

esri TECHNICAL SERIES

TECHNICAL SERIES No.3 August 1987

Consistent Trade Data for Ireland

by

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1. Introduction

This paper describes the sources for the data used in the paper The Determinants of Irish Imports, FitzGerald, 1987. The two major sources used were the National Accounts data for Ireland, taken from the Department of Finance Databank, and the CSO Trade Statistics. The transformations needed to produce consistent series are described in this paper and all the data are given in 20 tables at the back of the paper. Each table gives the data together with a mnemonic (generally the mnemonic used in the Department of Finance Databank) for each series. In footnotes it gives the source of the series and the formula used to generate it from other series. (The description of the way in which the generated series were derived uses the mnemonic for each series rather than the full name.)

2. Data Sources and Generation

As described in Chapter 3 of FitzGerald, 1987, the national accounts data for Ireland needed a certain amount of transformation to provide consistent time series for the required period. The data prior to 1970 had to be converted to constant 1975 prices. This was done by multiplying the pre-1970 data, derived from the latest issue of NIE in which they appeared (NIE75), by the ratio for 1970 of the NIE 1970-1982 value of the series to the NIE75 value. In each case the linking of the series was carried out at the most disaggregated level published in NIE82 and the resulting series have been summed to produce the relevant subtotals and totals. For example, the personal consumer expenditure figure in Table A.5 of NIE82 is the total of the linked series for the components of consumption shown in Table A.11. In other cases, such as the change in definition in NIE77, the CSO

provided the necessary information to produce fully consistent series. The Government sector data were adjusted from a financial year to a calendar year basis by setting $Y_t = 0.75 X_t + 0.25 X_{t-1}$ where Y_t is the new observation for year t and X is the financial year series. Details of these and other adjustments are given in FitzGerald and McQuaid, 1983, and in successive editions of the Department of Finance databank document.

The methodology for deriving the capital stock series involved taking a starting value for 1952 from Vaughan, 1980. Using the investment data, and an 8 per cent depreciation rate, the capital stock was derived according to the formula $K_t = (1-d)K_{t-1} + I_t$ where K_t is the capital stock in year t . The depreciation rate was chosen on the basis of an average 10 per cent depreciation rate for machinery and equipment and 5 per cent for buildings, using the weights of these two capital goods in the capital stock. The cost of capital in manufacturing industry was derived according to the methodology set out in FitzGerald 1983. It assumed a weighted average of the export and other industries rates of corporation tax. It assumed a constant geometric rate of depreciation of 8 per cent (consistent with the generation of the capital stock data) and it used actual interest rates. (Honohan and Flynn, 1984, used a fixed real rate of interest of 2 per cent.) It did not take account of the effects of leasing or of the tax shield due to depreciation allowances or allowances for interest paid.

The trade data produced by the CSO needed substantial adjustment to produce consistent series suitable for use in this study. For the years 1960-1964, to arrive at consistent data on a gross flow basis, an estimate of imports by the Shannon Free Airport zone (which were always less than exports by the zone) and imports of other transport receipts, must be added to the unadjusted total export and total import figures to arrive at consistent figures for total gross trade flows.

Estimates of Shannon trade on a gross flows basis were used for the years 1961 to 1964. For years prior to 1961 no such data were available. Instead a constant compound growth rate in both imports and exports was assumed between 1947 and 1961, assuming a base figure for both imports and exports in 1947 of £0.1 million. The arbitrary nature of this assumption is particularly serious for the 1950s data. However, as the data used in this study begin in 1960, only one year's interpolated data is involved and the crude nature of the assumptions should not be too serious. In any event, the estimated Shannon adjustment in 1960 only amounts to about 0.35 per cent of total exports and .3 per cent of imports.

In the case of the transportation receipts imports, they are assumed to grow at the same rate as did the values of net transportation receipts exports for the years prior to 1965. In this case the adjustment represents a considerably greater proportion of total imports and exports in 1960 than does the Shannon adjustment for that year: about 2 per cent of total exports and about 1.7 per cent of total imports.

For the years after 1964 the breakdown of the current price imports and exports figures, on a balance of payments basis, into merchandise and services trade is available in the National Accounts. For years up to and including 1964 the merchandise trade figures were derived by taking the trade statistics data on merchandise trade and making certain adjustments, which are set out below. From the trade statistics imports figures must be deducted figures for imports into the rest of the State from Shannon, imports of cinema films and temporary transactions. To the resulting figure must be added imports of coins and bullion and the estimate, described above, of imports from abroad into Shannon. The trade statistics merchandise export figure is adjusted to a balance of payments basis by deducting exports from the rest of the State to Shannon and temporary exports and adding exports of coin and bullion and exports from Shannon to the rest of the world. With the exception of the figures for Shannon trade (with the rest of the world) detailed above, the other data were available from published sources.

The estimates of invisible trade at current prices for years prior to 1965 were derived by subtracting the merchandise import and export figures, as adjusted above, from the adjusted figures for total imports and exports. The resulting estimate for invisible trade in the early 1960s is likely to be more unreliable than that for merchandise as all of the errors, due to the estimation of the relatively large transport receipts item, will be concentrated in it.

The constant price data in the National Accounts for total imports and exports suffer from the same discontinuity, due to netting of trade from Shannon and of transport receipts, as do the current price data. The CSO supplied series, for years prior to 1965, on a similar discontinuous basis for merchandise trade at constant prices. Similar data for total trade were available in the National Accounts. These series were linked to give one series at constant 1975 prices.

As the same discontinuity due to netting of certain items pre-1965 applied to the unadjusted volume and value series it was possible to use them to give an index of the price deflators for total and merchandise trade. These same deflators were then applied to the adjusted trade figures to give adjusted total and merchandise trade at constant 1975 prices. Services imports and exports at constant prices were then derived as a residual and they were themselves used to derive the price deflator for adjusted services imports and exports. These adjusted figures are so constructed that they do not significantly affect either the balance of payments figures or the growth rates for years prior to 1965. They can, therefore, be used in conjunction with other national accounts figures. Further details of this exercise are given in FitzGerald, 1979..

For the purpose of the study of the determinants of imports, it is important to disaggregate the merchandise trade statistics into a number of components. There are two problems with doing this: first the only data available are on a trade statistics basis and, second, there are considerable problems with deflators. In the case of imports the general practice in other studies has been to disaggregate trade by use rather than using standard

SITC categories. This has obvious attractions, giving a clearcut distinction between imports which should be modelled according to the theory of the firm, and imports, entering directly into final demand, which should be modelled according to consumer theory. However, appropriate price deflators are not available on a similar basis. The old wholesale price indices which covered this breakdown of imports were discontinued because of their totally unsatisfactory nature. (Their weights were based on trade in 1952). In addition, while data have been published over the relevant period breaking down the value of imports by use, these data do not provide a continuous consistent series. There have been frequent changes in the categories of goods treated as consumer goods, materials for further production or producers' capital goods. These changes have not been signalled by the CSO and it is not possible, on the basis of available data, to create a consistent set of series for the period 1960-82.

The first change, at 1962, involved a reclassification from SITC 9 to SITC 0 of temporary livestock imports. From 1973 onwards these imports were totally excluded from the trade statistics. Fortunately, the data are available to allow this item to be excluded from SITC items 0 or 9 for the full period 1960 to 1972. A discontinuity between 1965 and 1966 arises from the inclusion of Shannon imports on a gross flow basis. This affected SITC category 9. The discontinuity in 1972 arose from the reclassification of temporary imports (excluding livestock) from SITC 9 to the relevant category used for total imports. There are also some additional minor changes in the classification system. In 1977 there was a further change in the classification system and no data are available to allow the series to be linked at that year. The combined effects of these problems have their greatest impact in percentage terms on categories SITC 2 and 4 combined. They have little or no effect on SITC 3. In using the data for estimation, the value of imports in categories 5 to 9 is derived residually as the value of adjusted merchandise imports, taken from the National Accounts, less the value of imports in SITC categories 0 to 4.

The value series for agricultural exports in the trade statistics is only available on a consistent basis from 1962 onwards. Due to definitional changes, a continuous series covering the years 1960-1982 had to be generated by linking the old basis SITC zero figures for 1960-62 to the new basis agricultural exports from 1962 onwards. The resulting series for agricultural exports on a trade statistics basis had to be adjusted for intervention transactions and smuggling from 1973 onwards to bring them to a balance of payments basis. This involved subtracting from the trade statistics figures exports of agricultural produce which are sent into intervention storage abroad and adding back sales from intervention storage abroad of goods stored there by the Irish intervention agency. The resulting balance of payments adjusted figure for agricultural exports is deflated by the price index for agricultural exports (SITC 0 and 1) to give a series at constant 1975 prices. These value and volume series for agricultural exports are subtracted from the relevant merchandise exports figures to derive residually current and constant price figures for non-agricultural exports on a balance of payments basis.

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 * TABLE 1 *
 * IMPORTS OF FOOD, DRINK AND TOBACCO (SITC 0 AND 1). *
 * VALUE, EMILLION *
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	LIVESTK.	MEAT	DAIRY PRODUCE	FISH	CEREALS+ PRODUCE	FRUIT + VEGE.	SUGAR + PRODUCTS	COCOA SITEA ETC.	ANIMAL FEED	OTHER FOOD	DRINK	TOBACCO
	SITC00	SITC01	SITC02	SITC03	SITC04	SITC05	SITC06	SITC07	SITC08	SITC09	SITC11	SITC12
* 1960	12.557	0.3	0.1	0.8	7.2	6.5	1.0	7.8	3.3	0.4	2.0	4.9
* 1961	19.43	0.2	0.1	0.7	9.2	7.5	1.6	8.0	3.9	0.7	2.3	4.6
* 1962	12.9	0.2	0.1	1.0	8.4	8.1	1.6	7.6	5.3	0.8	2.7	4.9
* 1963	15.6	0.2	0.1	0.9	9.4	9.0	3.0	8.7	5.0	0.9	3.1	4.5
* 1964	17.3	0.3	0.1	1.0	10.1	10.1	3.6	7.1	5.0	1.2	3.3	4.7
* 1965	15.5	0.3	0.1	1.2	18.4	10.4	1.9	7.9	7.2	1.9	3.5	4.0
* 1966	11.9	0.2	0.1	1.2	16.4	12.1	2.9	7.9	6.5	1.8	3.2	5.1
* 1967	13.8	0.2	0.3	1.2	12.7	12.7	2.3	8.7	6.3	1.8	3.2	5.8
* 1968	15.2	0.2	0.3	1.5	15.3	13.3	2.0	10.9	8.0	2.5	4.1	8.5
* 1969	16.6	0.2	0.3	1.9	11.4	14.7	2.7	10.6	8.2	3.3	4.2	9.8
* 1970	20.6	0.3	0.3	1.8	13.8	15.0	3.0	11.2	10.4	3.5	4.7	5.3
* 1971	15.6	0.3	0.3	1.8	19.2	16.5	5.0	11.2	8.3	4.0	4.8	6.5
* 1972	18.9	0.4	0.6	2.3	22.7	18.5	6.4	11.7	9.3	5.4	7.0	11.1
* 1973	21.5	1.0	2.1	2.6	27.6	24.8	6.3	12.2	13.6	6.8	10.3	15.0
* 1974	15.1	2.1	2.8	3.3	50.1	29.8	14.1	19.8	19.4	10.4	10.0	20.0
* 1975	14.0	4.0	6.9	4.2	55.4	32.5	24.4	21.2	15.9	12.8	12.1	23.3
* 1976	17.7	5.8	8.8	5.8	70.6	41.1	28.6	26.5	32.2	15.0	15.2	21.3
* 1977	39.3	8.3	10.7	8.5	90.7	52.7	26.8	50.7	47.4	20.3	18.3	21.2
* 1978	48.7	10.3	11.7	10.3	74.7	64.5	28.0	53.0	62.2	22.7	24.9	22.4
* 1979	71.9	12.6	14.9	12.7	90.6	77.7	35.2	58.6	95.8	25.8	31.4	25.0
* 1980	59.0	24.6	24.2	16.7	126.4	100.1	45.9	69.9	78.9	27.3	31.6	25.2
* 1981	106.4	43.6	41.6	21.9	156.5	123.6	46.8	68.8	120.5	32.9	37.0	28.9
* 1982	107.7	40.6	31.2	25.5	129.6	149.2	47.8	76.7	110.4	34.9	37.7	37.1
* 1983	96.6	51.9	37.0	27.1	160.0	146.2	53.5	81.9	152.1	38.7	39.4	33.3

SOURCE:
 TRADE STATISTICS, SEE TABLE 5 FOR DETAILS.

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 * TABLE 2 *
 * IMPORTS OF CEREALS(SITC 04). *
 * VALUE, £MILLION *
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	BARLEY	MAIZE	SORGHUM	BREAKFAST CEREAL	PASTRY+ BISCUITS
	04300	04400	04592	04812	04842
* 1960	0.3	2.9	0.0	0.2	0.1
* 1961	0.0	1.7	0.0	0.2	0.2
* 1962	0.0	3.6	0.0	0.1	0.3
* 1963	0.0	1.8	0.0	0.1	0.2
* 1964	0.0	2.4	1.9	0.1	0.3
* 1965	2.0	2.8	3.3	0.1	0.4
* 1966	0.2	2.9	3.2	0.2	0.4
* 1967	0.2	2.7	2.4	0.2	0.6
* 1968	1.2	3.2	1.4	0.3	0.7
* 1969	1.1	3.1	0.9	0.4	1.0
* 1970	1.6	3.9	1.8	0.5	1.2
* 1971	5.0	2.7	4.0	0.6	1.4
* 1972	1.3	8.8	1.9	0.7	1.7
* 1973	1.7	10.4	4.4	0.8	2.2
* 1974	8.8	11.6	3.9	1.2	3.6
* 1975	3.4	15.3	6.0	1.5	5.2
* 1976	4.6	24.7	9.8	2.3	7.5
* 1977	12.5	30.7	7.2	2.6	10.5
* 1978	1.5	21.0	3.1	3.9	12.9
* 1979	2.0	24.0	3.5	5.3	18.2
* 1980	2.1	28.5	0.4	14.6	24.7
* 1981	7.5	28.3	1.7	19.8	32.3
* 1982	0.7	25.9	0.0	22.3	30.9
* 1983	10.5	25.0	0.0	22.9	33.1

 SOURCE:
 TRADE STATISTICS, SEE TABLE 5 FOR DETAILS.

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 * TABLE 3 *
 * IMPORTS OF RAW MATERIALS(SITC 2 AND 4). *
 * VALUE, EMILLION *
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	HIDES	OIL SEED	CRUDE RUBBER	WOOD	PULP AND PAPER	TEXTILE FIBRES	FERTILIS-ER	METAL ORE	CRUDE	PROCESSE D OILS		
	SITC21	SITC22	SITC23	SITC24	SITC25	SITC26	SITC27	SITC28	VEG.MAT. SITC29	ANIM.OIL SITC41	LIVEG.OILS SITC42	SITC43
* 1960	0.3	0.58	1.56	4.54	2.12	8.66	2.27	0.02	1.4	0.39	1.1	0.17
* 1961	0.51	0.69	1.48	4.6	1.87	7.97	2.64	0.02	1.65	0.44	0.97	0.18
* 1962	0.65	0.54	1.39	4.63	1.54	8.38	2.79	0.02	1.8	0.36	0.97	0.2
* 1963	0.7	0.83	1.44	5.85	2.03	8.54	3.33	0.03	1.41	0.19	0.93	0.43
* 1964	0.74	0.72	1.48	6.82	2.09	10.33	3.64	0.14	1.3	0.34	1.3	0.46
* 1965	0.71	0.74	1.6	7.54	1.67	8.32	3.69	0.09	1.37	0.32	1.27	0.62
* 1966	0.83	1.02	1.38	6.16	1.37	9.46	4.87	0.11	1.17	0.29	1.35	0.61
* 1967	0.55	0.84	1.36	7.39	1.83	9.28	5.77	0.13	1.28	0.16	1.21	0.55
* 1968	0.81	0.93	1.72	10.52	2.6	11.13	7.16	0.23	1.41	0.27	1.68	0.62
* 1969	1.4	1.08	1.58	11.12	2.72	11.45	7.26	0.24	1.6	0.38	1.81	0.55
* 1970	1.11	1.02	2.38	10.78	3.38	11.79	7.13	0.17	1.65	0.7	2.45	0.91
* 1971	0.91	0.88	2.23	13.55	2.61	10.78	7.24	0.21	1.93	0.77	2.73	0.85
* 1972	2.06	1.08	2.14	14.65	3.16	12.72	5.88	0.34	2.51	0.92	3.0	0.52
* 1973	3.15	6.53	3.46	23.35	4.34	22.45	8.68	1.45	3.6	1.49	4.36	0.41
* 1974	2.41	2.19	6.37	38.83	5.41	27.51	18.57	2.35	4.6	1.56	6.91	2.57
* 1975	1.61	0.8	4.94	21.89	4.98	18.56	12.75	1.37	3.55	1.24	6.84	1.33
* 1976	2.99	1.69	8.86	34.35	6.22	35.8	14.1	1.08	5.47	1.2	9.12	2.3
* 1977	4.35	3.88	11.27	39.03	6.2	40.2	14.75	2.4	6.89	3.33	12.18	3.26
* 1978	3.92	4.03	9.51	44.98	5.67	33.23	16.24	2.67	8.74	2.39	11.88	3.46
* 1979	6.14	4.48	12.24	61.54	7.16	40.15	18.47	3.38	12.27	2.92	16.45	5.56
* 1980	3.97	1.77	13.68	58.67	8.44	44.54	21.3	3.38	13.5	2.47	16.35	6.0
* 1981	4.51	2.62	13.82	69.38	11.23	55.45	22.14	4.76	20.87	3.57	20.55	6.1
* 1982	2.23	2.98	13.89	57.19	3.46	50.03	25.04	7.86	23.85	3.22	20.52	7.27
* 1983	1.19	2.58	13.97	57.95	3.54	54.58	33.58	27.99	25.79	3.13	22.73	7.78

 SOURCE:
 TRADE STATISTICS, SEE TABLE 5 FOR DETAILS.

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 * TABLE 4 *
 * IMPORTS OF ENERGY (SITC 3). *
 * VALUE, £MILLION *
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	COAL	OIL	GAS
	SITC32	SITC33	SITC34
* 1960	8.29	17.695	0.149
* 1961	8.938	18.238	0.077
* 1962	8.024	18.675	0.127
* 1963	8.495	19.287	0.165
* 1964	8.382	21.022	0.209
* 1965	8.364	22.895	0.189
* 1966	8.566	23.263	0.341
* 1967	8.017	29.312	0.215
* 1968	8.35	32.185	0.393
* 1969	8.48	35.61	0.522
* 1970	9.717	43.015	0.563
* 1971	9.453	58.1	0.76
* 1972	9.389	53.117	0.971
* 1973	9.331	66.962	1.222
* 1974	16.611	207.626	2.25
* 1975	15.211	224.701	3.794
* 1976	15.248	290.526	7.206
* 1977	27.043	352.195	9.575
* 1978	29.415	337.696	9.044
* 1979	47.435	526.757	12.585
* 1980	59.175	722.028	22.001
* 1981	86.429	852.449	27.399
* 1982	87.931	891.088	30.542
* 1983	93.732	864.386	34.901

 SOURCE:
 TRADE STATISTICS, SEE TABLE 5 FOR DETAILS.

TABLE 5
MERCHANDISE IMPORTS, UNADJUSTED.
VALUE, EMILLION

	FOOD	DRINK + TOBACCO	CRUDE MATERIAL	ENERGY	ANIMAL+VEG.FATS	CHEMICAL	MANUFAC. MATERIAL	MACHINES	OTHER MANUFAC.	OTHER
SITC 0	SITC 1	SITC 2	SITC 3	SITC 4	SITC 5	SITC 6	SITC 7	SITC 8	SITC 9	
MOUNADV	M1V	M2V	M3V	M4V	M5V	M6V	M7V	M8V	M9UNADV	
1960	35.871	6.876	21.459	26.137	1.059	17.734	44.776	47.204	10.731	13.782
1961	47.21	6.873	21.424	27.253	1.591	19.351	51.044	57.399	12.719	16.538
1962	46.034	7.569	21.753	26.826	1.526	21.07	53.717	64.795	14.619	15.816
1963	52.862	7.64	24.201	27.947	1.549	24.643	59.764	73.271	17.424	18.382
1964	55.902	7.983	27.261	29.613	2.096	28.25	73.066	85.533	21.548	18.066
1965	64.836	7.499	25.731	31.448	2.204	32.404	73.418	93.187	23.025	18.095
1966	61.053	8.274	26.375	32.169	2.245	33.482	78.223	89.171	24.107	17.467
1967	59.913	8.951	28.431	37.545	1.918	35.799	80.373	92.282	27.194	42.259
1968	69.219	12.634	36.512	40.929	2.568	47.925	103.791	119.68	37.329	45.536
1969	69.827	13.92	38.439	44.613	2.75	52.992	127.026	171.096	46.67	46.307
1970	79.96	9.938	39.415	53.295	4.053	61.32	143.63	180.419	54.55	50.072
1971	82.264	11.312	40.341	66.313	4.354	70.403	158.268	203.774	65.279	50.605
1972 A	96.36	15.524	44.428	63.573	4.432	87.751	179.196	218.256	77.493	51.04
1972 B	96.2	18.1	44.4	63.6	4.4	88.6	181.9	222.7	81.5	36.7
1973	118.673	25.288	77.002	77.515	6.272	123.289	253.396	307.305	105.577	42.919
1974	167.249	30.056	108.241	226.487	11.04	187.918	350.165	356.409	139.454	49.291
1975	191.317	35.448	70.44	243.706	9.413	191.915	332.992	419.201	157.743	51.939
1976	252.088	35.527	110.564	312.979	12.627	256.746	462.801	594.533	222.978	76.091
1977 A	354.955	39.415	133.83	388.348	18.767	348.102	584.791	827.892	298.055	89.348
1977 B	355.317	39.417	128.952	388.613	18.767	343.957	592.592	830.519	296.353	96.201
1978	385.95	47.318	128.969	376.154	17.727	443.139	714.914	1110.47	389.44	99.018
1979	495.773	50.438	165.844	586.777	24.932	564.39	929.49	1386.16	516.545	101.574
1980	572.959	50.735	169.254	603.204	24.827	560.213	991.046	1473.274	633.912	135.231
1981	762.682	65.927	204.78	966.278	30.217	690.998	1126.611	1805.912	767.348	157.654
1982	753.38	74.809	186.542	1009.562	31.011	737.216	1153.505	1872.485	832.826	164.82
1983	845.198	72.726	221.177	993.019	33.66	843.484	1172.668	2119.807	892.498	172.538

SOURCES:

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- 1983: TRADE STATISTICS, DECEMBER 1984
- 1984: TRADE STATISTICS, DECEMBER 1984

MOUNADV AND M9UNADV: FOR 1960 AND 1961 TEMPORARY IMPORTS OF RACEHORSES ETC. WERE TRANSFERRED FROM SITC 9 TO SITC 0. THE AMOUNTS INVOLVED WERE 4.057 AND 4.03 IN 1960 AND 1961 RESPECTIVELY. THIS ADJUSTMENT WAS NECESSARY TO MAKE THE DATA FOR THOSE YEARS CONSISTENT WITH THOSE FOR 1962 TO 1972.

 *
 * TABLE 6 *
 * ADJUSTMENTS TO TRADE STATISTICS *
 * VALUE, £ MILLION *
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	SMUGGLING ADJUSTMENT	TEMP. IMPORT OF HORSES ETC	SHANNON ADJUSTMENT	NORTHERN IRELAND ADJUSTMENT
	MMSMUG	MOVTEMAN	MSHANV	MMNIRL
* 1960	0.0	4.057	0.7	0.0
* 1961	0.0	4.03	0.99	0.0
* 1962	0.0	3.861	2.38	0.0
* 1963	0.0	3.899	3.31	0.0
* 1964	0.0	4.26	11.31	0.0
* 1965	0.0	4.118	16.0	0.0
* 1966	0.0	3.905	24.2	0.0
* 1967	0.0	2.785	0.0	0.0
* 1968	0.0	2.608	0.0	0.0
* 1969	0.0	1.773	0.0	0.0
* 1970	0.0	2.131	0.0	0.0
* 1971	0.0	2.841	0.0	0.0
* 1972	0.0	2.348	0.0	0.0
* 1973	0.0	0.0	0.0	0.0
* 1974	0.0	0.0	0.0	0.0
* 1975	0.0	0.0	0.0	0.0
* 1976	0.0	0.0	0.0	0.0
* 1977	0.0	0.0	0.0	0.0
* 1978	0.0	0.0	0.0	0.0
* 1979	0.0	0.0	0.0	0.0
* 1980	0.0	0.0	0.0	0.0
* 1981	19.0	0.0	0.0	0.0
* 1982	28.0	0.0	0.0	25.0
* 1983	20.0	0.0	0.0	75.0

 SOURCES:
 MMSMUG: SMUGGLING ADJUSTMENT AS IN THE BOP, DEPT. OF FIN. DATABANK.
 MOVTEMAN: TEMPORARY IMPORTS OF RACEHORSES ETC. (AFTER 1972 THEY ARE
 EXCLUDED FROM THE TRADE STATS.) SOURCE AS IN TABLE 5.
 (THE NATIONAL ACCOUNTS DO NOT CARRY OUT THIS ADJUSTMENT AND
 AS A RESULT, ARE NOT CONSISTENT.)
 MSHANV: ADJUSTMENT FOR SHANNON TRADE. PRE 1965 SEE CHAPTER 3. FROM 1965
 THE ADJUSTMENT IS GIVEN IN THE EXTERNAL TRADE STATS. THE SERIES
 USED HERE IS TAKEN FROM THE DEPT. OF FINANCE DATABANK.
 MMNIRL: ADJUSTMENT FOR ADDITIONAL IMPORTS FROM NORTHERN IRELAND AS IN
 THE BOP, DEPT. OF FINANCE DATABANK

TABLE 7
 MERCHANDISE IMPORTS, ADJUSTED.
 VALUE, \$ MILLION

	FOOD	DRINK + TOBACCO	CRUDE MATERIAL	ENERGY	ANIMAL + VEG.	CHEMICAL	MANUFAC. MATERIAL	MACHINES	OTHER MANUFAC.	OTHER
	SITC 0	SITC 1	SITC 2	SITC 3	SITC 4	SITC 5	SITC 6	SITC 7	SITC 8	SITC 9
	M0V	M1V	M2V	M3V	M4V	M5V	M6V	M7V	M8V	M9V
1960	31.814	6.876	21.459	26.137	1.659	17.734	44.776	47.204	10.731	14.482
1961	43.18	6.873	21.424	27.253	1.591	19.351	51.044	57.399	12.719	18.528
1962	42.173	7.569	21.753	26.826	1.526	21.07	53.717	64.795	14.619	18.196
1963	48.963	7.64	24.201	27.947	1.549	24.643	59.764	73.271	17.424	21.692
1964	51.642	7.983	27.261	29.613	2.096	28.25	73.066	85.533	21.548	29.376
1965	60.718	7.499	25.731	31.448	2.204	32.404	73.418	93.187	23.025	34.095
1966	57.148	8.274	26.375	32.169	2.245	33.482	78.223	89.171	24.107	41.667
1967	57.128	8.951	28.431	37.545	1.918	35.799	80.373	92.282	27.194	42.259
1968	66.611	12.634	36.512	40.929	2.568	47.925	103.791	119.68	37.329	45.536
1969	68.054	13.92	38.439	44.613	2.75	52.992	127.026	171.096	46.67	46.307
1970	77.829	9.938	39.415	53.295	4.053	61.32	143.63	180.419	54.55	50.072
1971	79.423	11.312	40.341	68.313	4.354	70.403	158.268	203.774	65.279	50.605
1972	93.852	18.1	44.4	63.6	4.4	88.6	181.9	222.7	81.5	36.7
1973	118.673	25.288	77.002	77.515	6.272	123.289	253.396	307.305	105.577	42.919
1974	167.249	30.056	108.241	226.487	11.04	187.918	350.165	356.409	139.454	49.291
1975	191.317	35.448	70.44	243.706	9.413	191.915	332.992	419.201	157.743	51.939
1976	252.088	36.527	110.564	312.979	12.627	256.746	462.801	594.533	222.978	76.091
1977	355.317	39.417	128.952	388.813	18.767	343.957	592.592	830.519	296.353	96.201
1978	385.95	47.318	128.969	376.154	17.727	443.139	714.914	1110.47	389.44	99.018
1979	495.773	56.438	165.844	586.777	24.932	564.39	929.49	1386.16	516.545	101.574
1980	572.959	56.785	169.254	803.204	24.827	560.213	991.046	1473.274	633.912	135.231
1981	743.682	65.927	204.78	966.278	30.217	690.998	1126.611	1805.912	767.348	157.654
1982	725.38	74.809	186.542	1009.562	31.011	737.216	1153.505	1872.485	832.826	164.82
1983	825.198	72.726	221.177	993.019	33.66	843.484	1172.668	2119.807	892.498	172.538

SOURCES:

WITH THE FOLLOWING EXCEPTIONS, THE DATA ARE TAKEN FROM TABLE 5:

M0V=M0UNADV+MMSMUG-M0VTEMAN,

M9V=M9UNADV+MSHANV

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 * TABLE 8 *
 * MERCHANDISE IMPORTS, ADJUSTED, *
 * AGGREGATED FOR ESTIMATION *
 * VALUE, \$MILLION *
 *

	FOOD DRINK + TOBACCO	RAW MATERIALS	ENERGY	MANUFACTURED GOODS
	M0.1V	M2.4V	M3V	M5.9V
* 1960	38.69	23.118	26.137	129.038
* 1961	50.053	23.015	27.253	150.539
* 1962	49.742	23.279	26.826	165.502
* 1963	56.603	25.75	27.947	188.391
* 1964	59.625	29.357	29.613	230.394
* 1965	68.217	27.935	31.448	249.182
* 1966	65.422	28.62	32.169	260.483
* 1967	66.079	30.349	37.545	270.342
* 1968	79.245	39.08	40.929	347.138
* 1969	81.974	41.189	44.613	437.65
* 1970	87.767	43.468	53.295	480.339
* 1971	90.735	44.695	68.313	532.016
* 1972	111.952	48.8	63.6	596.6
* 1973	143.961	83.274	77.515	816.75
* 1974	197.305	119.281	226.487	1058.427
* 1975	226.765	79.853	243.706	1121.789
* 1976	288.615	123.191	312.979	1577.215
* 1977	394.734	147.719	388.813	2111.234
* 1978	433.268	146.696	376.154	2700.182
* 1979	552.211	190.776	586.777	3430.631
* 1980	629.744	194.081	803.204	3719.069
* 1981	809.609	234.997	966.278	4476.004
* 1982	800.139	217.553	1009.562	4659.988
* 1983	897.924	254.837	993.019	5113.414

 SOURCES:
 M0.1V=M0V+M1V,
 M2.4V=M2V+M4V,
 M3V=M3V,
 M5.9V=MMVA-M0UNADV-MMSMUG-M1V-M2.4V-M3V-MMNIRL

 *
 * TABLE 9 *
 * MERCHANDISE IMPORTS, ADJUSTED, *
 * AGGREGATED FOR ESTIMATION *
 * VOLUME, £MILLION, 1975 PRICES *
 *

	FOOD DRINK + TOBACCO	RAW MATERIALS	ENERGY	MANUFACTURED GOODS
	M0.1	M2.4	M3F	M5.9
* 1960	95.571	56.514	123.667	342.25
* 1961	125.619	57.509	130.092	395.595
* 1962	122.596	60.868	128.213	436.814
* 1963	137.047	66.472	131.077	493.749
* 1964	143.099	72.112	135.69	608.415
* 1965	163.007	68.87	147.685	632.068
* 1966	157.011	70.302	155.526	655.418
* 1967	156.031	75.371	185.802	675.17
* 1968	174.195	91.458	182.442	814.282
* 1969	173.091	93.272	198.157	986.207
* 1970	176.363	95.417	231.949	987.489
* 1971	173.453	98.009	262.712	1031.895
* 1972	203.85	104.503	242.377	1101.38
* 1973	214.515	126.568	270.672	1366.245
* 1974	225.724	122.817	254.671	1325.753
* 1975	226.755	79.853	243.706	1121.789
* 1976	249.667	103.089	237.826	1346.621
* 1977	265.993	99.541	260.241	1560.716
* 1978	280.614	102.945	265.49	1862.484
* 1979	333.25	118.864	297.403	2132.373
* 1980	336.751	108.851	291.121	2005.767
* 1981	375.514	114.409	260.663	2073.413
* 1982	356.749	103.695	247.876	2008.343

SOURCES:

M0.1=M0.1V/PM01,

M2.4=M2.4V/PM24,

M3F=M3V/PM3F,

M5.9=MM-M0.1-M2.4-M3F-(MOVTEMAN+MMNIRL)/PM01

(IN THE TEXT THESE FOUR SERIES ARE CALLED : M01,M24,M3,M59)

TABLE 10
PRICE DEFLATORS

	IMPORT UNIT VALUE INDEX			PRICE INDEX- SERVICES IMPORTS		COST OF CAPITAL	WAGE RATES	FERTILISER	AGRICULTURAL OUTPUT	CUSTOMS DUTIES	CPI - UK & IRISH
	FOOD	RAW MAT.	ENERGY	OTHER	TOURISM	INDUSTRY					
	PM01	PM24	PM3F	PM0S	PMTO	PKIMN4C	AAEI	PF	PQAGG	RC	PCUK
1960	0.4048	0.4091	0.2114	0.378	0.3375	0.0732	0.4734	27.67	0.3494	0.0257	0.3646
* 1961	0.3985	0.4002	0.2095	0.3854	0.3459	0.0459	0.5086	25.66	0.3579	0.0226	0.3772
* 1962	0.4057	0.3824	0.2092	0.4012	0.3616	0.0489	0.5511	26.24	0.3586	0.0231	0.3927
1963	0.413	0.3874	0.2132	0.4162	0.37	0.0554	0.5801	26.12	0.3608	0.0226	0.4007
1964	0.4167	0.4071	0.2182	0.4235	0.395	0.053	0.6421	26.74	0.3882	0.0198	0.4137
1965	0.4185	0.4056	0.2129	0.4275	0.4147	0.0621	0.6676	28.22	0.4045	0.0202	0.4334
* 1966	0.4167	0.4071	0.2068	0.4161	0.4273	0.0482	0.734	28.33	0.3998	0.0218	0.4509
* 1967	0.4235	0.4027	0.2021	0.4423	0.4415	0.0458	0.7821	28.99	0.4143	0.0201	0.4616
1968	0.4549	0.4273	0.2243	0.4508	0.4618	0.0562	0.8855	31.7	0.4433	0.0185	0.4835
1969	0.4736	0.4416	0.2251	0.4983	0.4949	0.0441	0.9934	32.17	0.4642	0.0175	0.5097
* 1970	0.4977	0.4056	0.2293	0.5363	0.5368	0.0424	1.1475	32.44	0.4869	0.017	0.5425
* 1971	0.5231	0.46	0.26	0.5583	0.5839	0.0369	1.2922	35.04	0.5156	0.0161	0.5935
* 1972	0.5492	0.467	0.2623	0.5739	0.6346	0.0129	1.5333	38.76	0.6164	0.0174	0.6355
1973	0.6711	0.6579	0.2864	0.6636	0.7069	0.0354	1.7502	43.32	0.7819	0.015	0.6937
1974	0.8741	0.712	0.8893	0.8093	0.8273	0.0388	2.0353	67.25	0.7998	0.0147	0.8049
* 1975	1.0	1.0	1.0	1.0	1.0	0.0005	2.6012	100.0	1.0	0.0103	1.0
* 1976	1.156	1.135	1.316	1.2257	1.1802	0.0798	3.1978	102.8	1.2444	0.011	1.1658
1977	1.484	1.434	1.494	1.3921	1.3412	0.1214	3.703	112.4	1.5185	0.0095	1.3501
1978	1.544	1.425	1.417	1.4532	1.4427	0.1822	4.2711	119.1	1.6031	0.0096	1.4618
1979	1.657	1.505	1.973	1.6727	1.6335	0.204	5.1247	130.5	1.7654	0.0082	1.7218
* 1980	1.87	1.783	2.759	2.0454	1.9318	0.1433	6.0841	154.5	1.7651	0.0087	2.2417
* 1981	2.156	2.034	3.707	2.404	2.3265	0.1908	7.1749	171.7	2.0612	0.009	2.7378
1982	2.243	2.098	4.073	2.5371	2.7323	0.3114	8.2085	182.2	2.2677	0.0092	2.9146

SOURCES AND DEFINITIONS:

PM01: UNIT VALUE INDEX, IMPORTS SITC 0 AND 1, DEPT. OF FIN. DATABANK.
 M24: UNIT VALUE INDEX, IMPORTS SITC 2 AND 4, DEPT. OF FIN. DATABANK.
 M3F: UNIT VALUE INDEX, IMPORTS SITC 3, DEPT. OF FIN. DATABANK.
 PM0S: PRICE DEFLATOR OTHER SERVICES IMPORTS, DEPT. OF FIN. DATABANK.
 PMTO: PRICE DEFLATOR TOURISM IMPORTS, DEPT. OF FIN. DATABANK.
 PKIMN4C: PRICE INDEX FOR COST OF CAPITAL IN MANUFACTURING INDUSTRY.
 ASSUMES WEIGHTED AVERAGE TAX RATE AND NO TAX SHIELD ON INTEREST OR DEPRECIATION. SOURCE: DEPT. OF FIN. DATABANK.
 AAEI: AVERAGE ANNUAL EARNINGS PER HEAD IN INDUSTRY. SOURCE: DEPT. OF FINANCE DATABANK.
 PF: PRICE INDEX FOR FERTILISER INPUT, CENSUS OF AGRICULTURAL PRODUCTION, IRISH STATISTICAL BULLETIN.
 PQAGG: PRICE INDEX FOR GROSS AGRICULTURAL OUTPUT, DEPT. OF FIN. DATABANK.
 RC: INDEX OF EX POST RATE OF CUSTOMS DUTY, DEPT. OF FIN. DATABANK VARIABLE: RCUS.
 PCUK: INDEX OF CONSUMER PRICES IN UK CONVERTED TO IRISH POUNDS. DERIVATION: THIS INDEX IS THE AVERAGE OF THE MONTHLY CPI FOR THE UK CONVERTED TO IRISH POUNDS USING THE EXCHANGE RATE FOR THE RELEVANT MONTH.
 SOURCE: THE DATA ARE TAKEN FROM THE OECD MAIN ECONOMIC INDICATORS ARCHIVE IN THE DEPT. OF FINANCE DATABANK.

 *
 * TABLE 11 *
 * DERIVED PRICE INDICES *
 *

	PRICE INDEX	
	MANUFACTURED IMPORTS	OTHER CONSUMPTION
	PM59	PCO
* 1960	0.377	0.3355
* 1961	0.3805	0.3443
* 1962	0.3787	0.3553
* 1963	0.3815	0.3643
* 1964	0.3787	0.3886
* 1965	0.3942	0.4077
* 1966	0.3974	0.4205
* 1967	0.4004	0.4321
* 1968	0.4263	0.4546
* 1969	0.4433	0.4847
* 1970	0.4867	0.5228
* 1971	0.5155	0.5681
* 1972	0.5417	0.6266
* 1973	0.5979	0.6999
* 1974	0.7984	0.8179
* 1975	1.0	1.0
* 1976	1.1712	1.1702
* 1977	1.3527	1.3344
* 1978	1.4493	1.4288
* 1979	1.6083	1.6412
* 1980	1.8542	1.9185
* 1981	2.1581	2.2812
* 1982	2.3203	2.6077

DERIVATION:
 PM5.9=M5.9V/M5.0,
 PCO=COV/CO

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 * TABLE 12 *
 * AGGREGATE TRADE DATA. *
 * £ MILLION *
 *

	IMPORTS IN VALUE						IMPORTS AT 1975 PRICES, £M			
	TOTAL	MERCH.	SERVICES			TOTAL	MERCH.	SERVICES		
	MTVA	MMVA	TOURISM	OTHER		MT	MM	TOURISM	OTHER	
			MTOVA	TOTAL	RESIDUAL			TRANSPORT	MTO	MOS
			MOSVA	OTHSERVD	OTHTRAND					
* 1960	240.1	221.04	14.9	4.16	1.4	0.0	673.156	618.001	44.149	11.006
* 1961	276.799	254.89	16.3	5.009	1.4	0.0	770.499	708.815	47.13	14.554
* 1962	294.099	259.21	14.2	5.589	1.6	0.0	815.763	748.49	53.091	14.182
* 1963	331.199	302.59	22.4	6.209	1.7	0.0	903.806	828.345	60.542	14.919
* 1964	388.299	353.25	25.9	9.15	1.8	0.0	1046.492	959.316	65.572	21.604
* 1965	420.5	380.9	28.2	11.4	3.1	8.3	1106.289	1011.63	67.994	26.666
* 1966	436.299	390.6	31.0	14.099	2.8	11.3	1146.098	1038.257	73.955	33.888
* 1967	451.399	407.1	30.1	14.199	2.9	11.3	1192.655	1092.373	68.18	32.102
* 1968	563.299	509.0	35.3	17.099	3.3	14.7	1380.919	1262.377	78.612	39.931
* 1969	666.099	597.2	37.8	21.099	3.9	17.2	1569.445	1450.726	76.377	42.343
* 1970	728.5	607.0	40.1	21.4	3.9	17.5	1605.817	1491.217	74.7	39.9
* 1971	803.9	738.6	42.8	22.5	3.9	18.6	1674.668	1566.069	73.3	40.3
* 1972	893.1	823.3	45.9	22.4	5.0	17.9	1765.921	1652.121	73.9	39.9
* 1973	1211.0	1121.5	60.3	29.2	6.0	23.2	2107.299	1976.0	85.3	44.0
* 1974	1708.4	1581.5	72.8	34.1	8.7	25.4	2059.1	1928.765	88.0	42.135
* 1975	1849.0	1672.113	94.2	82.587	49.9	32.8	1848.999	1672.113	94.2	82.637
* 1976	2522.2	2302.0	109.4	110.3	70.3	40.5	2120.299	1937.202	92.7	90.397
* 1977	3336.8	3022.5	135.6	158.7	96.6	62.1	2401.591	2186.491	101.1	114.0
* 1978	4043.4	3656.3	183.8	203.3	121.1	82.2	2778.832	2511.532	127.4	139.9
* 1979	5235.102	4700.394	251.4	223.303	123.2	100.1	3169.3	2881.9	153.9	133.5
* 1980	5899.893	5345.102	293.4	270.377	126.6	143.8	3021.399	2742.5	146.7	132.2
* 1981	7117.199	6406.843	318.5	311.001	148.4	165.4	3090.6	2824.0	136.9	129.7
* 1982	7415.0	6742.301	347.0	355.379	160.4	194.9	2983.863	2716.663	127.0	140.2

SOURCE:
 DEPT. OF FINANCE DATABANK.

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 * TABLE 13 *
 * INVESTMENT AND CAPITAL STOCK DATA *
 * VOLUME, CONSTANT 1975 PRICES, £ MILLION *
 *

	TOTAL INDUSTRY		MANUFACTURING INDUSTRY		AGRICULTURE		RESIDENTIAL NON BUILDING		CAPITAL
	INVESTMENT	CAP. STOCK	INVESTMENT	CAP. STOCK	INVESTMENT	CAP. STOCK	INVESTMENT	INVESTMENT	GOODS
	II	KI	IIM	KIM	IAG	KAG	IRB	INB	IMPORTS
									81013
* 1960	82.931	930.72	49.665	433.183	53.425	1031.657	53.377	108.358	25.583
* 1961	98.04	954.302	61.746	460.275	63.021	1043.095	55.414	136.692	34.482
* 1962	121.728	999.686	75.361	498.813	66.652	1057.592	63.156	152.525	39.032
* 1963	135.773	1055.484	79.388	538.296	73.135	1077.847	71.305	169.222	44.897
* 1964	143.712	1114.756	82.84	578.072	81.594	1105.648	89.233	181.06	47.83
* 1965	148.69	1174.265	91.085	622.911	76.766	1127.132	106.753	201.111	57.436
* 1966	144.214	1224.537	91.852	664.93	81.694	1152.469	97.586	191.523	56.627
* 1967	156.8	1283.374	94.92	706.655	75.729	1170.574	114.088	199.873	60.975
* 1968	173.269	1353.973	111.028	761.151	89.474	1201.52	119.181	242.847	78.671
* 1969	214.333	1459.988	132.888	833.147	99.07	1240.513	125.292	329.963	117.097
* 1970	222.099	1565.287	139.644	906.139	94.892	1273.38	125.7	334.6	126.4
* 1971	229.985	1670.049	145.526	979.173	95.749	1305.459	150.5	351.8	144.3
* 1972	237.383	1774.327	166.041	1066.88	104.05	1344.236	193.3	385.5	149.3
* 1973	281.956	1914.337	167.853	1149.382	113.424	1390.448	219.2	489.0	223.1
* 1974	253.288	2014.478	163.24	1220.672	97.891	1418.816	242.3	442.8	242.9
* 1975	267.2	2120.519	195.4	1318.418	101.8	1449.675	209.7	425.8	284.5
* 1976	323.2	2274.077	210.6	1423.544	135.7	1512.891	212.6	502.4	418.1
* 1977	313.7	2405.85	200.4	1510.06	159.1	1596.346	228.8	540.0	591.0
* 1978	384.4	2597.782	255.3	1644.555	162.8	1679.328	265.4	644.4	751.5
* 1979	439.7	2829.659	292.3	1805.291	190.9	1786.262	304.9	695.7	973.6
* 1980	441.1	3044.386	283.8	1944.667	149.3	1846.248	256.1	612.0	1012.9
* 1981	457.3	3258.135	280.1	2069.194	143.3	1897.236	256.7	640.6	1184.7
* 1982	444.0	3441.484	263.0	2166.658	121.0	1923.374	227.0	608.0	1194.0

SOURCE:
 DEPT. OF FINANCE DATABANK.

 *
 * TABLE 14 *
 * AGRICULTURAL DATA *
 *

	VALUE ADDED	EMPLOYMENT
	CONSTANT 1975 PRICES	THOUSANDS
	£ MILLION	EAG
	QAG	
* 1960	405.463	370.06
* 1961	409.491	360.1
* 1962	412.751	351.3
* 1963	405.655	343.5
* 1964	424.259	334.8
* 1965	408.532	321.4
* 1966	407.956	315.5
* 1967	419.081	302.7
* 1968	444.014	292.0
* 1969	434.808	281.7
* 1970	446.7	268.0
* 1971	473.2	258.1
* 1972	509.8	252.4
* 1973	494.9	245.8
* 1974	531.3	241.0
* 1975	589.2	238.0
* 1976	525.3	232.0
* 1977	576.2	228.0
* 1978	585.7	226.0
* 1979	513.9	221.0
* 1980	554.1	209.0
* 1981	525.1	196.0
* 1982	574.0	193.0

SOURCE:
 DEPT. OF FINANCE DATABANK.

TABLE 15
WEIGHTED FINAL DEMAND VARIABLES.

	FOOD DRINK + TOBACCO	RAW MATERIALS	ENERGY	MANUFACTURED GOODS	SERVICES
	FDWM01	FDWM24	FDWM3F	FDWM59	FDWMS
* 1960	152.934	41.633	123.685	493.21	72.398
* 1961	156.93	44.574	135.548	542.729	78.013
* 1962	161.192	45.748	141.513	569.073	85.748
* 1963	166.623	48.79	148.66	617.238	94.67
* 1964	175.642	52.752	162.152	677.045	102.518
* 1965	178.194	54.505	168.837	709.205	106.087
* 1966	179.423	54.801	174.343	713.178	114.032
* 1967	182.101	58.895	182.635	764.858	107.993
* 1968	197.320	66.712	200.715	885.636	122.39
* 1969	205.617	73.741	216.333	1012.762	122.27
* 1970	210.278	75.646	223.489	1042.474	119.122
* 1971	214.174	77.438	230.299	1073.774	117.342
* 1972	224.533	83.275	243.781	1174.239	116.407
* 1973	242.867	90.359	264.108	1329.137	131.549
* 1974	251.410	93.397	272.988	1332.338	135.315
* 1975	234.002	86.817	260.224	1257.496	140.798
* 1976	239.322	92.597	273.758	1399.302	140.564
* 1977	262.993	106.629	305.915	1600.055	154.626
* 1978	280.910	116.375	334.244	1784.458	165.751
* 1979	288.81	126.005	359.403	1927.817	215.762
* 1980	291.855	125.901	356.486	1880.707	207.949
* 1981	304.2	127.886	359.881	1938.302	197.275
* 1982	305.834	126.221	365.216	1898.515	189.382

SOURCE:
DEPT. OF FINANCE DATABANK.
WHEN USED IN ESTIMATION THESE DATA ARE ADJUSTED TO EXCLUDE CERTAIN
VARIABLES. FOR EXAMPLE IN THE RAW MATERIALS IMPORTS EQUATION
RESIDENTIAL BUILDING IS EXCLUDED. THIS IS DONE BY SUBTRACTING FROM
FDWM24 IRB*WEIGHT WHERE THE WEIGHT IS GIVEN IN TABLE 3.2 IN THE TEXT.
XI IS EXCLUDED FROM FDWM59 AND MTO IS EXCLUDED FROM FDWMS.

 *
 * TABLE 16 *
 * EXPORT DATA *
 * £ MILLION *
 *

	VALUE, £ MILLION		VOLUME £ MILLION
	ENERGY - COAL	ENERGY - TOTAL	INDUSTRIAL
	XSIT32V	XSIT3V	XI
1960	0.445	4.697	154.707
1961	0.853	4.257	156.413
1962	0.722	3.38	172.36
1963	0.789	4.025	192.346
1964	0.682	2.888	255.42
1965	0.753	3.628	296.642
1966	0.842	2.213	345.69
1967	0.76	6.7	390.881
1968	0.784	3.779	459.655
1969	1.021	4.399	493.563
1970	1.708	6.393	548.483
1971	1.899	6.565	575.338
1972	3.126	6.331	660.94
1973	3.225	6.652	767.389
1974	3.99	14.854	819.301
1975	5.39	19.093	801.7
1976	5.636	12.303	928.389
1977	7.414	16.706	1125.79
1978	8.065	12.165	1250.982
1979	8.556	16.661	1413.275
1980	7.274	26.723	1523.643
1981	9.653	31.637	1659.249
1982	10.77	36.016	1838.384
1983	11.929	79.499	2118.397

 SOURCE:
 XSIT32V AND XSIT3V - SEE TABLE 5.
 XI: DEPT. OF FINANCE DATABANK.

TABLE 17
CONSUMPTION DATA
VALUE, £ MILLION.

	TOTAL	FOOD	TRANSP. EQUIP.	ALCCHOL	ENTERTAINMENT	TRAVEL	OTHER
	CVA	CFOODVA	CTREQV	CALV	CENTERV	COTRAVV	COV
* 1953	372.626	137.667	6.712	31.615	8.906	10.939	303.554
* 1954	379.939	140.161	8.501	32.734	9.422	11.398	306.283
* 1955	409.759	151.71	9.575	34.97	9.809	12.247	331.256
* 1956	412.103	149.493	6.254	35.377	10.971	12.638	334.152
* 1957	421.065	152.542	6.622	36.088	11.229	13.326	339.898
* 1958	445.458	162.89	9.038	36.8	11.1	14.406	360.314
* 1959	450.813	165.23	9.577	37.9	11.3	14.868	364.167
* 1960	480.411	170.293	12.47	40.7	11.8	17.349	383.191
* 1961	506.748	174.406	12.969	44.2	11.8	17.776	403.703
* 1962	546.323	182.828	14.465	51.1	12.5	19.459	429.598
* 1963	582.748	187.724	16.959	55.2	13.1	20.347	454.74
* 1964	649.697	209.366	20.65	62.8	14.3	23.276	502.77
* 1965	683.971	221.802	20.85	68.5	14.7	24.652	527.069
* 1966	721.783	228.363	21.049	73.2	15.1	26.238	554.596
* 1967	769.671	233.064	22.845	80.5	15.4	27.832	592.993
* 1968	879.046	264.988	31.823	91.8	16.2	32.182	670.741
* 1969	998.145	287.119	37.31	108.7	18.0	35.702	760.632
* 1970	1109.199	306.9	41.4	128.3	20.3	30.151	848.948
* 1971	1255.499	342.2	44.2	145.9	22.5	36.86	963.238
* 1972	1449.099	338.1	58.7	165.8	24.4	40.585	1112.713
* 1973	1738.099	492.0	83.1	196.5	27.2	48.328	1322.67
* 1974	2040.699	579.3	83.1	233.0	30.5	51.908	1569.391
* 1975	2433.898	657.8	92.2	303.3	37.4	79.4	1827.398
* 1976	2972.899	757.0	162.3	382.2	60.8	90.9	2167.298
* 1977	3598.399	934.8	234.5	422.8	72.8	117.3	2615.398
* 1978	4229.098	1066.8	305.8	486.2	91.2	149.1	3012.998
* 1979	5044.598	1269.0	312.3	574.5	110.7	169.6	3626.094
* 1980	5991.695	1472.5	314.6	695.9	128.0	214.2	4355.586
* 1981	7308.492	1792.9	399.9	844.7	148.8	262.8	5333.785
* 1982	8066.0	1977.0	336.0	1004.0	170.0	303.0	5906.0

SOURCES:

COV=CVA-MTOVA-CTREQV-CALV-CENTERV-COTRAVV

THE REST OF THE DATA ARE TAKEN FROM THE DEPARTMENT OF FINANCE DATABANK.

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 * TABLE 18 *
 * CONSUMPTION DATA *
 * VOLUME, CONSTANT 1975 PRICES, £ MILLION. *
 *

	TOTAL	FOOD	TRANSP. EQUIP.	ALCCHOL	ENTERTAINMENT	TRAVEL	OTHER
	C	CFOOD	CTREQ	CAL	CENTER	COTRAV	CO
* 1958	1368.862	468.52	26.68	129.96	35.04	53.893	1081.749
* 1959	1381.413	479.861	28.02	129.43	35.24	54.395	1095.398
* 1960	1455.253	496.886	36.753	135.768	35.821	59.87	1142.892
* 1961	1494.404	495.729	38.033	145.529	35.455	55.002	1173.254
* 1962	1549.139	510.962	42.056	151.741	35.455	55.626	1211.171
* 1963	1610.858	519.253	48.638	158.662	35.455	57.095	1250.464
* 1964	1664.398	541.427	58.512	165.584	35.821	62.814	1296.094
* 1965	1693.982	542.198	57.049	171.795	35.455	65.988	1295.699
* 1966	1722.86	551.067	55.038	171.618	34.907	65.648	1321.694
* 1967	1782.35	555.31	56.135	179.959	33.993	68.335	1375.747
* 1968	1936.505	586.546	71.677	196.464	33.993	77.555	1478.203
* 1969	2048.816	602.164	75.7	207.645	35.638	80.513	1572.943
* 1970	2103.499	603.9	75.7	227.7	37.1	60.687	1627.611
* 1971	2181.699	624.7	71.9	240.5	37.6	59.247	1699.151
* 1972	2293.098	628.1	88.4	261.6	37.5	59.449	1777.249
* 1973	2469.498	681.5	114.4	280.6	37.4	60.747	1891.052
* 1974	2504.198	706.7	100.3	299.7	37.6	58.353	1920.245
* 1975	2433.898	657.8	92.2	303.3	37.4	79.4	1827.398
* 1976	2501.799	632.3	129.3	300.9	50.3	75.5	1853.099
* 1977	2671.599	680.9	159.8	313.0	51.9	85.2	1960.598
* 1978	2912.999	716.2	185.8	339.4	56.0	94.1	2110.299
* 1979	3037.599	718.2	168.7	352.6	59.3	94.4	2208.698
* 1980	3082.799	750.7	168.8	341.6	57.5	96.8	2271.399
* 1981	3146.699	804.5	184.3	329.1	55.3	100.3	2340.799
* 1982	2993.0	796.0	127.0	318.0	54.0	96.0	2271.0

SOURCES:
 CO=C-MTO-CTREQ-CAL-CENTER-COTRAV
 THE REST OF THE DATA ARE TAKEN FROM THE DEPARTMENT OF FINANCE DATABANK.

TABLE 19
CAPACITY AND OUTPUT

MANUFACTURING INDUSTRY				
	VOLUME OF GROSS OUTPUT	VOLUME OF CAPACITY OUTPUT	CAPACITY UTILISATION	TIME
	£ MILLION	£ MILLION	INDEX	
	QGIM1	QGIMEST	CAPO	
* 1960	1413.8	1402.61	1.052	5
* 1961	1536.64	1530.07	1.093	6
* 1962	1633.32	1610.63	1.104	7
* 1963	1717.48	1703.33	1.098	8
* 1964	1843.29	1807.2	1.113	9
* 1965	1932.45	1921.28	1.095	10
* 1966	1993.87	2044.59	1.061	11
* 1967	2145.29	2176.16	1.074	12
* 1968	2361.20	2315.04	1.11	13
* 1969	2544.38	2400.24	1.126	14
* 1970	2622.86	2510.81	1.094	15
* 1971	2722.78	2705.78	1.074	16
* 1972	2852.62	2924.17	1.062	17
* 1973	3191.43	3005.02	1.126	18
* 1974	3273.38	3247.36	1.097	19
* 1975	3133.0	3110.22	1.0	20
* 1976	3452.04	3572.64	1.052	21
* 1977	3713.66	3733.65	1.083	22
* 1978	4007.18	3892.27	1.121	23
* 1979	4303.88	4047.55	1.157	24
* 1980	4265.6	4198.52	1.106	25
* 1981	4353.12	4344.19	1.092	26
* 1982	4315.64	4403.62	1.048	27

SOURCES:

QGIM1: QGIM FROM THE DEPT. OF FIN. DATABASE SCALED TO HAVE THE VALUE OF GROSS OUTPUT OF MANUFACTURING INDUSTRY IN 1975.

QGIMEST: ESTIMATE OF QGIM1 OBTAINED BY REGRESSING IT ON A POLYNOMIAL IN TIME. I.E. $QGIMEST = 1355.79 - 21.89 * TIME + 9.46 * TIME ** 2 - .161 * TIME ** 3$

CAPO: $CAPO = QGIM1 / QGIMEST$ RESCALED SO THAT CAPO EQUALS 1.0 IN 1975.

 *
 * TABLE 20 *
 * DOMESTIC ENERGY DATA *
 *

	TOTAL ENERGY PRODUCTION		DOMESTIC ENERGY PRODUCTION:						
	VOLUME EM	VOLUME MTOE	COAL	HYDROELEC.	NATURAL GAS	TURF-BRIQ.	TURF-FARM	TURF-MILLED	TURF-SOD
	QE	QEQ	M.TONNES	GWH	TCAL	M.TONNES	000TONNES	M.TONNES	M.TONNES
			QEQO	QEEHQ	QEGQ	QETHQ	QETFO	QETMQ	QETSQ
* 1960	44.042	1.385	0.201	957.293	0.0	0.121	1.995	0.188	0.873
* 1961	45.603	1.434	0.201	784.324	0.0	0.204	1.803	0.654	0.98
* 1962	47.358	1.489	0.202	693.864	0.0	0.233	1.806	1.126	0.909
* 1963	45.375	1.427	0.200	674.976	0.0	0.278	1.73	0.771	0.943
* 1964	46.785	1.471	0.229	688.893	0.0	0.286	1.523	1.34	0.88
* 1965	40.164	1.263	0.179	845.957	0.0	0.247	1.434	0.717	0.706
* 1966	44.192	1.389	0.179	914.548	0.0	0.228	1.373	1.408	0.717
* 1967	46.29	1.455	0.189	808.182	0.0	0.242	1.255	1.827	0.857
* 1968	53.979	1.697	0.172	747.544	0.0	0.267	1.286	3.126	0.875
* 1969	50.166	1.577	0.149	573.581	0.0	0.294	1.229	2.886	0.855
* 1970	48.242	1.517	0.150	789.295	0.0	0.32	1.186	2.178	0.884
* 1971	44.72	1.406	0.09	458.268	0.0	0.307	1.163	2.282	0.942
* 1972	44.282	1.392	0.079	671.0	0.0	0.32	1.102	2.17	0.851
* 1973	38.144	1.199	0.064	635.0	0.0	0.306	1.002	1.336	0.905
* 1974	42.529	1.337	0.064	772.0	0.0	0.322	0.995	1.831	0.915
* 1975	57.137	1.796	0.040	513.0	0.0	0.351	1.067	4.404	1.003
* 1976	49.111	1.544	0.050	585.0	0.0	0.306	1.084	3.409	0.75
* 1977	47.162	1.483	0.054	736.0	0.0	0.358	1.069	2.409	0.965
* 1978	42.976	1.351	0.032	691.0	0.0	0.319	0.994	2.103	0.943
* 1979	45.138	1.419	0.063	803.0	2149.0	0.334	0.94	1.404	0.757
* 1980	56.496	1.776	0.069	818.0	4303.0	0.336	0.914	2.059	0.826
* 1981	73.384	2.307	0.069	838.0	8268.0	0.354	0.961	2.939	0.634
* 1982	90.64	2.85	0.062	777.0	13446.0	0.427	1.057	2.699	0.725

ENERGY:QE -

TOTAL DOMESTIC PRODUCTION OF PRIMARY ENERGY, £MILLION, CONSTANT 1975 PRICES. THE DOMESTIC PRODUCTION IN TOE IS CONVERTED TO £MILLION ON THE BASIS OF THE UNIT VALUE FOR RESIDUAL FUEL OIL FOR 1975, $QE = QEQ * 48.37 / (1.544 * .9849)$, WHERE 1 TONNE FUEL OIL = .9849 TOE, TOTAL IMPORTS OF FUEL OIL IN 1975 = £48.37M FOR 1.544M TONNES.

ENERGY:QEQ -

TOTAL DOMESTIC PRODUCTION OF PRIMARY ENERGY, MILLION TOE.
 $QEQ = QEEHQ * .0002765 + QETSQ * .313 + QETBQ * .443 + QETMQ * .186 + QETFQ * .313 + QEGG * .0001 + QECQ * .665$.

ENERGY:QECQ -

DOMESTIC COAL PRODUCTION, M. TONNES. SOURCE: CSO ESTIMATE OF OUTPUT ON A CALENDAR YEAR BASIS. FOR 1960 TO 1962 THE DATA ARE TAKEN FROM THE CENSUS OF IND. PROD.

ENERGY:QEEHQ -

NET HYDROELECTRIC PRODUCTION, CALENDAR YEAR, EXCLUDING PUMPED STORAGE, GWH. SOURCE: 1972- FROM ENERGY IN IRELAND, 1960-1972 FROM EEC ENERGY STATS. ADJ. TO EXCLUDE AUTO PRODUCERS.

ENERGY:QEGQ -

DOMESTIC OUTPUT OF NATURAL GAS USED IN THE ENERGY TRANSFORMATION SECTOR, TICAL. SOURCE: OECD ENERGY STATISTICS.

ENERGY:QETBQ -

PRODUCTION OF TURF BRIQUETTES, M. TONNES. SOURCE: CENSUS OF IND PROD. + BORD NA MONA REPORTS.

ENERGY:QETFQ -

OUTPUT OF TURF BY FARMERS, TONNES (000). SOURCE: IRISH STATISTICAL BULLETIN

ENERGY:QETMQ -

PRODUCTION OF MILLED PEAT, MILL. TONNES. SOURCE: CENSUS OF IND. PROD. + BORD NA MONA REPORTS.

ENERGY:QETSQ -

PRODUCTION OF SOD TURF, MILLION TONNES. SOURCE: CENSUS OF IND. PROD. + BORD NA MONA REPORTS.

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