78.03.00.00	1			) -	1	USA			
	78.04.61.00				)	36	USA,EEC			
	78.05.01.00 78.05.02.01				)	١.,	trae tour			
	78.05.02.01				) 30 )	13	USA, JPN			
	Sub-total	88	25.7	27.1	25-30	88				
hemicals	28.27.00.01				)					
	28.27.00.02		1 1	Ī	45	3	EEC			
	28.27.00.03		1 1		)					
	ex28.30.01.99		1 1	Į.	)	ļ			1	
	28.30.02.03 ex28.30.03.99		1 1		20	(668)	JPN,EEC,USA,CHE		(3)	ARG
	ex28.30.04.99			į.		,	, ,		``'	
	ex28.35.01.99		1 1	ľ	35					
	ex28.35.02.99	ŀ	1 1	- 1	25	(1,591)	USA,EEC,CSK	1	(6)	ARG
	28.38.01.12	1	] ]		30			- 1		
	ex28.38.03.99	1		ŀ	25	(746)	EEC,USA,JPN,POL,CSK		(502)	CHL, URY, MEX
	ex28.39.01.99	i		h		12/3	**************************************	1		
	ex28.39.02.99			6	20	(267)	EEC,USA,ISR,CHE	1		
	28.42.02.51			þ	20	(240)	EEC,USA,POL	i	(13)	WIT (%)
	ex28.42.03.00	1		þ		(240)	bhuguang Eub		(13)	HEX,CEL
	ex28.48.04.00 28.48.05.01				30 35	(60)	EEC,USA,CHE		(5)	CHL, HEX
	Sub-total	3	45	27.9	20-452	3				
inished manufactures	78,06.00,01	<del>                                     </del>	<del>  </del>		35					
	78.06.00.99				40	19	USA,EEC		320	ARG, BRA
	Sub-total	339		37.5	35-40 <sup>2</sup>	19			320	
	TOTAL	491	1		10-452					

Imports from ALADI countries; no information is available in relation to the nature or extent of preference applied. The weighted tariff averages are calculated excluding this trade.

Zariff range.

More the lead products are not specified separately (indicated by "ex") the trade flow figures shown within brackets may include imports of products other than those of lead and for the same reason are not included in the sub-totals

Source: - Commodity Trade Statistics, United Mations Statistical Office, January-December 1982

<sup>-</sup> Zoll-und-Handels Information, September 1983.

net exporter of both lead concentrates and lead metal, and its imports are limited to some lead semi-manufactures and manufactures. Table 46 gives the m.f.n. tariff treatment applied to lead imports.

- 89. The secondary lead production of 7,000 tons per year meets more than one-half of the domestic requirements of the Philippines. In 1981, its lead imports were valued at US\$7.6 million. They consisted of unwrought lead purchased principally in Australia, the United States and Peru (87 per cent of total lead imports), wrought lead products (8 per cent of total) and lead oxides (3 per cent of total). Lead and lead product imports are subject to m.f.n. rates of duty ranging from 10 per cent to 50 per cent and increase with higher stages of processing (see Table 47).
- 90. Romania possesses some low-grade lead and zinc deposits. It also has some primary and secondary metal production. The balance between domestic lead concentrates and metal production and consumption is imported. Romania also imports some lead oxides. Table 52 gives the m.f.n. tariff treatment applied on imports of lead and lead products.
- 91. Singapore also satisfies its domestic consumption of lead and lead products by imports. Table 48 indicates that in 1985, Singapore's imports valued at US\$1.7 million and originated mainly from countries in the same geographic region. Singapore grants the m.f.n. duty-free treatment to imports of all lead products.
- Thailand's Sixth Five-Year National Economic and Social Development 92. Plan emphasizes the development and use of indigenous minerals. result of the geographical survey undertaken in the past two years, large areas containing, among others, lead should be exploited in the future. At present, all of Thailand's lead mine production is exported in the form of lead concentrates, mainly to Japan and the EEC. In 1985, its secondary production covered only about one-third of requirements, and the other two-thirds were imported, principally from Australia, Japan and the People's Republic of China. Table 49 shows imports of lead and lead products into Thailand in 1983. In that year unwrought lead metal subject to the m.f.n. rate of duty of 1 per cent represented 74 per cent of total lead imports. M.f.n. rates of duty increase with higher stages of processing and are 15 per cent and 20 per cent on wrought lead products, 10 per cent on lead oxides and 15 per cent and 50 per cent on lead manufactures. In 1983, these products accounted for 12 per cent, 2.5 per cent and 11.5 per cent of total lead imports, respectively.
- 93. The exhaustion of lead and zinc mine deposits contributed to the decline in lead mine and metal production in <u>Tunisia</u>. In order to decrease its dependency on imports of lead concentrates, Tunisia plans to

### TRADE IN LEAD AND LEAD PRODUCTS UNDER DIFFERENT TARIFF TREATMENT ACCORDING TO STAGES OF PROCESSING

Country: PHILIPPINES

Year: 1981 (trade), 1986 (tariff treatment)

(US\$1000)

						MEN		0.1	n6	
Product Description	Tariff No.	Total	Tariff A	A740A	г		Т		rreieren	tial Treatme
tronger peprilibreom	INTEREST	Imports 2	Weighted Z	Simple 2	Pate Z	Value	Origin	Rate 2	Value	Origin
Ores and concentrates Ash and residues	26.01.700 ex26.03.000				10	(333)	JPN			
	Sub-total			10	10					
Unwrought Unalloyed Alloyed Waste and scrap Powders and flakes	78.01.200 78.01.300 78.01.400 78.01.100 78.04.000				10	142 5,332 1,138	AUS, USA AUS, USA, PER, CHN, SGP, JPN AUS, USA, CHN, EEC, JPN CHN EEC			
	Sub-total	6,613	10	12	10-20	6,613				
Wrought	78.02.000 78.03.000 78.04.000 78.05.000				20	374 144 43 70	JPN,EEC,USA,AUS,CHN,MYS EEC,AUS,JPN,USA JPN,HKG,AUS,USA HKG,CHN,USA			
	Sub-total	631	20	20	20	631				
Chemicals	28.27.000 ex28.30.900 ex28.35.000 ex28.38.990 ex28.39.000 ex28.42.200 ex28.48.000				10	206 (4,938) (319) (187) (1,654) 48 <sup>2</sup> (86)	JPN,AUS,USA JPN,USA,AUS,CHN,EEC JPN,USA,EEC,CHN,SGP EEC,CEN,USA EEC,JSR,JPN,HKG,USA,CHN EEC EEC,USA,KOR,SGP,CHE,JPN			
	Sub-total	254	25.z	12.9	10-30	254				
inished moufactures	78.06.000				50	65	CHN,USA,JPN,HKG,EEC			
	Sub-total	65	50	50	59	65				
	TOTAL	7,563			10-50	7,563				

Tariff range.

<sup>&</sup>lt;sup>2</sup>Imports of lead carbonate, neutral or basic ("white lead") (SITC tariff no. 523.24-06).

Mote: Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.

Source: - Foreign Trade Statistics of the Philippines 1981, National Census and Statistics Office.

<sup>-</sup> International Customs Journal, 1982-83, Brussels 1987.

#### THELE 48

### THASE IN LEAD AND LEAD PRODUCTS INDEX DIFFERENT TARRY TREATMENT ACCORDING TO STACES OF PROCESSING

Country: STIGAPARE

Year: 1905 (trade), 1906 (tariff treatment)

	<del></del>	<del></del>	<del></del>			· · · · · -		<del></del>		(05\$1000
•		1	į					Other	Prefere	ential Treatme
Product Bescription	Tariff No.	Total Imports	Tariff &		Rate I	Value	Origin	Rate I	Value	Origin
Ores and concentrates Ash and residues	26.01.260 ex26.03.900				free	29 (2,011)	MAR JPW, PHIL, NYS			
	Sub-total	29			Free	29				
Journought Unslloyed Alloyed Waste and scrap Powders and flakes	78.01.200 78.01.300 78.01.400 78.01.100 78.04.000				Free	124 244 213 25 (1)	MYS, IND MYS HKG, MYS, IND n.a. n.a.			
	Sub-total	606			Free	606				
irought	78.02.000 78.03.300 78.04.000 78.05.000				Free	344 84 1 36	MTS, HKG, THD, THA, PTW MTS n.a. MTS			
	Sub-total	465			Free	465				
Chemicals	28.27.000 ex28.30.100 ex28.30.200 ex28.30.300 ex28.35.000 ex28.38.900 ex28.39.000 ex28.42.900 ex28.42.900			) ) ) ) )	Free	209 (4,913) (524) (58) (100) (1,508) (1,076) (3,047) (265)	AUS, EEC, USA, CHN EEC, JPH, USA, CHN, THA, IMD EEC, RKG, ISR, USA EEC JPH, EEC EEC, JPH, PTW, ISR, CHN, NOR ISR, EEC, USA, CHN, DDR, KOR JPH, EEC, RCM, PTW, DDR, USA EEC, JPH, AUS			
	Sub-total	209			Free	209				
inished manufactures	78.06.000				free	411	JPW, EEC, AUS, USA, PTW, HKG			
	Sub-total	411			Free	411				
	TOTAL	1,720			Free	1,720				

Note: - Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.

Source: - Singapore Trade Statistics, Vol. VI no 12, Department of Statistics, December 1985, Singapore.

<sup>-</sup> Exchange rate 1985: Singapore dollars 2.2002 per US\$, IMF International Financial Statistics, July 1986.

<sup>-</sup> International Customs Journal, 1986-87, Brussels 1986.

#### OF IN LIND AND LIND INDINCES WHERE VERYOR DE TALES WHOSE AND A SHORE OF SHORES

unity: 198.40 Mr: 198 (tools), 196 (tariff treatment)

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					188				het Profess	atel Second
Product Description	Toriff to.	iotal iments	Tectff .	marky.	T -	ī		<del>  "</del>	T "==	Ţ
		7	Stated I	Shaple I	Restr.	Takes	Origin	Seaton 7	Name .	Origin
firm and concentrates Adv and tracifies	ex 26.01.39 ex 26.03.00 Sel-total			3	;3 ;3	(473)	COF,TEL,EX	2.4 2.4	(1539	R.
Caccoglic Conlinyed	78.01.02 78.01.05 78.01.06				) ) ) )1	741 102 7,727	ALS, JAN, PIN, ELB, SAE ALS ALS, BAR, PIN, CHA, SAE	0.75 0.8	112	x2
Alleged	78.01.03 78.01.04				;	572 50	AUS, PTV, MEC, NUC.	0.7		
linste and eccep Produce and Elahos	78.01.01 78.04.12 Sub-total	9,625	1	3.7	20, 1-20	273 3 9,468	USA,NCA,EEC JPH,EEC	16 0.75-16 <sup>2</sup>	167	
iragi t	78.02.01 78.02.02 78.02.09 78.03.00 78.04.11 78.04.20 78.05.01 78.05.03 Sub-total	1,592	15	15.6	) )15 )15 ) 20 ) )15 )	4 1,412 13 73 3 28 54 2 1,569	RIR, USA, DEC., IPIN, S.E. EDC., IPIN, S.E., IPIN EDC., GRIS, J. J. J. J. J. J. J. J. J. J. J. J. J.	) )12 ) 10.5 16 12 10.5 12 10-5-16 <sup>2</sup>	3 3	527
Charicals	25.27.01 25.27.02 25.27.09 0x 25.30.29 0x 25.30.39 0x 25.39.25 0x 25.39.25 0x 25.42.09 0x 25.46.00 336-total.	330	10	10	) ) ) )10 ) ) )	13 170 147 (939) (41) (1,539) (2,079) (109) (1,064) (401) 330	EEC, PTV, CSII ALS, EEC ALS, EEC, CRII EEC, ALS, ARI, CEC, TOP PTV EEC, TRI, CSA, CRII, TAV EEC, ARI, TAV, CRII, TAVA EEC, ARI, TAVA, CRII EEC, ARI, CAR, CRII EEC, ARI, CAR, CRII EEC, ARI, CRII, CRII EEC, ARI, CRII, CRII	} }7 } }		
Valded numfactures	78.06.01 78.06.10 78.06.20 Sab-total	1,500	30	20	}15 30, 15-30	- 1,500 1,500	NUR ERC JPW, NEG, USA, ERC, DID, FTW			anting interpretation and the second
	TUNL	13,047			1-30 <sup>2</sup>	12,467		0.75-16	160	

Indicated more as in force on 15 September 1981, applied to goods originating in ASSNI countries.

Iniff ress.

Here the lead products are not specified expectably (indicated by "or") the trade flow figures, show within brackets, my include imports of products other than those of lead, and for the name reason are not included in the sub-total.

Reclarge unto 1900: Note 23.0 per Wil, NW intercritonal Plannical Statistics, Supember 1996.

Source: Resign Trade Statistics, of Taxiland, Becamber 1983, Department of Customs, Respirit.
2011-10-1-Taxiland Information, July 1984, 1884
Outcom Taxilf of Taxiland, architect up to 1961

enlarge or develop new lead and sinc mines. Tunisia consumes only a small part of its output of refined lead which has substantially decreased in recent years. Imports of lead products are negligible. Table 52 indicates the m.f.n. treatment on lead and lead products.

- 94. Turkey revised its mining legislation in June 1985 in order to boost development of/and investments into its mineral sector. The number of large economic enterprises decreased and the new law co-operative joint venture projects with the private sector. and investment incentives include guarantees to allow capital and profit repatriation. Turkey has small production of lead concentrates of which only some are further processed in the country. Since its consumption of refined lead has substantially increased in recent years, most of it is As can be seen from Table 50, in 1981, unwrought lead represented the major part of Turkey's lead imports. About 43 per cent of lead metal was imported duty free under the Additional Protocol of the Association Agreement between Turkey and the EEC. The remaining lead imports originating in Bulgaria, Sweden and the United States were subject to the m.f.n. rate of duty of 35 per cent. As in most other countries. the m.f.n. treatment on lead increases with higher stages of processing.
- 95. Uruguay has no lead production and imports all lead for its consumption. Table 52 indicates the m.f.n. treatment on lead and lead products.
- The mineral industry of Yugoslavia has faced difficult conditions for several years as lack of foreign currencies and higher production costs adversely affected the mineral output. In order to attract investments into new primary facilities, the Government has changed the basic law for investment of foreign capital in the country's economy. Though Yugoslavia remains among the largest developing country producers of lead, its mine and refined lead production has stagnated and its exports of these products have fallen in recent years. Yugoslavia imports mainly unwrought lead metal and lead oxides. As Table 51 shows, these items represented 62 per cent and 32 per cent in total lead trade of US\$9.5 million in 1984. respectively, and were principally purchased in the EEC and Austria. m.f.n. tariff treatment on lead and lead products range from 5 per cent to 15 per cent. Yugoslavia grants a preferential duty-free treatment on unalloyed lead under the imports of Protocol Relating Negotiations Among Developing Countries. In 1984, almost one-third of total unwrought lead imports were supplied duty-free under this Protocol by Peru.
- 97. In Zaire domestic consumption of lead products is very low. Lead metal including alloys and lead oxides are imported, principally from the EEC. Table 52 indicates m.f.n. rates of duty applied on lead and lead products.

## THE THE PARTY OF THE PARTY THE STATE WHEN STATE OF THE ST

Country: 70000 7007: 1904 (trade), 1904-07 (tariff treatment)

055'000

	Testif No.1	Real			159			-	er Professori	al Busines <sup>2</sup>
Product Buscription	Territ In.	Imports	Selft (		lan.	14	Octoba	Beta	14	Ortota
			Heightud Z	Steple I	1	-	w.	1		WC TOPON
One and concentrates ads and recidens	er 35.01 er 36.03 Sab-tutal	-		7.5	5 10 5-10 <sup>3</sup>	:			:	
Harraght Unalloyal Alloyal Haste and scrap Posters and Elden	76.01.10 78.01 78.01 78.04 78.04 Sai-total	4,9%	35	48.3	) ) 35 ) 40 35-40	3,498  (3) 3,498	NAC, MEZ, USA, BOR		1,498 - - (2) 1,498	esc sac
<b>Veraght</b>	78.02.00 78.03.00 78.04 78.05 3do-total	417	æ	40.0	) }40 }	3 - 3	D.		5 102 2 5 114	) } } }
Constrain	28.27.30 25.27.90 ex 28.30.29 ex 28.30 ex 28.30 ex 28.30 ex 28.30				) 50 ) 40 ) 50 15(8) 40	(128) } } (276)	ZAF JPM_USA_GE		138 (466) (69)	) ) ) ) ) ) )
	28.35 28.38.33 48.38.37 28.39.24 28.42.16 48.28.42.49 48.28.48.90 336-total	מו		<b>V.</b> 3	} 50 } 15(0) 25 } 15 15 15-50	(2) 21 (20) 21 (409) 21	CHE_UPH CHE_USA CHE_UPH_AUT_USA_CHE		- (15)	) ) ) ) ) )
Tidahol sasafattana	78.06.60 Sab-total	2	40	40	40	<del>-</del>			2 2	
	109L	5,290			5-50	3,522			1,764	

Uniff line extracted from both the Statistical and the Content Scheme.

Source: Provides Trado Statistics, 1984, Prime Ministry State Institute of Statistics, Ashers, April 1986 Interestional Contemn Journal, Bouncle, July 1986

Thety-free turiff treatment to the NEC countries according to Article 10 and 11 (COUN 20.27) of the additional Protocol of the Association Agreement between Yackey and the NEC edgeal 23 Newsber 1970.

Intiff sage.

appears of this item are not specified superstally. Trade figures are considered only under the complet products together with lead foil.

Note: these the lead products are not specified separately (indicated by "m") the trade flow figures, show within products, any facinite imports of products other than of lead, and for the same recess are not facinated in the ani-total.

<sup>(1) -</sup> Rent zate (Scialije 1939/1).

## TRADE IN LEAD AND LEAD PRODUCTS WIDER DIFFERENT TARLET TREATMENT ACCORDING TO STAGES OF PROCESSING

Country: YOUGSLAVIA

Year: 1984 (trade), 1986 (tariff treatment)

(000'220)

						HEFN		Other Pr	eferenti	al Treatme
Product Description	Tariff No.	Total	Tariff Av	retage		T		<del> </del>	ī	<del></del>
•		Imports	Veighted Z	Simple 2	Rate	Value	Origin	Rate	Value	Origin
Ores and concentrates Ask and residues	26.01 ex26.03				7 <sup>1</sup> 5 <sup>1</sup>	154	SWE, EEC CRE			
	Sub-total	154	7	6	5-72	154				
Unwrought Unwlloyed Alloyed Waste and scrap	73.01 78.01 78.01 78.01 76.01				5 10 8 5	2,620 1,491	EEC, MAR EEC	Free <sup>3</sup>	1,742	PER
Powders and flakes	78.04				10	13	EEC			
	Sub-total	5,866	9.3	7.6	5-10 <sup>2</sup>	4,124			1,742	
Vrought	78.02 78.03 78.04 78.05				10	302 7 70	EEC, SUN, AUT EEC, AUT EEC, USA			
	Sub-total	379	10	11.2	10-152	379				<b></b>
Chemicals	28.27 28.27 ex28.30 ex28.30 ex28.30 ex28.35 ex28.35 ex28.35 ex28.39 ex28.39 ex28.42 ex28.48				10 <sup>1</sup> 10 8	2,198 849 (5,049) (793) (766) (347) (3,601) (165) (11,001) (311) (1,169) (3,017) (466)	AUT, BGR, EEC AUT, EEC, DDR, USA, JPN CSK, DDR, EEC, SUN, JPN SUN, EEC ISR, EEC, SUN, CHE, AUT EEC, AUT, SUN, CEE, JPN SUN, EEC, CSK, POL, DDR EEC, AUT DDR, EEC, CSK, SUN, POL EEC, POL, DDR, AUT, CSK DDR, EEC, AUT, POL, CHE EEC, DDR, AUT, CSK, SUN EEC, USA, CHE, DDR			
	Seb-total	3,047	10	9.8	8-10 <sup>2</sup>	3,047		أ		- <del>-</del>
'iniohod menufactures	78.06 78.06 78.06				8 10	20 11	EEC,USA EEC		: : :	
	Sub-total	31	10	12.7	8-10 <sup>2</sup>	31				
	TOTAL	9,477			5-152	7,735		····	1,742	

<sup>1</sup> Customs quotes may apply under Article 49 of the Customs Act.

Tariff rance

Preferential treatment granted under the Protocol Relating to Trade Megotistions Among Developing Countries. It does not apply to Israel and the Republic of Korea.

Mote: - Where the lead products are not specified separately (indicated by "ex") the trade flow figures, shown within brackets, may include imports of products other than those of lead, and for the same reason are not included in the such total.

<sup>-</sup> Exchange rate 1983/84: Dinars 124.8 per US\$, according to the Decision of the Federal Executive Council on dinar parity, 9/12/83.

Source: - Statistics of Foreign Trade of the SFR Yugoslavis 1984, Federal Statistical Office, Beograd 1986.

<sup>-</sup> International Customs Journal, 1980-81, Brussels 1980.

LEAD AND LEAD PRODUCTS TARIFF RATES ACCORDING TO DIFFERENT STAGES OF PROCESSING TABLE 52

a de la contraction de la cont	7						7	1		-
description	No.	(1986)	(1986)	Egypt (1986)	(7867)	(1984)		(1977)	uruguay (1986)	(1961–82)
Ores and concentrates Ash and residues	26.01	335	Free(B) 4.5%(B)	}2%	25E {	Free 33.3%	SX Free	Free	10% 20%	}rree
Unwrought Unalloyed Alloyed Waste and scrap Powders and flakes	78.01 78.01 78.01 78.01	) ) 35 <b>z</b> )	0.5%(B) Free(B).0.5%(B) 1.25%(B) 6.5%(B), 6.75%(B)	) )2x(B) ) 30x	) 35 <b>%</b> (	)   52     66.72	) )Free ) 10Z	) )Free ) 2%	) ) ) 10 <b>z</b> )	) } } \$\$
Veought	78.02 78.03 78.04 78.05	) ) ) ) )	2.25%(B),5%(B) 2.75%(B) 4.25%(B),6.75%(B)	) )30X ) 40X	) )35 <b>x</b> )	15x,33.3x,66.7x 10x,66.7x 66.7x 5x,10x,33.3x,50x	51 ) )101	) ) 2x ) 3x,10x	20X ) )55X )	258
Chemicals	28.27 28.30 28.35 28.38 28.38 28.42 28.48	) ) ) ) ) )	3.25x(B) 4.75x(B),5x(B), 7.25x(B) 4.75x(B) 3x(B),5x(B) 4.75x(B)	15Z ) ) ) ) ) ) )	) ) ) ) ) ) )	) ) ) ) ) ) ) ) )	8X 5X,8X,10X 10X 8X,10X 12X,15X 5X 8X,10X	010x	10X 10X, 20X ) ) ) ) ) )	
Finished manufactures	78.06	35%	2%(B),8.25%(B) 9%(B)	20%	25E	22.99	102	3%	20%,55%	102
Tariff range		35%	Free-102	2%-50%	35%	Free-66.72	Free-15%	Free-10X	10%-55%	Free-10X
7 4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-		2000		١.		The state of the s				

Tariff data extracted from the latest available sources. Year indicated refers to the year of the edition of those publications.

(B) Bound rate (Schedules, X-Czechoslovakia, LXII-Egypt) Note: Arancel Adusmero, Direccion Macional da Adusmas, Santiago, 1986
Manual Practico del Importador, Tomo I, Godigo General de Mercaderias, Centro de Estadisticas Nacionales y Comercio
Internacional del Uruguay, Montevideo, 1986
Internacional del Uruguas, Cacheslovakia, Poland, Romania, Zaire; Brussela
Zoll-und-Wandels Archiv: Egypt, Ghana, Nigeria, Zambia, Köln Source:

## Tariff escalation and effective tariff protection

- 98. As pointed out in document TAR/W/29, COM.TD/W/369 of 8 June 1982, a number of serious difficulties arise in any attempt to precisely measure These involve lack of accurate information the effective tariff rates. on input/output values in specific industries, as well as other factors such as the estimation of the relative importance of trade flows under m.f.n. and GSP rates or other preferential rates, the calculation of ad valorem tariff equivalents of non-tariff measures, the establishment of appropriate weighting patterns, and accounting for technological change in industries. Nevertheless, as noted in TAR/W/18 of 5 March 1981, the effective rate of protection of value added can be assessed with "reasonable" precision in the early stages of processing. unwrought stage, measurement of effective rates of protection becomes increasingly difficult. As indicated in TAR/W/29 of 8 June 1982, where tariffs show escalation at successive processing stages, simple calculations of effective rates of protection yield estimates that are higher than nominal tariff rates themselves.
- 99. Due to the methodological problems described above, the present study does not attempt to analyze effective tariff protection in the lead industry and refers to nominal tariff protection. However, by examining nominal tariff rates it may be noted that the nominal tariffs tend to increase with a higher stage of processing in a number of countries. Although most of the countries examined import lead ores and concentrates duty free, they apply positive m.f.n. rates of duty on unwrought and wrought lead products and lead finished manufactures. Moreover, with respect to the latter two groups of products, it is often the case that m.f.n. rates of duty are significantly higher on lead manufactures than on wrought lead.

### Non-tariff measures

100. Table 53 shows non-tariff measures applicable to exports and imports of lend, as notified to the secretariat in the context of the updating of the inventories of Non-Tariff Measures. Measures taken for balance-of-payments purposes were also taken into account. Other non-tariff measures relevant to the present study may be identified as the process of updating and notification continues. As indicated in this Table, non-tariff measures affecting trade in lead involve the following areas:

- government participation in trade and restrictive practices tolerated by governments. These are in the form of government aids, countervailing duties, government procurement and State trading;
- (ii) Customs and administrative entry procedures, such as antidumping duties, customs classification, consular formalities and documentation, rules of origin and other customs formalities;

## NON-TABLET MEASURES APPRICING TRADE IN LEAD AND ARTICLES THEREOF

Hoa-Tariff	<b>——</b>	Country
Messures	Product	• Neinteining • the Measure
. On experts		·
Import embarge	Ash and residues containing metals (CCCN 26.03)	Austria
•	Load and articles thereof (CCCH ex 78)	Pakistan
	Load waste and scrap (CCCN ex 7801)	, Brazil
	Lead waste and scrap (CCCN ex 7801)	Colombia
Export restrictions	Metallic ores, slag and ash (CCCN ex 26) Metallic ores and concentrates (CCCN ex 26,01)	Canada 1
Export quotas	Certain minerals and metals (CCCN ex 26)	India
	Lead Weste and scrap (CCCN ex 78.01)	EEC
Export licensing	Metallic ores and concentrates (CCCM ex 26.01)	Brazil
or administrative	Metallic ores and concentrates (CCCM ex 26.01)	New Zealand
locumentation	Ash and residues containing metals (CCCN 26,03)	Finland
requirement	Ash and residues containing metals (CCCN 26.03)	Tuniand Tuniana
	Ash and residues containing metals (CCCN ex 26.03)	
1	Lead and articles thereof (CCCN ex 78;	Brazil
		Malaysis
	Lead, unwrougth and weste (CCCN ex 78.01)	Malaysia
	Unwrought lead (CCCH ex 78.01)	Korea, Republic of
1	Lead waste and scrap (CCCN ex 78.01)	Austria
ļ	Lead waste and scrap (CCCN ex. 78.01)	Dominical Republic
į.	Lead scrap (CCCN ex 78.01)	New Zealand
i	Metal and metal scrap	Sri Lanka
	Lead atticles (CCCN 78.02, 78.03, 78.04, 78.05)	Tunisia
xport taxes	Matellife area with and and department of	
Export taxes	Metallic ores, slag and ash (CCCN ex 26)	Canada
!	Lead ashes and residues (CCCN ex 26.03)	Switzerland
	Lead and articles thereof (CCCN ex 78) Lead waste and acrap (CCCN ex 78.01)	Canada Switzerland
I. On imports		
robibition or	Metallic ores and concentrates (CCCN 26.01)	<b>-</b>
mbargo		Tunisia
	Ash and residues containing metals (CCCN 26.03)	Tunisia
	Lead and articles thereof (CCCN 78)	Tunisia
1	Lead waste (CCCN ex 78,01)	Bangladesh
]	Tubes and pipes of lead (CCCN 78.05)	Egypt
	Tubes and pipes of lead (CCCN ex 78.05)	Senegal
wote unspecified	Lend ores (CCCN 2601.7a)	Yugoslavia
	Netallic articles (CCCN ex 78)	Senegal
	Unwrought lead (CCCN 78,01.1)	Yugoslavia
Quantitative restrictions	Lead oxides (CCCN 28.27)	EEC (Italy)
	Sulphates and persulphates (CCCN ex 28.38)	EEC (Germany, F.R., Italy)
	Lead articles (CCCN 78.02, 78.03, 78.04, 78.05, 78.06)	EEC (Italy)
icensing	Metallic ores, slag and ash (CCCN ex 26)	T-44-
PT CAMBYME	Hetallic ores, slag and ash (CCCN ex 26)	India
		Switzerland
ł	Metallic ores and concentrates (CCCN 26.01)	Japan
	Lead concentrates (CCCN 26.01.7b)	Yugoslavia
	Lead waste and scrap (CCCH ex 78.01) <sup>2</sup>	Yugoslavia
icensing (method nepecified)	Wheel balancing weights (CCCN 78.06.900)	Jameica
iberal licensing	Lead ore and concentrates (26.01.700)	Korea, Republic of
utamatic licercies	Ash and maddless considerate and decomposition and assets	
stouatic licensing	Ash and residues containing metals (CCCN 26.03)	South Africa
i	Other chlorides (28.30.5090)	South Africa

All the Children of

Rea-Coriff Hospanes	Product	Country Heintaining the Heasure
Sea-sutemptic	Notallic oros, sing and ash (CCCH 26) Notallic oros and concentrates (CCCH 26.01) Lead oros and concentrates (CCCH 26.01,07000) Ash and residues containing metals (CCCH 26.03) Ash and residues containing metals (CCCH 26.03) Ash and residues containing metals (CCCH 26.03) Ash and residues containing metals (CCCH 26.03) Litherge, red lead, white lead (CCCH 28.27) Lead proteside (CCCH 28.27.0001) and	Zeshia Sri Lenka Argentina Argentina Colombia Sri Lenka Turkay India
	ealine lead emide (CCCH 28.27.0002) Other chlorides, oxychlorides and hydrouchlorides (CCCH ex 26.30.00199, 28.30.000299) Other chlorides (CCCH 28.30.199) Sulphides and polysulphides (CCCH 28.35)	Argentina Argentina Colombia Sri Lanka
	Sulphides other than those of strontium, zinc, mercury and unlybdesum, polysulphides (CCCN 28.35.0099) Other sulphides than sodium (CCCN 28.35.0199) Other sulphides (CCCN 28.38.020199) Hitrites and mitrates (CCCN 28.39) Lend arsenates (CCCN ax 28.48) Lend and mitrates (CCCN 78)	Argentina Colombia Argentina Israel India
	Lead and articles thereof (CCCH 78) Lead, other than wests and screp, and lead articles (CCCH ex 78) Lead, unwrought and waste (CCCH 78.01) Lead, unwrought and waste (CCCH 78.01) Tubes and pipes of lead (CCCH 78.05,0100) Other articles of lead (CCCH 78.06)	Peru  Chana Argentina Colombia Colombia Turkey
License temporarily suspended	Other articles of lesd (CCCN 78.06)	Brazil .
Prior Import deposit	Lead and some articles thereof (CCCH 78.01, 78.05, 78.06)	EEC (Greece)
Restriction unspecified	Netallic ores and concentrates (CCCN ex 26.01)	Theiland
State trading	Hetallic ores, slag and ash (CCCN ex 26) Lead ore (CCCN ex 26.01) Lead and articles thereof other than menufactures under CCCN 78.06 (CCCN ex 78)	India Tunisia India
	Lead or lead allow and articles thereof (CCCN ex 78)	Tunisia
Turnover tax	Netallic ores and concentrates (CCCN 26.01)	EEC (Italy)
Domestic price measures	Hetallic ores and concentrates (CCGN ex 26.01)	Brazil
Technical standards and regulations	Lead and plumiferus materials (CCCN ex 26.03, ex 28.27, ex 28.30, ex 28.38, ex 28.39, ex 28.40, ex 28.49) Chemical products (CCCN 29) Chemicals	Sweden Switzerland United States

 $<sup>{</sup>f 1}$  The relevant sections of provincial legislation have never been used.

Source: MTM/W/17/Add.2; NTM/W/17/Add.2/Corr.1
MTM/W/6/Rev.3; MTM/W/6/Rev.3/Add.1-4
WTM/IWV/I-V; NTM/IMV/I-V/Add.1-13
TBT/W/68/Rev.1
L/5945/Rev.1; L/6126

<sup>&</sup>lt;sup>2</sup>Conditionally liberalized imports (LBO) carried out within an established right to payment.

- (iii) technical barriers to trade including technical regulations and standards;
- (iv) specific limitations, such as quantitative restrictions, exchange control, licensing and embargoes and other restrictions of similar effect;
- (v) charges, in the form of prior import deposits, surcharges, port taxes, statistical taxes.

In addition to the measures listed in Table 53, there exist other measures of a general nature that are not only specific to lead but which apply to a wide range of products including lead. These measures include governmental and inter-governmental grants and loans, fiscal measures (e.g. tax incentives for resource products processing industries), research assistance, etc., which might have a protective effect.

101. When the purchases of "non-ferrous metals and articles thereof", are made by the entities listed in Annex I to the Agreement on Government Procurement, they are covered by this Agreement. Statistical information exchanged among the parties to the Agreement indicates that in 1985, purchases of such products by government entities covered by the Agreement amounted to SDR 45.8 million (US\$46.5) for all members except the EEC. The nurchases of the EEC were valued at SDR 20.5 million (US\$20.8 million). It should be noted that Article VIII of the Agreement contains general exceptions relating to procurement of items indispensable for national security or national defence purposes. In addition, defence agencies in countries which are party to the Agreement are not covered by the Agreement in respect of purchases of certain specific products.

This section refers only to the countries members of the GATT.

 $<sup>^2</sup>$ The Tokyo Round of MTNs, Report of the Director-General of GATT.

In the two methods can lead to very different results and such difference is easy to explain. In the weighted average the more trade is following under the duty, the more importance the duty is given in the calculation. At the same time, logically, the lower the duty the larger tends to be the volume of trade which flows under such duty. Thus the weighted average will tend to give more importance to low duties and, at the other extreme, will ignore duties which are so high as to be prohibitive. For these reasons, the weighted average has a downward bias. On the contrary the simple average gives the same importance to each duty whatever its level. It could thus assign excessive importance to residual tariff items or to duties facing products of little importance in world trade. Therefore the simple average should in principle give an upward

correction of the weighted average bias." The Report of the Director-General on the Tokyo Round of Multilateral Trade Negotiations.

Table 17 is based on the Tariff Study information prepared by the secretariat for the report by the Director-General on the results of the Tokyo Round in 1980. For technical reasons, this information did not include Australia and New Zealand. At present, it is not possible to compile similar information on more recent statistics since the Tariff Study files for the United States and Canada are recorded on the basis of the national nomenclature.

<sup>5</sup>Tables for Portugal and Spain refer to 1984, before their entry to the EEC.

See GATT document L/5475/Add.1

7 See GATT document L/4451/Add.1

8 See GATT document L/5488

In addition to Spain, which is referred to in paragraph 66, only Ireland, where lead is mined as a by-product at the Tara Mine, has some significant production of lead concentrates. Lead deposits in other EEC countries are relatively small and on average about 50 per cent of lead concentrates requirements are imported. Thus, Belgium's Metallurgie Hoboken Overpelt SA (MHO) produces lead metal mainly from lead ores and concentrates imported from Peru, Canada and Greece and scrap supplied by the EEC countries. Its sales of lead oxides and unwrought metal are directed to the EEC countries. Also a French smelter belonging to the Societé Minière et Metallurgique de Penarroya SA uses lead concentrates imported from South Africa, Sweden and Greenland. France's trade in lead semi-manufactures is principally within the EEC. The grade and metal content of lead ores mined in the Federal Republic of Germany have been decreasing. German smelters belonging to Metallgesellschaft AG. Preussag AG Metall purchase their lead concentrates in Canada, South Africa and Sweden and the Norddeutche Affinerie uses lead bullion supplied mainly be the U.K. These companies also have an important secondary production from domestic scrap and scrap supplied by other EEC countries. The Netherlands Hollandse Ketallurgische Industrie BV (HMI) owned by Billiton, is one of the most important secondary lead producer in Europe. Its lead refinery at Arnhem has been recently rebuilt. The Netherland's trade in lead, similarly to most EEC countries, is principally within the EEC. Italian lead and zinc mines operated by Societa per Azioni Minero- Metallurgische (SAMIM), Fertusola and Mineraria Silius S.p.A. supply about 57 per cent of the primary lead produced by a SAMIM smelter at Porte Vesme. Although Italy also has a substantial secondary lead production it is still a net importer of lead metal. A partly State-owned smelter - the Hellenic Mining and Metallurgical Co. of Laurium SA (EMMEL) - restarted smelting operations after the completion of its modernization and expansion in 1984. About 50 per cent of feedstock is supplied from Kassandra Mines and

the other half is imported. The exploitation of new mixed sulphide deposits at Peloponnesos and Kassandra mines have been under consideration. The United Kingdom major primary producers - Britannia Refined Metals Ltd. and Commonwealth Smelting Ltd. - are subsidiaries of Australian MIM Holdings Ltd. Britannia is a refiner using imported bullion from Australia and some scrap. Commonwealth Smelting Ltd., produces bullion only and exports it, mainly to the Federal Republic of Germany. The U.K. secondary lead refining industry is the largest in Europe and the second largest, after the US, in market-economy countries.

- $^{10}$ About one-half of lead metal imports is of unspecified origin.
- 11 Specific duties are applied to lead alloys.
- 12 As lead prices have fluctuated in recent years, the ad valorem incidence might be affected by the choice of the reference year.
- The m.f.n. rate on lead ores and concentrates is 20 per cent; however, the applied rate is duty-free.
- 14"Nominal tariffs may not accurately reflect the relative protection afforded industries by a structure of tariffs. Cordon's (1966) Effective Rate of Protection (ERP) was designed to capture effects of differential tariffs on prices of final products and imported inputs. Despite considerable criticism and refinement, the ERP is still widely accepted as the practical alternative to nominal tariffs in measuring the structure of protection." Deardorff and Stern. The Structure of Tariff Protection: Effects of foreign tariffs and existing NTBs; The Review of Economics and Statistics, November 1985, p.539.
- 15 Members to this Agreement are: Austria, Canada, the EEC (Greece, Portugal and Spain excepted), Finland, Hong Kong, Israel, Japan, Norway, Singapore, Sweden, Switzerland and the United States.
- $^{16}$ Using the average SDR/US\$ converstion rate for 1985 of SDR 0.98489 per US\$.
- The EEC nomenclature is different from that of other signatories and the figures therefore may not be strictly comparable.

#### SECTION V

# ACTIVITIES IN OTHER INTERNATIONAL ORGANIZATIONS

102. The International Lead and Zinc Study Group is an intergovernmental consultative organization established in 1959 under the auspices of the Economic and Social Council of the United Nations. The current membership includes thirty-four countries who are responsible for 90 per cent of world production and over 80 per cent of world consumption of both lead The Group's main functions are to provide opportunities for intergovernmental consultations on international trade in lead and zinc and, to facilitate such consultations, to establish market transparency in worldwide supply and demand for both metals. For this purpose, the Study Group meets regularly to review the current levels of world production and consumption and international trade in lead and zinc and to assess expected short-term trends. It publishes a monthly statistical bulletin containing latest available data on production, consumption, prices and trade. It also publishes special reports dealing with economic and technical aspects of the lead and zinc industries of concern to its members. During the twenty-eight years in which the Study Group has been in operation, it has proved a valuable forum for consultation between member governments on problems in lead and zinc, particularly in relation to the balance between supply and demand.

103. Principal industry based international organizations operating in the lead and zinc industries are:

- (i) the International Lead Zinc Research Organization, whose main function is to promote, sponsor and organize research into the production and uses of lead and zinc;
- (ii) the Lead Development Association and the Lead Industries Association, which are concerned with the promotion of the uses of lead and lead products.

104. In addition, national Lead Development Associations or Information Centres are in operation in many developed countries and in some developing countries, carrying out promotional work for lead.

Member countries of the International Lead and Zinc Study Group are as follows: Algeria, Australia, Austria, Belgium, Bulgaria, Canada, the People's Republic of China, Czechoslovakia, Denmark, Finland, France, the Federal Republic of Germany, Hungary, India, Iran, Ireland, Italy, Japan, Republic of Korea, Mexico, Morocco, the Netherlands, Norway, Peru, Poland, the Republic of South Africa, Spain, Sweden, Tunisia, the Union of Soviet Socialist Republics, the United Kingdom, the United States of America, Yugoslavia and Zambia.

#### **OBSERVATIONS**

- 105. From the examination of world trade flows in lead and lead products and the tariff and non-tariff treatment under which this trade takes place, the following observations can be made:
  - (a) trade in lead takes place in five product groups: lead ores and concentrates; unwrought lead; wrought lead; lead chemicals; and finished manufactures of lead.

Imports of lead into fifteen developed-country markets were as follows: (1984 for Austria, the EEC, Finland, Hungary, Japan, Norway, Portugal, Spain, Sweden, Switzerland and the United States, 1984/85 for Australia, 1983/84 for New Zealand, 1985 for Canada and Iceland):

(In US\$'000)

363,125 (38.6 per cent) as ores and concentrates;

452,512 (48.0 per cent) as unwrought metal;

12,770 (1.4 per cent) as wrought metal products;

23,988 (2.6 per cent) as lead chemicals:

89,667 (9.5 per cent) as finished manufactures.

Imports into developing-country markets were as follows: (1981 for the Philippines and Turkey, 1982 for Argentina and Peru, 1983 for Brazil, Colombia, Israel, Thailand, 1984 for India, Morocco, Malaysia and Yugoslavia, 1985 for Hong Kong, Korea, Republic of, Mexico and Singapore, 1981/82 for India):

(In US\$'000)

6,393 (5.2 per cent) as ores and concentrates;

92,803 (76.2 per cent) as unwrought metal;

7,181 (5.9 per cnet) as wrought metal products;

9,477 (7.8 per cent) as lead chemicals; and

5,966 (4.9 per cent) as finished manufactures;

(b) in developed countries most of the m.f.n. rates on lead and lead products are bound. The exception to this is Australia (only ex 28.30.900 has a ceiling binding) and CCCN 78.01.001 and 78.02.001 in the tariff of New Zealand. Ceiling bindings apply to the tariff lines 32.900.01, 33.600.01 and 34.405.01 in Canada, to CCCN 78.06.000 in New Zealand and TSUS 624.02, 624.03, 473.52 and 473.56 in the United States. Tariff lines CCCN 78.03.000, 78.04.001 and 78.05.000 are only partially bound

in New Zealand. The majority of the positive rates were reduced in the Tokyo Round. The tariff cuts varied according to products and countries and were between 10 per cent and 55 per cent. In general, tariff cuts were deeper on products which were facing higher nominal rates of duty. However, some importing countries made no or modest reductions on unwrought lead (notably refined lead and lead alloys, lead powders and

flakes), which along with ores and concentrates, account for the bulk of world trade in lead:

- (c) for most lead products entering developed-country markets, the post-Tokyo Round m.f.n. tariffs range from zero to 45 per cent. Most positive m.f.n. rates are ad valorem and only Switzerland applies specific rates to all lead products. Specific rates are also applied by the United States to lead ores and concentrates and ash and residues (except TSUS 603.70) and to TSUS 612.12, while mixed rates are applied by Japan on unwrought lead;
- (d) all developing countries examined apply m.f.n. ad valorem rates of duty to lead and lead products. Their m.f.n. tariffs are unbound and range from duty free to 70 per cent, with the majority being between 5 per cent and 30 per cent. Hong Kong and Singapore grant m.f.n duty-free treatment to all lead products;
- (e) most developed countries and some developing countries accord m.f.n. duty-free treatment or low m.f.n. positive tariffs on lead ores and concentrates. M.f.n. nominal duties increase with higher stages of processing. In certain countries tariff protection starts already beyond the mining stage, while in other countries, m.f.n. rates are higher on lead semi-manufactures mainly lead chemicals, or manufactures. However, it can be assumed that most countries accord the most important tariff protection on imports of unwrought lead. As indicated in TAR/W/29 of June 1982 where nominal tariffs show escalation at successive processing stages, simple calculations of effective rates of protection yield estimates that are higher than nominal tariffs themselves;
- (f) all developed countries grant duty free or preferential rates under their GSP schems to most lead products subject to m.f.n. dutiable rates. The exception to this are imports of unwrought lead in the EEC where duty-free treatment is applied only to imports from least-developed countries, ACP countries and Yugoslavia; imports of unwrought alloyed lead in Japan, and imports of lead manufactures in Australia. The United States

does not grant GSP treatment on unwrought alloyed lead and in certain cases applies competitive needs provisions. (In 1984, Mexico was excluded from duty-free treatment on TSUS 473.52 and TSUS 473.56);

(g) most developed countries also grant duty free or preferential rates on most dutiable m.f.n. rates under other regional agreements (Japan excepted). Preferential treatment is also

granted by some developing countries under bilateral or regional agreements;

- (h) in addition to tariff protection, some countries, both developed and developing, soply non-tariff measures such as prohibitions, licensing, quotas, quantitative restrictions taxes to imports and exports of certain lead products. There also exist other measures of a general nature in the form of government procurement, governmental and intergovernmental grants and loans, fiscal measures, research assistance, etc.;
- (i) at present, most of the international trade in lead takes place in the form of lead ores and concentrates and unwrought lead. Lead ores and concentrates are mainly imported by countries which have an important smelting capacity and insufficient domestic mine production. Often, these countries are exporters of lead products of higher stages of processing while primary producers, generally, do not appear among suppliers. Trade in lead semi- manufactures (lead oxides excepted) and manufactures is less important and takes place mostly within the same geographic region and under preferential arrangements. Major suppliers of lead semi-manufactures and manufactures are developed countries. Imports of semi-finished and finished products from developing countries under GSP are nil or very low.

106. A number of other metals, notably zinc, copper, cadmium, indium, garmanium, gallium and silver are commonly produced in association with lead and their recovery and sale have a bearing on the commercial viability of some lead operations. This study has not considered the impact that trade barriers applicable to these by-product and co-product metals might have on the structure and pattern of trade in lead and lead products.

ME OF PRO-TION AND AND PAST-SAID MADE THAT INTERIOR APPLICATION CAN AN ANTICAL TRANSF

CECE	Product decomposion	AMERICA AMERICA		REA	C1000A*	
		Pro-Mili	Post-IIII	Pro-ME	Post-III)	Pro-MEI Post-MEI
oc 2001	Lood one and emportrosse	Free	Pres <sup>1</sup> OSP: Pres	Proc	Pres (3)	Proc (not 4.05(b) (applied bound) cotor Proc GPT: Proc GPT: Proc (ot 3200-1)
es 2003	Ash and reciduse of lead	Free	Pres <sup>2</sup> COF: Pres	Pres	Pres (8)	Proc Proc(8) GSP: Proc (ex 46105-1)
2627	Lood emidees	7.52	Pros <sup>2</sup> GSP: Pros	16.82 GSP: 7.82	152 (B) GSP: 7.52	15E 12.1E (8) GSP: Proc GSP: Proc (92827-1)
	red lead and erange lead		•			12.3E 11.02 (B) GGP: Free GGP: Free (92027-2)
ez 2630	Ouychlorides and hydro- chlorides of lend	7.92 GSP: Pres	Free <sup>2</sup> CSP: Free	Proc	Free (8)	15E 12.5E (B) GSP: IOE GSP: Free (ex 92638-1)
om 2635	Sulphides of lead	7.58	Pros <sup>2</sup> CSP: Pros	Free	Free (8)	15E 3.6E (9) CSP: 10E GDP: Pree (ox 92035-1)
ox 2436	Sulphaton of Lond	158	Proc <sup>1,2</sup> CSP: Prec	162 GSP: 5.52	81 (6) GSP: 41	15E 9.2E (8) GSP: Frei GSP: Free (on 92636-1)
	Mitrotog of load	<b>6</b> I	Free <sup>1,2</sup>	Tree GSF: Free	Pres (3)	15E 12.5E (B) CSP: Free GSP: Free (on 92839-1)
	Corbonete of lead	198	Free	19.62 GSP: 6.52	92 (B) GSP: 4.52	15E Pree (8) GSP: Pree (ex 92842-1)
	Arsenate of load	191	IOZ GSP: Free	Proc	Frae (B)	15E Free (8) GSP: Free (ex 92841-1)
ez 7 <b>30</b> 1	Sevrought land	From (.100 Un- nlloyed lead 35% and 80.064 per kg. (.900 Other)	Free <sup>2</sup> GSP: Free	52 GSP: 2.22 (Leed-tim ali 52 min. \$40/100tgs. GSP: 2.22	4E (B) GSP: 2E leye) 4E min. 528/100kge. <sup>3</sup> (B) GSP: 2E min.\$14/100kge. Other)	102 7.4% (B) GSP: Free GSP: Free (** 34100-1 - Astimatis lead lead in blocks) 17.5% 12.0% (B) GSP: 11.5% GSP: Free (** 33900-1 - Athers - ** alloyed)
		_				Free Free (B) (ex 33700-1 - Unvrought unalloyed lead)
o≡ 7801	Vaste and scrap of land	Fsee	Fron <sup>2</sup> GSP: Free	Fcee	Free (B)	Free (B) (33700-1)
	Vrought bare, rade, ongles, chapes and sections of load	35E \$0.044/kg.	Free <sup>1</sup> GSF: Free	10% CSP: 3.7%	62 (8) GSP: 3X	5E 6.3E (B) GSP: 3E GSP: 2.5E (GE 33800-1 - Unelleyed)
	Wrought plates, shorts, strips, of lead	551	Pres 1,2 GSP: Free	128 GSP: 4.4 <b>8</b>	7% (B) GSP: 3.5g	See above: (ex33800-i - Sheets, etrips)
7804	load fell, of a weight per n not exceeding	)7.5 <b>x</b> } }	)Fzer <sup>2</sup> )GS: 4 Fzee ) ) )	)18t )GSP: 5.8t )	)81 (9) )63P: 41	From From (B) GSY: From (ex 39600-1 - Ton load) 17.52 From (B) GSP: From
	Leed powder and flakes	) ) ) ) )		) ) ) ) )	) ) ) )	(3405-1 - Composition fell) 32
	Tubes and pipes and blanks therefor, of lead:	}	Free <sup>1,2</sup>  GSP: Free 	)122 )GSP: 4.42 )	)7E (8) )GSP: 3.5 )	12.5% 9.1% (B) CSP: 7.5% CSP: 6% (em 40121-2)
	Hollow bere, and 5, be and pipe fittings of load	}		}	}	
7806	Other articles of lead	558	30X1	152 GSP: 5.32 (Lead w 172 GSP: 5.72	GSP: 42 eol) 82 (8) GSP: 42	17.5% 11.02 (B) GSP: 10% GSP: Free (ex 33910-1)
لہل	under by-low, may be subject			(Other)		

Pres under by-low, may be subject to 2 per cent revenue duty. Revenue duty.

<sup>3</sup>Missed rates

Pies for the

The ffgures in perenthesis represent Canadian momenclature tariff lines, based on the concordence with the CCCH indicated by the Canadian authorities.

COCE	Product description		<b>*</b> :	700	<b>W</b>	J	AS AS
		Pro-HER	Post-MT	Pro-HEH	Post-MTH	720-4035	Post-HTH
ne 2001	Lead are and emeastrates	Proc	Pres (8)	Proc	Free (B)	Proo	Proc (B)
na 2603	Ash and recidence of load	7200	Proc (B)	Pres	Free (B)	Pres	Free (B)
2827	Lood exides:	)12.2% )GSP: Free	)10.5% (B) )GSP: Free	)5% )08Pr Pres	)3.8% (8) )GSP: Pree	5% GSP: Pres	3.7% (B) GSP: Free
	red look and oreagn lood	3	;	5	,	142 GSP: Free	71 GSP: Free
-c 3030	Oxychiorides and hydro- chi.rides of lead	4.0% GSP: Free	3.2% (B) GSP: Free	Free	Free (B)	7.52 GSP: Pres	4.9% (B) GSP: Free
na 2035	Sulphides of lead	LZE GSP: Free	6.9% (B) GST: Free	Free	Free (B)	SX GSP: Free	3.7E (B) GSP: Free
nc 2630	Sulphates of load	6.4% GSP: Free	4.6% (B) GSF: Free	Free	Free (B)	7.5% GSP: Free	4.9% (B) GSP: Free
ax 2839	Mitrates of lead	12E GSP: Free	6.9% (B) GSP: Free	Free	free (3)	7.52 GSP: Free	4.9% (B) GSP: Free
ex 2842	Carbonate of load	8.82 GSP: Free	8.0% (E) GSP: Free	7.52	12 <sup>1</sup> (C)	14% GSP: Free	7% (B) GSP: Proc
EX 2848	Aronnate of lend	9,6% GSP: Free	6% (B) GSP: Free	Free	Free (B)	10% GSP: Free	5.8% (B) GSP: Free
7801	Umrought load	0.02% or mo of silver ( 3.5%	Free (B) g, containing re by weight bullion lead)) 3.52 (B) ther)	Free	Free (5)	custous duty valved under Y 8/kg. valued over ' (Unalloyed: 12% or Y 8/kg. WIG 2A Alloyed - 7% or Y 8/kg. WIG 2B Alloyed -	the value for ) x 1/2 Y .58/kg.  7 58/kg.  7 58/kg.  7 58/kg.  8 55% or Y 5.30/kg. UTG cost. entimosy  4.7% or Y 8/kg. WIG(B)
7801	Waste and scrap of lead	Free	free (B)	Tree	Free (B)	SZ GSP: Free	3.2% (B) GSP: Free
7802	Wrought bare, rode, angles, chapes and sections of lead: lead wire	)10% )GSP: Free ) )	)GE (B) )GSP: Tree ) )	) ix ) )	)Free (B) ) ) ) )	)10% )GSP: Free ) )	)5.0% (B) )GSP: Free ) )
7803	Wrought plates, sheets, etrips, of lead	10% GSP: Free	SZ (B) GSP: Free	0.62 12	)Free (3)	20% GSP: Free	8.2% (B- GSP: Free
7804	Load feil, of a weight per m not exceeding 1700g:	10Z GSP: Free	82 (B) GSP: Free	2.52	Free (3)	)12% )GSF: Free )	)5.5% (B) )GSP: Free )
	lead powder and flakes	2.5% GSP: Free	2.2% (%) GSP: Free	Pree GSP: Free	Free (3)	}	;
7805	Tubes and pipes and blanks therefor, of lead:	)liž   GSP: Free 	)9% (B) )GSP: Frae )	)II )GSP: Free )	)Frac (B)	20% GSP: Free	8.2% (B) GSP: Free
	hellow bers, and tube and pipe fittings of lead	3	3	3	3	15I GSP: Free	7.2% (B) GSP: Free
7806	Other arricles of lead	62 GSP: Free (Containers v radiation co 8.52 GSP: Free		0.5% CSP: Free (.010 Lend : 7.5% CSP: Free (.090 Ot	Free (B)  rope and wool)  5.12 (B)  GSP: Free ther -)	10Z 7SP: Free	5.8% (B) GSP: Free

Rate applied in 1984: Free.

2 Goods in Chapter 28 and unwrought lead (CCCN 78.01.01) are subject to ceiling quotas under the GSP.

	Product description	HEN STALLED		MANALY Y		SHOOL	
		Ppo-16701	Post-HEW	700-HEH	Post-HER	Pro-IEN	Peot-Misi
a 2601	Lood ore and sensentrates	Tree	Free (B)	Free	Pros (3)	Proc	Pres (3)
æ 2603	Ash and residues of load	Proc	Free (B)	Free	Fron (S)	Proc	Free (B)
2827	Lood exiden:	Pres	Proc (B - except red red)	Free	Free (B)	Free	Pres (B)
x 2030	Ouychlorides and hydro- chlorides of load	Pros	Free (B)	Free	Free (8)	Proc	Proc (8)
x 2835	Sulphides of lead	Free	Free (B)	Free	Free (B)	Free	Free (B)
× 2838	Sulphates of lead	Pres	Free (B)	Free	Free (B)	Free	Free (B)
x 2839	Mitrates of lead	Tree	Free (B)	Free	Free (B)	free	Free (B)
z 2842	Carbonate of load	Free	free (B)	free	Free (B)	free	Free (B)
x 2848	Armenate of load	Free	Free (B)	free	Tree (B)	9.02	Free (B)
æ 7801	Unwrought lead	15\$	5% (001-Solder) 009 - Unrefix excl. lead al	ed, refined,	Free (B)	Proc	Free (B)
x 7801	Waste and scrap of load	Free	Free (B)	Free	Free (B)	Free	Free (B)
7802	Mrought bars, rods, angles, shapes and sections of lead; solder lead wire	15% 32.5%, 15%	15% GSP: 10% 5% (B-except solder) GSP: Free	Free ) ) ) ) ) ) )	Free (B) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	Free ) ) ) ) ) )	Fres (B) ) ) ) ) )
7803	Wrought plates, sheets,	50% 5% (001 worked) 5% (009 other tha	25% (B) GSP: 15% 25% GSP: 15% a worked)	Frue	Free (8)	Free	Free (B)
7804	Lead foil, of a wight per m not exceeding 1700g:	30%, 5%, Free	51 (B-except solder) GSP:Free	5 <b>X</b>	3.8% (B) )	Free ) ) )	Free (3) )
	lead powder and flakes	Free	Free (B)	Free	Free (B)		
7805	Tubes and pipes and blanks therefor, of lead:	32.5% \$2.38/100 kgs. (0.7%)	52 (partially bound-bends)	Free	)Free (B)	Free	Free (B)
	hollow bars, and tube and fittings of lead		GSP: Free		}		
7806	Other articles of lead	30 <b>2</b>	50% (C) (applied rate in 1984: 35%) GSP: 25%	4% GSP: Free	Free (B) rivet burre) 2% (B) GSP: Free Other)	SZ GSP: Free (001 - Centa; Free (002 Lead wee 4Z GSP: Free (009 0	Free (B) 1, ropes) 3.2% (B) GSP: Free

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CCCM	Product description	MTTERLAND			
		Pro-IEEE	Poet-IIII		
3691.4090	Load are and concentrates	Free	Free (B)		
ex 2603.0100	Ash and residues of load	Tree	Free (3)		
2827.1000 .2000	Lead exiden:	Sw7 2,40/100 kgs. (0.4%)	Sef 2.30/100 kgs. (0.62) (8)		
	red load and erange load	Sv7 9/100 kgs. (0.7%) GSF: Free	Suf 8/100 kgs. (0.6%) (8) GSP: Pres		
ez 2839,4000 .8000	Oxychlorides and hydrochlorides of lood	SwF 2,20/100 kgs. (0.1%) GSP: Free	SvF 2.20/100 kgs. (0.1%) (8) GSP: Free		
em 2835.2000	Sulphides of lead	SwF 0.50/100 kgs. (0.1%) GSP: Free	SwF 0.50/100 kgs. (0.1%) (8) GSP: Free		
2838.5000	Sulphates of lead	SwF 0.40/100 kgs. (0.1%) GSP: Free	SwF 0.40/100 kgs. (0.2%) (8) GSP: Free		
2839.4000	Nitrates of lead	SwF 6.00/100 kgs. (1.7%) GSP: Free	SwF 6.00/100 kgs. (1.72) (B) GSP: Free		
2842.3000	Carbonate of load	Sw7 10.00/100 kgs. (0.3%) GSP: Free	SwF 9.00/100 kgs. (0.3%) (8) GSP: Free		
ex 2848.1000	Arsenate of lead	SwF 1.50/100 kgs. (0.1%) GSP: Free	SwF 1.50/100 kgs. /0.1%) (B) GSP: Free		
ex 7801	Unwrought lead	SwF 0.20/100 kgs. (0.2%) GSP: Free	SwF 0.20/100 kgs. (0.2%) (8) GSP: Free		
ex 7 <b>8</b> 01	Waste and actap of lead	Sur 0.20/100 kgs. (0.2%) GSP: Free	SwF 0.20/100 kgs. (0.2%) (8) GSP: Free		
7802	Wrought bars, rods, angles, shapes and sections of lead; lead wire	SwF 9/100 kgs. (1.0%) GSP: Free	SwF 8/100 kgs. (0.8%) (B) GSP: Free		
7803	Wrought plates, sheets	SwF 6/100 kgs. (0.2%) GSP: Free	SwF 5/100 kgs. (0.2%) (8) GSP: Free		
7804	Lead foil, of a weight per m not exceeding 1700g:	SwF 25/100 kgs. (2.3%) GSP: Free	SwF 21/100 kgs. (1.9%) (8) GSP: Free		
	lead powder and flakes	SwF 2/100 kgs. /0.22) GSP: Free	SwF 2/100 kgs. (0.2%) (B) GSP: Free		
7805	Tubes and pipes and blanks therefor, or lead:	SwF 8/100 kgs. (4.0%) GSP: Free	SwF 6/100 kgs. (3.0%) (8) GSP: Free		
:	hollow bars, and tube and pips fittings of lead	5wF 14/100 kgs. (0.3%) GSF: Free	SwF 12/100 kgs. (0.3%) (8) GSF: Free		
7806	Other articles of lead	SwF 12/100 kgs. (0.1%) GSP: Free	SWF 11/100 kgs. (0.1%) (B) GSP: Free industrial purpose)		
		SwF 24/100 kgs. (0.4%)			
		GSP: Free	SwF 23/100 kgs. (0.42) (8) GSF: Free or packing)		
		SwF 11/100 kgs. (1.5%)	SwF 10/100 kgs. (1.4%) (8)		
		GSP: Free	GSP: Free :les unworked)		
		SwF 12/100 kgs. (1.5%) GSP: Free (Other artic	SwF 10/100 kgs. (1.2%) (B) GSP: Free :les machined)		
		SwF 24/100 kgs. (1.0%) GSP: Free	SwF 20/100 kgs. (0.9) (B) SSP: Free swrface treated)		

The figures in parenthesis represent ad valores incidence based on 1984 import prices.

	Product description	WITH	WITHD STATES		
		Pro-Mil	Peet-KIW		
on 2601	Load ove and concentrates	0.75e/lb on lead content (5.9%) (8) GSP: Free (602.10 All lead-	0.75c/lb on load content (5.92) (B) OSP: Free -bearing orns)		
ez 2603	Ash and residues of load	1,065c/1b on load sestent (5,7%) (B) (603,25 Load	0.9z/1b on load content (4.9%) (B) dross)		
		Free (603.65 Other metal-	Free (B) searing materials)		
	·	lc/lb on copper content + 0.75c/lb on load content + 0.67c/lb on size convent (0.4%) (8) (803,49 Other metal-h			
		3.8c/lb on copper content   + 0.75c/lb on lead content   + 0.67c/lb on sinc content (1.0%) (8)   (603.50 - 0			
		lc/lb on copper content + 0.75c/lb on lead content + 9.67c/lb on sinc content (0.1%) (B) (603.54 - 0			
		9.52 (603.70 - 0	52 (B) Other)		
2627	Lead oxides	1.2% (B) GSP: Free (473,46 - Leaded mine exide not on 4.3% (B)	1.2% (B) GSP: Free ver 25% lead by weight, dry) 4.3% (B)		
		GSP: Free (473.48 - Leaded Finc oxide not over 10% (8) GSP: Free	GSP: Free		
		(473.50 - Leaded zinc oxider of 15% (9) (473.58 (1.875c/1b /8.6%) (8)	15% (B) - Sub-oxide) 8.6% (B)		
		1c/1b (2.8%) (B)			
ex 2830	Oxychlorides and hydro-	GSP: Free (all) 1.25c/lb (6%) (8)	GSP: Free (all) 6% (C) - Licharge)		
	chlorides of lead	GSP: Free	GSP: Free		
ex 2838	Sulphates of lead	10% (B) GS7: Free (473.62	10% (B) GSP: Free - White lead)		
ex 2839	Mitrates of lead	7,5% (B) GSP: Free	1.9% (B) GSP: Free		
ex 2842	Carbonate of load	1.47 (3) GSP: Free (473.60 - Whit	0.5% (B) GSP: Proc to lead basic carbonate)		
ex 2848	Arcenate of load	5% (B) GSP: Free (419.00	3.7% (8) GSP: Pron - Argentze)		
ex 2914	Load acetate	1.3% (B) GSP: Free (426.36 -	1.1% (B) GSP: Proc Lend acetate)		
ex 2915	Organic salts	7,5% (B) GSP: Free (426,44 - Organic lead salts)	4.9% (B) GSP: Free other than resinate and acctate)		
ex 3207	Piguents	10% (B) GSP: Free	5.82 (B) GSP: Free ue lead sublimed)		
ex 3800	Resinates	37 (E) CSF: Free	2.5% (3) GSP: Free Lead resinate)		

COCE	Product description	UNITED 6	TATES (cont'd.)
		Pro-MIN	Poet-IIII
ex 7901	Unwrought load	1.0625c/lb (5.2%)  GCP: Free 1.0625c/lb (5.2%)  (624.00 - Le	GSP: Free 42 (C)
ex 7801	Maste and scrap of lead	1.0625c/1b on 99.6% of lead content (5.8%) (8) (624.0	2.3% (B) 4) GSP: Free
7802	Wrought bars, rods, angles, shapes and sections of lead; lead wire	1.3125c/lb (1.3%) (B) (624.30 - 1.5c/lb (11.4%) (B) (624.32 - Bars etc. value 11.25% (B) (624.34 - Bars etc. val GSP: Free (all)	1.2% (B) Wire) 6.3% (B) d not over 13.1/3e/1b) 6.2% (B)
7803	Wrought plates, cheets,	5.5% (B) (624.20 - Strips, valued 0.75c/lb (3%) (B)	3X (B) not clad, alloyed) 3.9X (B) alloyed, valued over 13.1/3c/lb) 6.5X (B)
7804	Lead foil, of a weight per m not exceeding 1700g:	0.75c/lb (7%) (8) (644.17 - Yoil not cut to shape 5.5% (8) (644.18 - Foil, not cut to shap 5.5% (8) (644.28 - Foil c	3.9% (B) e, valued over 13.1/3c/1b) 2.2% (B)
	lead powder and flakes	1.5c/lb (11.9%) (624.40 - Lead powder, flakes, 11.15% (11.15%) (B) (624.42 - Lead powder, flakes GSP: Free (all)	11.17 (8)
7805	Tubes and pipes and blanks therefor, of lead:	1.3125c/1b (2.62) (8) (624.50 - Pipes,	2Z (B) unalloyed)
	hollow bars, and tube and	0.75c/lb (6%) (8) (624.52 - Pipes, alloyed, va 5.5% (8) (624.54 - Pipes, alloye GSP: Free (all)	3.9% (B)
7806	Other articles of lead	8.5Z (a) (654.20 - Househ 5Z (b) (ex 640.30 - Con 6Z (b) (ex 640.40 - Collap C.75c/lb (0.6Z) (b) (657.70 - Articles of lead, v 5.5Z (b) (657.75 - Articles of lead, GSP: Free (all)	Free (B) teiners) 2.42 (B) sible tubes) 0.62 (B) alue not over 13.1/3c/lb) 3.92 (B)

Hexico is excluded from the GSP duty-free treatment on the TSUS 473.52 and 473.56 in 1986/87.

The figures in parenthesis represent ad valorem incidence based on 1984 import prices.

The figures in parenthesis below tariff rates indicate TSUS concordence with the CCCN.

<sup>(</sup>B) - Bound rates, Geneva (1979) Protocol to the GATT.

<sup>(</sup>C) - Ceiling binding.

#### ANNEX II

# THE HARMONIZED SYSTEM OF COMMODITY DESCRIPTION AND CLASSIFICATION

# CHAPTER 26 - ORES, SLAG AND ASH

- 1. For the purposes of headings Nos. 26.01 to 26.17, the term "ores" means minerals of mineralogical species actually used in the metallurgical industry for the extraction of mercury, of the metals of heading No. 28.44 or of the metals of Section XIV or XV, even if they are intended for non-metallurgical purposes. Headings Nos. 26.01 to 26.17 do not, however, include minerals which have been submitted to processes not normal to the metallurgical industry.
- 2. Heading No. 26.20 applies only to ash and residues of a kind used in industry either for the extraction of metals or as a basis for the manufacture of chemical compounds of metals.

Heading Number	H.S. <sup>1</sup> Code	
26.07	2607.00	Ash and residues (other than from the manufacture of iron or steel), containing metals or metallic compounds.

# CHAPTER 28

# INORGANIC CHEMICALS; ORGANIC OR INORGANIC COMPOUNDS OF PRECIOUS METALS, OF RARE-EARTH METALS, OF RADIOACTIVE ELEMENTS OR OF ISOTOPES

Heading Number	H.S. Code	
	· · · · · · · · · · · · · · · · · · ·	I Chemical elements
28.24	2824.10 2824.20 2824.90	Lead oxides; red lead and orange lead  - Lead monoxide (litharge, massicot)  - Red lead and orange lead  - Other
28.27		Clorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides
28.30	2827.39	- other <u>Sulphides; polysulphides</u> - other
28.33	2833.29	Sulphates; alums; peroxosulphates (persulphates) - other

Heading Number	H.S. Code	
28.34		Nitrates; nitrates
28.36	2836.70	Carbonates; peroxocarbonates  (percarbonates); commercial  ammonium carbonate containing  ammonium carbamate.  - lesi carbonate
28.41	2841.20	Salts of exemetallic or  peroxometallic acids  - chromates of zinc or of lead

#### CHAPTER 78

#### LEAD AND ARTICLES THEREOF

1. In this Chapter the following expressions have the meanings hereby assigned to them:

# (a) Bars and rods

Rolled, extruded, drawn or forged products, not in coils, which have a uniform solid cross-section along their whole length in the shape of circles, ovals, rectangles (including squares), equilateral triangles or regular convex polygons (including "flattened circles" and "modified rectangles", of which two

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opposite sides are convex arcs, the other two sides being straight, of equal length and parallel). Products with a rectangular (including square), triangular or polygonal cross-section may have corners rounded along their whole length. The thickness of such products which have a rectangular (including "modified rectangular") cross-section exceeds one-tenth of the width. The expression also covers cast or sintered products, of the same forms and dimensions, which have been subsequently worked after production (otherwise than by simple trimming or de-scaling), provided that they have not thereby assumed the character of articles or products of other headings.

# (b) Profiles

Rolled, extruded, drawn, forged or formed products, coiled or not, of a uniform cross-section along their whole length, which do not conform to any of the definitions of bars, rods, wire, plates, sheets, strip, foil, tubes or pipes. The expression also covers cast or sintered products, of the same forms, which have been subsequently worked after production (otherwise than by simple trimming or de-scaling), provided that they have not thereby assumed the character of articles or products of other headings.

# (c) Wire

Rolled, extruded or drawn products, in coils, which have a uniform solid cross-section along their whole length in the shape of circles, ovals, rectangles (including squares), equilateral triangles or regular convex polygons (including "flattened circles" and "modified rectangles", of which two opposite sides are convex arcs, the other two sides being straight, of equal length and parallel). Products with a rectangular (including square), triangular or polygonal cross-section may have corners rounded along their whole length. The thickness of such products which have a rectangular (including "modified rectangular") cross-section exceeds one-tenth of the width.

# (d) Plates, sheets, strip and foil

Flat-surfaced products (other than the unwrought products of heading No. 78.01), coiled or not, of solid rectangular (other than square) cross-section with or without rounded corners (including "modified rectangles" of which two opposite sides are convex arcs, the other two sides being straight, of equal length and parallel) of a uniform thickness, which are:

- of rectangular (including square) shape with a thickness not exceeding one-tenth of the width;
- of a shape other than rectangular or square, of any size provided that they do not assume the character of articles or products of other headings.

Heading No. 78.04 applies, inter alia, to plates, sheets, strip and foil with patterns (for example, grooves, ribs, chequers, tears, buttons, lozenges) and to such products which have been perforated, corrugated, polished or coated, provided that they do not thereby assume the character of articles or products of other headings.

# (e) Tubes and pipes

coiled Hollow products. or not, which have a cross-section with only one enclosed void along their whole length in the shape of circles, ovals, rectangles (including squares), equilateral triangles or regular convex polygons, and which have a uniform wall thickness. Products with a rectangular (including square), equilateral triangular or regular convex polygonal cross-section, which may have corners rounded along their whole length, are also to be considered as tubes and pipes provided the inner and outer cross-sections are concentric and have the same form and orientation. Tubes and pipes of the foregoing cross-sections may be polished, coated, bent, threaded, drilled, waisted, expanded, cone-shaped or fitted with flanges. collars or rings.

# Sub-heading note

1. In this chapter the expression "refined lead" means:

Metal containing by weight at least 99.9 per cent of lead, provided that the content by weight of any other element does not exceed the limit specified in the following table:

Other Elements

Ag	Silver	0.02
As	Arsenic	0.005
Bi	Bismuth	0.05
Ca	Calcium	0,002
Cd	Cadmium	0.002
Cu	Copper	0.08
Fe	Iron	0.002
S	Sulphur	0.002
Sb	Antimony	0.005
Sn	Tin	0.005
Zn	Zinc	0.002
Other	(for example To	a),
	each	0.001

Heading Number	H.S. Code	
78.01		Unwrought lead
·	7801.10	- Refined lead - Other:
	7801.91	- Containing by weight antimony as the principal other element
	7801.99	- Other
78.02	7802.00	Lead waste and scrap
78.03	7803.00	Lead bars, rods, profiles and wire
78.04		Lead plates, sheets, strip and foil; lead powders and flakes
	7804.11	- Plates, sheets, strip and foil: - Sheets, strip and foil of a thickness (excluding any backing) not exceeding 0.2 mm
	7804.19	- Other
	7804.20	- Powders and flakes
<u>78.05</u>	7805.00	Lead tubes, pipes and tube or pipe fittings (for example, couplings, elbows, sleeves)
78.06	7806.00	Other articles of lead

<sup>&</sup>lt;sup>1</sup>Harmonized System.