

HD
9235
•B4C2
1980



WORLD PULSES MARKET SURVEY



Government
of Canada

Gouvernement
du Canada

Industry, Trade
and Commerce

Industrie
et Commerce

WORLD PULSES MARKET SURVEY

Prepared by

AGRICULTURAL PRODUCTS DIVISION
AGRICULTURE, FISHERIES AND FOOD PRODUCTS BRANCH
DEPARTMENT OF INDUSTRY, TRADE AND COMMERCE
OTTAWA, CANADA

January 1980

FOREWORD

This is the third edition of the World Pulses Market Survey. The first edition was published in 1974, the second in 1975. The latter was a statistical update for use in conjunction with the original edition, while this edition is a more comprehensive report similar to the first edition. Work began on this edition in 1979 and the latest available data are for 1978.

The work of our statistician, Mrs. Erma Place, is gratefully acknowledged by the authors.

John B. Clapp
Ronald T. Miller

CONTENTS

	<u>Page</u>
Introduction	1
Table of Conversions and Abbreviations	2
Nomenclature	3
 World Production and Trade	 7
 NORTH AND CENTRAL AMERICA	 10
Canada	10
United States	17
Mexico	23
Guatemala	25
El Salvador	25
Honduras	25
Costa Rica	26
Nicaragua	26
Panama	26
Cuba	27
Puerto Rico	31
Trinidad and Tobago	34
 SOUTH AMERICA	 37
Argentina	38
Brazil	39
Chile	40
Colombia	42
Peru	46
Venezuela	47
 EUROPE	 48
France	48
The Netherlands	49
West Germany	58
Belgium-Luxembourg	67
Italy	72
United Kingdom	75
Ireland	87
Denmark	89
Sweden	92
Norway	96
Finland	97
Iceland	99
Austria	100
Switzerland	103
Portugal	107
Spain	114
Greece	116

CONTENTS (Continued)

	<u>Page</u>
Turkey	119
U.S.S.R.	124
Yugoslavia	125
Poland	127
Czechoslovakia	129
Hungary	130
Romania	131
MIDDLE EAST	132
Iran	132
Iraq	133
Israel	135
Syria	136
Lebanon	137
ASIA	138
India	138
Pakistan	139
Japan	142
Hong Kong	149
South Korea	153
Thailand	154
Malaysia	155
Singapore	159
People's Republic of China	160
Indonesia	161
Philippines	162
AFRICA	163
Morocco	163
Algeria	165
Egypt	166
Nigeria	167
Kenya	168
Ethiopia	169
AUSTRALASIA	170
Australia	170
New Zealand	174

INTRODUCTION

Pulses are defined as "the edible seeds of leguminous plants". The term comes from the Latin "puls" meaning pottage. Botanically the legume family is the second largest of all seed plants containing some 600 genera with 13,000 species.

The legume family is an important one for mankind economically. The roots of many species (peas, vetches, faba beans, etc.) have nodules inhabited by nitrogen-fixing bacteria. These bacteria convert free nitrogen from the air into a usable form for the plant, and surplus nitrogen is stored in the roots. The nitrogen is liberated when the roots decay, thus enriching soils and making these species most valuable in crop rotations. Clovers, alfalfas, trefoils, etc., are widely cultivated for animal feeding purposes as hay, pasture or silage. Some species are used as cover crops (cowpeas, Austrian winter peas) or as "green manure" (sweet clovers, etc.) for soil conservation or improvement. Certain varieties such as garden beans, tender peas and broad beans are favourite vegetables in many countries. The edible seeds (or pulses), usually allowed to dry naturally in the field before harvest, are an excellent source of protein and in many areas actually constitute chief sources of protein. Pulses are estimated to provide about 8 per cent of the world's protein supply in human food. Some pulses (vetches, lupines, some faba beans) are used mainly for animal feeding purposes.

This report deals largely with the pulses production and trade in the world. The coverage given to each country or group of countries varies greatly with the amount of information available, with the species of pulses grown or used locally, with the importance of the area in world trade or in trade (actual or potential) with Canada. In some cases details available are not included as they were not considered essential for the purpose of the report and in an effort to keep the report within reasonable length. In many other cases details are simply not available. It is recognized that data collected from various sources may vary in accuracy and comparisons may show discrepancies.

Statistics are in metric units except in some cases where other measurements are used for specific import duty rates. A conversion table is provided to translate data to other units.

Sources of information for this report include those of the Food and Agriculture Organization of the United Nations (FAO), United States Department of Agriculture (USDA), and other published material. The main source of information however has been reports from Canadian Trade Commissioners posted in foreign countries. Their contribution to and continued support of this publication is gratefully acknowledged.

TABLE OF CONVERSIONS

1 hectare (HA)	=	2.47 acres
1 tonne (metric ton)	=	2,205 lb. or approximately 22 cwt. or 36.75 bushels (dry beans and dry peas)

ABBREVIATIONS

HA	:	hectare
N/A	:	not available
CIF	:	cost-insurance-freight
C&F	:	cost and freight
FAO	:	Food and Agriculture Organization
EEC	:	European Economic Community
CET	:	Common External Tariff of the EEC

NOMENCLATURE

DRY BEANS

The general term "dry beans" includes various species of the genus *Phaseolus*, used nearly exclusively for food purposes.

Phaseolus vulgaris: the kidney bean group, also called haricot, French, snap or common bean. Specific types of commercial significance within the species are:

- pea bean (also navy, Michigan or small white) grown mainly in North America, East Africa (Ethiopia), and Eastern Europe. Favoured for canning purposes in Anglo-Saxon areas. Similarly shaped, but larger beans in Japan, etc.
- white kidney -- great northern group (also cannellini and Haricot), grown mainly in the Americas and the Mediterranean region, and the preferred white bean in continental Europe, Algeria, the Middle East and the Philippines.
- red kidney -- production and consumption restricted largely to the Americas and East Africa.
- pinto -- light brown spotted bean produced and consumed only in the Americas.
- cranberry (also romano and borlotti), another spotted bean (white or light-brown with red) popular in Italy, Spain and Latin America.
- black (including the turtle soup bean), popular in Brazil, Venezuela, Central America and the Caribbean.
- pink, grown in the United States and Latin America.
- yellow-eye (white with a brown spot), grown and eaten only in the U.S. and Canada.
- brown (with variations to yellows), grown mainly in Holland, Sweden and Angola, fairly popular throughout Scandinavia, in the Netherlands and in Surinam.

Phaseolus aureus (also *P. mungo*, *P. radiatus*, *Vigna mungo*), the mung bean group which includes many varieties of different colours. It is the main bean produced in Asia east of Pakistan and is also grown in East Africa. It is used boiled with rice or vegetables, in past production or for sprouting. The two best known commercial varieties are the green mung and the black matpe.

LATHYRUS PEA

Lathyrus sativus, also called chickling vetch, grown and consumed mostly in India, it thrives on poor soils and during drought conditions. A high consumption may produce the disease lathyrism.

LENTILS

Lens esculenta (also *Lens culinaris*, *Ervus lens*), sometimes referred to as flat peas, the main production areas are the same as for chick-peas except for Mexico. Europeans favour the large light-green type while the Middle East and India-Pakistan prefer the small red varieties eaten as split lentils.

LUPINES

Several species of the genus *Lupinus* are cultivated largely in the U.S.S.R., Poland, South Africa and Italy. New alkaloid-free varieties are largely responsible for renewed interest in this crop, basically for animal feeding (i.e., Australia).

FABA BEANS

Vicia faba major, broad bean, large faba bean

Vicia faba equina, horsebean, medium faba bean

Vicia faba minor, tick (tick) bean, small faba bean

This species is important in China, the Mediterranean region and parts of Latin America (broad beans) and in Europe (medium and small fabas). It is used as food and feed.

VETCHES

This group includes several species of the genus *Vicia* grown mainly for animal feeding (as green fodder or as pulses) in Eastern Europe, the Middle East and the Mediterranean region.

Phaseolus lunatus (also *P. limensis*), the lima or butter bean group. Other commercial names are the pole bean, the Madagascar and the Burma bean. It is popular in the Americas, Southern Africa and South East Asia (including Japan where it constitutes a large percentage of the white paste production).

Phaseolus angularis, azuki (adzuki, adsuki) beans. Grown and used almost exclusively in Chinese, Japanese and Korean areas, it is the major ingredient in red bean paste in Japan.

Phaseolus coccineus (also *P. multiflorus*), the scarlet runner bean group. Some white varieties are called "elephant" or "Soissons" beans.

Phaseolus calcaratus, pegin or bamboo bean of South East Asia.

Phaseolus aconitifolius, the moth bean, exclusive to India and Indonesia.

Phaseolus acutifolius, the tepary bean, grown and used in Central America and Southern Africa.

DRY PEAS

Pisum arvense (also *P. sativum*), includes many varieties of dry peas important to Europe, the U.S.S.R., China, India, etc. Food-quality dry green peas are a worldwide trade item.

PIGEON PEAS

Cajanus cajan (or *C. indicus*), basically an Indian crop, or some importance in East Africa as well.

CHICK-PEAS

Cicer arietinum, known as Begal gram in India and garbanzo in Spanish-speaking countries, this is a major pulse in Asia west of Burma, the Mediterranean area, Ethiopia and Mexico. The small-seeded types are preferred in Central Asia, while the Mediterranean peoples and latin Americans like the large-seeded garbanzos.

COWPEAS

Vigna unguiculata (also *V. sinensis*, *V. catjang*), a most important food crop in West and Central Africa, also grown in Asia, Brazil and the southern United States. Other common names are kaffir beans, blackeyed peas or blackeyed beans (i.e., Brazil, California). Trade of this item is limited.

BAMBARA

Voandzeia subterranea, also known as the Bambara groundnut, earth pea, kaffir pea, etc., this species now has been replaced largely by the peanut (*Arachis hypogaea*) or groundnut to which it is similar as the seeds mature underground. However, it is still important in parts in Western Africa.

Many other genera (*Bauhinia*, *Canavalia*, *Cassia*, *Dolichos*, *Leucaena*, *Parkia*, *Prosopis*, *Stizolium*, etc.) include species that are considered pulses. They may be cultivated or grow wild in various parts of the world, and are harvested as food or feed, often by the poorer classes or in times of famine. However, these species are minor in terms of production and are not a factor in world trade.

One major species which is better known as a source of oil and meal but which is utilized as a pulse in some markets is the soybean (*Glycine max*). In the Far East, soybeans are used to a limited extent in food preparations in the same way that dry beans are. In North America, small soybeans are an alternative to mung beans for sprouting purposes. Also, specially processed soybean meal is utilized more widely every year as a source of protein in human food preparations. However, this species is not covered in this report as it is not a major pulse item.

WORLD PRODUCTION AND TRADE

According to FAO's preliminary estimates, production and consumption of pulses increased significantly in 1978. Output is estimated to have reached nearly 51 million tonnes, 7 per cent above the level of 1977.

Pulse output sharply recovered in the U.S.S.R. where the 1977 harvest was 15 per cent below the long-term trend. Considerable gains were also reported from Brazil and Mexico, as well as from parts of India. China's production is also estimated to have increased. These five countries account for over two-thirds of the world's pulse supply and demand. Partly offsetting these increases are poor pea and lentil harvests in Argentina and Chile (owing to floods, hail and frosts) and drastically reduced pea and lentil production in the United States (owing to insufficient rains during the critical growing periods).

Globally, the area under pulses in 1978 increased by an estimated 3.5 per cent, and it is now half as great as the area under rice. The area expansion was widespread, including all developing regions with the exception of the Near East. About 80 per cent of the acreage under pulses is in developing countries with half in India and China.

The average global yield rose by more than 3 per cent and was the second best in this decade. The most significant yield increases were in the U.S.S.R., eastern Europe and Egypt, and part of western Europe, i.e., in areas where pulses are grown under irrigation or where better seeds and inputs for pest control are widely available.

Early indications of 1979 planting plans suggest that production might increase again this year, though not as sharply as last year. Increased output is expected in India where demand and prices are high and stocks are low, and where the government support-price for chick-peas has been raised again. Further production increases are also likely in China. Output is expected to increase in the U.S.S.R., where the per capita food use of pulses is declining while greater production of higher yielding feed grade pulses (particularly vetches and lupins) is encouraged. In Argentina, Chile and southern Brazil, where the 1978 crops were damaged, production would expand by over 5 per cent. In Colombia, Guatemala and Mexico, where support prices have been raised, the area under pulses could increase significantly. By contrast, a smaller area could be sown in the Near East, where some of the best land traditionally used for pulses has been converted to other food and fodder crops. Drought has also affected yields in the region.

Given a good crop in 1979, the volume of pulses consumed as animal feed could increase significantly. In 1978, an estimated one-quarter of all pulses was utilized as animal feed, chiefly in the U.S.S.R., western Europe, the Near East, and the largest producing countries. Nearly all vetches and lupins, a considerable proportion of dry broad beans and the "second grades" of food pulses are fed to animals. It is part of the agricultural policy in the U.S.S.R. and the EEC to assist feed-pulse production in order to reduce the feed industry's dependence on imported proteins.

World trade in pulses is now estimated at two million tonnes in 1978. Trade was less, partly because of the poor availability of such important traded items as chick-peas, peas and lentils following simultaneous bad harvests in the United States, Argentina and Chile, three major pulse-exporting countries. U.S. exports fell to their lowest levels in 20 years: peas to half, and lentils to a quarter of the previous five years' average volume. In contrast to chick-peas and lentils, many bean varieties were in ample supply. This was reflected in international prices: between January and December 1978, chick-pea prices nearly doubled and lentil prices rose by a third, while navy beans prices dropped by 40 per cent.

WORLD PRODUCTION OF PULSES

	<u>AREA</u> ('000 HA)				<u>VOLUME</u> (million tonnes)				<u>Change 1978 over 1977</u>
	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	
Dry beans	23,549	24,161	23,400	25,082	12.8	12.0	12.8	13.4	+ 4.3
Dry peas	10,576	10,450	10,364	10,239	10.5	13.5	12.2	13.9	+ 13.9
Dry broad beans	5,580	5,478	5,492	5,534	6.1	6.2	6.1	6.2	+ 1.6
Chick-peas	10,403	9,344	10,633	10,245	5.5	7.3	6.8	6.9	+ 1.5
Dry cow peas					1.4	1.4	1.3	1.3	-
Pigeon peas					2.0	2.2	1.9	2.0	+ 5.3
Lentils	1,771	1,879	1,920	1,970	1.1	1.2	1.2	1.2	-
Vetches					1.3	1.7	1.7	2.1	+ 23.5
Lupins					0.4	0.5	0.5	0.8	+ 60.0
Unspecified*	<u>17,763</u>	<u>16,637</u>	<u>17,120</u>	<u>17,127</u>	<u>3.2</u>	<u>3.4</u>	<u>3.1</u>	<u>3.1</u>	-
TOTALS	69,642	67,949	68,929	70,197	44.3	49.4	47.6	50.9	+ 6.9

* Areas sown to pigeon peas, cow peas, vetches, lupins, etc., included in "unspecified".

WORLD TRADE IN PULSES

	<u>QUANTITY</u> ('000 tonnes)				<u>VALUE</u> (U.S. \$ million)			
	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
Exports	1,701	1,811	1,908	1,953	670	652	686	761
Imports	1,694	1,877	1,887	1,937	753	797	764	898

NORTH AND CENTRAL AMERICA

Production FAO

	<u>Area</u> ('000 HA)				<u>Production</u> ('000 tonnes)			
	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
Dry beans	2,529	2,873	2,520	2,620	2,265	2,222	1,991	1,938
Dry peas	143	143	97	137	242	227	173	126
Broad beans, dry	78	69	79	75	43	47	53	49
Chick-peas	248	191	105	210	247	195	76	175
Lentils	38	45	59	60	44	49	64	65
Pulses unspecified	117	114	119	120	104	92	97	99

Trade FAO

	<u>1974</u>		<u>1975</u>		<u>1976</u>		<u>1977</u>	
	('000 tonnes)	(\$ '000)	('000 tonnes)	(\$ '000)	('000 tonnes)	(\$ '000)	('000 tonnes)	(\$ '000)
Exports	402	198,879	440	194,442	480	192,196	548	216,078
Imports	278	156,852	286	157,346	188	92,064	199	107,688

CANADA

Most of the growth in the Canadian pulse industry in recent years can be attributed to increased activity in Western Canada. Dry peas, lentils and coloured beans have all recorded significant increases in acreage. Production of fababeans also showed considerable strengths although it is estimated that half the current acreage continues to be used for silage.

White pea beans still account for over 50 per cent of Canadian pulse exports with over 60 per cent of the crop being exported. Peas increased their relative importance while lentil and fababean exports showed particular strength.

CANADA

	Area (HA)				Production (million tonnes)			
	<u>Average 1971-75</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>Average 1971-75</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Total Pulses</u>	96,000	91,000	105,000		139,000	134,000	165,000	
<u>Dry Beans</u>	67,400	66,600	72,500	59,919	-	90,709	39,916	73,936
White pea (Ont.)	60,300	59,000	64,000	64,000	81,000	87,000	41,000	77,000
Red kidney (Ont.)	5,600	5,600	6,000	6,500	9,000	9,000	10,000	11,000
Coloured beans (Alt.)	1,500	2,000	2,500	2,800	2,200	3,900	2,200	3,000
<u>Dry Peas</u>	30,400	24,300	34,000	40,000	46,691	42,600	55,000	74,000
Peas are grown mainly in Manitoba and Saskatchewan with home seed production occurring in Alberta.								
<u>Fababeans</u>								
Mainly Prairie Prov.	5,250	4,600	7,700 ¹	16,000 ¹	4,000	3,450	12,000	25,000
<u>Lentils</u>	350	300	2,200	8,000	310	255	1,800	6,800

¹ In 1978 8,000 hectares were grown for silage, mainly in Alberta and about 3,200 hectares in 1977.

CANADIAN EXPORTS

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>White pea beans (dried)</u>				
TOTALS	54,848	55,754	57,581	17,377
United Kingdom	39,008	48,418	44,954	9,323
Ireland	145	326	399	145
Austria	-	-	36	-
Belgium/Luxembourg	907	-	199	-
France	730	-	743	36
West Germany	870	-	290	-
Greece	27	-	-	-
Italy	341	-	160	-
The Netherlands	2,803	727	796	1,521
Norway	109	127	155	18
Spain	435	-	-	71
Sweden	90	36	109	-
Switzerland	72	18	109	-
Cyprus	46	-	-	-
Iran	-	-	-	21
Iraq	499	-	299	-
Somalia	-	-	-	640
Israel	218	-	-	-
Jordan	38	-	246	-
Yemen	379	272	182	190
Sudan	554	204	180	925
Turkey	-	244	-	-
Kenya	75	40	456	-
South Africa	150	257	-	763
Commonwealth Africa	25	15	-	-
Algeria	-	50	181	-
Angola	-	-	749	1,168
Zaire	14	-	-	-
French Africa, n.e.s.	14	18	-	-
Gabon	12	-	-	-
Guinea	50	-	-	94
Ivory Coast	70	30	-	30
Liberia	-	-	-	25
Mozambique	1,034	255	-	-
Portuguese Africa, n.e.s.	38	646	351	-
Senegal	176	-	-	17
Tunisia	130	883	-	1,040
Sri Lanka	-	50	-	-
India	-	-	-	135

(cont'd)

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Malaysia	36	381	635	399
Singapore	-	4	-	-
Indonesia	-	90	-	260
Japan	109	37	2,081	-
Philippines	4	3	13	-
Australia	1,034	71	-	-
New Zealand	-	472	1,670	-
Chile	-	-	182	-
Colombia	332	-	177	45
Ecuador	15	-	48	205
Peru	-	110	-	-
Venezuela	-	-	157	-
Barbados	9	10	-	15
Jamaica	43	-	20	36
Leeward/Windward Islands	147	-	-	-
Trinidad and Tobago	234	141	173	10
Costa Rica	-	60	-	-
Cuba	508	-	-	-
El Salvador	-	140	-	-
French West Indies	45	18	-	-
Guatemala	-	-	30	-
Haiti	-	38	30	51
Honduras	2,903	-	150	170
Mexico	-	-	750	-
Panama	-	-	12	-
United States	364	1,557	895	21
<u>Beans, (dried) n.e.s.</u>				
TOTALS	9,755	9,422	13,475	14,337
United Kingdom	759	1,656	299	277
Ireland	-	-	-	471
Austria	-	-	36	-
Belgium/Luxembourg	50	-	290	218
France	109	36	73	-
West Germany	18	-	-	-
Italy	388	329	811	654
Netherlands	199	236	290	714
Norway	-	-	80	-
Portugal	-	-	-	18
Spain	-	-	-	36
Sweden	199	200	223	91
Switzerland	18	-	-	129
Bahrain	-	-	-	2
Cyprus	108	-	-	-
Kuwait	-	-	-	3
Israel	108	-	-	435
Egyptian Arab Republic	-	-	-	4,653
South Africa	50	-	-	109
Commonwealth Africa, n.e.s.	-	-	-	100
Algeria	-	-	182	-

(cont'd)

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Zaire	-	-	-	45
Ivory Coast	-	-	20	-
Portuguese Africa, n.e.s.	-	73	-	-
Hong Kong	-	-	-	54
Malaysia	-	-	18	-
Japan	1,123	1,497	2,642	2,439
Australia	9	109	54	54
Philippines	-	-	-	1
Taiwan	-	-	-	72
New Zealand	-	163	-	-
Colombia	-	-	828	-
Peru	-	-	30	-
Venezuela	106	-	446	40
Barbados	-	2	-	-
Jamaica	1,557	1,240	306	18
Leeward/Windward Islands	66	65	43	42
Trinidad and Tobago	513	351	606	961
Cuba	173	2,513	4,399	-
Dominican Republic	11	14	-	7
El Salvador	60	-	-	-
French West Indies	590	277	442	397
Costa Rica	-	-	-	40
Guatemala	-	-	-	44
Haiti	26	-	20	30
Mexico	1,328	-	-	-
Puerto Rico	208	-	157	305
United States	1,974	662	1,177	1,875
<u>Peas, split (dried)</u>				
TOTAL	2,431	3,069	5,107	7,779
United Kingdom	1,415	2,025	1,958	2,138
Iceland	10	-	-	34
Netherlands	-	-	54	54
Norway	-	17	-	-
Switzerland	-	-	-	950
Bahrain	-	-	-	30
United Arab Emirates	-	99	-	198
Kuwait	-	-	-	5
Saudi Arabia	200	-	-	18
Jordan	-	80	-	-
Yemen	-	71	-	-
Portuguese Africa, n.e.s.	90	19	-	-
Sudan	-	-	-	250
Kenya	-	-	-	199
Algeria	-	-	-	130
Angola	-	-	-	45
Hong Kong	-	-	-	78
Malaysia	-	-	351	670

(cont'd)

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Singapore	36	44	500	1,169
Indonesia	-	-	-	120
Japan	-	54	108	54
Taiwan	-	-	191	80
Brazil	-	-	-	53
Guyana	393	266	-	-
Colombia	-	-	195	50
Ecuador	-	-	-	135
Surinam	-	-	444	262
Venezuela	-	27	54	354
Belize	-	-	-	18
Barbados	130	137	381	199
Jamaica	75	-	40	-
Leeward/Windward Islands	38	35	90	100
Trinidad and Tobago	9	10	17	1
Haiti	10	-	-	-
United States	23	182	721	383

Peas, whole (dried) n.e.s.

TOTAL	12,244	19,026	24,456	19,852
United Kingdom	3,415	3,401	1,126	2,238
Ireland	-	-	-	283
Denmark	-	-	-	-
Finland	236	-	-	-
France	-	-	-	50
West Germany	54	690	236	617
Iceland	1	-	-	-
The Netherlands	72	254	344	418
Norway	663	210	284	209
Sweden	-	-	-	267
Switzerland	-	-	-	115
United Arab Emirates	-	-	-	7
Kuwait	-	-	-	3
Mauritius-Dep.	-	-	91	-
South Africa	-	109	130	406
Hong Kong	-	-	-	242
Singapore	-	-	72	197
Japan	-	124	125	-
Taiwan	-	2,089	413	220
Brazil	15	-	17	-
Colombia	-	-	2,399	955
Venezuela	-	668	5,956	4,505
Barbados	20	23	37	66
Jamaica	36	20	-	18
Leeward/Windward Islands	18	5	-	18
Trinidad and Tobago	7,370	10,603	10,237	7,908
United States	342	826	2,987	1,110

(cont'd)

Canadian Imports -- Major Suppliers

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Dry Beans (except seed)*</u>				
TOTAL	6,266	4,985	6,592	10,346
United Kingdom	83	92	100	92
Italy	97	147	207	160
Portugal	75	151	102	69
Kenya	280	90	216	77
Malawi	-	51	50	-
Tanzania	-	168	-	-
Hong Kong	440	230	296	186
People's Republic of China	95	122	121	149
Thailand	436	438	1,748	471
Peru	193	219	97	123
United States	4,401	3,187	3,410	8,746
Australia	-	-	164	124
<u>Dry Peas (except seed)*</u>				
TOTAL	1,286	1,477	945	1,273
United Kingdom	118	190	234	223
Kenya	189	175	68	102
United States	933	996	537	768
Malawi	-	-	-	-
<u>Peas, (dried) n.e.s.</u>				
TOTAL	1,285	1,477	945	1,272
United Kingdom	118	190	235	223
Belgium/Luxembourg	2	26	3	19
The Netherlands	14	17	25	28
Syria	-	1	-	-
Turkey	-	4	-	15
Kenya	189	175	69	102
Malawi	-	-	-	50
Tanzania	-	-	-	20
Mozambique	-	30	-	-
Hong Kong	-	-	-	-
India	-	-	-	-
Singapore	2	-	36	-
New Zealand	20	33	22	28
Peru	-	2	16	2
Jamaica	-	1	-	-
Trinidad and Tobago	1	-	-	-
Dominican Republic	6	2	1	17
United States	933	996	538	768

*Trade with countries of less than 50 tonnes not reported.

UNITED STATES

Production

In the four-year period 1975-78 the harvested area of all dry beans (in which category the USDA includes chick-peas and California blackeye peas) declined by less than one per cent from the levels in the period 1972-75, which were reported in the previous update of the "World Pulses Market Survey". Total hectares for the years 1975-78 are as follows.

Dry Edible Beans

	<u>(Area)</u> (HA)	<u>Production</u> (tonnes)
1975	593,320	791,150
1976	606,750	806,760
1977	517,960	753,410
1978	604,770	867,130

The harvested area of dry peas, both green and yellow, increased by slightly more than one per cent in the most recent four-year period compared with the levels in 1972-75.

Dry Edible Peas

	<u>(Area)</u> (HA)	<u>Production</u> (tonnes)
1975	76,280	123,880
1976	50,590	97,520
1977	67,580	46,400
1978	81,750	163,340

Output

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
	<u>Dry Beans</u>			
Pea bean	187,786	219,810	236,275	281,725
Great Northern	63,911	80,149	72,710	84,504
Small white	10,750	14,923	10,841	8,119
Flat small white	91	272	408	408
Pinto	288,800	262,719	204,887	259,835
Large Lima	18,506	23,677	24,494	19,686
Baby Lima	18,869	17,146	21,546	22,181
Red Kidney	66,995	62,459	58,286	79,696
Pink	52,344	44,905	34,155	30,935
Small red	22,407	19,822	13,834	16,012
Cranberry	10,070	11,657	17,690	14,470
Black Turtle	9,616	7,121	4,944	5,987
Others	12,973	12,474	14,197	15,150

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Dry peas</u>				
Smooth green	101,831	80,512	36,741	121,834
Yellow	22,044	17,010	9,661	41,503
<u>California blackeyes</u>	22,634	27,533	36,287	33,792
<u>Chick-peas</u>	5,398	2,087	2,858	3,629
<u>Lentils</u>	58,968	48,336	13,517	63,504

U.S. Pulse Exports by Marketing Years (September-August)

	(tonnes)			
	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>
Pea beans	71,832	32,713	35,747	75,883
Great Northern	33,667	14,704	41,328	36,485
Large Lima	1,292	752	1,517)	13,272
Baby Lima	6,593	3,695	9,408)	
Other white	2,018	1,482	1,791	3,266
Red Kidney	9,849	7,022	11,572	8,949
Pinto	66,571	28,605	34,229	20,771
Black	4,104	3,007	11,641	2,546
Other coloured	30,046	19,349	26,918	31,017
Seed beans	6,145	6,898	6,250	11,309
Dry green peas	47,594	46,916	44,294	14,396
Dry yellow peas	16,266	17,751	10,435	7,581
Other dry peas	32,339	13,382	18,480	8,009
Seed peas	15,083	12,824	8,666	7,894
Lentils	38,453	42,489	35,284	8,555

U.S. Pulse Exports by Type and Major Destinations

	(tonnes)			
	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>
<u>Pea Beans Total</u>	<u>71,832</u>	<u>32,713</u>	<u>35,747</u>	<u>75,883</u>
United Kingdom	25,334	20,265	23,853	50,296
The Netherlands	7,564	10,438	5,062	5,861
Japan	6,158	111	1,711	1,077
Canada	5,517	2,469	2,618	9,185
Italy	5,012	438	202	1,116
Australia	2,609	1,048	208	0
West Germany	1,438	302	381	705
New Zealand	1,189	1,388	214	73
Ireland	1,124	144	327	1,140
Belgium/Luxembourg	472	36	109	1,452
Philippines	113	408	119	852

(cont'd)

	<u>(tonnes)</u>			
	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>
<u>Great Northern Beans Total</u>	33,667	14,704	41,328	36,485
Algeria	9,914	4,848	6,077	19,206
France	8,356	5,687	9,637	4,954
Spain	4,164	68	922	1,990
West Germany	2,096	130	1,177	613
Israel	1,630	40	1,368	344
The Netherlands	1,489	328	899	161
Greece	1,479	0	2,923	229
Venezuela	908	341	1,432	1,289
Italy	755	304	325	73
Australia	676	225	542	760
Belgium/Luxembourg	512	398	1,810	996
Philippines	404	340	966	527
Switzerland	364	1,198	411	463
Canada	0	139	2,730	988
Iran	0	0	0	1,039
Taiwan	0	52	136	577
<u>Large Lima Beans Total</u>	1,292	752	1,517	
United Kingdom	300	75	3	
Japan	187	200	742	
Canada	91	89	74	
Taiwan	0	18	339	
The Netherlands	71	0	109	
<u>Baby Lima Beans Total</u>	6,593	3,695	9,408	
Japan	4,271	2,475	7,755	
The Netherlands	1,186	96	358	
Australia	359	219	299	
Jamaica	193	219	290	
United Kingdom	173	159	212	
Canada	142	241	131	
<u>Other White Beans Total</u>	2,018	1,482	1,791	3,266
Canada	388	352	247	134
Philippines	329	0	45	136
Japan	282	78	88	225
France	257	0	99	128
The Netherlands	173	227	220	1,095
Venezuela	81	122	33	21
Taiwan	15	76	709	876
<u>Large & Baby Lima Combined</u>				13,272
Japan				10,407
United Kingdom				622
Jamaica				522
Australia				422
Canada				404
Venezuela				179
The Netherlands				105

	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>
<u>Red Kidney Beans Total</u>	<u>9,849</u>	<u>7,022</u>	<u>11,572</u>	<u>8,949</u>
Mexico	3,412	46	0	0
Panama	1,296	274	536	763
Venezuela	1,152	451	1,500	580
French West Indies	780	1,092	1,227	1,337
Canada	661	873	1,082	1,185
United Kingdom	586	850	765	668
Kuwait	405	447	549	443
France	287	289	597	173
The Netherlands	0	522	564	41
Sweden	0	18	588	173
West Germany	33	71	161	1,261
<u>Pinto Beans Total</u>	<u>66,571</u>	<u>28,605</u>	<u>34,229</u>	<u>20,771</u>
Mexico	65,345	9,036	5,734	7,829
Panama	641	233	772	297
Dominican Republic	227	9,551	186	5,133
West Germany	99	7,145	5,252	164
Japan	30	345	2,689	1,417
Canada	26	330	1,347	356
Venezuela	5	312	466	200
The Netherlands	1	503	2,263	2,172
Italy	0	348	2,035	198
Iran	0	0	3,005	2,085
<u>Black Beans Total</u>	<u>4,104</u>	<u>3,007</u>	<u>11,641</u>	<u>2,546</u>
Costa Rica	1,476	0	0	0
Venezuela	1,189	979	6,803	936
Mexico	1,043	0	0	0
Hong Kong	69	410	239	159
Japan	0	1,052	1,585	180
The Netherlands	0	0	2,334	100
Trinidad and Tobago	82	146	38	158
Canada	0	0	92	57
<u>Other Coloured Beans Total</u>	<u>30,046</u>	<u>19,349</u>	<u>26,918</u>	<u>31,017</u>
Mexico	10,695	392	30	73
Japan	5,919	4,861	4,611	1,721
El Salvador	4,959	1,389	4	2
Italy	2,042	3,483	3,213	4,983
Canada	793	1,953	2,828	3,568
Australia	764	416	533	800
Belgium/Luxembourg	738	632	377	669
France	662	465	492	332
West Germany	614	1,581	1,643	901
United Kingdom	407	597	678	425
The Netherlands	340	642	1,306	9,579
Iran	0	0	1,002	2,842

	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>
<u>Dry Green Peas Total</u>	<u>47,594</u>	<u>46,916</u>	<u>44,294</u>	<u>14,396</u>
United Kingdom	13,687	9,826	11,671	2,042
Venezuela	5,552	8,439	8,635	2,614
Brazil	5,450	4,867	1,070	76
Japan	4,800	3,024	2,971	1,828
Taiwan	2,968	8,129	2,444	839
Colombia	2,905	2,006	5,036	1,020
Spain	2,358	2,002	2,631	566
Ireland	1,485	529	254	264
Italy	1,071	376	176	211
Peru	1,000	998	0	0
Canada	767	1,024	723	373
Norway	743	1,134	896	316
Algeria	0	1,089	943	0
Costa Rica	44	46	1,416	55
India	0	0	939	1,089
Philippines	360	344	1,230	587
<u>Dry Yellow Peas Total</u>	<u>16,266</u>	<u>17,751</u>	<u>10,435</u>	<u>7,581</u>
Venezuela	8,871	9,343	4,320	2,054
Japan	1,843	183	388	120
Surinam	692	563	147	110
Denmark	605	400	0	0
Taiwan	582	1,873	933	611
Malaysia	553	445	237	478
Singapore	551	722	617	557
Colombia	352	1,039	1,919	100
Panama	327	45	304	284
Iran	0	0	990	2,888
Canada	76	165	20	54
<u>Dry Peas, Other Total</u>	<u>32,339</u>	<u>13,382</u>	<u>18,480</u>	<u>8,009</u>
Japan	16,293	5,573	3,759	1,164
Taiwan	4,615	1,380	767	1,031
Trinidad and Tobago	2,069	408	201	144
Italy	1,229	696	671	779
United Kingdom	925	646	1,204	389
Greece	890	41	275	439
France	866	377	362	247
Spain	639	146	210	333
Venezuela	554	526	1,186	487
Hong Kong	540	577	382	123
Singapore	520	421	655	5
Canada	378	369	494	618
India	0	0	3,153	0

	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>
<u>Lentils Total</u>	<u>38,453</u>	<u>42,489</u>	<u>35,284</u>	<u>8,555</u>
Algeria	7,958	8,541	12,933	697
West Germany	6,711	5,570	3,938	539
Greece	4,781	3,755	2,055	0
Spain	3,877	2,644	2,370	895
Italy	2,886	3,163	1,132	951
Venezuela	2,312	4,766	2,893	614
France	1,938	590	70	65
Panama	1,392	1,722	733	300
The Netherlands	1,334	1,093	3,630	246
Peru	1,000	998	0	0
Colombia	886	3,088	1,773	774
Ecuador	18	1,214	390	1,545
Lebanon	142	1,089	1,037	0
Canada	238	297	445	295
Australia	257	491	355	410

Source: Foreign Agriculture Circular, Dried Pulses;
U.S. Department of Agriculture, Washington, D.C.

MEXICO

Mexican annual consumption of pulses is estimated at 1.2 million tonnes. Under the National Agricultural Program, Mexico estimated that, in 1978, 1,473,040 hectares would be planted to beans with an annual production of 985,312 tonnes. Actually 1,580,222 hectares were planted in 1977/78 with a production of 939,614 tonnes, an increase of 7 per cent in planted areas and a 5 per cent reduction in estimated production.

	<u>Area</u> ('000 HA)				<u>Production</u> ('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Total Pulses</u>	2,003	1,492	1,780	1,992	1,271	873	973	1,223
<u>Dry beans</u>	1,753	1,316	1,506	1,876	1,027	740	745	1,095
Broad beans	46	55	50	N/A	38	44	40	N/A
Peas dry	5	7	5	5	3	4	4	4
Chick-peas	191	105	210	48	195	76	175	71
Lentils	9	9	9	N/A	8	9	9	N/A

Source: FAO

Mexico produces black beans, red, yellow, pinto and to a lesser extent lentils, chick-peas, white beans, broad beans and butterbeans. However, black and pinto beans are by far the most popular varieties. The Mexican deficit in bean production for 1977/78 amounting to approximately 260,000 tonnes was covered by imports and, mainly, by Mexican Government reserves.

Mexican Imports of Pulses in 1977

	<u>Volume</u> (tonnes)	<u>Value</u> (Cdn. \$'000)
Split peas	515	310
Dry beans	29,106	10,521
Lentils	----	----
Other beans	182	114
White beans	1,679	493
Black beans	69,536	28,208
Others, except soy	58,946	17,508
Chick-pea	45,942	21,357
Other chick-pea	429	183
Other beans	1,913	480

Source: Preliminary figures Mexican Foreign Trade Statistics.

In 1977, Mexico exported substantial amounts of beans to Brazil, or rather entered into a barter operation in exchange for soybeans. In 1978/79 there was no surplus for the export market.

CONASUPO, the Mexican Government Basic Commodities Agency, is the sole importer of beans purchased, usually under open tender. In an effort to obtain greater production in 1979/80, CONASUPO increased its guarantee price from 8,000 pesos* and 7,500 pesos per tonne to 10,200 pesos for preferred varieties and 9,700 pesos for popular varieties. With this guarantee price as an incentive, it is expected that higher acreage will be devoted to beans.

However, if increased production is not achieved in 1979, Mexico will again have to revert to imports. Reports suggest that the guarantee price may not be sufficient incentive to bring about all of the desired increase in production.

Apart from black and pinto beans, other varieties are imported by private companies in limited quantities due to existing restrictions in the form of permits and high duties.

* Approximate value of Mexican peso - at December 1978 was 0.05142 Canadian.

Guatemala

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Dry Beans</u>				
Area ('000 hectares)	--	85	89	94
Production ('000 tonnes)	--	71	75	79

No figures are available for dry peas and lentils.

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Pulses</u>				
Exports (tonnes)	120	122	318	N/A
Imports (tonnes)	7,370	1,006	1,507	N/A

Pulses are imported by government purchasing agencies and are duty-free.

El Salvador

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Dry Beans</u>				
Area ('000 hectares)	--	53	55	N/A
Production ('000 tonnes)	--	40	40	N/A

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Pulses</u>				
Exports (tonnes)	44	None	N/A	N/A
Imports (tonnes)	7,441	5,467	N/A	N/A

Pulses are imported by government purchasing agencies and are duty-free.

Honduras

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Dry Beans</u>				
Area ('000 hectares)	--	90	91	N/A
Production ('000 tonnes)	--	48	50	N/A

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Pulses</u>				
Exports (tonnes)	3,373	1,350	2,316	N/A
Imports (tonnes)	406	156	150	N/A

Costa Rica

	<u>1975</u>	<u>1976</u>	<u>1977</u>	Estimated <u>1978</u>
<u>Dry Beans</u>				
Area ('000 hectares)	16	20	36	40
Production ('000 tonnes)	14	22	34	42
<u>Pulses</u>				
Exports (tonnes)	NIL	4,044	NIL	--
Imports (tonnes)	5,035	403	1,000	--

Nicaragua

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Dry Beans</u>				
Area ('000 hectares)	78	65	65	N/A
Production ('000 tonnes)	62	58	58	N/A
<u>Pulses</u>				
Exports (tonnes)	1,883	3,040	46	--
Imports (tonnes)	1,423	99	1,000	--

Panama

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Dry Beans</u>				
Area ('000 hectares)	20	25	25	25
Production ('000 tonnes)	5	12	12	26
<u>Pulses</u>				
Exports (tonnes)	NIL	NIL	NIL	--
Imports (tonnes)	1,593	3,323	3,540	N/A

Cuba

Traditional Cuban dietary patterns and preferences have long favoured consumption of beans, particularly black and coloured varieties which remain today a staple (although rationed) of the Cuban diet. While detailed figures are not available for years later than 1975, government officials have indicated that in 1977 and 1978 bean consumption averaged 60,000 tonnes per year. One estimate given was that total pulse consumption could reach as much as 100,000 tonnes annually.

Despite the importance of beans and peas in the Cuban diet the nation has not been a major producer in recent years. Of a total arable land area of 1.057 million hectares only 11,500 hectares were planted to beans in 1975. By 1977 plans existed to plant 27,600 hectares but this is still less than 3 per cent of the total agricultural land area available (see Table I). Most production is centred in the three easternmost provinces of the island and is split between private and state ownership. In 1975, more than 80 per cent of the land cultivated for beans was state owned while more than 60 per cent of the total production came from private plots (see Table II). As can be seen from Table II, during the period 1971-76 bean production was never significant when compared to apparent consumption. Between 1971 and 1976 production was well below the level of 14,800 tonnes achieved in 1967. Government sources have indicated that by 1978 bean production had been increased to a level of 20,000 to 30,000 tonnes (undoubtedly in part because of increased acreages planted.). They expect this level to be maintained and improved upon in future as sugar production becomes more mechanized and more effort can be devoted to other agricultural activities (for the purpose of import substitution). In recent years some 70 per cent of bean production has been black and coloured varieties with the remainder white.

Table III provides data for bean and pea imports between 1970 and 1975. According to government officials between 55 and 70 per cent of the annual total quantity imported were beans, and the remainder peas. In recent years bean imports have apparently averaged around 30,000 tonnes, while specific pea imports are unknown. Historically the U.S.S.R. has been a major supplier of Cuba's needs, usually providing about one-third of annual imports. Other important suppliers are Mexico and Spain, and Latin America in general is looked to as a primary source of supply. Until 1973 Chile was an important supplier.

Due to limited foreign exchange reserves Cuba is very price conscious when sourcing imports. As soft currency sources, e.g., U.S.S.R., are in general unable to fully meet Cuba's pulse needs, hard currency purchases must be made. However, price competition among potential suppliers is very strong as purchase decisions are made primarily on the basis of price. Government officials have noted that price considerations have been one of the primary reasons for Canada not having been more successful in the Cuban market particularly in recent years (see Table V). Another factor is that white pea beans are not as acceptable to Cuban consumers and hence demand for this type of bean is more restricted than for black and/or coloured varieties. No tariff and/or non tariff barriers exist to impede imports once these have been approved by the Cuban government.

Cuba produces a small quantity of lentils annually (variety not known) which is normally sufficient to meet requirements. Lentils are not a popular food among Cubans who much prefer black beans, coloured beans and white beans (generally in that order). Lentils are not imported.

Table I
Area Planted to Beans
(HA)

<u>Year</u>	<u>Total Area Planted</u>	<u>Black</u>	<u>Coloured</u>	<u>Others</u>
1970	11,030	9,113	1,389	528
1971	12,933	10,796	491	1,645
1972	14,461	12,913	723	825
1973	9,081	8,813	291	478
1974	9,261	8,327	309	625
1975	11,502	9,866	454	1,182
1976	11,100*	N/A	N/A	N/A
1977	27,600**	N/A	N/A	N/A

Note: Due to rounding totals may vary

* Estimate

** Planned area to be planted to beans. Taken from Guia Estadística-Comité Estatal de Estadísticas 1977.

Source: Anuario Estadístico de Cuba 1975.

Table II

Cuban Bean Production

(tonnes)

<u>Year</u>	<u>Production</u>	<u>State</u>	<u>Private</u>
1971	5,300	2,654	2,616
1972	6,200	2,447	3,961
1973	2,900	1,449	1,474
1974	3,100	1,149	1,999
1975	4,900	1,955	3,005
1976	3,100*	-	-

* Estimate.

Source: Anuario Estadístico de Cuba 1975.

Table III

Imports of Beans and Peas

<u>Year</u>	<u>Quantity</u> (tonnes)	<u>Value</u> ('000 Cdn. \$)
1970	86,712	30,627.2
1971	82,620	33,060.8
1972	89,714	35,849.6
1973	95,683	39,971.2
1974	110,434	80,571.2
1975	76,498	57,864.0

* Calculated at average December 1978 exchange rate of Cuban Peso 1 = \$1.60 Cdn.

Source: Anuario estadístico de Cuba 1975.

Table IV

Major Beans Suppliers 1975

<u>Country</u>	<u>Quantity (tonnes)</u>	<u>Per cent of Total Imports</u>
U.S.S.R.	26,756	35
Mexico	8,956	12
France	5,292	7
Bulgaria	2,015	3
Spain	963	1
The Netherlands	509	-*
Others	32,007	42
Total	76,498	100

* Less than 1 per cent.

Source: Anuario Estadístico de Cuba 1975

Table V

Canadian Pulse Exports to Cuba 1975 - 1977

		<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Dried Beans, n.e.s.</u>	Tonnes	174	5,540	4,399
	Cdn. \$	94,000	1,294,000	1,854,000
<u>White Pea Beans Dried</u>	Tonnes	510	-	-
	Cdn. \$	276,000	-	-

Source: Statistics Canada

Puerto Rico

Imports From the United States

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Dry Beans:</u>				
Pea bean	86	992	1,080	1,132
White Kidney	226	43	20	4
Lima bean	194	145	106	46
White bean	1,165	1,193	1,254	1,794
Red Kidney	6,148	6,561	5,353	5,822
Pinto	2,719	2,601	2,921	2,650
Black	147	159	173	105
Seeds	1	2	24	32
NEC	7,122	9,285	9,048	9,454
<u>Totals:</u>	<u>17,808</u>	<u>20,981</u>	<u>19,979</u>	<u>21,039</u>

<u>Peas:</u>				
Green	543	438	483	328
Yellow	---	6	9	37
Blackeyed	---	---	---	322
Seeds	96	61	---	27
NEC	540	1,052	1,187	114
<u>Totals:</u>	<u>1,179</u>	<u>1,557</u>	<u>1,679</u>	<u>828</u>

<u>Lentils:</u>	73	72	108	63
-----------------	----	----	-----	----

Imports From Other Countries

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Belgium:</u>				
White beans	158	---	---	---
Dry beans NEC	---	567	551	181
Chick-peas	---	70	326	---
Dry peas NEC	---	52	241	142
Lentils	---	---	2	13
<u>Brazil:</u>				
Dry beans NEC	---	0.8	---	---

(cont'd)

Imports From Other Countries

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Canada</u>				
Dry beans NEC	---	20	20	---
Red Kidney	---	---	102	163
<u>Dominican Republic:</u>				
Dry beans NEC	---	0.5	1	---
Dry peas NEC	---	0.5	---	---
Chick-peas	---	---	---	0.6
Cowpeas	---	---	---	1
<u>Ethiopia:</u>				
White beans	68	---	---	---
Dry beans NEC	---	68	---	---
<u>Kenya:</u>				
Dry Peas NEC	---	190	27	---
<u>Mexico:</u>				
Chick-peas	---	315	722	708
<u>Morocco:</u>				
Chick-peas	---	61	300	---
Dry Beans NEC	---	---	22	---
Lentils	---	---	2	---
<u>Netherlands:</u>				
Dry Beans NEC	---	---	5	---
Chick-peas	---	---	63	---
<u>Peru:</u>				
Chick-peas	---	149	132	---
Dry Peas NEC	1,111	---	100	123

Imports From Other Countries

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Portugal</u>				
Chick-peas	---	4	---	---
Dry peas NEC	---	---	34	---
<u>Turkey</u>				
Chick-peas	---	37	---	---

Exports Nil

Tariffs and Non-Tariff Barriers

Import duties and regulations in Puerto Rico are the same as those for the Continental United States.

Trinidad and Tobago

Dry beans (white and coloured), dry peas, lentils, fababeans, etc., are not grown locally. The following table shows pulses that are locally grown and annual production; prices not available.

Production

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
Pigeon peas	2,540	2,313	2,132
Black Eye peas	258	227	317
Bodi	272	363	499
Other peas and beans	227	181	249

Imports

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Red Kidney Beans Dried</u>			
Canada	421	683	25.6
Hong Kong	-	-	-
United States	232	301	-
Belgium/Luxembourg	4	-	-
Chile	34	21	-
Other countries	-	-	127
TOTAL*	691	1,005	383
Value Cdn. \$000	501	717	586

Other Beans Dried

Canada	225	165	29
Hong Kong	5	8	-
United States	296	590	229
Belgium/Luxembourg	21	5	1
Other Countries	-	-	11
TOTAL	547	770	270
Value Cdn. \$000	324	544	431

* Values approximate

(cont'd)

Imports

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Pigeon Peas Dried</u>			
British Africa, n.e.s.	34	42	-
Kenya and Uganda	19	40	-
The Netherlands	68	39	-
Belgium/Luxembourg	149	187	115
Congo People's Republic	-	18	-
Grenada	-	-	-
Nigeria	-	-	-
Mozambique	-	4	49
Other countries	-	-	90
TOTAL	271	330	254
Value Cdn. \$000	131	207	377
<u>Split Peas Dried</u>			
Canada	1	20	-
United States	51	100	-
Belgium/Luxembourg	-	38	-
Other countries	-	-	25
TOTAL	52	159	25
Value Cdn. \$000	27	73	40
<u>Other Peas Dried</u>			
United Kingdom	-	-	-
Canada	4,783	8,617	4,299
New Zealand	5	5	-
British Africa, n.e.s.	5	5	-
Hong Kong	-	-	-
United States	2,385	371	-
The Netherlands	23	10	-
Belgium/Luxembourg	746	832	532
West Germany	-	-	-
Morocco	22	48	-
Turkey	10	8	-
Peninsula States	-	22	-
China	-	-	-
Other countries	-	-	76
TOTAL	7,982	9,920	4,907
Value Cdn. \$000	2,820	3,462	4,230

Lentils

It is impossible to extract lentil import figures from the Trinidad and Tobago Trade Index because of the collective pulses heading. The types imported into Trinidad and Tobago are Grade 5-6 and 6-7 from Belgium and Grades 1 and 2 from the U.S. These are usually of a light green/brown colour.

Import Tariffs

Red Kidney beans	-Rate of duty	.50¢*	TT	per	100	lb.	bag.
Other peas and beans	- " " " "	"	"	"	"	"	"
Dried, shelled whether or not skinned or split.							
Red Kidney beans	-Rate of duty	.30¢	TT	per	100	lb.	bag.
Other beans	- " " " "	"	"	"	"	"	"
Pigeon peas	- " " " "	"	"	"	"	"	"
Split peas	- " " " "	"	"	"	"	"	"
Other peas	- " " " "	"	"	"	"	"	"

Exports

Trinidad and Tobago export a small quantity of pulses (mostly split peas, dried) to the neighbouring islands.

Split Peas Dried

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
Guyana	1,867	3,074	1,754
Grenada	23	10	11
St. Vincent	-	-	-
Antigua	-	-	-
Other countries	258	-	-
Barbados	1	15	-
Stores/Bunkers	-	-	-
Jamaica	-	-	-
TOTAL	2,149	3,100	1,774
Value Cdn. \$000	1,001	1,309	1,636

No specific subsidy program exists to encourage domestic pulse production, although general assistance programs exist for agriculture.

* TT\$ = C.4880 - Dec. 1978
 = C.44 - 1976-1977

SOUTH AMERICA

	<u>Production</u>				<u>('000 tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Total Pulses</u>	5,264	5,159	5,751	5,882	3,040	2,658	3,188	3,129
Dry beans		4,664	5,229	5,288		2,332	2,838	2,754
Fababeans	250	246	251	N/A	132	142	140	145
Dry peas		131	133	160		109	103	125
Chick-peas	45	40	36	47	28	21	18	26
Lentils	57	57	87	N/A	38	41	78	N/A
<u>Dry Beans</u>	<u>1969-71</u>				<u>1969-71</u>			
<u>Totals</u>	4,172	4,644	5,229	5,288	4,809	5,773	6,049	6,218
Argentina	53	147	187	178	43	171	180	170
Brazil	3,685	4,038	4,524	4,568	2,366	1,842	2,282	2,200
Chile	57	82	97	112	62	70	112	112
Colombia	67	101	112	112	43	68	72	79
Ecuador	78	68	59	59	36	32	26	26
Paraguay	50	70	72	74	31	55	56	57
Peru	77	63	62	68	62	50	47	51
Venezuela	97	89	108	110	34	39	58	55
<u>Dry Peas</u>								
<u>Totals</u>	138	131	133	160	101	109	103	125
Argentina	20	18	20	42	19	36	30	46
Bolivia	4	4	4	4	3	4	4	4
Chile	11	9	16	18	8	7	14	16
Colombia	44	55	53	54	30	30	27	30
Ecuador	25	16	10	10	15	9	5	5
Paraguay	5	4	4	4	3	3	3	3
Peru	24	20	20	20	18	15	15	15
Uruguay	1	1	1	1	3	2	2	2
Venezuela	5	4	4	4	3	2	2	2
<u>Chick Peas</u>								
	<u>1969-71</u>				<u>1969-71</u>			
<u>Totals</u>	58	40	36	47	30	21	18	26
Argentina	5	4	2	6	4	4	2	6
Chile	12	7	8	11	5	3	5	5
Peru	6	4	4	4	4	2	2	2

South American Trade in Pulses

	<u>('000 tonnes)</u>			<u>(U.S. \$million)</u>		
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Imports</u>						
Total pulses	74	152	137	36	68	66
<u>Exports</u>						
Total pulses	180	232	193	76	69	73

Argentina

	<u>Area</u> <u>('000 HA)</u>				<u>Production</u> <u>('000 tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total pulses	169	178	217	281	152	230	277	265
Dry beans	137	147	167	178	109	171	180	170
Broad beans	1	1	1	N/A	2	3	4	N/A
Peas dry	15	18	20	42	19	36	50	46
Chick-peas	7	4	2	6	8	4	2	6
Lentils	8	9	29	N/A	13	16	41	N/A

Source: FAO

Beans -- Production in 1978 is reported as follows:

	<u>(000 tonnes)</u>
White alubia beans (Large white kidney)	150
Black beans	12
Red beans	3
TOTAL	<u>165</u>

Lentils - The 1978 crop of green lentils was severely damaged, leaving only 7,000 tonnes available for export.

There are no government subsidies reported to encourage production of pulse crops in Argentina.

<u>Exports</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
Total Volume ('000 tonnes)	62	78	192	106
Total Value (U.S. \$million)	26	25	53	33 (est)

Imports -- are approximately 500 to 1,000 tonnes per year of various pulses.

The 1978 export price for white alubia beans was U.S. \$460. CIF European ports; for black beans, which were exported mainly to Venezuela, Brazil and Cuba, approximately U.S. \$400 U.S. FOB Buenos Aries.

There are no tariff barriers for either imports or exports of pulses.

Brazil

	<u>Area</u> ('000 HA)				<u>Production</u> ('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total pulses	4,331	4,238	4,759	4,768	2,358	1,930	2,417	2,292
Dry beans	4,143	4,047	4,564	4,568	2,271	1,842	2,327	2,200
Broad beans	188	191	195	N/A	87	88	90	N/A

Source: FAO

Beans are a chief staple food and one of the main sources of protein for 85 per cent of the population of Brazil.

The average area in pulse production over the past ten years is 3.9 million hectares, with an annual production in the range of 1,694 to 2,575 thousand tonnes.

The dry beans preferred are a lighter shade of Manitoba brown beans (eaten in northeastern Brazil) and black and other coloured beans, especially a variety similar to the Manitoba red bean (eaten in Rio de Janeiro, Sao Paulo, and the Southern States). White beans are imported from Latin America Free Trade Association (LAFTA) countries, mainly Argentina and Paraguay and imports may reach 12,000 tonnes annually. No white beans are imported for canning purposes.

Customs duty charged on C&F value of white beans from non-LAFTA countries is 55 per cent which compares unfavourably with 5 per cent from LAFTA countries.

Lentils are duty-free and deposit-free from LAFTA countries, whereas from non-LAFTA countries the duty is 55 per cent plus prior deposit of 100 per cent of the value of the import order with the Central Bank of Brazil for 360 days without interest or monetary compensation for the usual inflation rate of 40 per cent per annum.

Canada has had no success selling split and polished peas because imports of these varieties are much cheaper from Argentina and the U.S.

Canadian Triumph, Canadian Alaska, and Canadian Prairie (for Petit Pois) are the only Canadian varieties that would be accepted in Brazil. The duty charged on green peas is 45 per cent plus 100 per cent invoice value prior deposit for imports from non-LAFTA countries. The duty is 18 per cent and no deposit from LAFTA countries. Freight charges from Canada plus the high duty from the non-LAFTA countries make the possibility of pulse exports to Brazil unlikely.

Pulses

Chile

Production ('000
tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978(*)</u>
Beans	74.1	70.3	112.3	112.0
Lentils	12.1	13.5	23.7	18.9
Peas	6.3	7.1	13.7	15.6
Chick-peas	4.9	2.7	4.9	5.5

* Estimates

Imports -- Chile is fully self-sufficient in pulses. There are no imports on a commercial basis.

Exports ('000 tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977(*)</u>	<u>1978(**)</u>
Beans	21.7	19.1	35.0	18.3
Lentils	7.1	5.4	8.0	9.9
Peas	4.0	1.6	4.0	1.0
Chick-peas	0.5	0.2	1.0	1.5

* Estimates

** First six months

Tariffs and Import Conditions -- Apart from import duties, which amount to ten per cent on the CIF value, there are no import restrictions limiting or obstructing the importation of pulses.

Government Policy -- There are no subsidies to encourage domestic production. Exporter motivation is based on a realistic exchange rate, refund of value added tax, export credits and export assistance through a new, efficient and highly specialized promotion agency, PROCHILE.

Active Importers -- There is no established import trade in pulses.

Chile's Pulse Exports First Half of 1978

<u>Type</u>	<u>Tonnes</u> <u>(net)</u>	<u>FOB Value</u> <u>U.S.\$</u>	<u>Average</u> <u>Price</u> <u>U.S.\$</u>
<u>Lentils</u>			
4.5 m/m	1,026	680,801	663
5.0 m/m	2,135	1,332,892	624
6.0 m/m	5,975	3,932,399	658
7.0 m/m	456	315,807	692
Not specified	300	291,903	973

Beans

Cristales	1,412	740,780	520
Red Kidney	653	382,195	580
Arroz	2,156	934,399	430
Black Mexican	1,957	687,974	350
Bayos	642	282,117	430
Araucanos	206	97,961	470
Hallados	2,243	771,658	340
Frutilla	19	8,365	440
Pintos	172	69,829	400
Tortolas	999	325,345	320
Cuyanos	1,597	474,489	290
Coscorrones	582	232,440	390
Jury	17	17,157	1,000
Not specified	5,647	1,802,911	310

Peas

Amarilla	189	46,761	240
Verde	359	104,262	290
Corrientes	311	71,815	230
Not specified	193	55,449	280

Chick-peas

48/50	20	16,400	820
50/55	103	80,003	770
Corrientes	434	346,800	790
Not specified	940	738,668	780

Colombia

	<u>Area</u> ('000 HA)				<u>Production</u> ('000 tonnes) <u>1978</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	
Total pulses	221	197	212	213	141	115	120	130
Dry beans	121	101	112	112	90	68	72	79
Broad beans	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Peas dry	53	53	53	54	29	30	27	N/A
Chick peas	25	21	25	N/A	12	8	12	
Lentils	22	20	22	N/A	10	9	9	

Source: FAO

The most precise information available on local production is for beans which are an important staple in the Colombian diet. The Japanese type of beans "caraota", "mungo" and "atsuki" are produced primarily with a view to export. Peas and lentils are considered under a general heading of "Hortalizas". As the demand for peas is growing more statistical attention is being given to the crop.

The figures for 1977 and 1978 are preliminary.

Beans

Beans are an important staple in the diet of the Colombians: 100 per cent of the "frijol comun" grown in Colombia is for domestic consumption. Normally local production can meet demand but as a result of the drought conditions of 1976/77 substantial quantities were imported. Colombia produces three general types of "frijol comun" and the most popular varieties within the classifications are Nime, Calima, Cuarzo Rojo, Piel Roja.

There is a conscious effort to encourage the cultivation of this basic staple. At present approximately 120 million pesos has been assigned to finance the cultivation of beans. Credit is available up to 12,000 pesos per hectare, 4½ months grace, 18 per cent per annum. This covers about 50 per cent of the costs of production.

The "caraota" and the Japanese varieties "mungo and atsuki" have been cultivated specifically for the export market; the "caraota" for Venezuela and the others for Japan. They are cultivated in the region of the Valle del Cauca. While financing was available in 1977 for up to 2,700 pesos per hectare, in 1978 the financing was terminated.

Peas

Seventy per cent of local production is yellow peas; 70 per cent of imports are green peas. Prices varied during 1978 depending on the size and quality of the peas.

In July 1978, a bultor (45 to 50 kilos) of green peas marketed at 1,500 pesos. In January 1979 it fluctuated between 800-1,000 pesos.

Area and Production

	1976		1977		1978	
	'000 HA	'000 tonnes	'000 HA	'000 tonnes	'000 HA	'000 tonnes
Peas	20	16	55	44	55	44 (Jan- June)
Beans (Frijol-Caraota)	3	3	3	3	10	16
Red Kidney beans (Frijol-Comun)	98	64	113	72	125	91

No figures are available on the production of lentils; the quantities produced are insignificant.

Colombia's Imports

	<u>1976</u>	<u>1977</u>	<u>Jan.-June 1978</u>	<u>Type</u>
<u>Peas</u>				
Argentina	-	2,990	1,212	Cobreta 5/6 and 7/8 mil.
Canada	-	2,600	950	Century and Trapper
Chile	1,842	2,344	2,454	Cobreta
United States	3,894	5,753	3,896	Alaska
Mexico	-	100	-	
The Netherlands	-	200	-	
TOTAL	5,736	13,987	8,512	
TOTAL VALUE	\$2,081,300	\$5,222,200	\$2,133,746	

Beans (Red Kidney)

Chile	804	50
United States	1,723	9
Canada	829	
TOTAL	3,356	59
TOTAL VALUE	\$1,572,390	\$ 22,531

(cont'd)

Garbanzo Beans

Morocco	100	1,165	
Mexico	694	-	1,050
Chile	-	-	737
TOTAL	794	1,165	1,787
TOTAL VALUE	\$ 469,000	\$ 752,000	\$1,277,120

The import of all agricultural products is subject to "permiso sanitario" of ICA - INSTITUTO COLOMBIANO AGROPECUARIO, the Colombian Agricultural Research Institute. The products considered here do not require a prior import licence and are subject to a 15 per cent duty but no sales tax. All imports, however, must be registered. At the present time Cdn. \$1 = 34.20 pesos

	<u>1976</u>	<u>1977</u>	<u>Jan.-June</u> <u>1978</u>	<u>Type</u>
	(tonnes)			
<u>Lentils</u>				
Argentina	231	2,093	5,974	4/5 mil. dark brown
Chile	4,614	5,733	5,777	6 mil. large green
The Netherlands	-	90	50	
Japan	20	-	-	
Morocco	400	-	-	
Spain	1,959	250	200	5/6 mil.
United Kingdom	-	-	50	
United States	3,692	1,450	640	5/6 mil.
TOTAL	10,916	9,616	12,691	
TOTAL VALUE	\$6,341,500	\$5,920,200	\$7,259,900	

Average price per kilo for 1978 was 38 pesos.

Local production of lentils is considered insignificant and no statistics are gathered on production.

As the preceding statistics indicate, Chile has been the major supplier, the 6 millimetre large green lentils being the preferred product.

Colombia's Exports

Caraoata and Japanese Varieties

	<u>1976</u>	<u>1977</u>	<u>Jan.-June</u> <u>1978</u>
	(tonnes)		
Cuba	950	4,916	-
Japan	26	170	32
Dominican Republic	323	-	-
United States	-	163	15
Venezuela	2,151	12,819	8,012
TOTAL	11,999	18,068	8,059
TOTAL VALUE	\$5,296,008	\$9,154,000	\$4,800,190

Peru

	<u>Area</u> (<u>'000</u>)				<u>Production</u> (<u>'000 tonnes</u>)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total pulses	132	128	128	123	111	107	108	96
Dry beans	75	75	75	68	64	64	65	51
Broad beans	23	20	20	N/A	20	18	18	N/A
Peas dry	22	20	20	20	17	15	15	15
Chick-peas	4	4	4	4	3	3	3	2
Lentils	2	2	3	N/A	2	2	2	N/A

Source: FAO

Imports of Trifoles (Kidney Beans)

	<u>1976</u>	<u>1977</u>	<u>1978</u>
Production (tonnes)	3.5	6.2	0
Value (U.S.\$)	2,250	1,200	0

In 1976 the U.S. supplied all imports; in 1977, 85 per cent were supplied by Ecuador and 15 per cent by the U.S.

No other information is available from government sources.

Venezuela

	<u>Area</u> ('000 HA)				<u>Production</u> ('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total pulses	101	101	120	N/A	42	47	71	N/A
Dry beans	89	89	108	110	37	41	65	55
Peas dry	4	4	4	4	1	2	2	2

Source: FAO

The status of the industry shows pulse output at 60,000 tonnes, area at 120,000 hectares. Minimum prices at U.S. 53 cents per kilo have not been sufficient to encourage production. Pulse output in 1978 dropped and the government liberalized import restriction permitting an import level of 72,000 tonnes for 1978. Black beans, the major item, showed 30,000 tonnes imported which is double the amount over the previous year.

Imports

	<u>1977</u>	<u>1978 (Jan.-June)</u> (tonnes)
Black beans	7,899	3,890
White beans	711	436
Pinto beans	209	64
Red beans	2,041	865
Beans (other)	3,639	1,036
Blackeye peas	759	39
Chick-peas	1,692	470
Peas (other)	13,832	5,869
Lentils	3,229	3,047
Pulses (other)	970	641

Current minimum prices in U.S. dollars per tonne are \$518 for black beans, \$324 for Frijoles and \$398 for green peas.

Current effective duties, ad valorem, are for black beans 3 per cent, pink and white beans 13 per cent, other than black, pink and white 17 per cent, lentils 20 per cent, pigeon peas 14 per cent, other peas 17 per cent, other frijoles 17 per cent, peas 15 per cent, chick-peas 17 per cent. Imports must have a sanitary permit from the country of origin.

EUROPE

France

The production trends remain stable with the exception of fababeans; an increase in production is expected over the short term.

Pulse consumption is estimated at approximately two kilos per capita.

The market potential in France should be good for white pea beans, dark red kidneys, lentils and fababeans.

Acreage and Production

	<u>Pulses</u>		1977		1978	
	1976 ('000 HA)	('000 tonnes)	('000 HA)	('000 tonnes)	('000 HA)	('000 tonnes)
Peas, dry	16.8	30.5	17.0	60.4	17.8	64.2
Beans, dry	22.0	18.4	23.9	37.6	21.4	35.6
Lentils	11.3	8.9	13.1	16.1	10.5	12.8
Dried broad beans	0.7	1.1	0.7	1.2	0.7	1.2
Fababeans	20.3	27.1	18.6	45.2	18.4	49.4

Imports

	(tonnes)		
Peas, dry	23,258	22,218	19,517
Beans, dry	53,411	58,168	44,171
Lentils	19,650	28,450	18,348
Dried broad and fababeans	22,395	16,099	17,146
Others	457	393	268
<u>Total</u>	<u>119,171</u>	<u>125,328</u>	<u>99,450</u>

Exports

	(tonnes)		
Peas, dry	44,385	61,517	65,130
Beans, dry	4,171	6,251	5,313
Lentils	2,678	6,435	4,166
Broad beans and fababeans	882	2,101	2,867
Others	157	370	134
<u>Total</u>	<u>52,273</u>	<u>76,674</u>	<u>77,610</u>

The Netherlands

The Netherlands is a trading centre for agricultural commodities including pulses and this should be taken into account when considering the statistics.

There is virtually no lentil or fababean consumption in the Netherlands (perhaps some by consumers of non-Dutch origin). Dutch companies do import lentils, however, as there are other markets in the EEC, primarily France. Dutch firms are also very active in serving Mediterranean markets.

	<u>Production</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	1978
<u>Area Harvested (HA)</u>				
Smooth green peas	4,350	2,828	1,638	2,255
Green marrowfat peas	650	789	795	707
Brown marrowfat peas	1,012	885	1,066	1,398
Brown beans	5,861	5,043	4,126	4,772
<u>Production (tonnes)</u>				
Smooth green peas	16,040	10,156	6,236	9,745
Green marrowfat peas	2,250	2,573	2,892	3,007
Brown marrowfat peas	3,627	3,174	4,104	5,608
Brown beans	13,913	6,289	10,383	10,752

Imports

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Dry peas, all types, excl. seed</u>			
TOTAL	68,952	66,999	103,003
EEC	35,614	32,097	57,780
Belgium/Luxembourg	-	-	1,311
France	24,197	21,630	36,352
West Germany	1,508	1,997	1,800
United Kingdom	9,904	7,650	17,766
Ireland	4	-	-
Spain	35	-	-
Greece	45	-	-
Argentina	-	5,171	25,512
Turkey	135	-	-
East Germany	6,050	1,000	500
Hungary	1,217	1,509	2,879
Morocco	14,834	23,013	8,827
Sudan	84	-	-
Kenya	57	-	-
United States	2,284	545	193
Canada	55	413	915
Chile	98	-	-
Thailand	55	-	-
China	6,585	1,814	2,967
Hong Kong	408	-	-
New Zealand	1,342	330	379
Ethiopia	-	-	850
<u>Brown beans</u>			
TOTAL	229	939	805
EEC	64	60	265
Belgium/Luxembourg	-	-	164
Italy	20	-	-
France	-	-	46
Mozambique	100	-	-
Angola	-	-	-
United States	-	858	318
Canada	-	-	217

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>White beans</u>			
TOTAL	23,017	45,626	30,618
EEC	167	387	581
Belgium/Luxembourg	-	-	103
France	35	-	178
West Germany	68	172	205
Italy	6	-	-
United Kingdom	58	136	94
Spain	22	25	-
Sudan	25	94	96
Ethiopia	5,607	7,076	3,810
Tanzania	108	348	697
United States	8,267	10,409	6,373
Canada	2,419	2,688	3,276
Chile	87	-	74
Argentina	6,179	22,979	14,261
Iran	35	-	-
China	65	152	131
<u>Other Phaseolus type beans</u>			
TOTAL	15,906	16,666	25,846
EEC	296	1,030	494
France	225	276	180
West Germany	-	-	128
United Kingdom	-	717	174
Ethiopia	1,303	1,971	731
Kenya	990	349	1,721
Madagascar	1,207	650	1,124
United States	2,467	4,830	2,192
Canada	-	2,998	2,019
Mexico	-	-	12,485
Chile	490	-	123
Argentina	4,664	1,166	2,911
Thailand	626	1,239	1,989
Brazil	-	1,796	-

		(tonnes)		
		<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Lentils</u>				
	TOTAL	2,157	4,039	6,751
EEC		416	918	498
	France	-	308	208
	Belgium/Luxembourg	-	-	152
	West Germany	321	592	122
Turkey		26	-	254
United States		1,362	758	698
Mexico		-	-	432
Chile		-	-	39
Argentina		232	1,603	4,784
<u>Fababeans</u>				
	TOTAL	7,632	2,405	1,675
EEC		3,774	1,002	906
	United Kingdom	3,012	882	860
	East Germany	3,400	709	677
Morocco		-	-	91
Mozambique		151	-	-
<u>Dry pulses, n.e.s.</u>				
	TOTAL	1,661	3,337	4,935
EEC		1,570	1,827	2,952
	United Kingdom	1,548	1,783	2,918
Mozambique		42	100	705
Thailand		25	-	-
Madagascar		-	-	715
Costa Rica		-	-	100
East Germany		-	200	-
Morocco		-	1,075	-

Exports

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Split green peas</u>			
TOTAL	1,308	2,029	3,347
EEC	926	1,904	2,980
France	38	49	123
Belgium/Luxembourg	-	-	427
West Germany	242	61	380
Italy	108	55	202
United Kingdom	538	1,738	1,849
Norway	94	54	98
Lesotho	150	-	-
Surinam	54	-	-
Venezuela	-	-	120
<u>Green marrowfat peas, whole</u>			
TOTAL	2,254	2,134	3,065
EEC	266	366	1,806
Italy	189	175	590
United Kingdom	57	173	970
Ireland	-	-	238
Norway	737	502	445
Portugal	91	111	50
Spain	164	101	89
Malta	123	112	63
U.S.S.R.	108	-	-
Thailand	40	82	91
Malaysia	89	178	178
Japan	637	664	337

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Other green peas, whole</u>			
TOTAL	14,341	20,400	26,774
EEC	8,893	15,118	17,844
France	1,164	305	68
West Germany	7,056	13,736	11,600
Italy	117	477	381
United Kingdom	556	598	1,724
Ireland	-	-	553
Norway	1,122	1,403	1,349
Sweden	122	108	76
Finland	3,600	188	63
Switzerland	49	109	-
Portugal	204	522	434
Spain	-	-	428
Greece	59	180	118
East Germany	-	-	863
Senegal	25	-	-
Lesotho	138	-	-
Argentina	27	20	-
Malaysia	39	-	-
Algeria	-	-	1,328
Cape Verde islands	-	-	150
Angola	-	-	2,460
Somalia	-	-	200
South Africa	-	-	75
United States	-	-	117
El Salvador	-	-	160
Barbados	-	-	148
Trinidad	-	-	79
Colombia	-	-	148
Venezuela	-	-	304
Jordania	-	-	57
North Yemen	-	-	124

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Other peas, whole</u>			
TOTAL	5,100	3,020	11,848
EEC	4,349	1,913	9,105
France	16	1,600	110
Belgium/Luxembourg	-	-	4,091
West Germany	4,330	193	3,917
Italy	-	-	252
United Kingdom	-	-	213
Denmark	-	-	522
Norway	317	292	288
Portugal	-	-	89
East Germany	-	-	1,043
Algeria	-	-	622
United States	58	129	93
West Indies	-	-	44
Trinidad	114	87	66
Barbados	44	-	-
Venezuela	116	133	69
Israel	-	-	196
Malaysia	-	-	93
South Africa	-	165	-
 <u>Brown beans</u>			
TOTAL	8,947	4,856	4,631
EEC	2,823	1,596	2,244
Belgium/Luxembourg	-	-	151
West Germany	201	287	337
Italy	2,570	1,243	1,638
United Kingdom	12	-	76
Denmark	38	37	39
Norway	292	309	309
Sweden	1,831	2,083	1,325
Angola	-	-	560
Cuba	3,942	492	-
Surinam	-	216	124

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>White beans</u>			
TOTAL	932	1,089	3,487
EEC	561	811	2,499
France	-	-	476
Belgium/Luxembourg	-	-	708
West Germany	94	594	829
United Kingdom	423	56	69
Ireland	-	-	338
Denmark	29	-	79
Sweden	53	-	59
Austria	-	-	68
Switzerland	70	-	-
Turkey	80	-	540
Cape Verde Islands	-	-	150
United States	50	-	-
Chile	19	-	-
Malaysia	-	-	72
<u>Other phaseolus type beans</u>			
TOTAL	1,105	544	2,776
EEC	9	619	1,907
France	55	149	73
Belgium/Luxembourg	-	-	1,498
West Germany	-	215	254
Italy	-	-	75
Cuba	484	-	-
Ghana	-	-	777
<u>Lentils</u>			
TOTAL	40	638	2,133
EEC	9	619	1,884
Belgium/Luxembourg	-	-	1,514
West Germany	-	215	360
United Kingdom	-	395	-
Algeria	-	-	208

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Fababeans</u>			
TOTAL	124	957	172
EEC	123	648	151
West Germany	123	648	125
Japan	-	215	-
 <u>Dry pulses, n.e.s.</u>			
TOTAL	336	306	1,409
EEC	333	282	665
Belgium/Luxembourg	-	-	319
West Germany	332	236	248
Denmark	-	-	92
Sweden	-	-	46
Spain	-	-	682

Tariffs

Tariffs and policies that could affect pulse production and trade now come under the jurisdiction of the EEC. Duties for pulses are:

	<u>Percent</u>
Peas and Phaseolus type beans	4.5
Lentils	2
Vicia Faba type beans	5

N.B.: The duty is zero when applied to dry white beans of "Phaseolus Vulgaris".

West Germany

Although yields in the production of fieldbeans have slightly increased between 1975 and 1978 (2.8 per cent), the total harvest has decreased by close to 60 per cent due to an almost equivalent decrease in the area under cultivation. The 1978 harvest of peas for human consumption was 15 per cent higher than in 1975 due to a slight increase in the area under cultivation and to higher yields. Other pulses' harvest was down by 48 per cent in 1978 compared to 1975 mostly as a result of the close to 49 per cent reduction in the area under cultivation. Total harvest of pulses decreased by 50 per cent in this four year period. This was caused principally by a more than 58 per cent reduction in the production of "feed" pulses.

As a result of this substantial decrease in harvests, imports share of the markets increased from 44 per cent in 1975 to close to 65 per cent in 1977 even though the total quantity imported has remained almost constant, i.e. 79,000 tons in 1975 compared with 80,000 tons in 1977.

It is interesting to note the change in the consumption of pulses. In 1975, pulses used for feeding purposes represented 52.5 per cent of the total and those used for food purposes 27 per cent. The situation was the opposite in 1977 with pulses used for food accounting for 52 per cent of the total consumption whereas those used for feed purposes accounted for 28 per cent. Consumption per capita in kilos shows an increase of 10 per cent.

Area Under Cultivation and Production

	1975		1976		1977		1978	
	HA	'000 tonnes	HA	'000 tonnes	HA	'000 tonnes	Estimates HA	'000 tonnes
Field Beans	16.5	53.1	13.3	29.5	6.7	24.7	6.6	21.8
Peas for human consumption	2.0	5.5	1.5	3.7	2.1	6.4	2.3	6.5
Other	9.8	27.6	7.4	13.5	6.6	18.9	5.8	14.3

Pulses Production Situation
('000 tonnes)

	1975				1976				1977			
	Food	Seed	Feed	Total	Food	Seed	Feed	Total	Food	Seed	Feed	Total
Production	5	0	81	86	4	0	43	47	6	0	41	47
Loss	0	0	2	2	0	0	1	1	0	0	1	1
Available Production	5	0	79	84	4	0	42	46	6	0	40	46
Seed	1	0	28	29	1	0	22	23	1	0	19	20
Feed	0	0	51	51	0	0	20	20	0	0	21	21
Sale	2	0	0	2	2	0	0	2	4	0	0	4
Self-consumption	2	0	0	2	1	0	0	1	1	0	0	1

Trade

The Federal Republic of Germany is a net importer of all pulses with the exception of "dry lentils for seeding". EEC countries are the most important suppliers for most pulses imports. However, there are exceptions: Argentina is the largest supplier of "other dry lentils not for seeding" and of "other dry peas not for seeding" (in 1978), whereas Ethiopia's exports of "dry phaseolus beans other than for seeding" were the largest.

General Pulses Situation ('000 tonnes)

	1975				1976				1977			
	Food	Seed	Feed	Total	Food	Seed	Feed	Total	Food	Seed	Feed	Total
Available Production	5	0	79	84	4	0	42	46	6	0	40	46
Change of stock	-1	0	0	-1	-1	0	0	-1	-5	0	0	-5
Import	40	6	33	79	58	7	22	87	58	7	15	80
Export	1	4	1	6	3	3	3	9	2	3	1	6
Total availability	45	2	111	158	60	4	61	125	67	4	54	125
Seed	1	2	28	31	1	4	22	27	1	4	19	24
Market loss	1	0	0	1	2	0	0	2	1	0	0	1
Feed	0	0	83	83	0	0	39	39	0	0	35	35
Food	43	0	0	43	57	0	0	57	65	0	0	65
Consumption per capita in kg	N/A	0	0	0.7	0.9	0	0	0.9	1.0	0	0	1.0

Dry peas for human consumption, not for seeding

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total	5,748	20,305	22,401	16,697
EEC-countries	4,122	18,404	18,050	15,472
France	1,232	3,305	1,254	2,326
Belgium/Luxembourg	695	2,721	4,558	3,475
The Netherlands	1,639	9,879	9,823	7,415
Ireland	82	136	228	135
Denmark	470	2,324	2,155	1,859
United Kingdom	-	36	19	260
Hungary	1,020	1,468	3,610	563
Morocco	200	-	-	-
United States	315	122	-	77
Canada	-	177	171	-
Sweden	-	-	110	-
Turkey	-	-	134	-
U.S.S.R.	-	-	273	367

EXPORTS

Total	51	488	1,262	1,677
EEC-countries	35	470	1,228	-
The Netherlands	-	317	438	916
United Kingdom	-	27	325	-
Belgium/Luxembourg	-	-	429	502
Denmark	-	-	-	159
Austria	-	-	16	-
Switzerland	-	-	-	55

Other dry peas, not for seeding

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total	26,122	19,220	12,211	11,977
EEC-countries	12,118	7,447	3,598	N/A
Belgium/Luxembourg	1,745	402	253	115
France	3,725	2,890	1,266	322
The Netherlands	5,540	3,425	1,441	794
Denmark	1,085	686	632	168
Turkey	228	188	502	131
Hungary	2,005	1,506	2,881	3,100
Romania	98	-	-	-
Morocco	2,334	5,867	2,171	1,468
United States	932	171	-	-
Chile	321	-	-	-
China	7,446	2,972	412	-
New Zealand	516	479	661	485
Sweden	-	319	-	-
Spain	-	53	74	78
Canada	-	151	-	650
Poland	-	-	338	-
Argentina	-	-	1,408	4,486

EXPORTS

Total	1,276	2,652	851	1,272
EEC-countries	1,272	2,486	773	N/A
The Netherlands	1,116	2,128	706	775
Italy	103	268	-	-
Belgium/Luxembourg	-	-	-	484

Dry Phaseolus beans, not for seeding

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total	15,976	21,005	16,806	11,398
EEC-countries	1,593	1,787	2,456	1,846
Belgium/Luxembourg	212	459	278	203
The Netherlands	396	547	1,176	441
Italy	-	-	-	-
France	217	373	646	337
United Kingdom	762	380	345	864
Ireland	-	-	-	-
Denmark	-	-	-	-
Austria	-	57	-	-
Spain	-	68	89	-
Turkey	142	188	216	66
Hungary	-	367	-	-
Romania	1,347	1,721	-	1,069
Ethiopia	8,077	9,277	7,720	3,947
Kenya	100	1,227	-	-
South Africa	175	88	140	-
United States	2,791	3,148	3,115	2,659
Canada	131	350	743	253
Mexico	-	161	-	-
Chile	483	101	183	143
Argentina	367	1,902	1,221	852
Iran	180	89	-	-
Thailand	-	79	302	245
China	-	117	-	-
Hong Kong	-	56	-	-
Poland	-	-	24	-
Malawi	-	-	469	-
Portugal	148	-	-	-
Yugoslavia	67	-	-	-
Taiwan	50	-	-	-

EXPORTS

Total	102	866	554	384
EEC-countries	66	750	410	N/A
The Netherlands	-	-	394	131
France	-	473	-	-
United Kingdom	-	119	-	-
Austria	-	98	132	148

Dry lentils, not for seeding

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total	17,691	16,694	18,337	12,183
EEC-countries	90	145	70	-
France	-	-	52	-
The Netherlands	-	85	-	-
Turkey	404	387	477	428
U.S.S.R.	3,684	267	-	-
United States	5,672	2,501	1,727	1,061
Mexico	1,941	2,255	806	-
Chile	349	-	4,180	1,522
Argentina	5,525	10,956	10,861	8,666
China	-	139	-	-
Canada	-	-	109	420

EXPORTS

Total	296	1,179	644	1,302
EEC-countries	209	948	521	N/A
Belgium/Luxembourg	55	206	-	221
The Netherlands	141	736	516	807
Austria	-	214	100	254

Other dry pulses, not for seeding

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total	2,962	893	767	198
EEC-countries	2,304	657	358	-
France	68	60	-	-
The Netherlands	86	66	-	-
United Kingdom	2,124	494	310	-
Sweden	550	-	-	-
United States	54	-	-	-
Morocco	-	199	366	-
Canada	-	-	-	105

EXPORTS

Total	1	-	-	3
EEC-countries	0	-	-	-

Tariffs

Although the existing temporary duty-free entry of dried peas and beans is expected to continue in the foreseeable future, the EEC Concession in the MTN to lower the bound rate from 4.5 to 3 per cent will provide added security of access.

Government Policies

There is no special German state aid for the industry. There is, however, a Community measure (Decree Nr. 2358/71) from the 26th of October 1971 to encourage "the acreage for seed production". In 1978, this assistance amounted to 5 U.A.*/100 kilos for faba beans and to 4 U.A./100 kilos for dry peas. Since 1975, the area devoted to this production has decreased for field beans (856 HA in 1978 versus 1,388 HA in 1975) whereas the area for field peas has increased (1,678 HA in 1978 versus 1,296 HA in 1975).

*U.A. = units of account.

Belgium-Luxembourg

	<u>Area (HA)</u>				<u>Production (tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total Pulses	3,951	3,058	2,256	N/A	12,899	6,492	6,544	N/A
Dry Beans	1,480	1,361	926	N/A	3,805	1,824	1,862	N/A
Dry Peas	2,471	1,697	1,330	N/A	9,094	4,668	4,682	N/A

Source: FAO

Dry Peas

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>(Jan.-Aug.) 1978</u>
	TOTAL	21,265	25,951	31,641
France	8,045	11,635	16,613	5,108
The Netherlands	5,098	4,361	6,976	6,194
Morocco	961	2,439	720	
Ethiopia	185			
Mozambique	1,174		1,593	253
China	1,538			
New Zealand	2,189	2,121	1,330	1,697
West Germany				1,176
Turkey			975	
Tunisia			942	
United Kingdom				365
Argentina				1,241

Brown Beans

TOTAL	374	597	334	71
The Netherlands	340	514	261	N/A
United States			53	N/A
EEC				64

White Beans

	<u>IMPORTS</u>			
	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>(Jan.-Aug.) 1978</u>
TOTAL	16,215	21,319	15,121	6,355
Ethiopia	5,913	6,646	4,602	1,715
Kenya	1,931	1,279		
South Africa	1,466			
United States	718	2,051	2,581	884
Argentina	3,647	4,984	3,433	1,412
France	--	876	494	--
Poland		143		
Bulgaria		843		396
Chile			597	
Hungary				98
Romania				630
Albania				305

Other Beans

TOTAL	3,278	3,629	3,888	1,785
The Netherlands	742	1,648	2,271	1,178
United States	578	1,280	696	
Canada	1,169			235
France			156	
Italy		10		

Lentils

TOTAL	4,775	4,160	8,181	8,064
EEC	299	280	2,104	
Turkey	234		1,555	2,970
U.S.S.R.	855			
Morocco	628	993	888	
Ethiopia	2,430	928	1,045	
Syria				475
Mexico		411	255	
Argentina		962	2,140	2,935
United States		211		
The Netherlands			1,857	1,094
Reunion				
Venezuela				

Lentils

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>(Jan.-Aug.) 1978</u>
<u>Faba Beans</u>				
TOTAL	2,457	575	1,897	1,121
France	134	94	119	
The Netherlands	137	65		50
United Kingdom	1,680	312	1,603	369
Sweden	207		107	
Ethiopia	200			
Morocco		73		
Thailand		30		
West Germany				570
<u>Others (n.e.s.)</u>				
TOTAL	3,588	1,879	2,778	2,145
EEC	3,539	1,700		
United Kingdom	3,284	1,477	1,407	975
France	--	189	201	
The Netherlands	--	25	800	933
Turkey			77	
Morocco			77	
South Africa				88

Dry Peas

EXPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>(Jan.-Aug.) 1978</u>
TOTAL	9,801	11,131	17,523	11,084
France	788	758	1,485	727
The Netherlands	1,986	2,737	3,081	1,216
West Germany	2,835	2,524	4,783	3,438
United States	530	565	1,190	
Trinidad and Tobago	891	1,006	1,175	669
Guyana	1,422	--	397	
South Africa		866		
Italy			603	
Ireland			1,118	
Barbados			556	
Venezuela			831	
Argentina				
Algeria				2,482

Brown Beans

TOTAL	1,244	698	730	118
The Netherlands	1,216	609	619	N/A
United States				N/A
EEC				99

White Beans

TOTAL	6,160	11,414	10,712	5,323
United States	1,055	1,188	1,018	
France	2,288	7,190	7,825	3,819
West Germany	384	589		
Italy	1,399	752	396	329
Libya			342	

Other Beans

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
TOTAL	1,443	875	1,154	597
The Netherlands				113
France	215	273	399	130
Italy	828	286	442	
West Germany		87		51
Canary Islands				100
Gadeloupe				90

Lentils

TOTAL	2,519	1,962	4,200	3,468
EEC	1,581	1,396	2,874	2,752
France	1,305	847	2,133	2,416
West Germany	134	272		
Italy	79			
South Africa	492			
Trinidad and Tobago	280	290	723	554
The Netherlands		165	644	
Reunion		108		
Venezuela			414	

Faba Beans

TOTAL	390	139	30	28
EEC	363	139	29	27

Others (n.e.s.)

TOTAL	80	98	340	651
EEC	77	78	277	213
France			127	151
The Netherlands			65	
West Germany			57	
Lebanon				433
Trinidad			24	

Import Duties and Taxes

<u>Tariff Item No.</u>	<u>Description</u>	<u>Import Duty (Belgium/ Luxembourg)</u>	<u>Value Added Tax</u>
07.05	Dried leguminous vegetables, shelled - whether or not skinned or split:		
	A) <u>For sowing:</u>		
		(per cent)	
	I. Peas, including chick-peas; beans	4.5	6
	II. Lentils	2.0	6
	III. Other	5.0	6
	B) <u>Other:</u>		
	I. Peas, including chick-peas; beans	4.5	6
	II. Lentils	2.0	6
	III. Not specified	5.0	6

Source: Ministry of Finance
Customs and Excise, Brussels
January 1979

Italy

The production of dry peas (including chick-peas) remains stable, other pulses are showing a steady decline.

Consumption and imports (lentils excepted) are declining. High international prices and the consumers tendency to consider vegetable protein sources as "poor man's food" are the main reasons for this decline.

However, there has been an increased interest in lentils recently.

	<u>Area (HA)</u>				<u>Production (tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan/Nov	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan/Nov
Chick-peas	16	15	17	15	18	17	15	17
Dry peas	4	4	4	3	5	4	3	5
Dry beans	71	50	62	60	106	108	60	93
Lentils	3	2	2	2	3	2	2	2
Fababeans	206	200	161	178	252	222	178	232
Lupines	6	5	5	4	8	7	4	6
Vetches	10	10	8	9	10	9	9	8

IMPORTS

Dry chick-peas (including dry peas)

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
TOTAL	13,844	12,345	11,768	12,824
Turkey	3,230	2,257	2,225	2,218
Morocco	5,142	5,312	3,000	4,375
United States	1,148	385	-	-
France	1,280	850	-	-
Greece	1,150	197	-	-
The Netherlands	-	676	1,567	-
Hungary	-	854	-	1,653
Tunisia	-	860	815	-
Tanzania	-	-	-	793
Argentina	-	-	-	579

Dry Beans (excluding seed)

TOTAL	32,433	28,930	38,138	39,473
Argentina	14,948	13,439	14,013	20,310
United States	7,795	9,073	11,505	9,641
Chile	-	-	-	3,313
Belgium/Luxembourg	2,145	-	-	-
South Africa	-	-	3,738	2,621
Turkey	-	572	-	-

Dry Lentils

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
TOTAL	8,885	11,173	12,224	10,931
Turkey	4,220	6,353	8,010	3,374
United States	3,061	2,094	916	3,787
Morocco	1,223	1,809	1,349	-
Argentina	-	530	676	1,560
Chile	-	-	-	618

Dry Fababeans

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
TOTAL	40,773	39,398	52,907	40,290
Morocco	21,232	12,012	13,986	17,268
Turkey	4,018	-	5,574	-
France	4,080	832	-	2,055
China	3,972	6,145	-	-
United Kingdom	3,089	-	11,054	17,222
Poland	-	-	5,911	-
Algeria	-	-	7,860	-
Tunisia	-	16,086	3,693	-

Lupins (including vetches)

TOTAL	1,233	356	1,051	1,391
Thailand	448	N/A	300	613
South Africa	-	-	280	-
Malawi	-	-	-	542
United States	-	-	-	151

EXPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Dry peas (including chick-peas)	127	283	399	670
Dry beans	1,939	1,329	797	1,483
Dry lentils	123	43	112	136
Dry fababeans	89	323	187	92
Lupines (including vetches)	144	265	221	-

Duty/Tax:

Dry peas, chick-peas and dry beans - Duty 4.5 per cent declared value. VAT 3 per cent

Dry lentils - Duty 7 per cent declared value. VAT 3 per cent

Dry fababeans, lupins, vetches - Duty 5 per cent declared value. VAT 3 per cent

United Kingdom

Production of dried peas in the United Kingdom, which is showing an increasing trend, continues to be chiefly of marrowfat varieties with some acreage of small blues, although the popularity of the variety "Vedette" has declined to some extent. There is also a very limited production of yellow peas. Usage of dried peas also follows the traditional pattern, i.e., the majority of marrowfats and small blues are processed for canning, although there remains a significant trade in usage in the dried form for institutional and retail outlets.

There is virtually no production of edible dried beans in the United Kingdom, production being confined to field (faba) beans - mainly horse beans but some tick beans.

The production of white pea beans in this country, of which at one stage there was some hope of a commercial acreage, is now virtually nil and the prospects for production again on a commercial acreage remain very remote.

There is virtually no production of lentils in the United Kingdom.

The EEC aid-subsidy scheme for the production of peas and beans for use in animal feeds may possibly encourage increased production in the U.K., but present indications are that if this does transpire it will be marginal.

The U.K. remains dependent upon imports of white pea beans, chiefly from Canada and the U.S. and this very considerable market will continue. The market for imports of dried peas remains comparatively stable with a demand for yellow peas, both whole and split. With regard to other varieties, there is a small demand for red kidney beans and other varieties of coloured beans, chiefly for Continental outlets. There is a small market for green, blond and brown whole and split lentils.

The United Kingdom has now completed its transitional period of entry into the EEC and therefore, with effect from July 1, 1977, the full rates of duty were implemented on imports of pulses. These remain under tariff heading 07.05 and range from 2 per cent to 5 per cent dependent upon the commodity involved. Please note that at the present time there is a suspension of duty on imports of white pea beans valid until June 30, 1980, when it will be reviewed. It is however, likely to be maintained for a further year as from July 1, 1980.

There is no national government subsidy to support the production of pulses in the U.K. but an EEC aid/subsidy scheme has been introduced to encourage the production of peas and field (faba) beans intended for animal feed. This provides for variable aid to be paid to EEC feed manufacturers subject to proof that the peas and field beans have been incorporated in feeds. Animal feed compounders taking advantage of this scheme are required to agree to pay a minimum price to registered pea and bean growers. One objective of this aid scheme is presumably to reduce the increasing imports into the Community of protein ingredients for animal feeds, principally oilseed meals but also cereal substitutes.

The special measures cover peas, excluding chick-peas, falling within Tariff Heading 07.05BI and fababeans falling within the sub-heading 07.05BIII. The scheme is based on an activating price fixed for soyabean meal which is applicable throughout the marketing year for which it is established (i.e., July 1 - June 30). Aid is payable when the world market price for soyabean meal falls below this activating price. The activating price itself is set at a level which would enable peas and beans to compete under normal conditions with oilseed meals, at the same time ensuring a fair return to producers. The activating price to apply throughout the 1978/79 marketing year has been fixed at 285 units of account per tonne, i.e., £180.748 at the Green Rate of exchange of £ = 1.57678 uas. The price relates to soyabean meal with a total protein content of 44 per cent and a humidity content of 11 per cent.

When the average world market price for soyabean meal is lower than the activating price, the aid granted is equal to 45 per cent of the difference between the two. The average world market price is determined monthly or more regularly if necessary. For example, in December when the world price of soyabean meal was below the EEC activating price at £88.90 (140.17 uas) per tonne, the variable aid for that month was set at 45 per cent of this difference, namely £40.01 (63.08 uas) per tonne.

As a condition for the grant of such aid, participating feed compounders are required to pay registered peas and bean growers a minimum purchase price fixed for peas and beans having 14 per cent moisture content and 3 per cent impurities. There are adjustments made for differences between the actual quality and the specified standard. For the current season the minimum purchase price is £110.99 (175 uas) per tonne. For example, in December the compounders paid the grower £110.99 per tonne and received aid back from the Intervention Board for Agricultural Produce of £40.01 per tonne, resulting in an effective cost for the commodity of £70.98 (111.9 uas) per tonne.

Present indications are that the large national feed compounders are at present showing little interest in this scheme but some of the small feed companies are finding that it could be to their advantage.

Trading

The trading pattern for pulses remains as before with imports normally channelled through brokers, although some purchases are made direct by the processing companies.

Area, Production and Value
of Field (Faba) Beans

	<u>Area</u> ('000 HA)	<u>Production</u> ('000 tonnes)	<u>Value</u> (£ Million)
<u>Field (Faba) Beans</u>			
1975	40.0	95.0	9.1
1976	44.0	70.0	5.4
1977	37.0	112.0	6.1
1978 (forecast)	39.0	120.0	---
<u>Dried Peas</u>			
1975	29,516	74.5	12
1976	31,416	70.1	12
1977	37,003	94.6	18
1978 (forecast)	38,000	-----	--

UNITED KINGDOM IMPORTS

1975 1976 1977 1978
(tonnes) ('000£) (tonnes) ('000£) (tonnes) ('000£) (tonnes) ('000£)

Peas (including chick-peas)

France	-	-	-	-	-	-	36	11
Portugal	28	4	-	-	-	-	-	-
Belgium/Luxembourg	158	29	440	100	588	131	496	137
The Netherlands	1,399	320	2,709	582	4,730	1,164	2,196	514
East Germany	9	3	-	-	-	-	-	-
West Germany	-	-	48	15	365	70	-	-
Greece	7	1	2	1	-	-	-	-
Italy	-	-	-	-	-	-	12	4
Czechoslovakia	-	-	54	11	-	-	-	-
Ireland	606	714	1,003	1,016	594	410	1,221	1,182
Iceland	-	-	-	-	-	-	100	17
Denmark	-	-	114	14	300	72	-	-
Norway	-	-	-	-	-	-	1	-
Sweden	-	-	-	-	8	2	-	-
Spain	4	2	67	19	8	4	-	-
Turkey	470	77	116	17	46	20	175	93
Hungary	17	3	-	-	1,613	269	1,325	226
Bulgaria	-	-	-	-	-	-	350	60
Morocco	277	47	932	180	673	208	798	322
Mauritania	-	-	-	-	-	-	60	17
Nigeria	-	-	-	-	18	4	-	-
Ethiopia	284	32	-	-	-	-	88	20
Kenya	594	118	690	139	195	68	89	29
Tanzania	3	1	899	162	780	178	1,867	576
Malawi	683	113	577	152	2,526	637	1,142	375
Mozambique	228	36	410	100	1,190	245	54	12
Botswana	-	-	-	-	18	6	-	-
Mauritius	-	-	-	-	105	17	-	-
South Africa	-	-	-	-	-	-	88	31
South West Africa	-	-	-	-	-	-	10	3
Cyprus	4	1	13	3	11	5	14	7
Syria	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	36	19
Dubai	-	-	19	5	47	11	-	-
India	38	13	48	13	37	15	24	11
Iran	-	-	-	-	36	19	-	-
Burma	-	-	68	23	10	3	253	56
Pakistan	-	-	198	38	1,639	311	-	-
Thailand	-	-	14	7	195	92	18	5
Sri Lanka	-	-	-	-	25	10	-	-
Malaysia	91	23	98	20	66	27	182	53

(cont'd)

	<u>1975</u>		<u>1976</u>		<u>1977</u>		<u>1978</u>	
	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)
Lebanon	60	8	-	-	-	-	-	-
Singapore	19	4	180	87	311	138	414	156
Hong Kong	-	-	-	-	-	-	-	-
Australia	439	47	296	61	90	19	35	9
New Zealand	3,448	413	359	376	3,494	680	3,051	658
Canada	5,299	783	4,718	796	7,080	1,598	3,911	689
United States	10,778	1,826	9,902	1,936	7,458	1,777	4,175	835
Peru	-	-	9	2	85	23	67	17
Chile	-	-	-	-	18	4	99	43
Argentina	-	-	-	-	1	-	215	48
TOTAL	24,944	4,618	26,243	5,875	34,339	8,262	22,630	6,247

Beans (all Phaseolus)

TOTAL	93,584	20,233	101,293	30,471	89,448	24,242	93,602	27,298
France	99	39	181	63	619	151	489	156
Belgium/Luxembourg	335	65	242	65	35	12	10	5
The Netherlands	1,378	429	165	49	56	13	1,007	318
Italy	1,857	182	137	41	90	29	49	17
Denmark	-	-	-	-	-	-	18	5
West Germany	108	18	143	38	-	-	-	-
Ireland	168	70	24	22	18	5	-	-
Greece	2	1	-	-	-	-	-	-
Sweden	-	-	-	-	23	6	18	6
Switzerland	-	-	-	-	-	-	36	12
Portugal	-	-	-	-	-	-	18	6
Spain	18	10	512	158	3	2	3	2
Hungary	-	-	-	-	-	-	105	15
Turkey	5	1	12	4	5	2	-	-
Romania	-	-	4,750	1,701	300	66	1,554	554
Nigeria	-	-	-	-	-	-	347	138
Kenya	1,177	218	488	150	747	231	325	87
Madagascar	4,503	1,175	5,170	1,503	3,409	1,300	3,276	1,262
India	15	7	388	71	20	10	-	-
Sri Lanka	3	1	-	-	55	21	125	37
Cyprus	1	-	12	3	-	-	-	-
Sudan	-	-	24	6	-	-	-	-
Ethiopia	-	-	400	99	-	-	-	-
Bangladesh	-	-	5	1	-	-	-	-

(cont'd)

	1975		1976		1977		1978	
	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)
Thailand	810	146	11,514	503	3,236	1,094	1,902	492
Malaysia			49	10			25	6
China	91	16	421	116	104	30	287	75
Taiwan			52	18	5	3	17	7
Hong Kong	13	5	14	6	2	1	2	1
Japan	827	316	1,425	513	158	48		
Singapore	4	2	42	22	10	2		
Tanzania			20	4	67	13		
Malawi			346	105	118	33		
Lesotho			18	5				
South Africa	70	20	54	13	147	41		
Canary Islands					2	1		
Yemen	33	7						
Australia	148	30	655	228	1,076	374	914	196
New Zealand	13	3					18	6
Canada	49,286	9,653	56,584	16,330	43,392	10,701	15,225	3,174
United States	31,040	7,409	25,345	8,025	33,879	9,523	64,377	19,611
Peru			91	33	55	19		
Venezuela					-	-	200	61
Chile	1,305	339	1,684	479	1,521	430	2,573	867
Argentina	275	70	318	78	289	79	676	178

Lentils

France	1	1	1	1	-	-	-	-
Belgium/Luxembourg	1	-	15	4	23	7	9	4
West Germany	-	-	-	-	-	-	17	6
Italy	-	-	1	-	-	-	21	4
Spain	15	5	32	8	3	1	3	3
The Netherlands	-	-	341	124	21	5	-	-
Argentina	-	-	-	-	15	5	-	-
Malaysia	-	-	16	5	-	-	-	-
Turkey	521	172	3,377	1,049	3,894	950	5,696	1,094
Morocco	66	15	220	48	74	20	18	6
Ethiopia	6,514	1,249	5,745	1,192	2,592	586	202	35
Kenya	350	67	182	48	266	95	28	9
Singapore	-	-	-	-	10	5	-	-
Tanzania	-	-	-	-	526	106	855	222
Bangladesh	-	-	-	-	20	5	-	-
Malawi	76	15	-	-	-	-	-	-
Cyprus	1	1	4	2	6	2	-	-
Dubai	-	-	-	-	40	2	-	-
Chile	-	-	-	-	-	-	-	-

(cont'd)

	1975		1976		1977		1978	
	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)
Lebanon	1,488	498	334	142	791	292	1,272	364
India	157	40	1,790	545	1,126	304	5	3
Nepal	15	4	493	141	485	127	-	-
China	-	-	10	2	22	5	10	3
Thailand	77	19	-	-	-	-	-	-
Australia	4	1	-	-	-	-	-	-
Canada	-	-	-	-	25	8	105	27
United States	97	23	69	24	63	14	59	20
TOTAL	9,383	2,110	12,630	3,334	10,002	2,539	8,330	1,812

Broad Beans and Horsebeans

France	-	-	2	1	-	-	-	-
Netherlands	4	2	16	5	-	-	82	18
Italy	-	-	10	3	-	-	-	-
Spain	-	-	-	-	-	-	36	10
Portugal	1	1	-	-	-	-	-	-
Turkey	-	-	-	-	8	3	20	25
Cyprus	14	4	18	7	8	3	12	5
Libya	-	-	1	-	-	-	-	-
TOTAL	19	7	47	16	16	6	150	58

Imports - n.e.s.

Netherlands	1	1	130	32	21	7	-	-
Belgium/Luxembourg	116	31	-	-	-	-	1	-
France	-	-	-	-	-	-	2	1
Italy	2	1	-	-	-	-	7	4
Spain	1	-	13	3	-	-	-	-
Denmark	-	-	-	-	-	-	9	2
Sweden	-	-	-	-	-	-	5	12
Switzerland	-	-	-	-	-	-	1	-
Greece	-	-	-	-	-	-	4	3
Ireland	10	13	-	-	-	-	99	20
Ethiopia	437	60	120	20	-	-	-	-
Kenya	176	32	375	61	384	112	25	10
Cyprus	-	-	-	-	6	3	3	1
India	1	-	-	-	-	-	5	3
Tanzania	-	-	197	49	122	17	32	3
Ghana	-	-	-	-	1	-	-	-

(cont'd)

Imports - n.e.s.

	1975		1976		1977		1978	
	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)
Israel	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	1	-
Singapore	-	-	-	-	22	10	-	-
Thailand	30	5	-	-	60	39	366	102
China	10	2	71	20	95	36	171	54
Taiwan	53	15	-	-	-	-	-	-
Hong Kong	2	2	3	2	3	3	5	5
Japan	-	-	-	-	-	-	1	1
Malawi	-	-	10	3	17	5	36	15
Mozambique	-	-	50	8	-	-	-	-
South Africa	-	-	-	-	127	39	6	11
Malaysia	-	-	-	-	60	14	50	19
Australia	82	11	-	-	146	49	155	32
Canada	20	11	54	18	236	62	49	17
United States	129	25	350	103	910	294	1,109	344
Argentina	20	5	-	-	-	-	-	-
Chile	-	-	-	-	223	58	-	-
TOTAL	1,090	214	1,373	319	2,433	748	2,172	659

UNITED KINGDOM EXPORTS

	<u>1975</u>		<u>1976</u>		<u>1977</u>		<u>1978</u>	
	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)
<u>Peas (including chick-peas)</u>								
France	61	9	16	2	-	-	18	3
Belgium/Luxembourg	74	12	-	1	-	-	950	130
Netherlands	4,234	470	5,746	605	146	1,764	46,498	5,139
West Germany	71	25	9	4	-	17	537	75
Italy	-	-	-	-	-	10	38	7
Ireland	463	85	807	139	11	288	1,251	310
Denmark	-	-	25	7	-	-	4	2
Iceland	4	1	8	3	-	-	16	10
Norway	-	-	161	30	1	-	143	28
Finland	54	8	-	-	-	-	39	11
Sweden	9	3	5	6	-	-	-	-
Switzerland	-	-	1	-	-	-	-	-
Austria	11	5	5	1	-	-	7	15
Portugal	-	-	-	-	-	4	34	10
Spain	2	2	1	1	-	-	37	9
Gibraltar	-	-	2	1	-	-	2	1
Malta	57	11	9	4	-	1	183	28
U.S.S.R.	36	5	-	-	-	-	106	52
Hungary	12	2	-	-	-	-	147	28
Canary Islands	10	2	-	-	-	-	18	3
Libya	-	-	5	1	-	-	-	-
Algeria	20	7	-	-	-	-	-	-
Sierra Leone	-	-	2	1	-	-	-	-
Liberia	1	1	2	1	1	1	-	-
Ghana	-	-	-	-	-	-	2	2
Nigeria	3	5	-	-	-	-	6	5
Cameroon	-	-	-	-	-	-	1	1
Kenya	1	1	4	1	4	1	1	1
Zambia	14	18	-	-	1	1	-	-
Sudan	-	-	-	-	1	1	-	-
Saudi Arabia	-	-	2	2	-	-	-	-
Angola	-	-	-	-	-	-	1	-
Malawi	3	5	-	-	-	-	-	-
South Africa	61	60	2	3	1	2	2	4
Syria	-	-	-	-	-	-	5	2
Bahrain	21	8	-	-	-	-	-	-
Israel	-	-	18	4	18	4	-	-
Jordan	18	2	-	-	-	-	-	-
Mozambique	1	2	-	-	-	-	-	-
Lebanon	-	-	-	-	-	-	3	1
Saudi Arabia	-	-	-	-	-	-	18	6
Kuwait	-	-	-	-	-	-	11	3
Abu Dhabi	2	1	-	-	-	-	1	1
Oman	-	-	-	-	-	-	1	1
Sharjah	-	-	5	-	-	-	-	-

(cont'd)

	<u>1975</u>		<u>1976</u>		<u>1977</u>		<u>1978</u>	
	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)
Dubai	2	1	1	1	-	-	84	35
Oman	-	-	-	-	-	-	19	8
Iran	1	2	-	-	-	-	47	25
Malaysia	-	-	6	2	36	9	89	22
Laos	-	-	-	-	-	-	5	3
Thailand	-	-	-	-	1	3	-	-
Hong Kong	-	-	4	1	-	-	-	-
Singapore	-	-	-	-	95	26	-	-
Japan	5,444	814	6,290	1,195	5,883	1,337	5,933	1,258
Australia	50	46	18	3	17	5	64	26
New Zealand	-	-	-	-	-	-	310	42
Canada	87	85	155	73	314	109	157	90
United States	86	80	137	60	95	48	141	63
Papua New Guinea	-	-	-	-	4	1	-	-
Bermuda	26	7	-	-	-	-	1	1
Bahamas	95	34	113	34	105	39	70	23
Antigua	1	-	-	-	-	-	-	-
Barbados	63	19	-	-	-	-	20	2
Trinidad and Tobago	36	7	-	-	35	10	18	6
Surinam	-	-	-	-	3	1	-	-
Dominica, etc.	1	-	-	-	-	-	-	-
El Salvador	1	-	-	-	-	-	-	1
Venezuela	-	-	-	-	-	-	301	75
Jamaica	125	28	-	-	-	-	-	-
TOTAL	13,291	1,876	13,571	2,192	22,521	3,724	57,335	7,573

Beans (Phaseolus)

France	12	4	-	-	-	-	399	48
Belgium/Luxembourg	9	-	156	54	45	7	20	3
The Netherlands	68	8	318	38	199	33	1,336	177
Spain	36	12	16	6	-	-	-	-
West Germany	15	2	5	1	9	4	601	78
Ireland	65	17	90	23	28	9	59	10
Portugal	10	4	-	-	-	-	-	-
Denmark	-	-	1	-	1	-	4	2
Switzerland	-	-	2	-	-	-	-	-
Iceland	1	-	5	-	4	-	-	-
Canary Islands	2	-	-	-	5	-	-	-
Norway	-	-	1	-	-	-	1	1
Liberia	2	-	-	-	3	-	-	-
Sweden	-	-	-	-	-	-	10	3
Gabon	-	-	-	-	3	-	-	-
Malta	15	3	25	6	-	-	34	16
Lebanon	1	1	-	-	9	2	-	-

(cont'd)

	<u>1975</u>		<u>1976</u>		<u>1977</u>		<u>1978</u>	
	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)
Israel	-	-	-	-	18	3	-	-
Gibraltar	3	-	1	-	-	-	-	-
Algeria	-	-	-	-	-	-	13	7
Liberia	2	-	-	-	-	-	-	-
Nigeria	5	1	2	1	-	-	13	13
Zambia	3	1	-	-	-	-	-	-
Malawi	5	1	-	-	-	-	3	-
Kuwait	-	-	-	-	-	-	16	7
Iran	4	3	-	-	20	1	-	-
Bahrain	-	-	-	-	-	-	2	1
South Africa	149	24	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	1	-
Sierra Leone	-	-	1	-	-	-	-	-
Abu Dhabi	-	-	3	1	-	-	2	1
Dubai	-	-	-	-	17	6	8	4
Australia	45	12	56	17	73	20	33	9
Morocco	-	-	1	-	-	-	-	-
Oman	3	-	-	-	6	1	-	-
Canada	3	2	159	30	73	19	39	12
New Zealand	-	-	10	3	30	11	-	-
Hong Kong	2	-	1	1	-	-	-	-
Japan	131	13	-	-	-	-	-	-
United States	18	3	67	11	23	8	40	7
Papua New Guinea	-	-	-	-	5	-	-	-
TOTAL	609	111	920	192	571	124	2,634	399

Lentils

France	-	-	-	-	-	-	23	7
Belgium/Luxembourg	-	-	1	-	-	-	-	-
The Netherlands	1	-	16	7	-	-	10	2
West Germany	3	2	-	-	1	1	11	4
Italy	-	-	-	-	-	-	54	12
Portugal	1	-	-	-	-	-	-	-
Denmark	1	-	3	1	1	-	2	1
Switzerland	1	-	-	-	-	-	2	1
Norway	1	-	5	1	-	-	-	-
Ireland	30	11	39	15	48	13	15	5
Gibraltar	-	-	1	-	-	-	1	-
Iceland	-	-	2	-	-	-	-	-
Sweden	-	-	-	-	6	3	9	4
Canary Islands	1	1	5	2	2	2	3	2
Liberia	1	-	-	-	-	-	2	1
Nigeria	2	1	11	9	14	12	25	24
Sierra Leone	-	-	2	-	-	-	-	-

(cont'd)

	<u>1975</u>		<u>1976</u>		<u>1977</u>		<u>1978</u>	
	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)	(tonnes)	('000£)
Sierra Leone	-	-	2	-	-	-	-	-
Ghana	-	-	1	-	-	-	4	2
Lebanon	-	-	3	2	-	-	-	-
Kuwait	-	-	3	1	-	-	12	8
Libya	-	-	-	-	-	-	1	-
Oman	-	-	1	1	-	-	1	1
Zambia	1	-	-	-	-	-	-	-
South Africa	8	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	2	1	-	-
Zaire	-	-	-	-	-	-	1	-
Singapore	-	-	-	-	184	47	-	-
New Zealand	-	-	2	1	6	4	14	5
Canada	99	34	383	175	241	108	141	67
United States	33	9	58	28	219	109	123	68
Abu Dhabi	-	-	-	-	-	-	11	5
Dubai	-	-	-	-	-	-	16	7
Cuba	-	-	-	-	-	-	50	12
TOTAL	183	58	536	243	724	300	531	238

Ireland

There are no government subsidies which would encourage increased pulse production. When the dried pea crop was devastated by disease, bird damage and adverse weather in 1975, the number of acres in production decreased to 161 from 956 in 1974.

The conditions in Ireland are suitable for vegetable production, but since vegetables (including pulses) are not supported by the CAP and have to compete at the farm level with intervention products, pulse production is too risky an area for investment.

IMPORTS

Peas (including Chick-peas)

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan/Nov
TOTAL	3,539	3,563	5,519	4,567
The Netherlands	20	122	825	1,522
Britain	1,886	2,201	2,610	1,370
Northern Ireland	3	2	-	-
United States	1,562	1,156	888	862
Canada	13	-	1	107
New Zealand	52	5	-	-
France	-	18	-	-
Austria	-	55	-	-
Morocco	-	3	-	9
Belgium	-	-	1,189	677
Turkey	-	-	2	-
Morocco	-	-	4	-
West Germany	-	-	-	17
Hungary	-	-	-	2
Other	3	1	-	1

Beans (Phaseolus)

TOTAL	2,143	3,258	3,240	3,172
Netherlands	30	504	-	35
Britain	164	64	10	288
Kenya	101	91	-	-
Madagascar	17	2	-	-
United States	39	114	79	607

(cont'd)

Beans (Phaseolus)

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan/Nov
Canada	1,789	2,131	2,891	2,151
Northern Ireland	-	54	-	-
Ethiopia	-	282	-	-
Thailand	-	-	2	-
Malaysia	-	10	-	-
China	-	3	2	6
Tanzania	-	-	254	72
New Zealand	-	-	-	10
Other	3	1	-	3

Lentils

TOTAL	52	30	75	27
Britain	13	4	7	6
Ethiopia	6	-	-	10
Lebanon	20	2	-	5
Syria	1	-	-	-
Malaysia	10	-	-	-
Turkey	-	20	45	3
Morocco	-	2	3	-
Nepal	-	2	19	-
China	-	-	-	1
Other	2	1	1	2

Exports of Peas (including Chick-peas)

1975	-	30 tonnes
1976	-	237 tonnes
1977	-	113 tonnes
1978	-	5 tonnes

There are no exports of lentils; 46 tonnes of beans were exported in 1978.

Tariffs

Full Rate of Duty

(per cent)

Peas (including Chick-peas)	4.5
Beans (of species Phaseolus)	4.5
Lentils	2.0
Broad beans and horse beans	5.0
Other	5.0

Denmark

Production

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
Split peas	6,802	5,244	6,598
Broad beans	594	308	280
Feed peas and other pulses	4,078	3,102	5,962

IMPORTS

Dry Peas (including Chick-peas)

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
France	1			
Belgium/Luxembourg	2			4
The Netherlands	2	33	55	14
West Germany	10		60	231
United Kingdom	1			6
Ireland		1		
Sweden		32		7
Turkey	6	1	5	3
Hungary				40
Morocco	6	138	472	3
Kenya		3	3	
Malawi				2
United States	416	206	3	
Canada	1		1	
China		51	27	
New Zealand	125		8	

Beans (Phaseolus)

Belgium/Luxembourg		1		2
The Netherlands	84	72	84	95
Italy	2	2		
United Kingdom		19	1	42
Yugoslavia	4			
Turkey	1	3	7	
Kenya	2	40	3	

(cont'd)

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Madagascar	1		1	
United States	4	3	28	3
Canada	1		6	
Thailand	15		6	
Morocco		1		
Argentina		3		
China		12	1	
West Germany			1	
Tanzania			1	
Malawi			1	
Australia			1	
<u>Lentils</u>				
West Germany	6	1	3	6
Turkey	1	5	7	2
Kenya	4		1	
United States	16	17	30	1
Lebanon	2	2		
The Netherlands		7	4	3
Morocco		1	4	
Argentina		3		5
India		3		
Chile			19	
Belgium/Luxembourg				8
<u>Fababeans</u>				
West Germany	17	1	85	-
The Netherlands		12	41	8
China		4		-
Turkey			5	-
United Kingdom				5
<u>Others</u>				
The Netherlands		4		
Germany			1	
United States			2	
Thailand			1	1
China				2

Tariffs -- EEC tariffs are applicable.

Non-Tariff Barriers -- there are no quotas, but the Commission in Brussels may place an embargo on imports at any given time whenever they deem appropriate.

Subsidies - there are no government subsidies to encourage domestic production.

Lentils are not produced in Denmark.

EXPORTS

Dry Peas (including Chick-peas)

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
The Netherlands	48	919	605	49
West Germany	1,307	2,998	2,647	2,608
Ireland	848			
Finland	306			58
Sweden		90		
Belgium		565	246	49
Italy		20		
United Kingdom		112	265	
Norway		1,231	1,076	1,365

Phaseolus Beans

Norway	1			2
Sweden	1			
West Germany			7	
Sweden			1	
The Netherlands				1

Lentils

Belgium/Luxembourg			1	
The Netherlands			2	1

Faba Beans

West Germany	293			
Italy	101			
Norway			3	

Sweden

Sweden is not a large producer of pulses for human consumption. The climate does not lend itself to the cultivation of a wide variety of pulses. Production is confined to dry yellow peas and Dutch brown beans both of which are traditional ingredients in popular Swedish dishes. These two commodities also represent the largest import items. The consumption of other pulses such as white pea beans and lentils, which are all imported, is small but it has been growing steadily in the past decade. Imports and consumption of other coloured beans are limited with the exception of light red kidney beans for which the demand is noticeable when there are domestic or Netherlands crop failures in ordinary Dutch brown beans.

In feed peas and vetches Sweden is self-sufficient and imports are insignificant. Through government incentives started in 1973, feed bean production is estimated to have grown somewhat although no official statistics are maintained except for the area cultivated which was 6,100 hectares in 1977 and 3,300 in 1978.

	Area (HA)				Production ('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (est.)	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (est.)
Peas, dry, edible	4,600	5,300	5,800	4,800	9.2	10.6	11.6	9.6
Brown beans	N/A	N/A	N/A	N/A	2.1	1.4	1.8	1.9
Fodder peas and vetches	4,400	4,300	5,200	6,500	9.7	9.4	11.5	14.4
Faba and other field beans	N/A	N/A	6,100	3,300	N/A	N/A	N/A	N/A

IMPORTS

Dried leguminous vegetables,
shelled, whether or not split or skinned:

Chiefly for human consumption:

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan-Sept.
<u>Peas</u>				
Total	1,456	1,450	1,471	1,610
Denmark	52	7	-	-
West Germany	85	93	17	45
The Netherlands	195	74	101	-
Belgium/Luxembourg	26	15	39	20
Britain	13	27	13	26
Ireland	3	5	-	10
Hungary	5	63	-	-
Turkey	11	10	43	35
Canada	64	-	-	211
United States	992	1,143	1,238	1,238
New Zealand	10	6	-	-
Morocco	-	5	-	-
<u>Beans</u>				
Total	2,289	3,326	2,463	2,613
Denmark	6	8	-	-
West Germany	-	6	8	11
Poland	6	18	-	-
The Netherlands	1,836	2,376	1,473	2,062
Belgium/Luxembourg	6	13	47	21
Britain	10	6	-	11
Thailand	18	10	50	22
China	16	38	11	23
Taiwan	-	-	-	27
Canada	163	197	251	72
United States	219	625	596	342
Australia	-	7	-	-
South Africa	-	18	-	-

(cont'd)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan.-Sept.
<u>Other</u>				
Total	120	164	306	232
Belgium/Luxembourg	41	-	-	-
Italy	-	20	20	-
Yugoslavia	-	9	-	-
Turkey	6	18	51	73
United States	71	84	119	-
Canada	-	23	-	-
Argentina	-	6	65	118
Tunisia	-	-	20	-
<u>Other not for human consumption</u>				
Total	41	42	nil	58
Denmark	16	15		-
West Germany	25	25		58

EXPORTS

Dried leguminous vegetables,
shelled, whether or not split or skinned:

Chiefly for human consumption:

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan.-Sept.
<u>Peas</u>				
Total	141	208	601	1,355
Norway	78	102	153	58
Denmark	25	45	37	54
Finland	33	5	16	97
West Germany	-	25	78	-
Ireland	3	-	-	-
France	-	30	50	93
The Netherlands	-	-	123	1,028
Belgium/Luxembourg	-	-	150	-

(cont'd)

Beans

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan.-Sept.
Total	50	98	1,236	41
Norway	12	1	-	-
Denmark	4	6	37	-
Finland	8	16	26	21
West Germany	-	-	101	-
The Netherlands	18	-	66	-
Britain	-	-	28	-
France	-	-	506	-
Israel	-	15	418	-
Czechoslovakia	-	50	-	-
Angola	-	10	-	-
<u>Other</u>				
Total	5	14	13	15
Norway	-	3	No broken down figures on countries of consumption published.	
Denmark	4	8		
Finland	-	3		

Other not for human
Consumption

Total	614	1,010	52	659
Norway	64	-	-	-
Denmark	-	156	-	-
West Germany	550	306	48	86
The Netherlands	-	446	-	204
Belgium/Luxembourg	-	-	-	341
Israel	-	100	-	-

Import Duties and Import Levies

1. Customs Duties = Nil
2. Agricultural Import Levies

Peas	Sw Crs 63.00 per 100 kg
Beans	Sw Crs 185.00 per 100 kg
Other	Nil
Other, not for human consumption	Nil

Norway

There is no domestic production of dried pulses in Norway or Iceland.

Dried pulses enter Norway and Iceland duty free with no import restrictions.

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Dry Peas, split or whole</u>			
TOTAL	5,544	6,068	5,857
Denmark	894	1,579	1,607
Sweden	129	83	56
France	160	153	114
The Netherlands	2,439	2,245	12,424
Poland	57	116	30
United Kingdom	71	189	197
Hungary	51	34	-
Canada	634	272	300
United States	1,040	1,258	987
<u>Dry Beans, split or whole</u>			
TOTAL	501	536	644
The Netherlands	330	347	348
United Kingdom	39	-	-
Canada	91	144	199
United States	-	27	61
<u>Other dried pulses</u>			
TOTAL	55	15	23
Canada	36	-	-
The Netherlands	-	-	7

Finland

The only pulse which has any demand in Finland is green peas. It is cultivated in Finland and also imported. Other pulses are not traditional in Finnish consuming habits.

Domestic Production

	(tonnes)	HA
1975	10,500	5,200
1976	14,500	4,800
1977	12,000	5,500
1978	12,500	6,800

Imports of dried peas and beans for human consumption are subject to individual import licences by consideration of import need by the Export and Import Permit Office. The prevailing import duty for dry peas is 37 per cent of value but minimum duty is FIM 1.30/kg. The import duty for dry beans is 5 per cent and minimum duty FIM 0.37/kg. Beans for fodder are dutiable at 12 per cent with minimum of FIM 0.16/kg. Garden pea seeds are free of import duty.

Dried green peas are exclusively consumed in the form of pea soup which is traditionally eaten on Thursdays. Since the soaking and boiling of dried peas is too time consuming, it has become customary to buy pea soup in instant form. It can be found in vacuum, frozen, and in tins. Dried peas are still sold at retail but the market for peas is increasingly concentrated at the institutional and instant food production levels.

Beans and lentils are found primarily in the vegetarian-health food trade but the quantities are negligible.

Due to crop failures in 1978 and 1979, imports of green peas will have to be allowed to some extent. Under normal weather conditions Finland is self-sufficient in green peas.

IMPORTS

Peas for Human Consumption

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
TOTAL	4,782.6	322.8	11.6
Denmark	367.6	8.0	-
Sweden	32.9	3.0	11.4
West Germany	9.0	7.9	6.3
The Netherlands	3,871.8	238.5	17.3
United Kingdom	215.2	36.9	76.3
Canada	286.2	28.5	-

Beans for Human Consumption

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
TOTAL	38.5	38.5	66.6
Denmark	2.5	2.8	2.2
Sweden	7.0	6.8	13.2
West Germany	5.8	10.1	11.1
Belgium	0.5	-	-
France	0.1	-	-
The Netherlands	5.7	7.5	12.9
United Kingdom	0.9	-	-
Switzerland	0.3	-	-
Japan	0.4	-	-
Thailand	0.5	-	-
United States	13.2	4.0	9.2
Canada	0.1	-	8.2
New Zealand	1.5	-	3.3

Beans for Fodder

	(tonnes)		
TOTAL	345.8	277.2	199.0

Iceland

IMPORTS

Dried leguminous vegetables,
shelled, split or whole

Chiefly for human consumption:

Peas

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan.-Sept.
Total	390.3	353.3	319.8	328.2
Denmark	0.5	1.3	5.4	3.9
Belgium	4.3	1.9	0.5	-
United Kingdom	13.2	9.9	10.4	25.8
The Netherlands	9.3	8.8	4.4	4.2
West Germany	8.3	-	-	-
United States	347.3	320.2	299.1	290.2
Canada	7.4	11.2	-	-
Ireland	-	-	-	4.1

Domestic Production

There is no domestic production of dried pulses in Iceland. Dried pulses enter duty free with no import restrictions.

Austria

	<u>Production</u>				<u>('000 tonnes)</u>			
	<u>('000 HA)</u>							
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total Pulses	2	2	2	N/A	5	5	5	N/A
Dry Beans	-	-	-	N/A	1	1	1	N/A
Broad Beans	-	-	-	N/A	1	1	1	N/A
Peas Dry	1	1	1	1	2	2	2	2

Source: FAO Statistics

IMPORTS

	<u>(tonnes)</u>		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Beans, dried, shelled, split, skinned or not</u>			
EEC	291.7	207.3	299.1
EFTA	1.9	3.7	1.4
Eastern Europe	1,067.3	1,415.8	510.0
Yugoslavia	42.5	-	-
Greece	-	-	83.7
China	28.5	26.8	-
Ethiopia	1,759.1	1,377.1	2,088.3
Kenya	-	-	27.6
South Africa	18.0	-	-
Canada	29.4	-	90.8
United States	31.5	58.2	361.8
Chile	72.9	-	-
Argentina	-	184.1	383.9
TOTAL	<u>3,347.9</u>	<u>3,284.1</u>	<u>3,880.9</u>
<u>Peas, whole</u>			
EEC	274.4	523.4	458.0
EFTA	.1	64.1	.5
Eastern Europe	497.6	763.0	951.1
United States	266.1	22.5	75.5
Turkey	-	11.5	-
New Zealand	-	28.0	-
TOTAL	<u>1,043.9</u>	<u>1,412.5</u>	<u>1,490.2</u>

Peas, shelled or split

	<u>1975</u>	(tonnes) <u>1976</u>	<u>1977</u>
EEC	1.9	.2	1.9
EFTA	5.0	31.7	3.5
TOTAL	<u>6.9</u>	<u>31.9</u>	<u>5.4</u>

Lentils

EEC	.3	1.5	.5
EFTA	.1	-	-
Eastern Europe	20.1	-	-
United States	677.6	607.9	616.1
Argentina	98.8	316.9	178.6
Chile	30.1	-	59.6
Mexico	-	-	199.3
TOTAL	<u>830.0</u>	<u>942.3</u>	<u>1,056.2</u>

EXPORTS

	<u>1975</u>	(tonnes) <u>1976</u>	<u>1977</u>
<u>Beans dried, shelled, split, skinned or not</u>			
EEC	15.0	168.1	6.7
EFTA	15.5	33.0	23.9
TOTAL	<u>31.6</u>	<u>201.1</u>	<u>31.9</u>

Peas, whole

EEC	-	207.3	143.5
Eastern Europe	4.0	10.0	-
TOTAL	<u>5.0</u>	<u>217.3</u>	<u>143.5</u>

Lentils

EEC	-	-	23.9
-----	---	---	------

Customs Tariff

The Federal Ministry of Finance may, with the agreement of the Federal Ministry of Agriculture and Forestry, grant partial or total exemption from duty in respect of the produce of heading no. 07.05 in the event of excessive rises in prices due to an insufficiency of supplies for the market.

Tariff Number (EUST.)	Description	Duty rates in per cent ad valorem or in Schilling/100 kilo		
		GATT (Canada)	EEC	EFTA
07.05	Dried leguminous vegetables, shelled, whether or not skinned or split;			
	A. Beans	free	free	free
	B. Peas			
	1. Whole	10%	10%	10%
	(a) chick-peas	AS21.00	AS21.00	AS21.00
	(b) other	AS56.00	AS56.00	AS56.00
	2. Shelled or split	15%	15%	15%
	C. Lentils	free	free	free

Switzerland

Area and Production

There are two main categories produced in Switzerland, dry beans and dry peas.

	<u>Production</u>				<u>Production</u>			
	(HA)				('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978*</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (est.)
Dry beans	1,011	650	216	200	3,356	1,300	713	N/A
Dry peas	<u>1,590</u>	<u>1,776</u>	<u>1,846</u>	<u>N/A</u>	<u>6,079</u>	<u>8,352</u>	<u>8,240</u>	<u>N/A</u>
Total pulse	2,601	2,426	2,062		9,435	9,652	8,953	

* Estimated

IMPORTS

Dry Peas

	<u>(tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan-Nov
West Germany	133	175	75	
France	24	47	74	
The Netherlands	165	245	205	
Austria	22	90	-	
Hungary	1,955	2,176	2,000	
Romania	98	-	-	
United Kingdom	4	-	-	
United States	121	-	35	
Morocco	49	-	-	
Czechoslovakia	18	-	-	
Yugoslavia	-	38	-	
East Germany	-	64	-	
Greece	-	-	5	
New Zealand	-	-	14	
Others	<u>3</u>	<u>5</u>	<u>-</u>	<u>-</u>
Totals	<u>2,661</u>	<u>2,840</u>	<u>2,409</u>	<u>2,461</u>

Breakdown of pea imports by end use in 1977 (tonnes)

For Seed

West Germany	111
France	12
Hungary	303
The Netherlands	183
Greece	5
United States	4
	<u>618</u>

For Food

Hungary	1,355
France	4
	<u>1,359</u>

For Feeding

Hungary	17
France	59
	<u>76</u>

Soup Manufacturer

Hungary	352
The Netherlands	25
	<u>377</u>

Dry Beans

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan.-Nov.
West Germany	85	95	76	
France	306	264	324	
Italy	92	94	72	
The Netherlands	170	204	228	
Greece	6	27	54	
Spain	-	24	127	
Austria	-	33	24	
China	-	16	-	
Tanzania	-	-	49	
Portugal	25	539	-	
Poland	109	25	170	
Hungary	34	174	15	
Tanzania	33	68	-	
Ethiopia	213	18	204	
Argentina	73	414	-	
Canada	143	107	91	
United States	1,392	33	358	
Chile	50	16	308	
Others	50	12	20	
	<u>2,781</u>	<u>2,251</u>	<u>2,120</u>	<u>2,130</u>
Totals	<u>2,781</u>	<u>2,251</u>	<u>2,120</u>	<u>2,130</u>

Breakdown of bean imports by end use for 1977 (tonnes)

<u>For Seed</u>		<u>For Food</u>	
West Germany	44	Ethiopia	205
France	11	France	104
Italy	3	Italy	63
The Netherlands	190	The Netherlands	25
Tanzania	16	Poland	168
United States	21	Greece	19
Greece	35	Tanzania	34
	<u>320</u>	United States	360
		China	4
		Chile	295
		Spain	155
		Canada	110
		Others	12
			<u>1,554</u>
 <u>For Technical Use</u>			
France	177		
The Netherlands	23		
	<u>200</u>		
 <u>For Feed</u>			
France	49		

Horsebeans, Lentils, Chick-peas

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> Jan.-Nov.
West Germany	108	14	71	
France	88	38	-	
Italy	13	11	11	
United Kingdom	21	14	19	
The Netherlands	-	13	-	
Portugal	39	-	-	
Turkey	44	70	-	
Spain	-	-	25	
Austria	15	-	-	
United States	521	481	492	
Mexico	10	18	59	
Poland	17	-	-	
New Zealand	25	-	-	
Morocco	37	63	20	
Argentina	-	-	97	
Canada	19	-	-	
Others	33	1	3	
Totals	<u>990</u>	<u>723</u>	<u>807</u>	<u>859</u>

Breakdown of horsebeans imports by end use for 1977 (tonnes)

<u>For Seed</u>		<u>For Feed</u>	
West Germany	<u>2</u>	United Kingdom	<u>20</u>
<u>For Food</u>		<u>For Technical Use</u>	
France	3	France	<u>6</u>
Italy	<u>1</u>		
Total	<u>4</u>		

Breakdown of lentil imports by end use for 1977 (tonnes)

<u>For Food</u>	
France	35
Italy	5
United States	498
Turkey	2
Argentina	<u>99</u>
Total	<u>649</u>

Breakdown of Chick-peas imports by end use for 1977 (tonnes)

<u>For Food</u>	
France	1
Italy	5
Morocco	20
Mexico	<u>60</u>
France	<u>86</u>

Developments

Since 1974 the acreage for dry beans has decreased from 1,310 HA to 200 HA in 1978 and most probably will remain at this level in the foreseeable future. The production premium of Sw.Fr. 750. per HA was increased to Sw.Fr. 800. per HA. There is still no premium paid for the production of dry peas.

Import Duties

Imports of whole pulses are subject to a duty rate of Sw.Fr. 0.90 per 100 kilos gross weight.

An import permit is required issued by the Société coopérative suisse des céréales et metières fourragères.

The duty rate for "worked" pulses (split, skinned, etc.) amounts to Sw.Fr. 4.50 per 100 kilos gross weight. No import permit is required.

Present exchange rate: approximately 1 Cdn.\$ = Sw.Fr. 1.35

Portugal

Area (hectares)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Fababeans	40,400	41,800	27,390	35,339
Chick-peas	39,900	41,200	34,909	39,819
Beans	301,100	270,000	266,902	265,096

Production (tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Fababeans	25,900	26,200	14,776	16,748
Chick-peas	15,000	14,700	11,229	15,828
Beans	39,300	31,700	37,743	38,497

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan./Oct.)
Fababeans	344.8	328.5	332.3	368.4
Chick-peas	469.4	101.7	1,710.0	231.1
Beans	16,008.5	12,079.1	26,819.1	4,733.0
Peas	305.0	838.1	994.2	657.0
Lentils	5.2	11.5	34.8	1.5

EXPORTS

(tonnes)

Fababeans	999.6	1,522.5	575.1	677.6
Chick-peas	603.9	360.9	91.0	245.1
Beans	6,216.7	2,513.5	2,435.7	1,817.2
Peas	8.0	15.0	12.2	2.5

IMPORTS BY SUPPLYING COUNTRY

Dried Fababeans

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan./Oct.)
France	0.5	0.3	0.3	-
United Kingdom	324.3	304.6	276.0	227.5
United States	20.0	-	-	26.5
The Netherlands	-	19.6	17.9	-
Spain	-	4.0	38.1	114.4
	<u>344.8</u>	<u>328.5</u>	<u>332.3</u>	<u>368.4</u>

Chick-peas

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan./Oct.)
Turkey	346.1	-	379.6	35.3
Morocco	123.4	101.7	746.4	-
The Netherlands	-	-	30.0	-
Spain	-	-	31.7	-
Mexico	-	-	522.3	195.8
	<u>469.5</u>	<u>101.7</u>	<u>1,710.0</u>	<u>231.1</u>

Beans

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan./Oct.)
Belgium/Luxembourg	19.8	15.0	19.8	-
France	0.9	0.2	-	1.0
The Netherlands	0.5	12.7	48.0	133.8
Italy	0.4	17.9	89.8	-
United Kingdom	1.4	-	67.9	44.8
South Africa	107.6	2,293.4	2,464.5	53.3
Angola	7,142.2	-	-	-

(cont'd)

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan./Oct.)
Republic of Angola	178.8	953.6	-	-
Mozambique	6,232.0	-	-	-
Rep. of Mozambique	1,996.5	6,906.6	5,152.1	1,550.0
Brazil	24.2	5.0	72.6	50.0
United States	302.2	122.3	1,128.2	602.0
Japan	1.1	3.1	3.5	0.9
Macao	1.0	-	0.9	0.6
Bulgaria	-	98.2	-	-
Spain	-	493.5	7,063.5	56.2
Argentina	-	1,149.3	2,227.9	1,149.2
Chile	-	7.3	888.2	1,029.0
Hong Kong	-	0.1	-	0.6
India	-	1.0	-	-
West Germany	-	-	-	-
East Germany	-	-	0	-
Greece	-	-	39.4	-
Turkey	-	-	159.3	-
Malawi	-	-	1,019.7	60.0
Mexico	-	-	197.6	-
Peru	-	-	49.5	-
Canada	-	-	125.4	-
Thailand	-	-	1.6	-
China	-	-	-	0.6
	<u>16,008.6</u>	<u>12,079.2</u>	<u>26,819.4</u>	<u>4,732.0</u>

Dried Peas

Belgium/Luxembourg	7.4	7.4	68.6	3.5
France	2.2	10.2	0.5	0.4
The Netherlands	187.5	653.1	698.1	430.7
United Kingdom	46.0	125.4	114.4	196.7
Hungary	10.0	-	-	-
United States	17.4	17.4	21.4	7.5
New Zealand	34.5	-	49.5	-
West Germany	-	24.6	-	-
Denmark	-	-	0.3	-
Turkey	-	-	21.6	-
Chile	-	-	19.8	-
Argentina	-	-	-	18.2
	<u>305.0</u>	<u>838.1</u>	<u>994.2</u>	<u>657.0</u>

Lentils

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan./Oct.)
Belgium/Luxembourg	0.2	1.5	5.0	-
Morocco	5.0	5.0	5.0	-
The Netherlands	-	3.0	-	-
United States	-	2.0	-	-
Spain	-	-	24.9	-
France	-	-	-	1.5
	<hr/>	<hr/>	<hr/>	<hr/>
	5.2	11.5	34.9	1.5
	<hr/>	<hr/>	<hr/>	<hr/>

EXPORTS

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan./Oct.)
<u>Dried Fababeans</u>				
France	22.5	-	43.4	-
Switzerland	0.9	-	-	-
South Africa	2.0	-	-	-
Republic of Angola	0.8	-	-	4
Cape Verde	0.2	-	-	0.2
Guiné-Bissao	0.1	-	-	-
Mozambique	21.0	-	-	-
Rep. of Mozambique	11.2	-	-	-
Canada	6.4	87.8	38.1	75.9
United States	263.5	284.2	187.2	135.4
Cyprus	69.3	-	-	-
Japan	513.4	1,139.6	306.4	462.1
Lebanon	79.2	-	-	-
Australia	8.9	9.9	-	-
United Kingdom	-	1.0	-	-
	<hr/>	<hr/>	<hr/>	<hr/>
	999.4	1,522.5	575.1	677.6
	<hr/>	<hr/>	<hr/>	<hr/>

Chick-peas

West Germany	5.9	1.6	-	15.4
The Netherlands	5.0	-	-	-
United Kingdom	29.7	0.1	-	-
Switzerland	37.4	-	-	-

Chick-peas

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan./Oct.)
South Africa	16.4	20.8	7.4	15.0
Angola	145.2	-	-	-
Rep. of Angola	26.9	170.1	21.6	0.5
Cape Verde	40.1	-	-	-
Rep. of Cape Verde	9.3	22.8	6.7	2.2
Guiné-Bissao	5.1	11.9	8.8	0.8
Mozambique	26.6	-	-	-
Rep. of Mozambique	15.8	11.7	-	-
Sao Tomé e Principe	2.8	-	-	-
Rep.Sao Tomé e Principe	6.7	35.1	39.1	-
Brazil	0.1	-	-	-
Venezuela	30.0	-	-	12.0
Canada	6.2	6.2	-	2.4
United States	52.0	5.7	-	42.5
Macao	4.2	3.7	2.4	1.1
Australia	138.5	24.7	4.9	134.3
Spain	-	46.5	-	18.8
Ships	-	-	0.1	0.1
	<u>603.9</u>	<u>360.9</u>	<u>91.0</u>	<u>245.1</u>

Beans

West Germany	107.7	40.6	2.8	8.9
Italy	41.6	-	-	-
United Kingdom	1.5	0.2	-	0.6
Switzerland	24.4	-	-	-
Spain	74.9	14.9	29.2	-
South Africa	5.9	-	-	1.2
Rep. of Angola	0.4	10.0	21.3	8.0
Cape Verde	4,011.8	-	-	-
Rep. of Cape Verde	33.1	1,289.6	1,573.6	1,386.5
Guiné-Bissao	10.3	15.4	27.0	6.8
Mozambique	12.8	-	-	-
Rep. of Mozambique	4.7	7.6	-	-
Sao Tomé e Principe	12.8	-	-	-
Rep.Sao Tomé e Principe	162.1	711.9	276.3	250.0
Dominican Republic	1,296.9	-	-	-
Venezuela	389.1	331.9	413.1	110.0
Canada	2.5	1.0	-	-

(cont'd)

Beans

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan./Oct.)
United States	16.3	-	88.1	36.6
Australia	8.8	-	3.0	-
Belgium/Luxembourg	-	49.0	-	5.1
France	-	0.1	-	-
Rep. of Zaire	-	40.0	-	-
Macao	-	1.3	1.0	0.3
Gibraltar	-	-	-	1.1
Others	0.1	-	0.3	2.1
	<hr/> 6,216.9	<hr/> 2,513.5	<hr/> 2,435.7	<hr/> 1,817.2

Dried Peas

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan./Oct.)
Rep. of Angola	7.8	-	6.6	-
Cape Verde	0.1	-	0.2	-
Ships	0.1	-	-	-
United Kingdom	-	15.0	-	-
Guiné-Bissao	-	-	5.2	-
Rep. Sao Tomé e Principe	-	-	0.2	2.5
	<hr/> 8.0	<hr/> 15.0	<hr/> 12.0	<hr/> 2.5

Import Prices

- Fababeans - U.S.\$420/\$430 per tonne CIF Lisbon
- Chick-peas - U.S.\$620/\$650 per tonne CIF Lisbon
- Beans - (CRANBERRY U.S.\$480/\$500 per tonne CIF Lisbon
(White Beans (ALUBIA) U.S.\$460/\$490 per tonne
CIF Lisbon
- Peas - From England £225 CIF Lisbon
From Netherlands Dutch Gilder \$900/\$1000 per
tonne CIF Lisbon

Duties

	<u>per kg.</u>	
Fababeans	Esc. 1\$20	Esc. \$40*
Chick-peas	" \$80	" \$40*
Beans	" \$80	" \$40*
Peas	" 1\$60	" \$40*
Lentils	" 1\$60	" \$40*

* Applicable only for seeds authorized by the General Directorate of Agricultural Department.

Tariff Barriers and Quotas

No tariff barriers or quotas are imposed on the Portuguese firms involved in the pulses trade but an import permit is required. In view of the actual balance of payments deficits, the government has imposed restrictive measures on imports, and importers are experiencing certain difficulties in obtaining import permits.

Government Policy

The Portuguese Department of Agriculture has no programs to aid farmers to increase domestic production of pulses.

Lentils

As far as lentils are concerned the quantities imported are negligible. This is due to the fact that the Portuguese, as a rule, do not eat lentils. Only the hotel industry imports them for their guests. In conclusion, the future prospects regarding internal demand are limited.

Spain

	<u>Production ('000 tonnes)</u>				<u>Area ('000 HA)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Dry beans	108	99	70	84	167	162	157	145
Dry broad beans	116	108	90	111	117	104	98	100
Lentils	55	35	63	61	71	73	71	77
Chick-peas		55	56	69		103	101	109
Peas	8	7	6	7	10	7	7	8
Vetch		41	38	50		63	47	47
Bitter vetch		29	45	59		57	53	61

Domestic Consumption ('000 tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Dry beans	122	103	70	87
Dry broad beans	134	122	92	93
Lentils	54	39	60	58
Peas	8	10	11	11

Imports of Pulses

	<u>(tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>Jan.-June 1978</u>
White beans	14,614	8,679	9,270	10,729
Pinto beans	304	589	358	1,961
Broad beans	19,062	14,362	3,872	647
Lentils	3,934	8,563	5,498	2,029
Chick-peas	30,375	31,928	28,538	14,452
Peas	7,958	3,524	4,564	1,888

Principal Supplying Countries

White beans	--	Argentina and the United States
Broad beans	--	Poland, Morocco and the United Kingdom
Lentils	--	Morocco and the United States
Chick-peas	--	Morocco and Mexico
Peas	--	Argentina and the United States

No price indications for pulses are currently available.

Import Tariffs

Under the Brussels Nomenclature Tariff, which is used by Spanish Customs, dried pulses come under Heading 07.05.

Current levies are 1 per cent Import Duty ad valorem plus 7 per cent Fiscal Compensatory Tax on beans, lentils and chick-peas; 3.5 per cent on broad beans and 7 per cent plus 7 per cent on peas.

There are also some variable levies and tax reductions during different times of the year.

Exports of Pulses

Spain only has minimal quantities of pulses available for export, but sometimes quantities of small lentils are exported and replaced by the larger imported sizes. The only significant figures over the last four years are as follows:

1975 - 5,176 tonnes of lentils to France
1976 - 3,848 tonnes of white beans mainly to Portugal,
Cuba and the United Kingdom
" - 2,016 tonnes of lentils to France
" - 1,276 tonnes of pinto beans to Italy
1977 - 7,517 tonnes of lentils to France
" - 5,892 tonnes of pinto beans to France and Portugal
" - 1,944 tonnes of white beans to Portugal
1978 (Jan.-June) 2,864 tonnes of lentils to France

Greece

Production

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Dry beans*	44,298	43,402	42,070	44,490
Horsebeans	9,794	8,718	7,925	7,900
Chick-peas	17,390	12,935	10,100	10,660
Lentils	6,815	5,795	3,320	4,010
Fababeans	1,181	1,240	1,030	1,830
Peas	901	355	455	493

Source: Ministry of Agriculture

*Note Beans cover mostly white dry beans, although small quantities of coloured beans are also produced.

IMPORTS

	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (8-month period)
Beans	2,659	154	3,630	1,161
Chick-peas	--	--	--	56
Peas	267	304	480	252
Lentils	4,590	5,428	5,127	6,069
Fababeans	--	--	68	145
Horsebeans (etc.)	--	--	149	148

EXPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (8-month period)
Beans	700	721	500	186
Chick-peas	155	144	465	--
Peas	--	--	--	--
Lentils	--	--	--	--
Fababeans	58	109	71	--
Others	--	--	20	50

The Greek Government, in order to protect domestic production, classifies Pulses under Import List "A", which requires a special approval of the Greek Ministry of Commerce.

Every year about December, the Greek authorities announce the quantities to be imported under an import quota system, with quantities varying from year to year. Lentils is the principal item imported, as production is not sufficient; beans and chick peas requirements are much lower. Although the Greek Government encourages production of pulses in general, it appears that growers are gradually dropping these crops. In light of this, import requirements will grow from year to year.

When the EEC Accession Treaty, which was signed on May 28, 1979, is put into effect on January 1, 1981, all import quota restrictions will be lifted. However, Greece will be following up as from that date Common Market practices and programs which are announced in advance.

Import Duties on Pulses from Non-EEC Countries

<u>Tariff Item</u>	<u>Commodity</u>	<u>Basic Duty</u> (per cent)	<u>Basic Duty plus Surcharges</u> (per cent)
07.05 A	Beans	4.5	7.674
07.05 A	Chick-peas	4.5	7.674
07.05 A	Peas	4.5	7.674
07.05 B	Lentils	2	5.114
07.05 C	Horsebeans	5	8.186
07.05 C	Fababeans	5	8.186

Note: No basic import duties are levied on imports from EEC countries, but only surcharges which are 3.66 per cent for all above pulses.

Turkey

The following tables summarize Turkish pulse production during the period 1970-1977. Unfortunately more detailed figures (particularly for lentils) are not available.

	<u>('000 HA)</u>				<u>(tonnes)</u>			
	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
Broad beans	34	31	30	30	54	50	48	50
Peas	3	3	3	4	4	4	4	6
Chick-peas	175	140	138	138	195	172	170	180
Dry beans	100	94	102	104	145	155	159	160
Lentils	117	125	186	240	120	135	210	260
Kidney beans	2	2	2	2	2	3	2	2
Cow vetch	105	103	103	119	75	85	90	100
Wild vetch	60	60	56	48	60	60	58	46
Others	10	10	10	7	11	12	12	9
Total pulses	606	568	630	692	666	676	753	812

Consumption

Unfortunately no reliable figures on per capita consumption of pulses are available, however, some estimates were made for the years 1967, 1972 and 1977 amounting to 9.4 kg., 8.5 kg., and 9.8 kg. respectively.

EXPORTS

	<u>(tonnes)</u>	
	<u>1974</u>	<u>1975</u>
<u>Chick-peas</u>		
West Germany	136	165
Australia	78	2
Austria	4	6
Belgium	2	857
United States	50	127
Denmark	3	-
Philippines	115	-
France	4,478	3,576
Algeria	1,000	3,050
The Netherlands	200	589
Iraq	1,099	2,200
United Kingdom	372	417
Cyprus	219	-

(cont'd)

(tonnes)

	<u>1974</u>	<u>1975</u>
Malta	-	200
Iran	-	10
Spain	-	485
Israel	117	358
Sweden	9	8
Switzerland	658	41
Italy	7,226	3,305
Canada	10	2
Colombia	50	-
Kuwait	111	26
Libya	1,052	450
Lebanon	10,843	2,956
Portugal	169	500
Romania	200	200
Syria	-	167
Saudi Arabia	140	648
Jordan	179	142
Yugoslavia	195	-
Other Asian countries	65	-

Beans

West Germany	10	134
Australia	-	5
Denmark	-	1
Iraq	1,049	-
Cyprus	169	-
Israel	250	-
Switzerland	35	-
Italy	609	235
Lebanon	461	15
Greece	158	-
Total	2,742	389

Broad Beans

West Germany	-	10
United Kingdom	25	10
Israel	20	177
Switzerland	692	-
Italy	5,381	4,450
Libya	-	100
Jordan	14	-
Total	6,132	4,748

(tonnes)

	<u>1974</u>	<u>1975</u>
<u>Green Lentils</u>		
West Germany	66	44
Australia	53	16
Austria	-	1
Belgium	415	215
Bulgaria	300	-
Denmark	1	-
France	2,863	204
Iraq	400	700
United Kingdom	72	37
Cyprus	55	-
Israel	279	1,063
Sweden	2	3
Switzerland	190	-
Italy	5,934	4,619
Japan	-	3
Kuwait	21	49
Libya	110	-
Lebanon	7,930	4,920
Portugal	5	-
Saudi Arabia	13	5
Jordan	-	20
Yugoslavia	100	-
Other Asian countries	-	7
Total	18,811	11,906
<u>Red Lentils</u>		
West Germany	115	278
Austria	-	2
Belgium	-	7
United States	30	101
Denmark	1	1
France	-	11
The Netherlands	2	74
Iraq	2,497	1,559
United Kingdom	12	623
Cyprus	-	5
Israel	-	550
Sweden	-	2
Switzerland	51	2
Italy	15	25
Canada	-	5
Columbia	2	300

(cont'd)

(tonnes)

	<u>1974</u>	<u>1975</u>
<u>Red Lentils</u>		
Kuwait	8	81
Libya	-	25
Lebanon	1,169	21,819
Syria	-	14
Saudi Arabia	34	127
Jordan	39	267
Venezuela	-	2
Other Asian countries	-	85
Total	3,974	25,964

Kidney Beans

Cyprus	41	-
Israel	45	-
Italy	25	-
Total	111	-

Others

Cyprus	1	-
Israel	10	70
Total	11	70

Figures for 1976 and 1977 are not yet available.

Exports in 1978

<u>Commodity</u>	<u>Quantity</u> <u>(tons)</u>	<u>Revenue</u> <u>(U.S.\$ 1000)</u>	<u>Average Price/</u> <u>Ton (U.S.\$)</u>
Lentils	88,175	23,441	266.85

Export Targets for 1979

<u>Commodity</u>	<u>Quantity (tons)</u>	<u>Revenue (U.S.\$ 1000)</u>	<u>Average Price/ Ton (U.S.\$)</u>
Lentils	75,000	25,280	337.07

Imports

Turkey does not import pulses because the Turkish Import Regime prohibits the importation of most agricultural products and food items, including pulses.

Union of Soviet Socialist Republics

Pulse Production, 1975-77 ('000 tonnes)

	<u>Lentils</u>	<u>Fodder Beans</u>	<u>Peas</u>	<u>Beans</u>
1975	13	13	4,036	69
1976	5	18	6,886	86
1977	8	22	5,628	116

Pulse Exports

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>
Czechoslovakia	9,477	-	-
East Germany	6,953	2,993	-
Cuba	28,464	32,226	43,065
Others	<u>5,078</u>	<u>1,993</u>	<u>-</u>
TOTAL	49,972	37,212	43,065

Note: Exports to Cuba during the years 1975-77 consisted entirely of peas.

Yugoslavia

	('000 HA)			Production ('000 tonnes)		
	1975	1976	1977	1975	1976	1977
Beans	46	46	48	166	140	170
Peas	16	16	17	12	16	18
Lentils		N/A			N/A	

EXPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Dry Beans</u>			
Austria	33	2	16
Czechoslovakia	5	14	6
East Germany	2	3	7
West Germany	62	30	-
Italy	299	466	151
U.S.S.R	-	5	8
Switzerland	30	13	6
Sweden	2	-	-
Angola	11	-	-
Mozambique	10	-	-
Jordan	-	30	-
Nigeria	1	1	-
Iraq	-	-	2
Gabon	-	-	1
India	-	-	0.1
Greece	-	-	-
TOTALS	<u>458</u>	<u>564</u>	<u>198.1</u>

Lentils

West Germany	21	-	-
Switzerland	-	5	-
Greece	-	-	48
TOTALS	<u>21</u>	<u>5</u>	<u>48</u>

IMPORTS

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Dry Beans</u>			
Argentina	908	-	5,841
Bulgaria	-	80	376
Hungary	-	1,250	336
Ethiopia	-	-	1,930
Mexico	-	-	4,000
United States	-	-	2,629
TOTALS	<u>908</u>	<u>1,370</u>	<u>12,112</u>
 <u>Lentils</u>			
West Germany	56	-	-
Panama	298	-	-
Morocco	140	-	-
United States	250	404	50
Turkey	-	-	140
TOTALS	<u>744</u>	<u>404</u>	<u>190</u>

Tariffs and Subsidies

The import of these commodities calls for counter-trade in the range of 50 per cent of the value of imported goods. In addition to the customs duty of 22 per cent, the authorities may impose an extra duty in order to protect the domestic production (in case of a good crop). The government subsidies to encourage domestic production and exports are 15 per cent for exports to Western European countries plus an additional 10 per cent for overseas countries or underdeveloped countries. No premium is envisaged for Eastern European countries with payment in dollars.

Poland

Production

	<u>('000 HA)</u>				<u>('000 tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total Pulses	205	208	211	174	215	222	227	204
Dry Beans	8	9	10	9	9	12	14	13
Peas Dry	67	69	71	56	83	86	89	80

Source: FAO Statistics

Pulse crops - area and production

	<u>1976</u>		<u>1977</u>	
	<u>('000 HA)</u>	<u>('000 tonnes)</u>	<u>('000 HA)</u>	<u>('000 tonnes)</u>
Pulses -- total	199	230	180	205
Edible	37	52	42	56
For feed	162	178	137	149
Private farm production edible	N.A	N.A	N.A	35
For feed	N.A	N.A	N.A	55
State farm production edible	N.A	N.A	N.A	21
For feed	N.A	N.A	N.A	94

Imports of Peas for Human Consumption

<u>Source</u>	<u>1976</u>	<u>1977</u>
	<u>(tonnes)</u>	
East Germany	2,525	-
Hungary	5,487	4,221
Other	8,012	4,221

Exports of Beans

<u>Destination</u>	<u>1976</u>	<u>1977</u>
	(tonnes)	
Austria	375	210
Belgium	145	100
Switzerland	175	105
Italy	-	40
Other	847	455

Tariffs

Dried pulses shelled, whether or not skinned or split:

	<u>I (MFN)</u>	<u>II</u>
Seed	free	3
Edible	5	8
Fodder	free	3
Other	10	15

Quotas do not exist, but shortages of foreign currency may prevent imports.

Government Subsidies

There are no subsidies, but the level of production of pulses is state manipulated by means of purchasing prices paid to farmers. Prices are the same for private farmers and state farms. Purchasing prices for pulses for fodder have been increased recently to encourage farmers to grow more pulses.

Czechoslovakia

Generally the export of pulses from Czechoslovakia is negligible but the import of some kinds of pulses is quite high (especially of lentils). Unfortunately no figures are available on either of these.

	<u>Area (HA)</u>		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
Total	99,693	106,298	96,849
Peas (edible)	16,994	13,783	15,160
Lentils	1,396	1,237	1,492
Beans (edible)	3,940	4,399	3,784
Peas for feeding	19,020	14,126	14,883
Fababean	2,780	2,240	2,146
Horse bean	44,832	64,137	53,797
Other pulses for feeding	1,127	729	673

Total output of edible pulses

	<u>1975</u>	<u>1976</u>	<u>1977</u>
'000 tonnes	29	24	30

Consumption of pulses per capita

1975 -- 1.3 kg; 1976 -- 1.5 kg.

Rate of duties
in crowns (koruny)
per 100 kg. (gross weight)

Tariff Nos.	Description of Goods	General Conventional	
		Tariff	Tariff
31	Peas, Lentils, Beans:		
	(a) Peas and Lentils	9	9
	Peas	2.50	2.50
	(b) Beans	0.72	0.72
32	Vetches, Lupines;		
	Vetches	1.885	1.570
	(b) Lupines	0.18	0.15

Hungary

Domestic Production (000 tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>
Dry peas	116	126	96
Dry beans	18	8	3

There are no production subsidies.

1977 Imports: Dry beans 750 tonnes, dry peas 3,629 tonnes.

1977 Exports: Dry beans 84 tonnes, dry peas 36,038 tonnes.

Tariffs: Preferential rate for peas and beans 0, MFN 30 per cent. General 60 per cent.

Lentils: Hungary imports 1,000 to 1,500 tonnes annually, mostly the Turkish variety. In 1978, 1,500 tonnes were imported from the Middle East, especially Lebanon.

Romania

Production

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Dry beans	81,600	74,400	83,100	N/A
Dry peas	29,300	11,900	9,600	N/A

Trade

Between one and five per cent of the pulse crop is exported, mainly white beans. Romania has no imports of pulses and reports indicate that there is no interest by Romania in importing pulses.

Imports of lentils and fababeans are insignificant and there is no domestic production.

MIDDLE EAST

Iran

	<u>Area ('000 HA)</u>				<u>Production ('000 tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total Pulses	202	207	218	229	190	200	211	222
Dry Beans	94	96	105	114	97	102	111	120
Broad Beans	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Peas Dry	20	22	23	25	23	28	30	31
Chick-peas	35	36	37	37	40	40	40	41
Lentils	53	53	53	N/A	30	30	30	N/A

Source: FAO Statistics

Iraq

	<u>Area ('000 HA)</u>				<u>Production ('000 tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total pulses	51	58	63	N/A	39	46	53	N/A
Dry beans	13	11	12	N/A	7	8	9	N/A
Broad beans	20	26	29	N/A	18	25	28	N/A
Peas dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chick-peas	12	14	15	15	8	7	9	9
Lentils	5	6	6	N/A	5	5	6	N/A

Source: FAO Statistics

Production

<u>Lentils</u>	<u>Area (HA)</u>	<u>Production ('000 tonnes)</u>
1974-75	2,056	4
1975-76	2,284	5

Chick-peas

1974-75	4,618	7
1975-76	5,611	7

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>
<u>Lentils</u>		
Syria	2,381	N/A
Turkey	5,554	7,435
Ethiopia	3,062	N/A

(tonnes)

	<u>1975</u>	<u>1976</u>
<u>Harvested Beans</u>		
Syria	90	N/A
Sweden	1,993	3,334
Ethiopia	241	N/A
Kenya	571	N/A
United States	36	N/A
Canada	369	N/A
Argentina	11,768	9,641
 <u>Peas</u>		
Hungary	248	-
The Netherlands	-	100
 <u>Chick-peas</u>		
Syria	1,108	
Bulgaria	17	
Hungary	2,340	1,262
Turkey	2,551	1,236
Morocco	-	495

As a general policy, the government of Iraq subsidizes prices of agricultural products. Prices of products and commodities are all set by the government.

Israel

Israel does not grow significant quantities of any beans, peas or lentils. Supplies are mainly imported.

IMPORTS

(tonnes)

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
<u>Beans, dried, shelled (white only)</u>				
TOTAL	5,788	5,017	5,182	5,250
Canada	217	-	24	36

Main suppliers are Argentina, Romania, the United States, Switzerland and New Zealand.

Peas, dried and shelled

TOTAL	761	574	1,568	1,018
-------	-----	-----	-------	-------

Main suppliers are Romania, the United States, Argentina, Hungary; no peas are imported from Canada.

Lentils, whole, dried and shelled (green and red only)

TOTAL	1,075	1,049	1,710	711
-------	-------	-------	-------	-----

Main suppliers are Turkey and Ethiopia.

Lentils, split, dried and shelled

TOTAL	1,457	273	20	N/A
-------	-------	-----	----	-----

Turkey is the sole supplier of split lentils.

Syria

Syria is an agricultural country, and pulses are usually grown in quantities sufficient to meet local demand and allow some export. However, agricultural production is characterized by sizable fluctuations due to its continuing heavy dependence on rainfall.

Production

	<u>('000 HA)</u>				<u>('000 tonnes)</u>			
	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
Lentils	85.4	97.8	146.5	178	83.4	66.6	136.2	336
Dry beans	3.8	4.4	6.1	8	5.7	7.2	10	12.4
Peas	0.9	1	0.8	1	0.7	0.7	0.6	1.2
Fababeans	4.8	5.8	8.2	10.5	7.3	9.3	13.7	16.0
Chick-peas	90.7	55.7	67.6	72.5	60.3	26.7	50.8	70

IMPORTS

(tonnes)

	<u>1977</u>	<u>1976</u>
Fababeans	153	178
Peas	60	452

EXPORTS

(tonnes)

	<u>1977</u>	<u>1976</u>
Fababeans	2,031	-
Lentils	46,250	43,213,850
Dry beans	-	967,139
Chick-peas	1,932	16,663

Lebanon

	<u>Area ('000 HA)</u>				<u>Production ('000 tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total Pulses	21	21	22		19	19	20	
Dry beans	1	1	1		1	1	1	
Broad Beans	1	1	1		1	1	1	
Peas, dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chick-peas	3	3	3		2	2	3	
Lentils	3	4	4		2	2	2	

Source: FAO Statistics

ASIA

India

Pulse crops - area and production

Production

	1977		1977	
	('000 HA)	('000 tonnes)	('000 HA)	('000 tonnes)
Chick-peas (Gram)	7,974	5,424	8,252	5,451
Pidgeon pea (Tur)	2,566	1,725	2,623	1,838
Other Pulses (Kharif Season)	7,498	2,167	7,393	2,257
Other Pulses (Rabi Season)	4,945	2,045	5,268	2,203

Other pulses consist mostly of lentils and are grown during both growing seasons -- Karif and Rabi.

Trade

Imports are now permitted under open general licence. The government estimates imports at 60,000 tonnes in 1978-79. Currently, lentils are being imported from Turkey and Syria. Turkish and small red lentils are preferred. The government hopes to increase production by encouraging pulse growing on irrigated land and alternating with wheat in the cropping sequence.

Pakistan

Area and Production of Pulses in Pakistan

	('000 HA)				('000 tonnes)			
	1975	1976	1977	1978	1975	1976	1977	1978
Total Pulses	1,388	1,465	1,497	1,500	723	777	831	794
Dry Beans	126	114	120	119	62	55	60	59
Chick-Peas	996	1,068	1,094	1,099	550	601	649	614
Lentils	75	73	73	N/A	26	28	28	N/A

Source: FAO Statistics

Area and Production of Pulses by Local Definitions

	Area ('000 HA)				
	1973-1974	1974-1975	1975-1976	1976-1977	1977-1978
Masoor	95	74	72	79	N/A
Mash	44	51	58	49	52
Mung	68	62	66	64	65
Mattar	212	135	149	186	N/A
Miscellaneous Karif and Rabi Pulses	92	52	57	57	N/A
Gram*	1,095	985	1,056	282	436

	Production ('000 tonnes)				
	1973-1974	1974-1975	1975-1976	1976-1977	1977-1978
Masoor	30	23	27	27	N/A
Mash	20	22	26	23	26.7
Mung	29	25	28	26	30.3
Mattar	87	54	59	74	N/A
Miscellaneous Karif and Rabi Pulses	35	20	23	23	N/A
Gram*	540	488	533	575	613.6

* 75 per cent used as pulses.

IMPORTS

Leguminous Vegetable, Dry

	(tonnes)	
	<u>1974</u>	<u>1975</u>
<u>Beans, dry, whole</u>		
Switzerland	.5	-
<u>Grams, dry, whole</u>		
Afghanistan	12	-
U.S.S.R.	-	48
<u>Mash, dry, whole</u>		
Afghanistan	-	2.2
<u>Mong, dry, whole</u>		
Afghanistan	-	6.6
<u>Peas, dry, whole</u>		
The Netherlands	12	25.7
<u>Pulses, split and washed</u>		
United Kingdom	7	-
Thailand	170	-
Hong Kong	17	-
Afghanistan	-	26
<u>Leguminous Vegetable, dry</u>		
Afghanistan	<u>19</u>	<u>161</u>
	293	270.0
<u>Mash, dry, whole</u>		
Afghanistan	637	283
<u>Mong, dry, whole</u>		
Afghanistan	4	-
<u>Peas, dry, whole</u>		
United Kingdom	17	3
West Germany	44	-
The Netherland	33	19
United States	33	-
<u>Pulses, split and washed</u>		
Afghanistan	1	-
United States	6	-
United Kingdom	-	2
Others	-	1
	<u>807</u>	<u>308</u>

EXPORTS

(tonnes)

	<u>1976-77</u>	<u>1977-78</u>
<u>Mash</u>		
Iran	37.8	0
<u>Mung</u>		
Iran	47.0	0
<u>Pulses, split and washed</u>		
Iran	5,668.4	327.5
Japan	48.0	-
Singapore	27.5	553.7
United Kingdom	60.0	-
Sri Lanka		2,001.2
Other	<u>1.5</u>	<u>-</u>
TOTALS	<u>5,890.2</u>	<u>2,882.2</u>

Japan

Production and Consumption

The consumption of "miscellaneous beans" in Japan has reached a level of relative stability. Products from bean processing, i.e., An (bean paste), Nimame (boiled beans) and Irimame (fried beans) are traditional Japanese food products. As the Japanese diet westernizes, the consumption of these products is challenged by potato chips, fruit jam fillings and other miscellaneous snacks. One possible exception to the trend would be increased "bean jam" use in the growing pastry trade. The key beans remain the small red bean, Azuki, a type indigenous to Asia and used for bean paste production, and the kidney beans.

Consumption of green beans, those used for the production of bean sprouts, has been showing increasing consumption levels. Virtually all are imported. Importation levels will increase as consumption of Chinese food is expected to gain further popularity due to recent political harmony achieved with China and the resultant awareness of its food and culture.

Domestic production of miscellaneous beans is expected to increase as a result of government policy to induce rice producers to switch to other crops. How successful this program will be depends on the adaptability of bean production to former rice growing areas (see section on government policy). The result of increased domestic production would appear to be decreased imports.

	<u>Production</u>							
	<u>('000 HA)</u>				<u>('000 tonnes)</u>			
<u>Beans and Peas</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Small red beans (Azuki)	76	62	66	61	88	60	87	96
Kidney bean (Ingen)	44	47	44	27	67	83	85	52
Peas (Endo)	3	3	3	2	4	3	4	3
Broad and Horse beans (Soramame)	2	2	2	2	3	2	2	2
Cowpea (Sasage)	4	3	3	2	4	3	3	2
TOTAL	129	117	118	94	166	153	181	155

IMPORTS

Quantity in '000 tonnes
Value in Cdn.\$ mil

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> <u>(Jan.-Oct.)</u>
<u>Pulses</u>				
Small red beans (Azuki)	1	43	46	39
Broad, horse and fababeans	21	19	13	13
Peas	32	24	18	12
Green beans	40	46	46	35
Kidney beans	40	44	62	27
Pegin beans	12	19	15	15
Other dry beans	9	13	8	5
<hr/>				
Total dry beans and peas	155	208	208	146
<hr/>				
Total Import Value - Dry beans and peas	\$ 49	\$ 98	\$132	\$ 82
Exchange Rate Used (Yen to Cdn.\$1.00)	297	297	257	197

Note: Import value on CIF Japan basis
Totals not necessarily exact due to rounding.

Small Red Beans (Azuki)

China	1	34	26	15
Taiwan	-	8	20	24

Green Beans

China	-	-	-	-
Taiwan	-	-	-	-
Indonesia	-	-	-	-
Burma	9	2	2	1

(cont'd)

	('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> (Jan.-Oct.)
<u>Green Beans</u>				
Iraq	-			
United States	-			
Australia			-	1
Thailand	31	43	38	32
Philippines			-	-
Sri Lanka			5	1
Total	<u>40</u>	<u>46</u>	<u>46</u>	<u>35</u>
<u>Pegin Beans</u>				
China	3	3	1	3
Thailand	7	15	12	11
Burma	2	2	2	1
Vietnam		-		
Total	<u>12</u>	<u>19</u>	<u>15</u>	<u>15</u>
<u>Broad, Horse and Fababeans</u>				
China	16	15	7	9
United Kingdom	-	-		-
Portugal	-	1	-	-
Spain	-	-		-
Canada	1	-	1	3
Ethiopia	4	-	3	-
The Netherlands		-		
United States		-		-
Morocco		2	1	-
Cyprus		2	1	-
Mexico			-	-
Total	<u>21</u>	<u>19</u>	<u>13</u>	<u>13</u>

Note: Totals not necessarily exact due to rounding.

Legend: Dash indicates less than 1,000 metric tonnes; blank column means no import.

	Quantity in '000 tonnes			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> <u>(Jan.-Oct.)</u>
<u>Peas</u>				
China	6	3	2	1
United Kingdom	7	7	7	4
The Netherlands	1	1	-	-
United States	16	8	3	3
Australia	-	-	1	-
New Zealand	2	5	4	3
Canada		-	1	1
<hr/>				
TOTAL	32	24	18	12
 <u>Kidney Beans Imports</u>				
China	1	2	2	1
Taiwan	-	2	-	-
Burma	14	21	16	13
Canada	1	1	3	-
United States	19	14	27	10
Dominica	1	-	-	-
Madagascar	3	2	4	2
South Africa	-	2	3	1
Argentina	-	-	1	-
Mexico	-	-	5	-
<hr/>				
Total	40	44	62	27

Note: Totals not necessarily exact due to rounding.

Legend: Dash indicates less than 1,000 metric tonnes; blank means no import.

EXPORTS

	Quantity in tonnes		Value in Cdn. \$000	
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u> <u>(Jan.-Oct.)</u>
<u>Pulses</u>				
Small red beans (Azuki)	16	12	15	31
Kidney beans	21	-	-	-
Other dry beans	1	-	5	-
Grand Total Quantity	38	12	20	31
Export Value	\$ 75	\$ 78	\$135	\$150
Exchange rate used (Yen to Cnd.\$ 1.00)	297	297	257	197

Note: Export value in FOB Japan basis.

Export Prices, 1978 (Jan.-Oct.)

	<u>Quantity</u> <u>(tonne)</u>	<u>Value</u> <u>(Cdn.\$</u> <u>'000)</u>	<u>FOB Japan Price</u> <u>per tonne</u> <u>(Cdn.\$)</u>
Small red beans (Azuki)	31	138	4,458
Kidney beans	-	4	*
Other dried beans	-	8	*

Import Prices, 1978 (Jan.-Oct.)

	<u>Quantity</u> <u>(tonne)</u>	<u>Value</u> <u>(Cdn.\$</u> <u>'000)</u>	<u>CIF Japan Price</u> <u>per tonne</u> <u>(Cdn.\$)</u>
Small red beans (Azuki)	38,846	29,884	769
Broad, horse and fababeans	12,637	7,264	575
Peas	11,622	5,465	470
Green beans	35,469	20,833	587
Kidney beans	26,631	10,937	411
Pegin beans	15,191	5,642	371
Other dried beans	4,671	1,859	398

Exchange rate used: Y197 to Cdn.\$ 1.00 for Jan.-Oct. 1978.

Tariffs

The current listed import duty is 10 per cent on pulses calculated on the CIF Japan value. The one exception is green beans (*Phaseolus Hirtus*) which are free of duty. There are no prescribed preferential tariffs. The 10 per cent duty is listed as a temporary duty which requires it to be renewed yearly. In recent history this renewal has been automatic.

The import classifications are as follows under the heading Dried Leguminous vegetables, shelled whether or not skinned or split.

Small red beans -- *Phaseolus angularis*
Broad, horse and fababeans - *Vicia faba* var
major, equina, minor
Peas -- *Pisum sativum*
Green Beans -- *Phaseolus hirtus*
Kidney Beans -- *Phaseolus vulgaris*, lunatus and
coccineus
Pegin Beans -- *Phaseolus calcaratus*
Other -- no definition
Peanuts -- are listed under the oilseed import
classification with no specific
variety listed. (Peanuts (groundnut)
is duty free when used for crushing)

Non-Tariff Barriers

The entry of peas and beans for processing is regulated by import quota (IQ), the exception being green beans. Pulses entering for sowing purposes other than small red beans are outside the IQ and may be freely imported. The quota is allocated to designated traders and only traders holding quota may import. The quota is announced twice a year and is given in terms of \$U.S. FOB value. Occasionally, quota adjustments are made outside the regular announced quotas.

Upon receiving quota, a trader must put up 20 per cent of the value of his quota in so-called "adjustment money". These funds are used to promote domestic production research and distribution system improvement. The effect of this adjustment money is to add a further 20 per cent of FOB value levy to the existing scheduled 10 per cent CIF duty.

All peas and beans are subject to the regulations of the Plant Quarantine Law and as such are subject to inspection whether in whole or split form. Peas and beans entering Japan must be free of *sclerontinia sclerotiorum*.

Government Policy

The current rice problem, an estimated carry-over of 6.5 million tonnes at October 1979, is the dominant factor in Japanese agriculture policy today. The government has instituted price incentive programs to induce rice producers to move into other crop production, primarily those with self-sufficiency ratios. Particular crops, i.e., wheat, barley, soybeans and forage seeds, are receiving direct production subsidies. Pulses however do not receive such direct subsidies. There are various indirect subsidy programs to induce pulse production including:

- (1) land improvement,
- (2) introduction of labour-saving machinery,
- (3) installation of storage and processing facilities,
- (4) organization of shipping and marketing.

While there is no price subsidy for pulses, the IQ system works as a buffer between the international prices and the local demand and supply situation. There are no plans for liberalization of pulses in the foreseeable future. However, even given this protection, Hokkaido area farmers who are the major pulse producers are moving to sugar beets, potatoes and other crops production which give better returns.

Others

For the large green, small red, dark speckled and turkish types, market penetration in Japan will depend upon continued exporter supply capability. The small red Azuki appear to offer the best prospects. This opinion continues to be held by Japanese end-users over the years.

On a more general basis, the bean traders and end-users are of the opinion markets exist for smaller production pulses particularly kidney beans other than white pea beans. The Japanese perspective would be to pursue production contracts of small production crops.

Hong Kong

Local Production

Pulses are not produced in Hong Kong and imports are relied on for requirements. Total imports for 1977 covering all types of beans and peas amounted to Cdn.\$9.7 million of which Cdn.\$7.1 million was retained for local consumption. The remainder was re-exported, mainly to South East Asian countries.

There is no detailed breakdown available for the various types of beans and peas that are imported. Not all imports were consumed locally, about 20 per cent of the beans (other than soyabeans), 34 per cent of the peas and 26 per cent of the soyabeans were re-exported. The main markets for re-exports are Japan, Singapore, Indonesia and Taiwan.

For beans of all descriptions, China and Thailand are the main suppliers while United States is the largest supplier of peas, mainly whole green peas.

The following types of pulses are imported into Hong Kong. Mung beans (green beans) and red beans account for the greatest volumes. Other types are broad beans, black beans, lentils, horse beans, bamboo beans, and peas.

Mung Beans (Green Beans) -- There are six or seven varieties of mung beans imported, with the best variety coming from Northern China and Thailand. They are mainly used for human consumption and sprouting.

Red Beans -- There are about six or seven types of red beans imported with the best variety coming from China and some from Thailand.

Broad Beans -- These are imported mainly from China and there are about five or six varieties available in the market. Some broad beans in frozen forms packaged for the supermarkets trade are also imported from United States but the volume is very small.

Black Beans -- The main supplies come from China, Taiwan and Thailand. There are three to four varieties and they are graded according to the size of the beans. China usually supplies the large and small sized beans and Thailand the medium-size.

Lentils -- These are mainly from China but the quantity is somewhat limited as the demands are small.

Horse Beans -- These beans are imported both for human consumption and for animal feed. There are two varieties which China supplies.

Bamboo Beans -- These are imported mainly for human consumption but the volume is extremely small.

White Navy Beans -- The demand for this type of beans is very limited. As there are no plants manufacturing canned pork and beans or beans in tomato sauce, all requirements for these products are imported from the United States, the United Kingdom, South Africa, China and the Philippines.

Peas -- The principal suppliers of peas to the Hong Kong market are China, Thailand and the U.S. Peas imported from the U.S. are mainly of the whole green type which dominates the market as there is practically no competition from other sources. The most popular grade is known as the Alaska No. 1 and is mainly used by hotels and restaurants.

China and Thailand do not have whole green peas for export. They only supply the yellow type peas and split peas. The demand for the yellow peas is small and imports from these two sources are mostly confined to split peas, partly used for human consumption but mainly for feed ingredients.

Tariffs

As Hong Kong is a free port, there are no import duties, taxes or non-tariff barriers of any sort imposed on the importation of pulses. Virtually all pulses are imported through private channels.

Current Selling Prices (Ex Wharf) of Different Types of Beans and Peas

(HK\$ per picul)
(1 picul = 133.33 lb.)

Black Beans

Taiwan origin	large quality	290.00
Honan (China) origin	small quality	250.00
Thailand origin	medium quality	125.00

Broad Beans

Tientsin origin		120.00
Thailand origin	new stock large quality	145.00/148.00

(HK\$ per picul)
(1 picul = 133.33 lb.)

Red Beans

Thailand origin	small quality	95.00
Kiangan (China) origin		250.00
Tientsin (China) origin	1st quality	255.00
Tongshan (China) origin	1st grade	250.00

String Beans

Thailand origin		100.00
Thailand origin	1st quality	98.00
United States origin	large quality	140.00/145.00

Bamboo Beans

Saigon origin		220.00
Kweichow (China) origin		75.00

Small Red Beans

ChunWan (China) origin		220.00
------------------------	--	--------

Haricot Beans

Ling Hu (China) origin		160.00
------------------------	--	--------

HONG KONG IMPORTS

(tonnes)

	1975	1976	1977	1978 Jan.-Sept.
<u>Peas Legumes Dried</u>				
United States	406	404	325	395
United Kingdom	2	27	-	-
Taiwan	9	-	7	-
Macau	2	33	32	3
Thailand	500	462	400	105
China	1,850	1,439	930	237
India	-	-	-	-
Singapore	80	38	66	11
Australia	21	12	31	8
New Zealand	4	40	4	-
Belgium	-	-	9	-
Vietnam	-	-	87	-
Canada	-	-	-	99
Total Imports	2,876	2,456	1,892	860
Less Re-exports	911	137	646	7
Retained Imports	1,969	2,320	1,245	853

	(tonnes)			
	1975	1976	1977	1978 Jan.-Sept.
<u>Beans Dried</u>				
United States	631	731	1,102	977
Taiwan	443	166	360	627
Macau	120	189	115	81
Philippines	51	60	-	-
South Vietnam	71	-	-	-
Thailand	11,539	5,199	5,905	7,380
Burma	508	2	5,499	4,233
China	8,455	8,632	11	26
Malaysia	7	-	229	143
Singapore	235	760	2	-
United Kingdom	-	15	-	-
South Africa	-	1	-	-
Belgium	-	-	74	1
Japan	-	-	89	38
Vietnam	-	-	19	-
Morocco	-	-	-	-
Total Imports	22,062	15,755	13,410	13,507
Less Re-exports	8,609	6,978	2,508	2,552
Retained Imports	13,453	8,777	10,902	10,954

South Korea

Domestic Production

	<u>Red Beans</u>	<u>Green Beans</u>	<u>Kidney Beans</u>	<u>Peas</u>	<u>Others</u>
1975	27,212	5,715	2,394	1,586	9,953
1976	34,206	5,534	2,432	1,698	10,111
1977	34,521	6,501	2,578	2,248	10,164
1978	26,600	9,200	4,300	3,400	11,200

Imports

1975	0	0	0	0	0
1976	0	0	0	0	0
1977	0	0	0	0	0
1978 (as of 30 June	3,500	600	0	0	0

All agricultural products including pulses are on an import restriction list in order to protect local farmers. For red and green beans, the Korean Government has imported through the National Agricultural Co-operative Federation in order to control domestic market prices.

Exports -- None.

Tariff -- For pulses other than soybeans 40 per cent.

Price (wholesale based on 100 litre) --

red beans - CDN DLR 148.54;
green beans - CDN DLR 170.45.

Thailand

Thailand is an agricultural country; agricultural products are produced locally and are sufficient for local consumption.

Local Production

	(tonnes)			
	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>
Mung beans	187,900	120,600	124,800	184,900

Exports

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
Red beans	1,807	1,639	2,441
White beans	370	128	331
Mung beans	42,406	57,253	70,808
Golden beans	110	51	8
Black beans	1,415	2,701	2,794
Black Matpe beans	40,817	30,824	31,741

Imports

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
Red beans	1.5	12.0	0.5
White beans	4.5	4.0	1.6
Mung beans	15.0	18.0	66.3
Golden beans	2.0	-	-
Black beans	31.0	11.5	11.0
Black Matpe beans	-	-	20.0

Government Policy

Effective February 1, 1979, the Thai Ministry of Commerce will control all exports of the different kinds of beans. The purpose of this control is to curb the excessive outflow of the products which, in the past, has affected both buyers and exporters, and to provide a good support for exports.

Malaysia

Dried leguminous vegetable, shelled, whether or not skinned or split, such as beans, edible peas, chick-peas, gram lentils including dhall, others, carry an import duty of Malaysian \$9.84 per tonne.

There are no non-tariff barriers to the importation of peas and beans.

Pulse Imports

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Dry Beans</u>			
Australia	25	2	6
Belgium/Luxembourg	46	35	10
Burma	643	1,039	-
Canada	18	237	330
Sri Lanka	-	18	-
China	2,314	1,716	971
France	-	-	18
Taiwan	153	85	170
India	47	44	19
Sumatra	102	1,348	-
Kenya	19	1	-
Morocco	38	156	228
New Zealand	47	199	189
Thailand	9,982	3,347	9,359
United States	420	397	232
United Kingdom	-	58	-
The Netherlands	-	36	18
Other countries	<u>30</u>	<u>20</u>	<u>206</u>
TOTAL	13,884	8,737	11,756

Dried Peas

Australia	483	643	595
Belgium/Luxembourg	151	198	48
Burma	242	416	328
Canada	55	165	667
Sri Lanka	-	-	14
China	20	9	21
Taiwan	12	6	35
West Germany	-	-	50

(cont'd)

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Dried Peas</u>			
Japan			-
India	254		33
Sumatra	20	45	2
Iraq	41		
Indonesia		459	19
Kenya	13		
Lebanon	24		1
Morocco	155	60	43
Nepal	-		1
The Netherlands	103	333	208
New Zealand	102	213	435
Singapore	27	-	
Thailand	398	323	420
Pakistan			72
Tunisia			25
Turkey	14		
United States	728	530	54
United Kingdom		20	265
Other countries	<u>5</u>	<u>15</u>	<u>2</u>
TOTAL	2,847	3,435	3,348

Lentils and Dhall

Australia	255	370	225
Bulgaria	-	4	
Burma	3,138	3,299	3,282
Canada		26	422
Ethiopia	31		
Taiwan	2		
Sri Lanka			62
India	323	661	77
Sumatra	7	5	
Iran	-	-	4
Kenya	-	68	24
Korea	48	13	-
Lebanon	6	1	13
Nepal	2	16	5
Morocco	78	58	71
New Zealand	126	9	-
Pakistan	-	26	517

(cont'd)

Lentils and Dhall

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
Portugal	3	4	
Singapore	15	-	5
Thailand	1,077	1,204	1,116
United Kingdom	-	-	3
United States	644	749	685
Others in Middle East	20	3	-
Other countries	<u>4</u>	<u>9</u>	<u>2</u>
TOTAL	5,786	6,525	6,513

Chick-peas and Gram

Australia	38	162	4
Burma	462	118	174
China	7	-	-
Czechoslovakia	-	2	-
Lebanon	64	9	-
Ethiopia	37	14	-
Taiwan	1		104
Greece	20	-	-
India	1,106	1,009	-
Kenya	89	85	36
Sumatra	3	8	-
Korea	-	-	20
Italy	5	-	-
Iran	-	1	-
Morocco	865	1,570	630
The Netherlands	20	-	10
New Zealand	23	41	11
Pakistan	-	19	397
Portugal	26	-	-
Singapore	-	6	-
Thailand	470	266	60
Turkey	125	-	-
Tanzania	-	-	166
Tunisia	-	-	10
United States	105	69	-
Others in Middle East	42	6	-
Other countries	<u>24</u>	<u>4</u>	<u>8</u>
TOTAL	3,532	3,389	1,630

Exports and Re-Exports

	(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Beans Dried</u>			
Taiwan	8	-	-
Hong Kong	250	-	-
Sumatra	-	1	-
Sabah	5	7	10
Sarawak	18	2	26
Singapore	516	281	145
United Kingdom	35	11	60
Others	<u>-</u>	<u>-</u>	<u>1</u>
TOTAL	832	302	242
<u>Peas, dried</u>			
Sumatra	15	-	-
New Zealand	-	5	-
Sabah	20	60	17
Sarawak	-	7	1
Singapore	45	145	-
United Kingdom	9	-	44
Others	<u>1</u>	<u>-</u>	<u>-</u>
TOTAL	90	223	69
<u>Chick-peas and Gram</u>			
Sarawak	3	1	1
Singapore	<u>26</u>	<u>32</u>	<u>32</u>
TOTAL	30	33	33
<u>Lentils and Dhall</u>			
Bahrein	20	-	-
Java	-	1	2
New Zealand	-	4	-
Sarawak	2	-	-
Saudi Arabia	15	-	-
Singapore	724	832	275
South Africa	15	25	-
United Kingdom	118	70	-
United States	<u>48</u>	<u>24</u>	<u>-</u>
Others	-	6	-
TOTAL	942	962	277

Singapore

Potential for Canadian beans (e.g., white, navy, red kidney, etc.) seems limited since the Chinese consumer is reluctant to experiment with varieties different to those traditionally consumed.

Singapore Pulse Trade
(excluding trade with Indonesia)

	<u>1975</u>		<u>1976</u>		<u>1977</u>		<u>1978</u>	
	('000 tonnes)	(S\$ '000)	('000 tonnes)	(S\$ '000)	('000 tonnes)	(S\$ '000)	('000 tonnes)	(S\$ '000)
<u>EXPORTS</u>								
Beans, dried	8	4,392	9	6,283	7	5,895	3	2,742
Edible dried peas	1	493	1	920	1	815	-	291
Chick-pea and Gram	1	880	2	1,095	1	1,006	-	238
Lentils and Dhall	4	3,179	5	4,500	6	4,978	2	1,991
Soybeans	5	2,639	20	10,476	30	17,581	8	5,034
<u>IMPORTS</u>								
Beans, dried	16	10,853	14	13,392	10	13,725	6	6,479
Edible dried peas	2	1,910	3	3,123	4	4,521	3	2,864
Chick-pea and Gram	2	1,947	2	2,021	3	3,126	-	342
Lentils and Dhall	4	4,262	6	6,850	5	6,640	1	1,569
Soybeans	31	22,223	53	34,129	83	56,588	17	11,945
Average exchange rate								
1975 SC = \$2.3 Singapore								
1976 SC = 2.4								
1977 = 2.7								
1978 = 1.8								

China

Production

	('000 HA)				('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total Pulses	10,960	11,173	11,423	11,673	11,175	11,430	11,681	11,932
Dry Beans	2,520	2,623	2,673	2,723	2,125	2,230	2,331	2,432
Broad Beans	3,840	3,900	4,000	N/A	4,350	4,400	4,450	N/A
Peas Dry	4,600	4,650	4,750	4,850	4,700	4,800	4,900	5,000
Chick-peas	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lentils	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Source: FAO Statistics

China includes pulses and tuber production in grain production figures, on a 5 to 1 equivalency ratio, i.e., five tonnes of beans are equivalent to one metric tonne of grain. Grain production for 1978 was reported at 295 million tonnes. As pulses are contained in this figure it is not possible to estimate production. However, reports indicate that pulses were planted in lieu of grain in many drought stricken areas in 1978. China is a traditional supplier of pulses to the Japanese and Hong Kong markets and pulse exports are believed to have increased.

China does not import pulses at the present time and this is not expected to change in the foreseeable future.

Indonesia

Production

	<u>('000 HA)</u>				<u>('000 tonnes)</u>			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total Pulses	589	607	625	642	295	305	314	324

Source: FAO Statistics

Phillipines

	<u>Production</u>			
	(tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Dry beans	7,581	8,256	8,321	7,896
Mongo beans	21,677	24,445	25,254	26,177
Soya beans	<u>5,656</u>	<u>8,133</u>	<u>8,396</u>	<u>7,099</u>
TOTALS	34,914	40,834	41,974	41,172

Tariff duty on pulse crops (excluding soya) is 70 per cent, but where necessary in the interest of agricultural development this can be reduced to 10 per cent by prior authorization from the Bureau of Plant Industry. The government has given farmers incentives in the forms of loans, seeds, fertilizers and price control buying for their products through the rural banks and the Nutritional Grain Authority.

AFRICA

Morocco

Production

	('000)				('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total pulses	564	557	434	537	453	470	162	503
Dry beans	4	2	9	N/A	3	1	6	N/A
Broad beans	220	191	190	N/A	213	230	94	N/A
Peas dry	137	133	117	118	99	112	33	90
Chick-peas	99	100	42	80	61	51	11	46
Lentils	46	63	36	N/A	34	41	8	N/A

Source: FAO Statistics

	(tonnes)			
	<u>1974/75</u>	<u>1975/76</u>	<u>1976/77</u>	<u>1977/78</u>
Beans	212,680	230,210	93,653	161,420
Chick-peas	60,830	52,050	10,970	36,670
Lentils	34,280	41,280	7,930	21,130
Green peas	98,570	112,180	33,330	45,670

EXPORTS

	(tonnes)			
	<u>1974/75</u>	<u>1975/76</u>	<u>1976/77</u>	<u>1977/78</u>
Beans	59,096	72,631	3,417	29,604
Chick-peas	30,022	23,109	1,216	14,491
Lentils	18,754	28,454	1,834	5,331
Green peas	32,162	38,375	2,534	3,150

Due to the very complex and varied agricultural habits in Morocco it is impossible to exactly determine production. Above figures have a 25 per cent error factor.

Production and export years start in June and end in May of the following year.

Morocco is an exporter of pulses, except for seeding; imports are prohibited.

There is no specific government production incentive plan.

Exports are closely controlled by the government. Export licences are required and allocation depends on stocks, which are reflected in local retail prices.

The local names of the lentil varieties produced may differ from those in other countries:

- Lentilles Chaouia-Safi
- Lentilles Rouges
- Lentilles Nylon -- this variety is the most expensive
- Lentilles Blondes 5 M/M
- Lentilles Blondes 6 M/M

No breakdown of actual production nor export is available for lentils.

Algeria

Production

	('000 HA)				('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total pulses	96	97	100	N/A	75	75	59	N/A
Dry beans	4	2	4	N/A	3	2	4	N/A
Broad beans	35	36	35	N/A	34	34	25	N/A
Peas dry	6	5	6	6	4	4	4	3
Chick-peas	34	33	35	36	25	25	18	26
Lentils	15	18	17	N/A	7	9	7	N/A

Source: FAO Statistics

Egypt

Production

	('000 HA)				('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total pulses	162	172	178	178	335	357	365	366
Dry beans	7	7	7	N/A	16	17	18	N/A
Broad beans	96	102	102	N/A	217	237	237	N/A
Peas dry	3	3	4	4	4	6	6	6
Chick-peas	3	4	4	4	4	6	6	6
Lentils	24	27	32	N/A	38	38	45	N/A

Source: FAO Statistics

Production

	(HA)*			(tonnes)		
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
Dry peas	4,006	4,095	4,273	2,700	2,815	3,250
Dry beans	3316	3,338	3,494	19,000	21,250	22,100
Chick-peas				4,000	5,120	5,815
Lentils	27,251	28,364	29,050	41,800	43,200	44,500
Peas				3200	4,000	4,250
Lupines	4,184	3,908	4,206	6100	5,760	6,380

*Approximations

Exports -- With exception of chick-peas (1,000 tonnes export to Turkey), no other pulses are exported from Egypt.

Imports -- Approximately 60,000 tonnes a year of lentils are imported from Syria. Egyptian market is looking for other sources of supplies due to decline in supply from Syria. Domestic production of other pulses items is sufficient and no imports are required.

Tariff and Non-Tariff Barriers -- Nil.

Subsidies -- No government subsidies policy.

Nigeria

	<u>Production</u>				<u>(tonnes)</u>			
	<u>('000 HA)</u>							
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total Pulses	4,110	4,160	4,210	4,526	902	932	800	838

Kenya

	<u>Production</u>							
	('000 HA)				('000 tonnes)			
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
Total Pulses	620	600	620	621	310	290	315	317

Source: FAO Statistics

Ethiopia

It has been estimated the pulse production has decreased in recent years. Sources indicate that in 1979 no exports of chick-peas or horse beans were made because of the high domestic prices.

The following export figures give an indication of the recent trends.

EXPORTS

(tonnes)

	<u>1974</u>	<u>1975</u>	<u>1978</u>
Horsebeans	N/A	40,000	7,233
Haricot Beans	48,000	N/A	14,303
Lentils	30,000	N/A	588

AUSTRALASIA

Australia

Australian production of pulses continues to be limited to the growing of navy beans and field peas primarily for domestic consumption. Sizable quantities of lupines are apparently produced for stock feed but interest in this crop is shifting away from Western Australia, where the emphasis was on production for export, to the south eastern states where the emphasis is on production for the local stock feed industry.

Small acreages are planted to special crops such as mung or azuki beans, fababeans and lentils. There was speculative interest in mung beans for export but this has waned due to falling prices and production problems. Fababeans are produced in very small quantities for use by the local horse racing industry. Small areas of lentils are grown in South Australia, the main field pea producing state.

	<u>Production</u>							
	(HA)				(tonnes)			
	<u>1974/75</u>	<u>1975/76</u>	<u>1976/77</u>	<u>1977/78</u>	<u>1974/75</u>	<u>1975/76</u>	<u>1976/77</u>	<u>1977/78</u> (provi- sional)
<u>Dry Beans</u>								
Navy	3,730	7,592	8,224	10,712	2,829	6,064	5,937	9,000
<u>Dry Peas</u>								
Field	18,392	17,923	17,755	18,431	29,130	18,331	14,880	16,000
Lupines	125,076	140,222	119,627	N/A	N/A	N/A	N/A	N/A
<u>Lentils</u>	N/A	N/A	N/A	170	N/A	N/A	N/A	150

Trade

Australia remains a net importer of pulses for human consumption, although exports of dried peas and beans do occur in years when surplus production occurs. The attempt to build up an export trade in lupines pioneered in the mid-seventies by Western Australia has collapsed as returns to growers were not sufficient to match returns from wheat and coarse grain production. Production in this state dropped from over 50,000 tonnes in the mid-1970's to less than 5,000 tonnes during the past season.

	<u>IMPORTS</u>		
	(tonnes)		
	<u>74/75</u>	<u>75/76</u>	<u>76/77</u>
<u>Beans</u>			
for seed	644	325	312.4
for food			
(navy or pea)	4,025	2,092	262.1
for food (NEI)	5,471	1,866	2,383.9
<u>Peas</u>			
for seed	4,039	2,945	2,955.6
for food	3,737	3,061	2,568.8
Lentils	855	751	780.6
	<u>EXPORTS</u>		
Leguminous vegetables	765.5	324.6	908.1
NEI	542.8	277.9	740.4
<u>Peas, dried</u>			
not split	430.0	815.0	1,716.0
split	3,395.9	3,167.0	2,905.0
<u>Lupines</u>	39,681	64,544	1,620.0

Tariffs

Dried Leguminous vegetables shelled, whether or not skinned or split -- covers vegetables of a kind used for consumption by humans or animals (e.g., beans, horse beans, peas, chick-peas, lentils) even if intended for sowing or for other purposes. Exclusions are soyabeans, vetches, other than *Vicia faba*, tares and lupines.

Beans of the species Phaseolus Vulgaris

For cultivation

GT	PT	DC	PNG
\$0.09/kg	\$0.09/kg	\$0.09/kg	Free

Other

GT	PT	DC	PNG
26%	26%	26%	Free

Beans other than the species Phaseolus Vulgaris

GT	PT	DC	PNG
\$0.42/kg	\$0.25/kg	\$0.42/kg	Free

Other dried legumes including lentils

GT	PT
Free	Free

Government Policies

All imports must comply with Australia's strict quarantine regulations. There are no Commonwealth Government programs specifically designed to encourage the production of pulses although some research support is provided to growers as part of the Department of Primary Industry's normal support for agriculture. Most of this support is aimed at improving pastures through the use of legumes and has no direct effect on pulse production.

New Zealand

Other than peas, pulse production in New Zealand is minimal. Lentils are produced only on an experimental bases.

Pea Production

July 1 - June 30

<u>Field Varieties</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
<u>Maple</u>				
Area ('000 HA)	8.4	7.4	5.7	7.1
Total yield ('000 tonnes)	20.6	14.7	15.6	13.5
<u>White</u>				
Area ('000 HA)	2.4	2.7	2.4	2.5
Total yield ('000 tonnes)	5.4	5.7	6.6	6.2
<u>Blue Boiling</u>				
Area ('000 HA)	3.8	5.5	3.2	3.0
Total yield ('000 tonnes)	10.8	12.8	9.8	8.3
<u>TOTAL</u>				
Area ('000 HA)	14.6	15.6	11.3	12.6
Total yield ('000 tonnes)	36.8	33.2	32.0	28.0

Prices

The large bean import contracts are decided by tender so the purchase price is basically the lowest one tendered.

As most of the New Zealand pea crop goes to export, the prices are essentially the world prices. The major exporters used to make forward sales and contract to New Zealand growers, but this practice has been changing to a more cash basis in recent years.

The only pulse imported in any quantity is the white navy bean although other types of beans are also imported in smaller quantities.

IMPORTS
(Year ending June 30)

	<u>1975</u>		<u>1976</u>		<u>1977</u>		<u>1978</u>	
	(tonnes)	(\$NZ '000 CIF)	(tonnes)	(\$NZ '000 CIF)	(tonnes)	(\$NZ '000 CIF)	(tonnes)	(\$NZ '000 CIF)
<u>Dried Beans (other than sowing)</u>								
Angola and Cabinda	5	3	1	-	-	-	-	-
Australia	9	6	8	5	2	21	6	7
Burma	-	-	4	3	3	3	8	6
Canada	-	-	36	21	1,325	788	982	586
Chile	9	5	10	3	-	-	-	-
China	23	7	18	7	19	13	2	3
Fiji	3	4	8	9	3	3	-	-
Hong Kong	54	3	6	5	6	7	3	7
India	-	-	-	-	1	1	-	-
Indonesia	-	-	1	-	-	-	-	-
Malaysia	-	1	-	-	-	-	10	8
Malagasy Republic	1	1	-	-	16	12	-	-
Morocco	-	-	-	-	2	2	1	1
The Netherlands	20	12	3	3	8	7	15	22
Singapore	-	-	-	-	-	-	3	3
Thailand	5	3	3	4	18	15	25	17
United States	1,120	671	1,391	1,099	665	436	213	161
TOTAL	1,302	717	1,490	1,161	2,091	1,310	685	822

Lentils

Australia	-	-	-	-	-	-	-	-
Burma	5	3	23	16	5	5	3	2
Canada	-	-	3	3	-	-	-	-
Ethiopia	10	8	-	-	1	1	-	-

	1975		1976		1977		1978	
	(tonnes)	(\$NZ '000 CIF)	(tonnes)	(\$NZ '000 CIF)	(tonnes)	(\$NZ '000 CIF)	(tonnes)	(\$NZ '000 CIF)
<u>Lentils</u>								
India	1	1	4	3	5	4	-	-
Kenya	-	-	1	-	1	1	-	-
Lebanon	-	-	-	-	-	-	-	-
Malaysia	-	-	4	2	-	-	-	-
Morocco	1	-	2	1	2	2	-	-
Nepal	15	11	11	7	84	61	10	9
Pakistan	-	-	-	-	2	1	1	1
Singapore	-	-	5	3	-	-	-	-
South Africa	-	-	-	-	-	-	-	-
Sri Lanka	-	-	-	-	-	-	2	2
Syria	36	30	10	10	-	-	61	45
Thailand	5	2	16	11	13	16	6	4
Turkey	-	-	-	-	17	14	33	25
United Kingdom	2	2	-	-	2	2	10	8
United States	3	2	16	10	17	13	7	9
TOTAL	78	59	94	66	149	120	132	108

Lentils are being produced only on an experimental basis in New Zealand. Consequently production statistics are not available.

EXPORTS
(Year ending June 30)

New Zealand's only pulse exports are dried field peas; specifically Maple, Blue Prussian and White Prolific strains.

	<u>1975</u>		<u>1976</u>		<u>1977</u>		<u>1978</u>	
	(\$NZ '000 (tonnes)	CIF)	(tonnes)	\$NZ '000 CIF)	(tonnes)	\$NZ '000 CIF)	(tonnes)	\$NZ '000 CIF)
<u>Split Peas</u>								
Australia	108	41	80	23	186	66	321	121
Fiji	256	82	1,320	325	1,400	486	1,176	539
Hong Kong	-	-	-	-	-	-	6	2
Japan	-	-	65	9	-	-	-	-
Malaysia	80	18	100	17	-	-	10	5
Mauritius	367	108	25	6	392	133	108	42
Norfolk Islands	-	-	-	-	-	-	-	9
Pitcairn Island	-	-	-	-	-	-	-	-
Singapore	145	44	76	15	2	1	-	-
Soloman Islands	-	-	-	-	-	-	-	-
Tonga	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	244	112
United Kingdom	-	-	1	-	-	-	-	-
United States	-	-	-	-	-	-	80	38
Venezuela	-	-	-	-	-	-	377	145
TOTAL	955	294	1,668	396	1,979	687	2,332	1,004

	1975		1976		1977		1978	
	(tonnes)	(CIF)	(tonnes)	(CIF)	(tonnes)	(CIF)	(tonnes)	(CIF)
American Samoa	-	-	-	-	-	-	-	-
Australia	2,238	448	1,200	229	1,228	285	2,186	582
Belgium/Luxembourg	2,770	401	1,132	184	2,622	535	1,789	506
Canada	52	9	58	10	76	20	69	20
China	-	-	-	-	1,634	258	-	-
Cyprus	80	13	155	28	142	29	35	12
Denmark	25	3	-	-	-	-	-	-
Fiji	391	124	548	103	681	143	502	146
France	165	24	118	19	311	72	128	40
East Germany	51	10	-	-	-	-	-	-
West Germany	174	20	90	14	533	116	18	5
Hong Kong	-	-	-	-	5	2	-	-
Iran	-	-	-	-	100	19	-	-
Ireland	90	13	-	-	225	45	85	24
Italy	-	-	121	18	173	32	18	5
Japan	1,047	247	4,937	734	4,451	964	3,167	829
Kenya	-	-	-	-	9	2	28	7
Malaysia	98	23	20	3	384	90	194	59
Malta	-	-	68	10	20	-	30	10
Mauritius	1,301	245	248	34	433	91	1,958	497
The Netherlands	2,145	274	780	153	1,010	109	841	226
Papua New Guinea	-	-	-	-	-	-	3	1
Philippines	7	3	170	6	248	43	20	6
Singapore	165	35	143	24	495	104	211	55
South Africa	3,419	679	1,441	244	1,145	267	3,504	1,000
Spain	3	7	25	7	22	7	33	8
Taiwan	330	53	1,321	189	2,707	556	815	199
Tonga	-	-	-	-	4	-	-	-
Trinidad and Tobago	4	-	8	1	9	2	12	4
United Kingdom	4,406	659	2,619	421	4,781	1,068	2,928	808
United States	627	97	568	87	756	171	522	150
Venezuela	-	-	-	-	-	-	104	28
Western Samoa	6	1	4	-	8	2	7	2
Destination optional	-	-	50	10	-	-	-	-
TOTAL	19,655	3,400	15,825	2,549	24,214	5,137	19,206	5,228

Government Import and Production Policies

The New Zealand Government does not subsidize the pulse industry other than through programs applied to the agricultural sector in general (e.g., fertilizer and top dressing subsidies and farm assistance programs).

Import licences are not required for bean or lentil imports in bulk and they are free of duty from all sources. Pea imports require an import license and duties are: Normal 10 per cent, Canada 5 per cent, Australia free, developing countries free.

Canada