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WORLD PRICES FOR THE DETAILED AND THE SMALL FAP COMMODITY LISTS

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FOREWORD

Understanding the nature and dimensions of the world food problem and the policies available to alleviate it has been the focal point of the IIASA Food and Agriculture Program (FAP) since it began in 1977.

National food systems are highly interdependent, and yet the major policy options exist at the national level. Therefore, to explore these options, it is necessary both to develop policy models for national economies and to link them together by trade and capital transfers. Over the years FAP has, with the help of a network of collaborating institutions, developed and linked national policy models of twenty countries, which together account for nearly 80 percent of important agricultural attributes such as area, production, population, exports, imports and so on. The remaining countries are represented by 14 somewhat simpler models of groups of countries.

To link various national policy models in international trade, consistency of units, prices and valuation has to be maintained. World market prices for agricultural products depend on a variety of factors, such as quality, nature of the contract, time of the year, etc. A notion of world market prices suitable for our analysis and level of aggregation had to be defined. World market prices were computed for the historical period based on this notion.

In this paper, Ulrike Sichra documents the notion of computational procedures and the world market prices for agricultural commodities so computed for various levels of aggregation.

> Kirit S. Parikh Program Leader Food and Agriculture Program.

ACKNOWLEDGEMENTS

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World Prices

for the Detailed and the Small FAP Commodity Lists

Ulrike Sichra

1. NOTION

Within the FAP modeling work there is a need for prices at different levels of aggregation (27 commodities and 16 commodities), so that processing margins, trading margins, etc., can be derived from them and also to ascertain whether trade in certain products is being subsidized in certain countries. The world prices should satisfy the following conditions in order to be included in the FAP country models:

- have as basis the national exports prices (in each country, for each commodity, the quotient of export value by export quantity);
- allow for positive processing and trading margins when compared to the national export, import and producer prices, even at the most aggregate level.

The methods applied to calculate the prices differed slightly, depending on the level of aggregation for which it was done (original FAO commodities, main FAO commodities, commodities of the detailed and small FAP commodity list).

2. METHODS

At the two lowest levels of aggregation, i.e. original FAO commodities (600) and main FAO commodities (260) the following method to calculate the world prices was applied: take for each commodity the national ratio of export value by export quantity, but only for those countries which contribute at least x% (x=3 was chosen) to the "world" total exports, and from these ratios select the smallest price not equal to zero (sum of all countries included in the calculation).

In mathematical notation:

$$pwe(j) = \min_{k=1}^{N} pe^{k}(j)$$

subject to:

$$pe^{k}(j) = \frac{ve^{k}(j)}{qe^{k}(j)}$$
 and $qe^{k}(j) \ge \frac{x}{100} * \sum_{l=1}^{N} qe^{l}(j)$

where:

| pwe(j) | = world export p | price for commodity j |
|--------|------------------|-----------------------|
|--------|------------------|-----------------------|

- pe^k(j) = export value of country k, commodity j
- vek(j) = export value of country k, commodity j

 $qe^{k}(j) = export quantity of country k, commodity j$

N = number of countries that compete for the minimum

By this method one arrives at 2 groups of prices, depending on the aggregation level:

orpwe(j), $j \in N^{600}$

N⁶⁰⁰ = 600 original FAO commodities

which are prices that do not include processing costs at the original product level (e.g. wheat, rice paddy, potatoes, etc.,), but for each derived product the corresponding processing is included (e.g. in flour of wheat, rice milled, tomato juice, etc.), and agpwe(j), $j \in N^{260}$ and $N^{260} \subset N^{600}$ $N^{260} = 260$ main FAO commodities

which are only prices at the original product level, but which include processing costs for all derived products. The processing costs are included here due to the aggregation pattern used (Fischer and Sichra, 1983).

In Appendix B1 to B4 lists are presented which indicate, for each commodity, the country whose price is the smallest price, and the corresponding price for each year of the time series. In Appendix B1 the non aggregated commodities between 1961 and 1976 are shown, in Appendix B2 the same commodities between 1966 and 1981 (or 1980 in most cases) are given. Appendices B3 and B4 show the corresponding figures after the first aggregation step, i.e the processing costs are included. Appendices B1 and B4 are only meant as a reference and will be too detailed for most applications.

If one lists only the countries which have the smallest price, leaving out the price itself, the patterns of market influence of countries for the various commodities can be recognized. Appendices C1 to C4 show these patterns. Appendix C1 has the pattern for original commodities without processing between 1961 and 1976, Appendix C2 between 1966 and 1981. This last year will be disregarded in the calculations and plots that follow, as this year is not covered by all countries and all commodities. Appendices C3 and C4 give the corresponding pattern at the first aggregation level, i.e. with processing costs included.

The codes shown in the above appendices can be deciphered in Appendix D (commodity codes and text), and Appendix E (country codes and text).

These price calculations have been made for all commodities in the same consistent way, except for rice paddy (0027). The main trade of rice products is

- 3 -

not in rice paddy, but in rice milled, or sometimes rice husked. Rice paddy has a higher export price than rice milled (probably because only high-quality varieties are traded, to be used for seed purposes). Therefore, in order to arrive at a "reasonable" rice price for the nonaggregated stage of the product (original 600 FAO commodities), the price of rice milled has been used whenever the price of rice paddy was needed.

The world prices for the commodities of the detailed FAP commodity list (27 commodities) and small commodity list (16 commodities) have been calculated in a similar way as the national producer prices for these commodities (Sichra, 1984)., i.e.

$$pwe(i) = \frac{\sum_{l=1}^{Ni} qwe(l) * pwe(l)}{\sum_{l=1}^{Ni} qwe(l) * w(l)}, i = 1,27; i \neq 19$$

where:

| pwe(i) | = world export price for commodity i |
|--------------|--|
| qwe(l) | = total "world" export quantity of commodity l |
| pwe(l) | = world export price for commodity l |
| w(1) | = aggregation weight for commodity l |
| | |

Depending on the aggregation level of qwe(l) (original 600 FAO commodities or main 260 FAO commodities) and the choice of pwe(l) (orpwe(l) or agpwe(l) as described above) the resulting prices pwe(i) are different. Two of the four possible combinations are of interest:

- take qwe(l) after the first aggregation step (260 main FAO commodities) and set pwe(l) = agpwe(l); this results in prices that include processing costs; or
- take qwe(l) from the 500 FAO commodities (but aggregate only over the main commodities), and set pwe(l) = orpwe(l); this gives prices that only contain the raw material value and no processing.

The first set is called "prices with processing", agpwe(i), the second set "prices without processing", orpwe(i).

At this stage it is necessary to analyze both sets of prices (agpwe(i) and orpwe(i)) for the detailed FAP commodity list. The relative difference of both prices (for each commodity and each year) can be interpreted as processing margin of each commodity:

$$prm(i) = \frac{agpwe(i) - orpwe(i)}{orpwe(i)}$$

It is expected that $prm(i) \ge 0$ for all i and all years. This is not always the case. Some commodities still have a negative processing margin which can have many sources:

- The countries which contribute to the minimum price of a commodity need not be the same at the 600 and 260 commodity level; some products have large price fluctuations, which are sometimes noticeable only a year later due to the non-homogeneous statistics on trade across the countries (e.g. sugar);
- for some products the trade of the processed good is more significant than the one for the non-processed one (e.g. cassava);

 there might be countries who try to gain a market and "dump" the product at a very low price; etc.

Therefore, after carefully studying the ratios and the possible reasons for their deviation from "normal", i.e. the price without processing is lower than the price with processing, the world prices for the detailed FAP commodity list were selected. In Table 1 below one can see the commodities for which an exception has been made (not to take the price without processing) and for what reasons.

World prices for the small FAP commodity list are computed in a straightforward way from the detailed FAP commodity list by aggregating the commodities as shown in Table 2, using export quantities as weights. The unit of measurement of each commodity in the small and detailed list is also shown in Table 2.

The price for non-agriculture (the 10th commodity) is calculated from export figures. It is the difference of current total exports and agricultural exports, divided by the difference of current exports and agricultural exports at constant 1970 values, i.e.

$$pwe_{t}(10) = \frac{\sum_{j=1}^{C_{j}} EXT_{j,t} / exch_{j,t} - \sum_{i=1}^{N_{i}} \left[\sum_{j=1}^{C_{j}} EXA_{j,t}(i) \right] * pwe_{t}(i)}{\sum_{j=1}^{C_{j}} EXT70_{j,t} / exch_{j,70} - \sum_{i=1}^{N_{i}} \left[\sum_{j=1}^{C_{j}} EXA_{j,t}(i) \right] pwe_{70}(i)} * 10^{3}$$

where

 $pwe_t(10) = world price for the non agriculture, in year t$ EXT_{i.t} = total exports, country j, at current value, year t

| commodity | по | yes | reason | | |
|-------------------------|----|-----|---|--|--|
| large FAP list | pr | oc | | | |
| wheat | x | | | | |
| rice | x | | but $p = q27 * p31 * 0.67 / q27 * 0.67$ | | |
| coarse grain | x | | | | |
| vegetable oil | x | | | | |
| protein feed | x | | | | |
| sugar | | X | is a processed product | | |
| bov+ov meat | | X | there is little trade in fresh meat, and the processing price also includes trade in offals | | |
| pork | X | | | | |
| poul+eggs | X | | | | |
| dairy prod | | x | most trade is done in butter, milk powder and cheese | | |
| veg+roots | | X | the raw material price is often higher than the price for the processed good | | |
| fruits+nuts | X | | | | |
| fishery prod | | x | the trade in fresh products is not representative | | |
| coffee | x | | • | | |
| cocoa+tea | x | | | | |
| bev.of alcoh | x | | | | |
| fibers | | x | there is no trade in seed cotton, only linter, which has too low a price | | |
| indust.crops | x | | - | | |
| bov+ov fat | X | | | | |
| pig fat | | x | it is not traded as such, but as "lard" (derived commodity) | | |
| poultry fat fish oil | x | X | it is not traded as such but as "rendered" | | |
| meat meal | x | | | | |
| fish meal | x | | | | |
| wool.+ hides | * | x | the processed good is mainly traded | | |
| pig hides | | x | the smaller price was chosen | | |

| Table 1. | Combination | of | Original | and | Aggregated | Prices |
|----------|-------------|----|----------|-----|------------|--------|
| | | | | | | |

EXT70_{j,t} = total exports, country j, at constant 70 value, in year t
exch_{j,t} = exchange rate, country j, year t in nc/US\$
exch_{j,70} = exchange rate, country j, year 1970 in nc/US\$
EXA_{j,t}(i) = agriculture exports volume, country j, commodity i, year t

| | Ċ | letailed models 3001 - 3027 | 1 | | simplified models 3501 - 3518 | | | | |
|-----|-----------|--------------------------------|--|-------------|----------------------------------|---------------|--|--|--|
| | com | modity | " good din | n '' | commodity | dimension | | | |
| 30. | | | <u>. </u> | 35 | | | | | |
| 1 | | wheat | (2)mt | 1 | wheat | (2)mt | | | |
| 2 | | rice | (2)mtm | 2 | rice | (2)mt milled | | | |
| 3 | | coarse grain | (2)mt | 3 | coarse grain | (2)mt | | | |
| 4 | | vegetable oil | (2)mt | 8 | other food | (1)1000\$70 | | | |
| 5 | | protein feed | (2)mt pr | 7 | protein feed | (2)mt prot | | | |
| 6 | | sugar | (2)mt | 8 | other food | (1)1000\$70 | | | |
| 7 | | bov+ov meat | (2)mt | 4 | bov+ov meat | (2)mt | | | |
| 8 | | pork | (2)mt | 6 | other meat | (2)mt protein | | | |
| 9 | | poultry+eggs | (2)mt pr | 8 | other meat | (2)mt protein | | | |
| 10 | | dairy prod | (2)mt | 5 | dairy prod | (2)mt milk | | | |
| 11 | | veget+roots | (1)1000\$ | 8 | other food | (1)1000\$70 | | | |
| 12 | | fruits+nuts | (1)1000\$ | 8 | other food | (1)1000\$70 | | | |
| 13 | | fishery prod | (2)mt pr | 6 | other meat | (2)mt protein | | | |
| 14 | | coffee | (2)mt | 8 | other food | (1)1000\$70 | | | |
| 15 | | cocoa+tea | (1)1000\$ | 8 | other food | (1)1000\$70 | | | |
| 18 | | bev.of alcoh | (1)1000\$ | 8 | other food | (1)1000\$70 | | | |
| 17 | | fibres | (1)1000\$ | 9 | industr.crops | (1)1000\$70 | | | |
| 18 | | industr.crops | (1)1000\$ | 9 | industr.corps | (1)1000\$70 | | | |
| 19 | | non agricult | (1)1000\$ | 10 | non agric | (1)1000\$70 | | | |
| | reduction | | | ree | duction | | | | |
| 20 | 4 | bov+ov fat | (2)mt | 11 | 8 bov+ov fat | (1)1000\$70 | | | |
| 21 | 4 | pig fat | (2)mt | 12 | 8 other fat | (1)1000\$70 | | | |
| 22 | | poultry fat | (2)mt | 12 | 8 other fat | (1)1000\$70 | | | |
| 23 | | fish oil | (2)mt | 12 | 8 other fat | (1)1000\$70 | | | |
| 24 | 5 | meat meal | (2)mt pr | 13 | 7 meat meal | (2)mt protein | | | |
| 25 | 5 | fish meal | (2)mt pr | 14 | 7 fish meal | (2)mt protein | | | |
| 26 | 17 | wool, hides | (1)1000\$ | 15 | 9 wool, hides | (1)1000\$70 | | | |
| 27 | | pig hides | (1)1000\$ | 16 | 9 pig hides | (1)1000\$70 | | | |

Table 2. Small and Detailed FAP Commodity List.

- $pwe_t(i) = world price for commodity i, year t$
- $pwe_{70}(i) = world price for commodity i, year 1970$
- C_j = number of countries which aggregate to "world" (FAP countries)
- Ni = number of agriculture commodities.

3. RESULTS

The calculated world prices can be presented in numerous groupings and ways. Here the following combinations have been chosen and plotted separately.

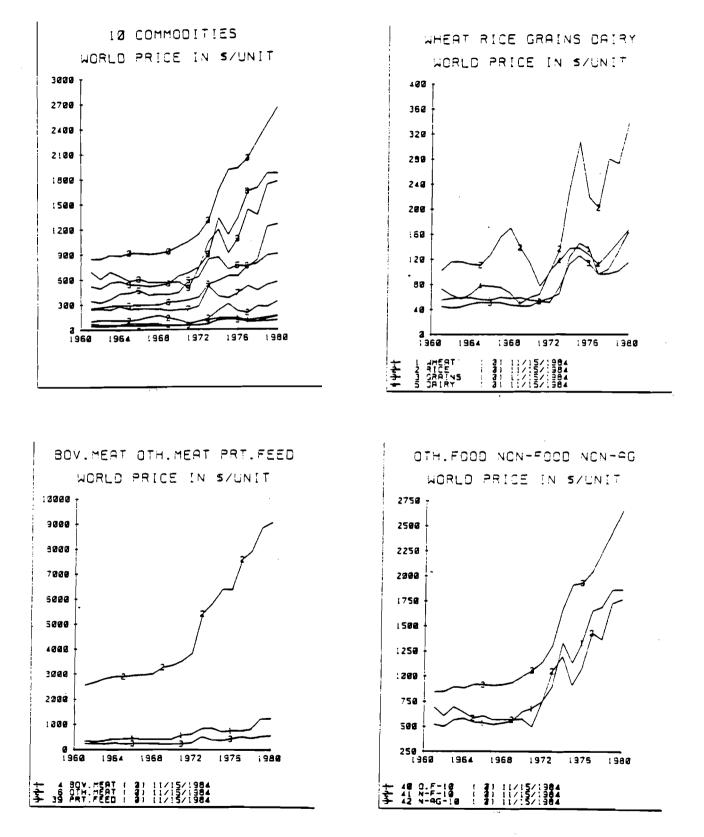
- Nominal World Prices, i.e. prices as they are calculated, in "historical" time series, i.e. between 1961 and 1980.
- Relative world prices, that is the world price of each commodity, divided by the non-agriculture price, giving an inflation-free view of the prices. Only historical numbers are presented (i.e. 1961-1980).
- Exponential extrapolation of the nominal world prices until the year
 2000, by fitting the 20 years between 1961 and 1980 with an exponential regression.
- 4. Linear extrapolation for the relative world prices series, by making a linear regression on the historical time series.

Each of the above four groups is arranged in the order of the small FAP commodity list. A subdivision into those commodities which constitute the detailed FAP list can be calculated as well. Also shown are four tables of time series. These are a combination of historical time series and extrapolated values, and should serve as reference for the plots mentioned above. The order of the commodities here follows the divisions into the small and detailed FAP commodity lists. The nominal prices are all given in current US\$ per unit. The units are different depending on the commodity they refer to. In Table 2 above the various units can be seen.

3.1. Nominal World Prices

The historical world prices, as calculated with the methodology discussed above, all range between 40 and 4000 US\$ per unit, except for "poultry and eggs" (and therefore "other meat") which go up to 10,000 US\$ as the unit of measurement is mt protein.

The following plots show the development of these prices between 1961 and 1980. The x-axes start in 1960 for reasons of convenience, the actual curves only start in 1961. The first plot shows all 10 commodities in one chart. For this purpose the world price of "other meat" has been scaled down with 0.1 in order to make it comparable with the other prices. The next three graphs show, in somewhat larger scale, each of the 10 demand commodities of the small FAP commodity list. The unit for each price has to be taken from Table 2 as it is not always the same for the various curves on one chart. Nominal World Prices for the 10 Demand Commodities of the Small FAP Commodity List.

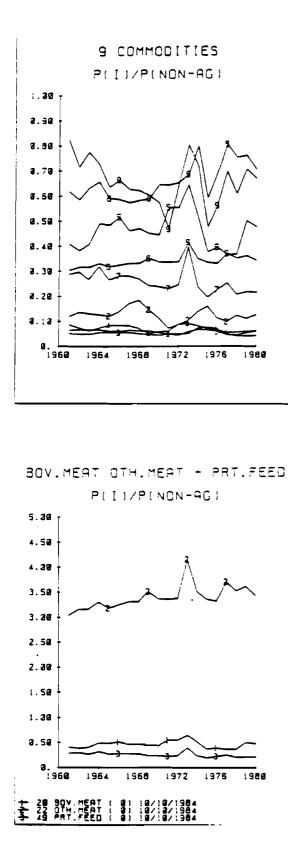


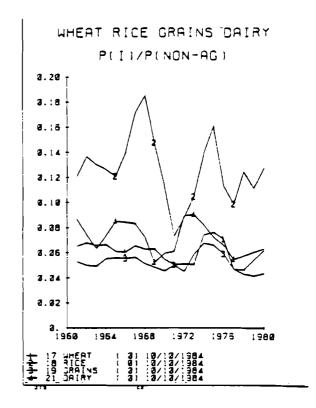
- 11 -

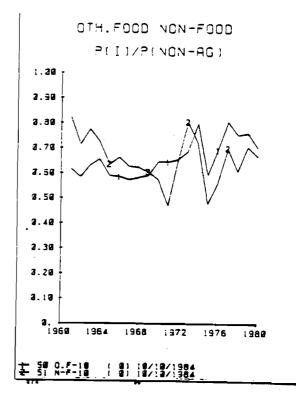
3.2. Relative World Prices

In the case of relative world prices the range of values lies between 0.04 and 0.8, except for "poultry and eggs" (and thus "other meat") which goes up to 5. These values are the ratio between world price in US\$ per unit of each commodity and the price in US\$ per 1000 \$ 70 of the non-agriculture commodity (frequently called the 10th commodity). These figures thus exclude inflation and give a better picture of the world price development of each product.

The graphs for the relative world prices, except for the 10th commodity, which always would be 1. per definition, are shown next. The first plot gives an overview over all 9 commodities, with the 6th commodity ("other meat") scaled down with 0.1 in order to be able to show more details of the development of the other prices. The next plots are grouped in the same way as the nominal world prices. Relative World Prices for 9 Demand Commodities of the Small FAP List.







3.3. Exponential Extrapolation

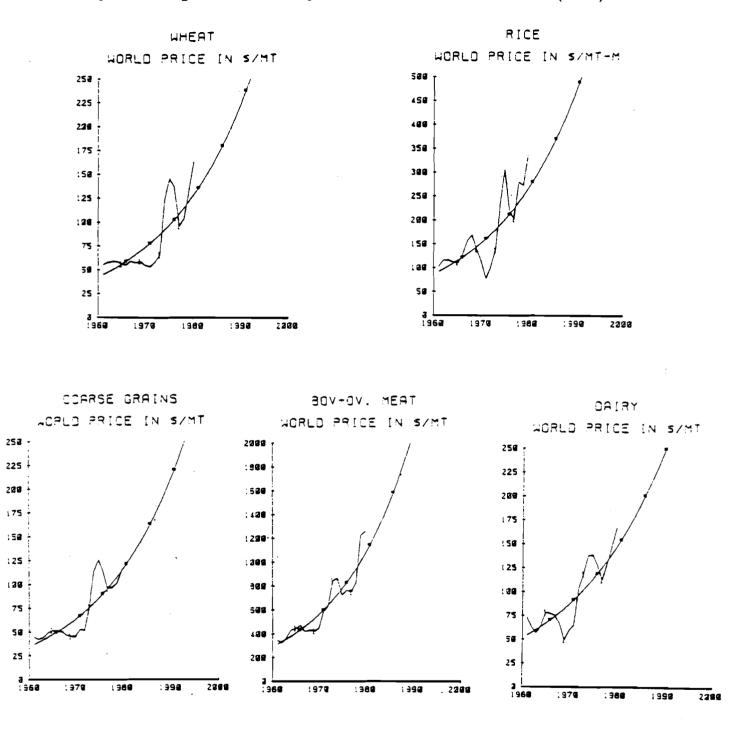
In the next series of graphs the previously shown nominal prices are plotted again, in conjunction with values from the exponential regression

$$wp(t) = a * exp (b*t), t=1961 to 1980$$

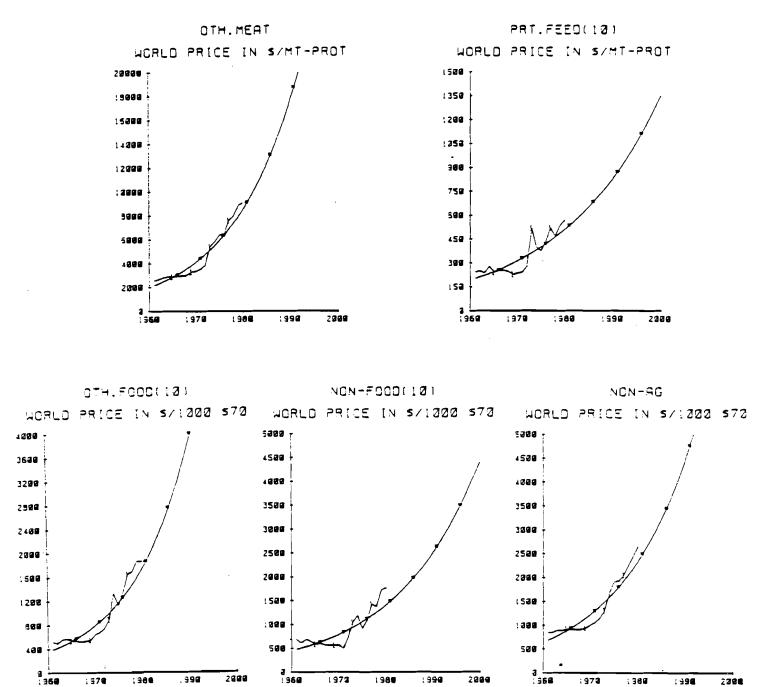
for each commodity and extrapolated to the year 2000. The arrangement of the commodities follows the previously discussed mode.

As would be expected, the trend is highly exponential and in numerous cases the price for the year 2000 does not even fit on the chart. The plots are mainly meant as reference to compare results from simulation runs or forecasts from other sources.

It can be seen immediately that the fit is generally poor, which is also reflected in the control values of the regression calculations. The large fluctuations and changes in direction between 1967 and 1975 are hard to fit.



Exponential regression and Extrapolation of the Nominal World Prices (61-80).



... continued ...

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3.4. Linear Extrapolation

For the relative world prices the linear regressions

 $wp(t) = a + b^{*}t, t = 1961 to 1980$

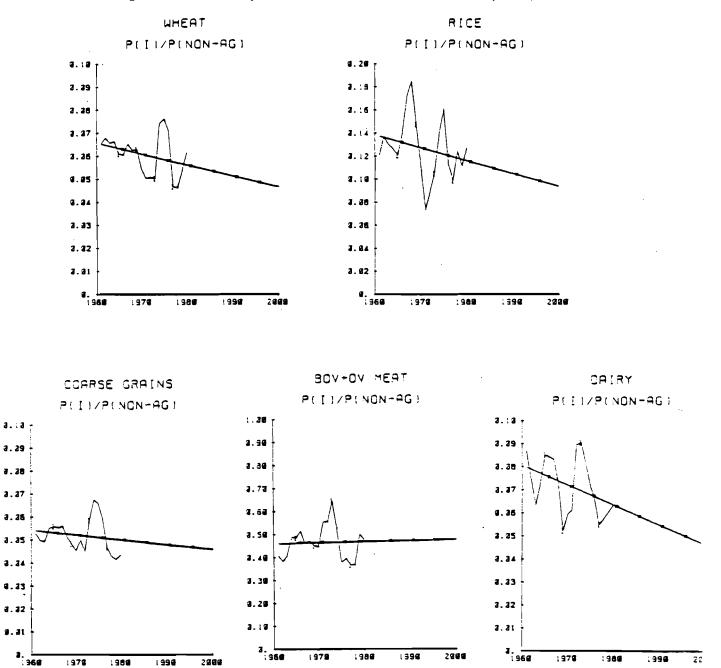
were calculated and with the coefficients a and b all years until 2000 were extrapolated. A linear function, instead of the previous exponential one was taken, as it seems to reflect better the trend, although the fit is still rather poor.

Also here the non-agriculture sector has been left out as it would only show flat 1's. For reasons of clarity the y-scale is varying in order to show better the fluctuations over time of the "historical" relative world prices.

It can be seen that the prices between 1961 and 1970 fluctuate very much. This certainly has an influence on the projected linear trend. If one leaves out the first 10 years in the linear regression, and only takes values between 1971 and 1980, a change in trend direction can be noticed for some commodities;

- wheat and non-food become positive;
- rice becomes strongly positive;
- bovine and ovine meat changes from positive to negative trend.
- dairy, other meat, protein feed and other food do not change direction.

These plots are shown below. The observed years between 1961 and 1969 are also drawn although they are not included in the regressions. The changed trend behavior is even more noticeable in the plots of the detailed commodity list, not shown here.



1978

:988

1398

2999

1978

: 988

: 998

22

3. <u>-</u>

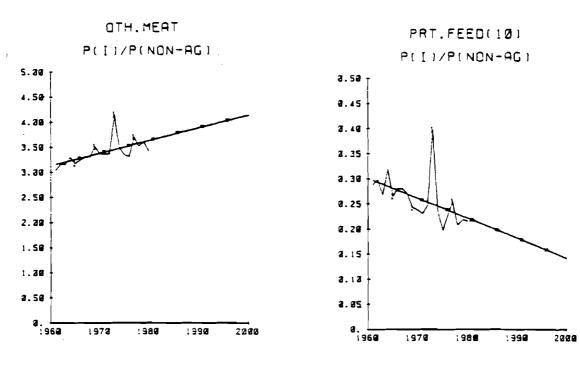
1978

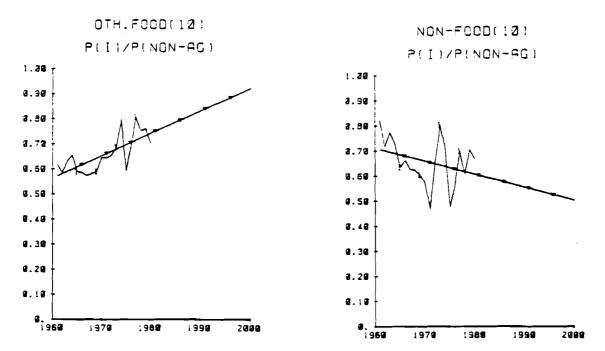
1988

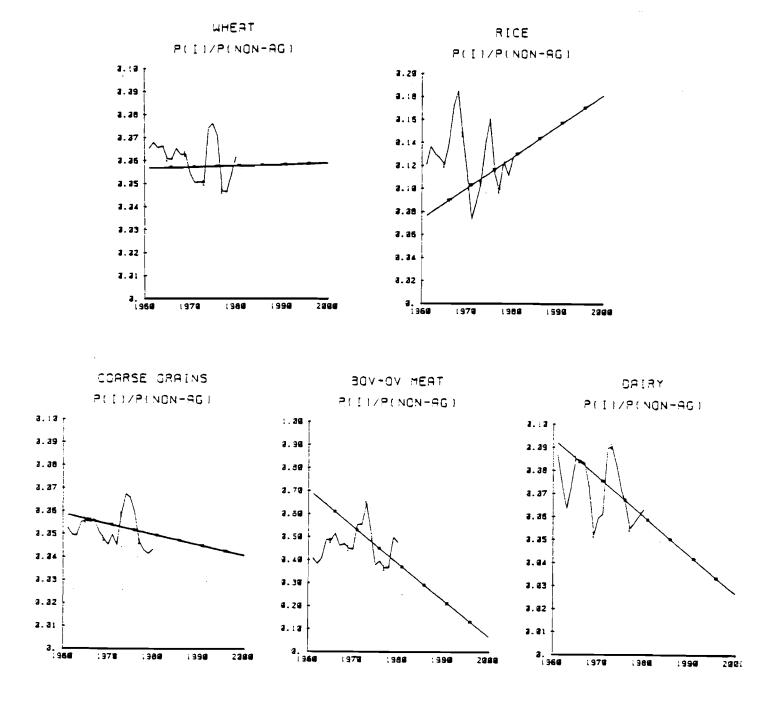
1998

2998

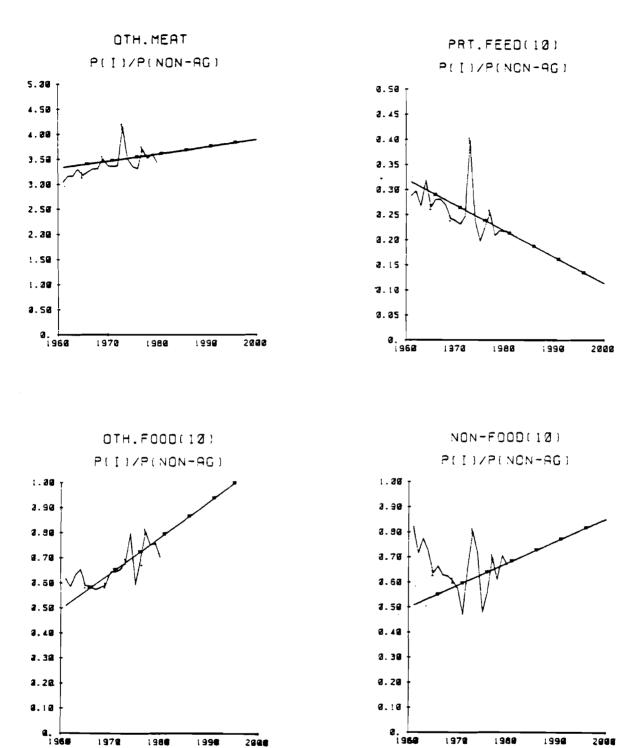
Linear Regression and Extrapolation of the Relative World Prices (61-80).







Linear Regression and Extrapolation of the Relative World Prices (71-80).



4. TABLES OF WORLD PRICES

For reference purposes actual tables of world prices, nominal and relative, are also included. On each table the historical series, between 1961 and 1980 is shown first, and below the dashed line extrapolations until the year 2000 are given. In the case of nominal world prices the extrapolation follows an exponential trend, for relative world prices the trend is linear. The last line on each page gives the average price between 1961 and 1980.

In Table 3 nominal world prices for the 10 demand commodities of the small FAP commodity list are tabulated. On Table 4 the relative world prices are shown.

All details for the aggregated commodities like "other meat", "other food", "non food" can be found in Table 5, for the nominal world prices, and in Table 6 for the relative world prices. Some commodities like wheat, rice, coarse grains, dairy and bovine and ovine meat are repeated in these tables.

It should be noted that the aggregate prices result from weighting the disaggregated prices with the corresponding quantities that contribute to the aggregate, and with US\$ or protein conversion weights when needed. Therefore recalculations by hand should be done with extreme care.

short list

-

:

:

| year | wheat | rice | oth.cer. | bov.meat | dairy | oth.meat | prt.feed | oth.food | non-food | uon-eg | |
|--|--|---|--|---|--|--|--|---|---|---|-----------|
| 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 | 55.10 57.71 58.74 58.72 55.95 55.32 59.26 57.41 59.06 54.69 53.43 58.14 65.85 123.9 145.9 136.8 96.09 104.2 132.2 163.5 | 102.0 116.2 116.6 111.8 110.8 127.8 155.3 170.0 138.5 113.6 77.22 100.7 136.8 231.8 308.1 219.1 202.0 280.0 272.5 337.4 | $\begin{array}{r} 44.74\\ 42.28\\ 44.09\\ 48.88\\ 51.41\\ 50.65\\ 50.96\\ 46.91\\ 45.31\\ 45.36\\ 53.02\\ 51.39\\ 76.54\\ 112.7\\ 126.1\\ 114.2\\ 95.86\\ 96.80\\ 101.4\\ 115.3 \end{array}$ | 346.5 325.0 365.8 433.2 444.5 472.4 417.8 431.5 423.3 445.8 588.0 634.0 843.8 865.8 721.6 764.5 750.4 829.9 1229. 1260. | $\begin{array}{c} 73.58\\ 63.20\\ 56.63\\ 64.77\\ 78.12\\ 76.91\\ 75.09\\ 66.37\\ 48.98\\ 59.52\\ 64.70\\ 102.3\\ 118.2\\ 137.5\\ 138.2\\ 127.3\\ 112.2\\ 128.9\\ 147.7\\ 167.1 \end{array}$ | 2571. 2685. 2832. 2922. 2921. 2976. 2999. 3042. 3301. 3375. 3559. 3865. 5430. 5859. 6413. 6393. 7599. 7599. 7927. 8857. 9081. | 243.5 253.0 238.9 282.6 243.9 257.0 254.2 247.0 228.2 238.4 244.4 282.8 520.2 398.4 376.0 438.5 521.9 467.8 535.2 571.3 | 523.3 496.2 565.1 579.8 541.6 536.1 519.6 534.7 555.0 646.9 648.6 748.0 898.2 1335. 1131. 1336. 1653. 1694. 1865. 1864. | 697.2 606.9 693.7 641.7 583.1 607.3 567.8 570.7 567.3 574.1 496.0 742.4 1051. 1199. 910.7 1084. 1433. 1367. 1731. 1770. | 846.2 894.8 894.8 883.7 918.1 915.0 905.6 917.1 938.8 1001. 1059. 1143. 1307. 1670. 1912. 1930. 2050. 2250. 2450. 2650. | |
| 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1993 1994 1995 1996 1997 1998 1999 2000 aver.61-80 | 136.3 144.1 152.4 161.1 170.4 180.1 190.5 201.4 212.9 225.1 238.0 251.6 266.0 281.3 297.4 314.4 332.5 351.5 371.6 392.9 | 280.6 296.6 313.5 331.4 350.3 370.3 391.5 413.8 437.5 462.4 488.9 516.8 546.3 577.5 610.4 645.3 682.1 721.1 762.3 805.8 171.4 | 121.5 129.0 136.9 145.2 154.1 163.5 173.5 184.1 195.4 207.4 220.0 233.5 247.8 262.9 279.0 296.1 314.2 333.4 353.7 375.4 70.70 | 1146. 1223. 1305. 1392. 1486. 1585. 1691. 1805. 1926. 2055. 2193. 2340. 2497. 2664. 2842. 3033. 3236. 3453. 3685. 3932. 629.6 | 154.4 162.7 171.4 180.6 190.3 200.6 211.3 222.7 234.6 247.2 260.5 274.5 289.2 304.8 321.1 338.4 356.5 375.7 395.8 417.1 95.37 | 9130. 9812. 0.1054e+05 0.133e+05 0.1218e+05 0.1218e+05 0.1309e+05 0.1406e+05 0.1511e+05 0.1624e+05 0.1876e+05 0.2016e+05 0.2166e+05 0.2328e+05 0.2689e+05 0.2890e+05 0.3105e+05 0.3586e+05 4730. | 537.8 564.5 592.5 621.9 652.8 685.2 719.2 754.9 792.3 831.6 872.9 916.2 961.7 1009. 1059. 1112. 1167. 1225. 1286. | 1872. 2023. 2187. 2364. 2555. 2762. 2986. 3227. 3489. 3771. 4076. 4406. 4763. 5149. 5565. 6016. 6503. 7029. 7598. 8213. 935.2 | 1491. 1578. 1670. 1768. 1871. 1980. 2096. 2219. 2348. 2486. 2631. 2785. 2948. 3120. 3302. 3495. 3700. 3916. 4145. 4387. 894.7 | 2493. 2659. 2837. 3026. 3228. 3444. 3674. 3919. 4181. 4460. 4758. 5076. 5415. 5777. 6162. 6574. 7013. 7481. 7981. 8514. 1375. | - 23 - |

TABLE 3: Nominal world prices, small FAP commodity list.

short list

relative world price:

:

| year | wheat | rice | oth.cer. | bov.meat | dairy | oth.meat | prt.feed | oth.food | non-food | non-ag |
|------------|------------|------------|------------|----------|------------|----------|----------|----------|----------|--------|
| 1961 | Ø.6512e-01 | 0.1205 | 0.52880-01 | 0.4095 | 0.86960-01 | 3.038 | 0,2878 | 0.6184 | 0.8240 | 1.0000 |
| 1962 | 0.67960-01 | 0.1368 | 0.49790-01 | 0.3827 | 0.7442e-01 | 3.162 | 0.2979 | 0.5844 | 0.7147 | 1.0000 |
| 1963 | 0.65640-01 | 0.1303 | 0.49270-01 | 0.4088 | 0.6329e-01 | 3.165 | 0.2670 | 0.6315 | 0.7753 | 1.0000 |
| 1964 | 0.66450-01 | 0.1265 | 0.55310-01 | 0.4903 | 0.73290-01 | 3.307 | 0.3198 | 0.6561 | 0.7262 | 1.0000 |
| 1965 | 0.6094e-01 | 0.1207 | 0.56000-01 | 0.4842 | 0.8509e-01 | 3.181 | 0.2657 | 0.5899 | 0.6351 | 1.0000 |
| 1966 | 0.60460-01 | 0.1397 | 0.55360-01 | 0.5163 | 0.84060-01 | 3.252 | 0.2809 | 0.5859 | 0.6638 | 1.0000 |
| 1967 | 0.6544e-01 | 0.1715 | 0.56280-01 | 0.4614 | 0.8292e-01 | 3.311 | 0.2807 | 0.5738 | 0.6270 | 1.0000 |
| 1968 | 0.6260e-01 | 0.1854 | 0.5115e-01 | 0.4705 | 0.72370-01 | 3.317 | 0.2693 | 0.5830 | 0.6223 | 1.0000 |
| 1969 | 0.62920-01 | 0.1475 | 0.4827e-01 | 0.4509 | 0.5218e-01 | 3.517 | 0.2430 | 0.5911 | 0.6043 | 1.0000 |
| 1970 | 0.54620-01 | 0.1134 | 0.45300-01 | 0.4452 | 0.5944e-01 | 3.370 | 0.2381 | 0.6461 | 0.5733 | 1.0000 |
| 1971 | 0.50460-01 | 0.7292e-01 | 0.5007e-01 | 0.5553 | 0.6110e-01 | 3.361 | 0.2308 | 0.6437 | 0.4684 | 1,0000 |
| 1972 | 0.50860-01 | 0.8812e-01 | 0.4496e-01 | 0.5546 | 0.8948e-01 | 3.381 | 0.2474 | 0.6544 | 0.6495 | 1.0000 |
| 1973 | 0.50370-01 | 0.1047 | 0.5855e-01 | 0.6454 | 0.90440-01 | 4.153 | 0.3979 | 0.6870 | 0.8039 | 1.0000 |
| 1974 | 0.7420e-01 | 0.1388 | 0.6749e-01 | 0.5184 | 0.8234e-01 | 3.508 | 0.2386 | 0.7992 | 0.7179 | 1.0000 |
| 1975 | 0.76300-01 | 0.1611 | 0.65960-01 | 0.3773 | 0.7227e-01 | 3.354 | 0.1966 | 0.5912 | 0.4762 | 1.0000 |
| 1976 | 0.7087e-01 | 0.1135 | 0.5915e-01 | 0.3961 | 0.6597e-01 | 3.312 | 0.2272 | 0.6924 | 0.5617 | 1.0000 |
| 1977 | 0.4687e-01 | 0.98540-01 | 0.4676e-01 | 0.3661 | 0.5475e-01 | 3.707 | 0.2546 | 0.8064 | 0.6992 | 1.0000 |
| 1978 | 0.4630e-01 | 0.1245 | 0.43020-01 | 0.3689 | 0.5731e-01 | 3.523 | 0.2079 | 0.7531 | 0.6075 | 1.0000 |
| 1979 | 0.5397e-01 | 0.1112 | 0.4139e-01 | 0.5015 | 0.60280-01 | 3.615 | 0.2185 | 0.7611 | 0.7067 | 1.0000 |
| 1980 | 0.61700-01 | 0.1273 | 0.43500-01 | 0.4756 | 0.6305e-01 | 3.427 | 0.2156 | 0.7032 | 0.6679 | 1.0000 |
| 1981 | 0.54700-01 | 0.1126 | 0.4876e-01 | 0.4598 | 0.6194e-01 | 3.663 | 0.2158 | 0.7509 | 0.5981 | 1.0000 |
| 1982 | 0.54210-01 | 0.1115 | 0.4851e-01 | 0.4599 | 0.6118e-01 | 3.690 | 0.2123 | 0.7608 | 0.5934 | 1.0000 |
| 1983 | 0.5373e-01 | 0.1105 | 0.4825e-01 | 0.4600 | 0.6043e-01 | 3.717 | 0.2089 | 0.7709 | 0.5888 | 1.0000 |
| 1984 | 0.5325e-01 | 0.1095 | 0.4799e-01 | 0.4601 | 0.5969e-01 | 3.745 | 0.2055 | 0.7812 | 0.5842 | 1.0000 |
| 1985 | 0.5277e-01 | 0.1085 | 0.47740-01 | 0.4602 | 0.5896e-01 | 3.772 | 0.2022 | 0.7915 | 0.5796 | 1.0000 |
| 1986 | 0.5231e-01 | 0.1075 | 0.4749e-01 | 0.4603 | 0.5823e-01 | 3.800 | 0.1990 | 0.8020 | 0.5751 | 1.0000 |
| 1987 | 0.5184e-01 | 0.1066 | 0.4724e-01 | 0.4604 | 0.5752e-01 | 3.828 | 0.1958 | 0.8127 | 0.5706 | 1.0000 |
| 1988 | 0.5138e-01 | 0.1056 | 0.4699e-01 | 0.4605 | 0.5681e-01 | 3.856 | 0.1926 | 0.8235 | 0.5661 | 1.0000 |
| 1989 | 0.5092e-01 | 0.1046 | 0.4674e-01 | 0.4606 | 0.5612e-01 | 3.885 | 0.1895 | 0.8344 | 0.5617 | 1.0000 |
| 1990 | 0.5047e-01 | 0.1037 | 0.4649e-01 | 0.4607 | 0.5543e-01 | 3.914 | 0.1865 | 0.8455 | 0.5573 | 1.0000 |
| 1991 | 0.5002e-01 | 0.1027 | 0.4624e-01 | 0.4608 | 0.5475e-01 | 3.942 | 0.1835 | 0.8567 | 0.5530 | 1.0000 |
| 1992 | 0.4957e-01 | 0.1018 | 0.4600e-01 | 0.4609 | 0.5408e-01 | 3.972 | 0.1805 | 0.8681 | 0.5486 | 1.0000 |
| 1993 | 0.4913e-01 | 0.1009 | 0.4576e-01 | 0.4610 | 0.5341e-01 | 4.001 | 0.1776 | 0.8796 | 0.5444 | 1.0000 |
| 1994 | 0.4870e-01 | 0.9997e-01 | 0.4552e-01 | 0.4612 | 0.5276e-01 | 4.030 | 0.1747 | 0.8913 | 0.5401 | 1.0000 |
| 1995 | 0.4826e-01 | 0.9906e-01 | 0.4527e-01 | 0.4613 | 0.5211e-01 | 4.060 | 0.1719 | 0.9031 | 0.5359 | 1.0000 |
| 1996 | 0.4783e-01 | 0.9816e-01 | 0.4503e-01 | 0.4614 | 0.5147e-01 | 4.090 | 0.1692 | 0.9151 | 0.5317 | 1.0000 |
| 1997 | 0.47410-01 | 0.9727e-01 | 0.4480e-01 | 0.4615 | 0.5084e-01 | 4.120 | 0.1664 | 0.9273 | 0.5276 | 1.0000 |
| 1998 | 0.4699e-01 | 0.96390-01 | 0.4456e-01 | 0.4616 | 0.5021e-01 | 4.151 | 0.1638 | 0.9396 | 0.5234 | 1.0000 |
| 1999 | 0.46570-01 | 0.95510-01 | 0.4432e-01 | 0.4617 | 0.4960e-01 | 4.181 | 0.1611 | 0.9520 | 0.5193 | 1.0000 |
| 2000 | 0.4615e-01 | 0.9464e-01 | 0.4409e-01 | 0.4618 | 0.4899e-01 | 4.212 | 0.1585 | 0.9647 | 0.5153 | 1.0000 |
| aver.61-80 | 0.6070e-01 | 0.1267 | 0.5202e-01 | 0.4639 | 0.7155e-01 | 3,398 | 0.2593 | 0.6576 | 0.6562 | 1.0000 |

- 24 -

| dairy | 73.58 56.53 56.53 76.91 76.91 76.91 76.91 18.23 86.33 76.91 18.23 137.5 128.33 137.5 128.33 128.33 128.33 128.33 128.33 128.33 128.55 128.55 128.55 128.55 128.55 128.55 128.55 1 | 154.4 1712.4 1712.4 1712.4 1712.4 1712.4 1712.4 1712.4 1712.4 1712.4 171.1 154.5 1712.4 171.4 171.1 171.4 171.1 171.4 17 | 95.37 |
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| poult+eg | 9666 97976 97966 97976 97966 979777 979777 979777 97977777777 | 7823. 8165. 8521. 8521. 9281. 9281. 92866. 9286. 9286. 9286. 92866. 9286. 9286. 9286. 9286. 9286. 9286 | 5217. |
| pork | 378.4 378.4 559.2 559.2 559.6 559.6 559.6 559.6 537.6 537.6 537.6 537.6 537.6 537.6 539.6 539.6 539.6 539.6 539.6 537.6 57.6 57.6 57.6 57.6 57.6 | 1506. 1619. 1740. 1870. 1870. 1870. 2009. 2000. 200. 2000. 2 | 779.5 |
| bov+ov.m | 346.5 325.5 325.5 325.5 325.5 325.5 325.5 444.5 584.6 584.6 584.6 584.6 584.6 584.6 584.6 584.6 584.6 584.6 584.6 584.6 586.3 586.5 575.5 586.55 | 1146. 1223. 1305. 1305. 1305. 1305. 1305. 1305. 1456. 1456. 1456. 1456. 1456. 1456. 1456. 1456. 1456. 1456. 146. 146. 146. 146. 146. 146. 146. 14 | 629.6 |
| sugar | 69.61 61.05 61.05 61.05 64.38 64.38 73.11 737.1 64.38 73.84 73.84 73.88 73.88 73.88 73.88 73.88 73.88 73.88 73.88 73.88 73.88 73.88 73.88 73.75 75 75 75 75 75 75 75 75 75 75 75 75 7 | 281.1 304.6 337.9 337.9 337.9 337.9 337.9 337.9 535.4 535.6 535.4 6529.0 6529.0 6529.0 6529.0 6529.0 1106. 1106. 1209. | 144.1 |
| pr.feed | 2548.8 2548.8 2548.6 2549.6 2569.6 2564.1 2564.1 2564.5 2564.1 2564.5 2564.1 2564.5 2564.1 2564.5 2564.5 2564.5 2564.5 2564.5 2564.5 2566.5 25 | 541.6 557.9 557.9 557.9 557.9 554.7 719.5 719.5 719.5 719.5 870.1 870.1 870.1 1053.5 1053.5 11033.1 11033.1 11103.1 11100.1 11100.1 11100.1 1110.1 11100.1 1110.1 110 | 347.8 |
| veg. oil | 263 2273 2273 2273 2533 2533 2533 2553 2564 2553 2564 2553 2564 2553 2564 2553 2564 2553 2564 2553 2564 2553 2564 2564 2564 2564 2564 2564 2564 2564 | 658.9 701.9 747.6 848.3 962.5 962.5 962.5 1092. 1163. 1163. 1163. 1239. 1163. 1239. | 372.7 |
| coarse g | 44.74 442.74 51.339 50.65 50.65 51.3395 51.3395 51.3395 51.3395 51.33955 | 121.5 129.6 129.6 1295.9 1205.9 1000000000000000000000000000000000000 | 70.70 |
| rice | 102 102 102 102 102 102 102 102 102 102 | 280.6 296.6 3313.5 331.5 331.4 331.4 331.5 331.4 331.5 3321.5 3321.5 3331.5 3321.5 33331.5 33331.5 3331.5 3331.5 3331.5 33331.5 33331.5 3331.5 3331.5 333333 | 171.4 |
| wheat | 55.10 57.11 58.72 58.72 58.72 55.332 55.332 55.12 55.14 55.14 125.9 55.14 125.9 55.14 125.9 55.14 125.9 55.14 125.9 55.14 125.9 55.14 125.9 55.16 125.9 55.17 125.9 55.17 125.9 55.17 55.1 | 136.3 144.1 152.4 152.4 170.10 | 82.60 |
| Jeef | 1961 1962 1963 1966 1966 1973 1978 1978 1978 1978 1978 1978 1978 1978 | 1981 1982 1988 1988 1999 1999 1999 1999 | aver.61-80 |

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nominal world price :

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| j.vo+vod | 1121.6 121.6 121.7 121.6 121.6 121.6 121.6 121.6 121.7 121.7 121. | 404.0 404.0 453.55 453.55 499.3 535.8 535.8 535.8 6617.1 762.7 763.5 763.5 763.5 763.5 763.5 763.5 763.5 763.5 763.7 777.7 763.7 777.7 763.7 777.7 763.7 777.7 763.7 777.7 763.7 7777.7 777.7 777.7 777.7 777.7 7777.7 777.7 7 |
| non-agr | 846.2 846.2 894.8 9915.6 917.1 1001. 1143. 1145. 1143. | 2493. 2659. 2837. 2837. 2837. 3026. 3328. 3319. 4180. 4180. 4180. 5717. 5715. 5755. 5755. 5755. 5755. 5755. 5755. 5755. 5755. 5755. 5755. 5755. |
| ind.or. | 363.3 382.3 385.8 384.5 339.4 339.4 339.6 370.7 593.0 593.0 593.2 593.9 533.2 593.9 533.2 593.9 533.2 592.1 592.7 | 943. S 1069. 1138. 1138. 1211. 1289. 1371. 1371. 1554. 1873. 1874. 1874. 1874. 1874. 1874. 1874. 1874. 1874. 1874. 1874. 1874. 1874. 1874. 1874. 1874. 1874. 19774. 1975 |
| fibres | 1017. 826.1 999.4 815.3 815.3 815.3 815.3 815.3 815.3 815.3 816.4 918.0 1258. 1040. 1258. 1040. 1258. 1040. 1258. 1257. 1258. 1257. | 2147. 2272. 22406. 2547. 2547. 25896. 3385. 3021. 4251. 4251. 4251. 4251. 5339. 5339. 5339. 5339. 5339. 5339. 5339. 5339. 5339. 5383 |
| bev.dist | 520.4 317.4 322.8 564.2 716.7 716.7 716.7 564.2 568.3 564.4 586.3 586.3 586.3 586.3 584.1 584.1 584.1 584.1 584.1 584.1 584.1 1078 584.1 1147 584.1 1147 584.1 1163 584.1 1163 584.1 584.1 584.1 584.1 584.1 584.1 584.1 584.1 584.1 584.1 584.1 584.1 584.1 584.1 584.1 584.1 584.1 586.3 584.1 586.3 584.1 586.3 584.1 586.3 586.5 | 1033. 1039. 1149. 1277. |
| coc+tea | 681.3 681.3 5609.7 556.5 556.5 533.2 533.2 649.7 533.2 633.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 533.2 1243.1 1248.1 | 1810. 1953. 1953. 2270. 2273. 2453. 3328. 346. 366. 367. 367. 367. 367. 367. 367. 36 |
| coffee | 218.9 218.9 259.8 301.4 301.4 331.6 554.2 331.6 555.1 777.6 759.8 777.6 777.6 777.6 777.6 777.6 777.6 777.6 777.6 777.6 7788.1 777.6 7788.1 777.6 7788.1 777.6 7788.1 777.6 7788.1 777.6 7788.1 777.6 7788.1 777.6 7788.1 777.6 7788.1 777.6 7788.1 777.6 7788.1 77788.1 7788.1 7777777777 | 3157. 3157. 3542. 4846. 55896. 55896. 55896. 5447. 7437. 8578. 8578. 8578. 9.13179. 9.13179. 9.2020. 9.2020. 9.2020. 9.4156. 0.2020. 1040. 1049. |
| fish pr. | 1544. 1789. 1592. 1671. 1787. 1787. 1787. 1787. 1787. 1793. 1793. 1793. 1793. 1793. 2692. 25844. 25844. 25844. 2592. 2692. 5778. 557 | 7637. 8364. 9119. 9119. 9119. 9119. 0.10840+05 0.11820+05 0.12880+05 0.12880+05 0.12880+05 0.12820+05 0.188405 0.188405 0.188405 0.255710+05 0.28580+05 0.28500+05000+05000+05000+0000+0000+0000+0 |
| frt+nuts | 459.2 461.6 478.8 478.8 504.4 535.1 535.1 535.1 535.1 535.6 628.7 728.4 728.4 728.4 728.7 535.1 1982. 1982. 1982. 1319. 1319. | 773.4 773.4 773.4 773.4 773.4 773.4 773.4 773.4 773.4 773.4 773.4 773.4 773.4 773.4 773.4 |
| ve&+rts | 329.7 369.4 378.9 378.9 378.9 326.6 326.1 326.1 326.6 3367.1 326.8 3267.1 420.8 3365.6 529.3 3365.6 529.3 851.5 851.5 851.5 999.6 | 976.2 1039. 1107. 1107. 1255. 1515. 1515. 1515. 1515. 1717. 1515. 1613. 1717. |
| year | 1961 1962 1963 1965 1966 1966 1976 1978 1977 1978 1978 1978 1978 1978 1978 | 1982 1983 1984 1985 1986 1986 1989 1999 1999 1999 1999 1999 |

TABLE 5: Nominal world prices, detailed FAP commodily list. (continued)

long list

nominal world price :

:

| year | pig fat | pltr.fat | fish oil | m. meal | f. meal | w+w+h | pig hid. | |
|------------|---------|---|----------|---------|---------|-------|---------------|--|
| 1961 | 212.4 | 606.7 567.0 804.4 950.0 765.4 555.3 637.3 457.5 431.7 400.9 387.0 338.6 406.0 569.4 495.3 452.6 498.5 528.1 638.3 802.8 478.3 472.5 466.7 461.0 455.4 449.9 444.4 439.0 433.6 428.3 423.1 417.9 412.8 407.8 402.8 397.9 393.1 388.3 383.6 378.9 564.6 | 138.7 | 119.0 | 153.1 | 709.5 | 337.8 | |
| 1962 | 175 0 | 307.0 804 A | 103.8 | 100.0 | 134.9 | 030.1 | 282.7 | |
| 1964 | 199.2 | 950 0 | 166.8 | 111 9 | 156.9 | 715.5 | 207 0 | |
| 1965 | 197.6 | 765 4 | 178 9 | 126.3 | 150 6 | 589 4 | 408 6 | |
| 1966 | 188.1 | 555.3 | 170.0 | 108.6 | 145.9 | 626.6 | 452.2 | |
| 1967 | 167.9 | 637.3 | 121.8 | 89.12 | 239.3 | 568.4 | 426.6 | |
| 1968 | 111.3 | 457.5 | 83.77 | 74.78 | 242.1 | 517.7 | 395.8 | |
| 1969 | 163.7 | 431.7 | 110.0 | 85.82 | 253.2 | 579.1 | 435.7 | |
| 1970 | 212.7 | 400.9 | 173.8 | 105.8 | 231.6 | 571.5 | 473.5 | |
| 1971 | 206.5 | 387.0 | 187.2 | 88,68 | 237.5 | 503.3 | 509.4 | |
| 1972 | 157.6 | 338.6 | 155.8 | 120.8 | 276.1 | 702.9 | 483.6 | |
| 1973 | 196.3 | 406.0 | 250.7 | 194.8 | 425.2 | 1579. | 690.0 | |
| 1974 | 375.8 | 569.4 | 438.8 | 278.7 | 522.5 | 1414. | 623.9 | |
| 1975 | 364.7 | 495.3 | 317.8 | 196.1 | 444.3 | 923.7 | 528.8 | |
| 1976 | 371.2 | 452.6 | 304.0 | 175.2 | 447.3 | 1103. | 592.0 | |
| 1977 | 424.3 | 498.5 | 232.3 | 224.1 | 640.6 | 1499. | 725.8 | |
| 1970 | 434.9 | 528.1 | 408.9 | 241.5 | 526.9 | 1572. | 882.5 | |
| 1979 | 219.5 | 038.3 | 381.9 | 301.7 | 596.9 | 2105. | 670.6 2459 | |
| 1300 | 372.7 | 002.0 | | 301.2 | 013.1 | 1987. | 2438. | |
| 1981 | 429.0 | 478.3 | 406.0 | 267.9 | 728.3 | 1682. | 1040. | |
| 1982 | 453.4 | 472.5 | 435.0 | 284.6 | 796.0 | 1790. | 1109. | |
| 1983 | 479.1 | 466.7 | 466.1 | 302.2 | 870.0 | 1904. | 1183. | |
| 1984 | 506.3 | 461.0 | 499.4 | 321.0 | 951.0 | 2026. | 1262. | |
| 1985 | 535.1 | 455.4 | 535.0 | 340.9 | 1039. | 2155. | 1346. | |
| 1986 | 565.5 | 449.9 | 573.3 | 362.1 | 1136. | 2293. | 1435. | |
| 1987 | 597.7 | 444.4 | 614.2 | 384.6 | 1242. | 2439. | 1530. | |
| 1988 | 631.6 | 439.0 | 658.1 | 408.5 | 1357. | 2595. | 1632. | |
| 1989 | 667.5 | 433.6 | 705.1 | 433.9 | 1483. | 2761. | 1741. | |
| 1990 | 705.4 | 428.3 | 755.4 | 460.8 | 1621. | 2937. | 1856. | |
| 1991 | 743.3 | 423.1 | 809.4 | 489.4 | 1//2. | 3124. | 1980. | |
| 1993 | 932 7 | 417.9 | 020.2 | 519.8 | 1937. | 3324. | 2111. | |
| 1994 | 880 0 | 407 8 | 929.2 | 596 / | 2117. | 3330. | 2252. | |
| 1995 | 930 0 | 407.8 | 1067 | 622 8 | 2579 | 4002 | 2401. | |
| 1996 | 982.8 | 397.9 | 1143 | 661.5 | 2764 | 4258 | 2301. | |
| 1997 | 1039. | 393.1 | 1224. | 702.6 | 3021 | 4529. | 2913. | |
| 1998 | 1098. | 388.3 | 1312. | 746.2 | 3302 | 4819. | 3107. | |
| 1999 | 1160. | 383.6 | 1406. | 792.6 | 3610. | 5126. | 3313. | |
| 2000 | 1226. | 378.9 | 1506. | 841.8 | 3945. | 5454. | 3533. | |
| | | | | | | | | |
| aver.61-80 | 262.9 | 564.6 | 221.9 | 157.5 | 329.8 | 985.6 | 606.1 | |

TABLE 5: Nominal world prices, detailed FAP commodity list. (continued)

| list. |
|------------|
| commodity |
| FAP |
| detailed |
| ld prices. |
| world |
| Kelative |
| TABLE 6: |

| dairy | 0.8696e-01 0.7422e-01 0.7329e-01 0.8299e-01 0.8299e-01 0.8299e-01 0.8299e-01 0.8299e-01 0.8299e-01 0.5218e-01 0.5944e-01 0.8294e-01 0.8294e-01 0.8294e-01 0.5731e-01 0.57356-01 0.57356-01 0.57356-01 0.57356-01 0.57356-01 0.57356-01 0.57566-01 0.57566-01 0.57566-01 0.57566-01 0.57566-01 0.57566-0100000000 | 0.5194-01 0.6194-01 0.6043e-01 0.5969e-01 0.58296e-01 0.5823e-01 0.5821e-01 0.5612e-01 0.5475e-01 0.5476e-01 0.5446-01 0.511e-01 0.511e-01 0.5121e-01 0.5275e-01 0.55 |
|----------|--|--|
| poult+eg | $4.444 \\ 690 \\ 69$ | 3.13 3.066 3.13 3.13 3.066 3.13 3.13 3.13 3.13 3.13 3.13 3.13 3. |
| pork | 0.4472 0.5351 0.5351 0.53798 0.5798 0.5798 0.5798 0.5777 0.5708 0.5708 0.5708 0.5716 0.5708 0.5778 0.5777 0.5728 0.57777 0.5778 0.5778 0.5778 0.57777 0.5778 0.5778 0.5778 0.5778 0.5778 0.5778 0.5778 0.5778 0.5778 0.5778 0.577778 0.57778 0.57778 0.57778 0.57778 0.57777778 0.57778 0.5777777777777777777777777777777777777 | 0.6042 0.6132 0.6132 0.6178 0.6178 0.6224 0.6224 0.6224 0.6507 0.6507 0.6507 0.6507 0.6506 0.6509 0.6509 0.6509 0.6509 0.6506 0.5506 0. |
| bov+ov.m | 0.4095 0.4095 0.4088 0.4903 0.4509 0.4509 0.4509 0.4553 0.4553 0.4553 0.4553 0.4553 0.4553 0.4553 0.3773 0.561 0.3661 0.3661 0.5613 0.3773 0.561 0.3661 0.5613 0.3773 0.561 0.4756 | 6.4598 6.4599 6.4599 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.45000 6.450000 6.450000 6.450000 6.45000000000000000000000000000000000000 |
| sugar | 0.8226e-01 0.7189e-01 0.1359 0.1359 0.1553 0.7012e-01 0.5397e-01 0.5397e-01 0.5397e-01 0.9431e-01 0.13740 0.13744 0.13740 0.13740 0.13740 0.13740 0.13740 0.13740 0.1374000000000000000000000000000000000000 | 0.1128 0.1146 0.1146 0.1164 0.1202 0.1221 0.1286 0.1221 0.1281 0.1281 0.1281 0.1281 0.1281 0.1281 0.1281 0.1409 0.1478 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.12888 0.128888 0.128888 0.128888 0.1288888 0.12888888888888888888888888888888888888 |
| pr.feed | 0.2940 0.2756 0.2756 0.2756 0.27289 0.272470 0.27440 0.27440 0.27440 0.27440 0.27440 0.27440 0.27440 0.27206 0.2308 0.2308 0.2308 0.2308 0.2308 0.2308 0.2308 0.2181 0.2181 | 6.2173 0.2136 0.2099 0.2099 0.2028 0.1993 0.1993 0.1993 0.1993 0.1993 0.1736 0.1767 0.1767 0.1766 0.1776 0.1776 0.1766 0.1776 0. |
| veg. oil | 0.2117 0.2680 0.2680 0.2680 0.2806 0.2819 0.2796 0.2796 0.2796 0.2796 0.2796 0.2796 0.2796 0.2796 0.2796 0.2796 0.2796 0.2796 0.2796 0.2796 0.2797 0.2299 0.2299 0.2397 0.2299 0.2395 00 | 0.2643 0.2640 0.2636 0.2636 0.2632 0.2628 0.2624 0.2608 0.2604 0.2509 0.2509 0.2589 0.2589 0.2570 0.2560 0.2560 0.2670 0.2670 0.2670 0.2670 0.2670 0.2670 0.2670 0.2670 0.2650 0.25500 0.255000 0.255000 0.255000 0.255000 0.255000 0.2550000000000 |
| 00arse g | 0.52886-01 0.492796-01 0.55316-01 0.55366-01 0.55366-01 0.55366-01 0.55286-01 0.55286-01 0.48276-01 0.48276-01 0.58556-01 0.58556-01 0.59156-01 0.44966-01 0.59156-01 0.43206-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.43706-01 0.44706-01 0.44706-01 0.59156-01 0.44706-01 0.59156-01 0.44706-01 0.44706-01 0.59156-01 0.44706-01 0.59156-01 0.44706-01 0.59156-01 0.44706-01 0.5915655556-0100000000000000000000000000000 | 0.4876e-01 0.4851e-01 0.4851e-01 0.4799e-01 0.4774e-01 0.4774e-01 0.4699e-01 0.4699e-01 0.4674e-01 0.4699e-01 0.4552e-01 0.4552e-01 0.4432e-01 0.4532e-01 0.45552e-01 0.45556e-01 0.45556e-01 0.45556e-01 0.45556e-01 0.45556e-01 0.45556e-01 0.45556e-01 0.45556e-01 0.45556e-01 0.45556e-01 0.45556e-01 0.45556e-01 0.45556e- |
| rice | 0.1205 0.1368 0.1368 0.1368 0.1303 0.1207 0.1207 0.1207 0.1207 0.1205 0.1205 0.1207 0.1207 0.1201 0.1245 0.1245 0.1212 0.1212 | 0.1126 0.1115 0.1115 0.1095 0.1085 0.1085 0.1085 0.1085 0.1085 0.1027 0.1027 0.1018 0.1027 0.1027 0.99976-01 0.99866-01 0.98166-01 0.98516-01 0.95516-01 0.95516-01 0.9644-01 0.1267 |
| wheat | 0.6512e-01 0.65796e-01 0.6545e-01 0.6645e-01 0.6645e-01 0.6645e-01 0.6645e-01 0.6544e-01 0.6246e-01 0.6246e-01 0.6226-01 0.5086e-01 0.7420e-01 0.7630e-01 0.7630e-01 0.7630e-01 0.7630e-01 0.7630e-01 0.6170e-01 0.6170e-01 | 0.5470e-01 0.5470e-01 0.5325e-01 0.5325e-01 0.5227e-01 0.5184e-01 0.5184e-01 0.5092e-01 0.4957e-01 0.48716-01 0.48716-01 0.48716-01 0.48716-01 0.48716-01 0.46599e-01 0.45599e |
| year | 1961 1962 1963 1965 1966 1966 1966 1976 1971 1973 1973 1978 1978 1978 1978 1978 1978 | 1981 1982 1982 1983 1984 1986 1988 1998 1999 1999 1999 1999 1999 |

- 28 -

long list

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relative world price:

| bov+ov.f | 0.1708 0.1708 0.1412 0.1258 0.1258 0.1290 0.1566 0.1396 0.1568 0.1568 0.1326 0.1568 0.1568 0.1568 0.1417 0.1620 0.1620 0.1617 | 0.1521 0.1621 0.1630 0.1650 0.1660 0.1660 0.1730 0.1741 0.1741 0.1741 0.17720 0.17720000000000000000000000000000000000 |
|----------|---|--|
| non-agr | | . 10000 . 100000 . 10000 . 100000 . 1000000 . 1000000 . 1000000 . 1000000 . 1000000 . 100000000 . 100000000 . 10000000000 |
| ind.cr. | $egin{array}{c} 0.4294 \\ 0.4502 \\ 0.4502 \\ 0.3858 \\ 0.3752 \\ 0.3$ | 0.3785 0.3768 0.3759 0.3759 0.3759 0.3759 0.3759 0.3759 0.3699 0.3655 0.3659 0.3655 0.3653 0.3655 0.3653 0.3655 0.3755 0.3750 0.3755 0.3750 0.3750 0.3755 0.3750 0.3755 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.355555 0.355555 0.355555 0.355555 0.35555555555 |
| fibres | 0.9729 0.9729 0.9729 0.9385 0.9385 0.9385 0.9385 0.9385 0.9385 0.9385 0.9385 0.9385 0.9759 0.7537 0.7749 0.7749 0.7749 0.9577 0.97777 0.97777 0.97777 0.97777 0.977777 0.97777777777 | 6.8612 0.8546 0.8546 0.8415 0.8415 0.8415 0.8415 0.8415 0.8480 0.8480 0.8035 0.7973 0.7912 0.7731 0.7731 0.7731 0.7731 0.7437 0.7439 0.7733 0.7439 0.7439 0.7733 0.7439 0.7733 0.7439 0.7733 00 |
| bev.dist | 0.3158 0.3738 0.368 0.3683 0.58337 0.58337 0.58337 0.58337 0.58337 0.4385 0.3470 0.3470 0.3470 0.3470 0.3470 0.3470 0.3470 0.4406 0.3470 0.4406 0.3470 0.4406 0.3470 0.4406 0.440 | 0.4143 0.4096 0.4096 0.3957 0.3957 0.3779 0.38694 0.3779 0.3779 0.3868 0.37790 0.37790 0.37790 0.377900 0.37790000000000000000000000000000000000 |
| coo+tea | 0.8052 0.7812 0.6600 0.6600 0.5078 0.5868 0.5868 0.5868 0.5868 0.6499 0.6499 0.5947 0.556 0.5947 0.556 0.5678 0.5678 0.5788 0.5678 0.5788 0.5678 0.5777 0.57777 0.5777777777777777777777 | 0.7262 0.7262 0.7444 0.7510 0.7550 0.7550 0.7556 0.7556 0.7556 0.7556 0.7556 0.7556 0.7556 0.7556 0.7556 0.7556 0.7556 0.7556 0.7556 0.7556 0.7556 0.7550 0.85000 0.85000 0.85000 0.85000 0.850000000000 |
| ooffee | $\begin{array}{c} 0.2487\\ 0.2578\\ 0.2578\\ 0.2903\\ 0.32867\\ 0.3624\\ 0.3636\\ 0.3636\\ 0.5716\\ 0.3636\\ 0.5716\\ 0.3638\\ 0.5642\\ 0.5642\\ 0.5888\\ 0.5642\\ 0.9031\\ 1.823\\ 1.012\\ 1.052\\ 1.052\\ 0.9031\\ 1.052\\ 0.9031\\ 1.052\\ 0.9031\\ 1.052\\ 0.9031\\ 1.052\\ 0.9031\\ 1.052\\ 0.9031\\ 1.052\\ 0.9031\\ 0.9032\\ 0.9031\\ 0.9032\\ 0.902\\$ | 6433 6445 64577 64577 64577 64577 64577 64577 64577 645777 645777 645777 645777777777777777777777777777777777777 |
| fish pr. | 2.525 2.555 2.555 2.555 2.555 2.555 2.555 2.5555 2.5555 2.5555 2.5555 2.5555 2.5555 2.5555 2.5555 2.5555 2.5555 2. | 2.823 2.823 3.0149 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.0141 3.01 |
| frt+nuts | 0.5427 0.5429 0.5429 0.5352 0.5353 0.5353 0.5355 0.5337 0.5533 0.5537 0.5556 0.5537 0.5556 0.55226 0.5537 0.5556 0.55256 0.5515 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55156 0.55157 0.55156 0.55157 0.55156 0.55157 0.55557 0.55157 0.55157 0.555577 0.55557 0.55557 0.55557 0.55557 0.55557 0.55557 0.55557 0.55557 0.55557 0.55557 0.55557 0.55557 0.55577 0.55577 0.55577 0.555777 0.5557777777777 | 0.5715 0.5721 0.5721 0.5721 0.5723 0.5724 0.5733 0.5758 0.5758 0.5758 0.5764 0.57758 0.5788 0.5788 0.5788 0.58813 0.58813 0.58823 0.58823 0.58823 0.58823 0.58823 0.58823 0.58832 0.59832 0.58832 0.59 |
| ve8+rts | 0.3897 0.4359 0.4359 0.3998 0.3998 0.3342 0.3342 0.3399 0.3399 0.3590 0.3590 0.3590 0.3590 0.3596 0.3778 0.3798 0.3778 0.3778 0.3778 0.3778 | 0.3678 0.3674 0.3664 0.3664 0.36577 0.3664 0.3564 0.3564 0.3565 0.3565 0.3565 0.3565 0.3565 0.3565 0.3565 0.3565 0.3555 0.3565 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.35555 0.355555 0.355555 0.355555 0.355555 0.3555555 0.35555555555 |
| yoar | 1961 1962 1963 1965 1966 1976 1977 1977 1977 1978 1978 1978 1978 | 1981 1982 1982 1983 1986 1986 1988 1988 1986 1991 1994 1995 1995 1995 1995 1995 1995 |

TABLE 6: Relative world prices, detailed FAP commodity list. (continued)

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long list

relative world price:

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lang list

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relative world prices

| pis hid. | 0.32329 0.3329 0.4503 0.4503 0.4451 0.4451 0.4710 0.4710 0.4710 0.4710 0.4729 0.27737 0.2765 0.27737 0.27777 0.27777 0.277777 0.27777777777 | 0.4173 0.4176 0.4176 0.4166 0.4166 0.4166 0.4166 0.4166 0.4166 0.4156 0.4156 0.4155 0.4156 0.4155 0.4155 0.4155 0.4155 0.4155 0.4155 |
|----------|--|--|
| 4+** | 0.7500 0.7717 0.8384 0.8712 0.8435 0.6847 0.6847 0.6845 0.6168 0.6276 0.6453 0.6276 0.6453 0.6453 0.6453 0.6453 0.6453 0.6453 0.6717 0.7509 0.7509 0.7509 | 0.6750 0.6731 0.6731 0.6676 0.6658 0.66539 0.66539 0.65530 0.65330 0.65530 0.65494 0.65530 0.6494 0.6471 0.6475 0.6578 0.55788 0.55788 0 |
| f.meel | 0.1809 0.1824 0.1824 0.1553 0.1553 0.1553 0.1553 0.1553 0.1553 0.2640 0.2640 0.2640 0.2640 0.2640 0.2640 0.2640 0.21313 0.21323 0.21323 0.21323 0.21323 0.21323 0.21323 0.2314 | 0.2922 0.3067 0.3067 0.3142 0.3220 0.3348 0.3348 0.3348 0.3348 0.3348 0.3348 0.3348 0.3348 0.3348 0.3414 0.4208 0.42104 0.42104 0.42104 0.42104 0.42104 0.42104 0.42104 0.42104 0.42104 0.42104 0.42104 0.4212 0.2318 0.2318 0.2318 0.2318 0.2318 0.2318 0.232 |
| m. meel | 0.1248 0.1248 0.1248 0.1267 0.1376 0.1376 0.1376 0.187 0.187 0.187 0.1875 0.1490 0.1490 0.1669 0.1669 0.1669 0.1093 0.1033 0.1137 | 0.1075 0.1065 0.1065 0.1065 0.1066 0.1051 0.1051 0.1038 0.1038 0.1038 0.1038 0.1024 0.1024 0.1024 0.10220 0.10220 0.1002 0.10000000000 |
| fish oil | 0.1539 0.1539 0.1222 0.1339 0.1858 0.1858 0.1858 0.1345 0.1736 0.1737 0.1737 0.1737 0.1737 0.1736 0.1737 0.1737 0.1737 0.1737 0.1737 0.1737 0.1737 0.17470000000000000000000000000000000000 | 0. 1629 0. 1636 0. 1636 0. 1659 0. 1657 0. 1657 0. 1657 0. 1657 0. 1665 0. 1665 0. 1709 0. 1716 0. 1738 0. 1738 0. 1738 0. 1738 0. 1738 0. 1754 0. 1754 0. 1754 0. 1754 0. 1754 0. 1754 0. 1754 0. 1754 0. 1755 0. 1655 0. 1755 0. 1755 0. 1755 0. 1755 0. 1755 0. 1775 0. 177 |
| pitr.fat | | 0. 1919 0. 1777 0. 1645 0. 1645 0. 1523 0. 1523 0. 1811 0. 1210 0. 1200 0. 1210 0. 1200 0. 12000 0. 1200 0. 1200000000000000000000000000000000000 |
| pis fat | | 9.1721 9.1721 9.1689 9.1673 9.1673 9.1627 9.1627 9.1587 9.1567 9.1567 9.1567 9.1567 9.1567 9.1495 9.1495 9.1495 9.1495 9.1495 9.1440 9.1495 |
| year | 1961 1962 1963 1965 1966 1966 1975 1975 1973 1975 1975 1975 1975 1975 1975 1975 1975 | 1981 1982 1983 1983 1985 1986 1986 1990 1990 1998 1998 1998 1998 1998 1998 |

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REFERENCES

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APPENDIX A1: Tabulation and Plots of World Prices.

The activities to produce tables and plots on the computer are split into 2 groups:

- a) Create tables, raw data and make regressions for the plots;
- b) Draw the plots.

CREATE

The fortran program "wptab.f" creates various files from the raw input data (world prices in SUA format, for 27, 19, 16 and 10 commodities). These are:

- wpxx.list: table of prices, with linear (or exponential) extrapolations)
- wpxx.raw: raw price data, in a format suitable for the plot package.
- wpxx.reg: linear regressions of the price time series and linear extrapolations.
- wpxx.exp: exponential regression of the price time series, and exponential extrapolations.
- wpxx.che: control output and results of the regressions.

(xx=9 or xx=27, depending on the aggregation)

The tables in wpxx.list consist of 2 parts: the data between 1961 and 1980 are historical time series, computed according to the methodology described above. The series between 1981 and 2000 are extrapolations (linear or exponential) of the historical time series.

There are 2 types of tables for the various commodities:

• the nominal prices, i.e. absolute prices, and

• the relative prices (relative to the non-agriculture price).

The three files (...raw, ...reg, and ...exp) have a similar format. They are basically data records, with one full time series per record. Each commodity starts a new record. The plot package described below reads from these files.

DRAW

The program to make the plots is a package called NEWPLOT, available on the VAX 11/780 at IIASA. This package can be operated interactively or in batch mode. The resulting plot file can be listed directly on a video terminal (and thus the plot immediately seen), or after a further conversion sent to the Varian (di-vn <file |vnsort) or the BBC-plotter (di-bbc <file).

The grouping of plots, their minima and maxima, headings, etc. is controlled by the file in.wpxxyy,

where xx = 9 or 27, depending on the level of aggregation,

and yy = rl relative, with extrapolation, yy = nl nominal, with extrapolation, yy = r relative, yy = n nominal.

Whether linear or exponential extrapolation is taken depends on the input line

```
"read wpxx.zzz,..."
```

in the plot control file.

if zzz = reg: linear extrapolation will be plotted,

if zzz = exp: the extrapolation is exponential.

All instructions for plotting and the conversion to "varian" format are contained in the shell file

wpplot.run

This file is listed below.

- input for this program is the file wpxx.raw
- # which results from the run "wptab.run xx"
- shell parameters \$1 ... 9 or 27, depending on aggregation
- \$2 rl (relative and regression),
- # nl (nominal and reg),
- 🕴 r (relative),
- # n (nominal)
- # save control input file from destruction
 cat in.wp\$1\$2 >tmpp
- # remove all rests from the previous plot
 rm newplot.db newplot.graph newplot.prot newplot.save
- # call the package and plot newplot -f tmpp -d wp\$1.raw -o wp\$1\$2.gr
- # prepare the plot file for the varian printer di-vn <wp\$1\$2.gr |vnsort > wp\$1\$2.var

A sample control input file is listed in Appendix A2.

| | ***** plots for world prices nom 10 and 16 commodities |
|--------------|--|
| note | pious for world prices nom; to and to commodifies |
| edo | 20 |
| vars | 52 |
| orde | col |
| form | (10x, 20g12.4) |
| type | line |
| basi | ,1961,1 |
| scal | по |
| xm in | 1960 |
| xmax | 1980 |
| XSC | 5 |
| xfm | (f5.0, t5,' ') |
| yfm | (f7.0,t7,'') |
| tlgd | ,0.16 |
| lgd | yes,0.16 |
| symb | 1,2,3,4,5,6,7,8,9,0,*,+ |
| wind | 0.0,0.0,8.45,10.56 |
| read | ,n01,n02,n03,n04,n05,n06,n07,n08,n09,n10,n11, |
| | n12,n13,n14,n15,n16 |
| skip | 11 |
| read | ,r01,r02,r03,r04,r05,r06,r07,r08,r09,r10,r11, |
| | r12,r13,r14,r15,r16 |
| skip | 11 |
| read | ,s01,s02,s03,s04,s05,s06,s07,s08,s09,s10 |
| skip | 9 |
| read | ,t01,t02,t03,t04,t05,t06,t07,t08,t09,t10 |
| gt | wheat rice grains dairy\\world price in \$ |
| ymin | 0. |
| ymax | 400. |
| ysc | 10 |
| upda | n01,lab,wheat |
| upda | n02,lab,rice |
| upda | n03,lab,grains |
| upda | n05,1ab,dairy |
| load | wheat, rice, grains, dairy |
| print | |
| plot | 1961,20 |
| gt | bov.meat oth.meat prt.feed \ \ world price in \$ |
| upda | n04,lab,bov.meat |
| upda | n06,lab,oth.meat |
| upda | n07,lab,prot.feed |
| upda | s07,lab,prt.feed |
| load | bov.meat, oth.meat, prt.feed |
| ymin | 0. |
| ymax | 10000. |
| plot | 1961,20 |
| gt | other meat \\ world price in \$ |
| load | oth.meat |
| plot | 1961,20 |
| gt | protein feed \ world price in \$ |
| load | prt.feed |
| ymax | 1000. |
| | |

APPENDIX A2: Sample Control File for NEWPLOT

| plot | 1961,20 |
|--------------|---|
| gt | oth.food non-food non-ag \ \ world price in \$ |
| upda | n08,lab,oth.food |
| upda | n09,lab,non-food |
| upda | n 10, lab, non-ag |
| load | oth.food,non-food,non-ag |
| ymin | 250. |
| ymax | 2750. |
| plot | 1961,20 |
| gt | bov.fat oth.fat \ world price in \$ |
| upda | n 11, lab, bov. fat |
| upda | n 12, lab, oth.fat |
| load | bov.fat,oth.fat |
| ymin | 250. |
| ymax | 2750. |
| plot | 1961,20 |
| gt | m.meal f.meal \ \ world price in \$ |
| upda | n13,lab,m.meal |
| upda | n 14, lab, f. meal |
| load | m.meal,f.meal |
| ymin | 0. |
| ymax | 800. |
| plot | 1961,20 |
| gt | h-h-w pig-hid. \ \ world price in \$ |
| upda | n 15, lab, h-h-w |
| upda | n 16, lab, pig-hid. |
| load | h-h-w,pig-hid. |
| ymin | 0. |
| ymax | 2500. |
| plot | 1961,20 |
| gt | oth.food non-food non-ag//world price in \$ s08,lab,o.f-10 |
| upda upda | s09, lab, n-f-10 |
| upda | s10,1ab,n-ag-10 |
| load | o.f-10,n-f-10,n-ag-10 |
| ymin | 250. |
| ymax | 2750. |
| plot | 1961,20 |
| gt | other food \ \ world price in \$ |
| load | o.f-10 |
| ymin | 0. |
| ymax | 2000. |
| plot | 1961,20 |
| gt | non-food \ \ world price in \$ |
| load | n-f-10 |
| ymin | 250. |
| ymax | 2750. |
| plot | 1961,20 |
| gt | 10 commodities \\ world price in \$ |
| load | wheat,rice,grains,dairy,bov.meat,oth.meat,prt.feed, |
| :- | o.f-10,n-f-10,n-ag-10 |
| ymin ymay | 0. 3000. |
| ymax lgd | |
| •8 · | no |

tran*0.1 plot 1961,20 stop

| 65.85 85 65.85 65.85 66.85 65.85 66.85 65.85 66.85 66.23 66.74 249.83 66.74 66.23 66.74 66.23 66.74 66.74 66.74 66.74 66.74 66.74 66.74 66.74 67.25 66.76 67.23 33 67.23 33 67.24 66.74 67.25 67 67.25 67 67.26 67 67.27 67 67.26 67 67.25 67 67.25 67 67.25 67 67.25 67 67.25 67 67.25 67 67.25 67 67.25 67 67.25 67 67.25 67 67.26 67 <td< th=""><th>150.06 0. 131.39 0. 51.94 0. 106.29</th></td<> | 150.06 0. 131.39 0. 51.94 0. 106.29 |
|--|--|
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 231 150 210 28 78 |
| 58.14 58.14 60.60 80.73 80.74 80.75 80.75 80.75 80.75 80.75 | 68.49 0.18 0.18 0.18 0.82.81 0.82.81 |
| 2200 230 230 230 230 230 230 230 | 23 68 228 33 88 9 7 8 9 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 69.34 0.12 0.12 0.12 0.82.64 0. |
| 1960 1960 1960 1970 | 23 150 150 33 33 228 228 |
| $\begin{array}{c} 54.69\\ 54.69\\ 58.77\\ 58.77\\ 58.77\\ 58.77\\ 58.94\\ 58.94\\ 58.94\\ 58.94\\ 58.94\\ 58.73\\ 58.94\\ 58.73\\ 58.73\\ 58.94\\ 58.73\\ 58.73\\ 58.73\\ 58.73\\ 58.73\\ 58.73\\ 58.73\\ 58.73\\ 58.73\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.73\\ 58.74\\ 58.74\\ 58.73\\ 58.74\\ 58.75\\ 58.74\\ 58.75\\ 58.74\\ 58.75\\ 58.75\\ 58.74\\ 58.75\\ 58$ | |
| 2000 200 2000 2 | 23 150 150 33 33 228 228 0 228 |
| 59.06 59.06 59.06 59.06 59.06 59.06 55.55 50.56 55.55 50.56 55.55 50.56 55.55 56.37 56.37 56.37 56.33 56.55 56.56 56.57 56.56 56.57 56.56 56.57 57.57 56.57 57 | |
| 2000 1000 | 231 150 33 33 228 0 228 |
| 55 55 55 55 55 55 55 55 55 55 | 89.19 89.19 89.19 46.84 112.80 76.06 |
| 1963 1963 1963 1963 1964 1964 1964 1964 1965 1966 1967 1967 1967 1967 1967 1967 1967 | 231 158 158 173 333 231 78 78 |
| 82 82 82 82 82 82 82 82 82 82 | 80. 151. 51. 51. 51. 51. 114. 81. |
| 228 228 228 228 228 228 228 228 | 231 231 233 233 228 228 228 228 228 228 228 228 |
| 255,322 255,332 255,332 255,332 255,332 255,332 255,332 255,352 255 | 73.82 90.16 90.16 90.16 192.85 77.86 77.86 139.60 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 231 68 150 33 33 228 228 228 |
| ■ 2 9 2 8 8 8 8 8 8 6 7 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 61 64 71 72 |

APPENDIX B1: Smallest Prices, Original Commodities, 1961-76.

- 41 -

| 39.54 6 | 85.84 | 75.66 | 9. 161.29 | ю. 62.41 | ы. 49.18 | 0. 58.25 | 0. 130.33 | 0. 242.45 | 6. 191.12 | 0. 168.50 | 0. 166.45 | 93.48 | ы. 41.63 | 344.00 84 | 1440.00 | 51.78 0. | 60.32 | 127.59 | 55.95 6 | 200.00 | 154.13 A | 148.18 | 93.11 9 | 97.20 0 | 66.98 A | 127.40 | 50.09 0 | 125.62 0. | 172.41 0. |
|------------|----------------|----------------|------------------|-----------------|--------------|----------------|----------------|--------------|------------------|------------------|--------------|-------------|----------------|--------------------------|------------|----------------------|-----------|--|------------|-----------------------|-------------|------------|------------|-------------------|------------|-------------|------------|-----------------|--------------|
| 210 A | 280 | റെ | 940 1 | ୭୦୦ | 9 165 | ගග | စင္လ | 0 228 | 9 <u>0</u> 0 | 173 0 | งวิจ | ඉසුර | 101 | 231 231 | 229 8 | 69 | 231 0 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 173 | 840 840 | 228 | 880 890 | 223 | ०ळ्व | 216 0 | 216 2 | 101 | 21 0 | 216 0 |
| 35.99 A | 51.54 | 61.06 | ы. 69.41 | ы. 51.99 | ы. 166.67 | | 0. 88.79 | 0. 105.54 | 9. 140.55 | 6. 100.33 | 0. 136.45 | 63.44 | 9.91 39.91 | 6.21 0.21 | | • • | 70.29 | 57.13 | 47.61 | 119.69 | 114.30 | 114.51 | 89.64 8 | 77.37 | | 225.64 a | 38.28 | 150.00 0. | 143.71 0. |
| 210 0 | 80 | 900 | 9 1 6 | ອດ | 210 2 | 00 | 300 | 0 228 | 9 <u>0</u> 0 | 9 173 | ดังจ | ° C ° | 101 101 | 101 101 0 | 150 | 6 6 | 229 9 | ඉල | 173 | 54 Q | 9% G | ා හු ය | 95 95 | 98° 98° | 216 | 2° | 101 | 6 51 51 | 216 0 |
| 46.04 A | 87.02 °. | و. 55.86 | и. 166.67 | 0. 47.31 | 0.0 | 0. 57.33 | 0. 85.05 | | ы. 97.16 | ы. 104.90 | 6. 121.31 | 62.59 | a. 36.90 | ы. 267.32 А | 1752.14 | 48.98 | | 73.50 | 37.06 | 127.98 | 94.32 0 | 110.91 | 68.32 6 | 122.81 A | 53.07 | 220.69 | 32.48 | 102.29 0. | 78.57 0. |
| 89 93 | ത | ໑ຉ | 941 | ອດ | 90 | 0 165 | 96 | 0 228 | ໑ຉ | 9 173 6 | ° S C | ° Ma | 101 101 | 231 231 | 150 | 6 6 | 229 8 | නීය | o Z e | 54 24 | 228 9 | 0 173 | 223 | 82 | 216 0 | 21° | 191 8 | 6-5 5-6 | 216 0 |
| 36.98 A | 69.86 69.86 | 36.47 | 0. 222.22 | 0. 40.64 | 0.0 0 | 0. 35.89 | 0. 98.39 | | 6. 138.57 | ы. 84.89 8 | ы. 70.92 | 62.52 | и. 41.89 | 6. 74.71 | 1055.56 | 51.45 | 45.06 | 85.35 Å | 36.81 | 130.96 | 92.55 8 | 101.57 | 71.79 | | 44.33 | | 23.62 0 | 125.00 | 0. |
| 203 | . . | ඉං | 9 7 | ඉත | 90 | 0165 | 300 | 0 228 | ෙග | ۹ 173 | 380 | ဗိမိ | ໑ຓ | 9 1 7 3 6 | 229 | 96 9 | 003 | 231 | 173 | s. S. | 228 0 | 173 | 965 9 | 003 | 216 0 | 000 | 101 4 | 5. 9 | ତ୍ତ |
| 39.64 A | 60.31 60.31 | a5.58 35.58 | 0. 77.56 | 0. 40.29 | 0. 76.92 | | 0. 104.39 | | 0. 261.70 | ы. 54.02 | ы. 156.23 | ы. 56.84 | 6.17 | 6. 74.11 | 1000.00 | 70.24 | • • | 95.68 a | 50.05 | 119.97 | 93.40 9 | 85.28 8 | 85.96 | | 43.36 | | 23.43 0 | 83.74 0. | 00. |
| ೧ ୯ | ത | ඉත | 9 1 4 | 900 | 0 165 | 00 | a e e | 0 228 | 0 138 1 | ଞ୍ଚ | a vi a | စဗ္က | 101 101 | 9 173 6 | 01 | 96 6 | 107 70 | 231 | e No | 0 4 Q | 228 9 | 173 | 203 203 | . | 216 9 | 000 | 191 4 | 0 5 7 | 00 |
| • | • • | 46.08 | · · | • • | • • | 95.80 52.00 | | 197.11 | 269.64 183.15 | 296.81 66.67 | • • | | • • | 50.43 77.38 525.05 | | • • | • • | • • | • • | • • | · · | • • | • • | | • • | • • | | 90.28 286.98 | |
| ດເ | າດ | ກດ | 50 | 138 | 9 165 | 165 | 150 | 33 228 | 228 10 | 91 89 98 | 288 | <u> </u> | ກູ | 191 | 229 | 60 61 c | 104 | 54 54 | 123 | 2 2 4 4 4 | 1 2 C C | 173 | 203 | 282 841 841 | 216 | 21 | 101 | 55 | 216 |
| | | 44.01 | | 561.40 44.24 | | 85.71 46.56 | 0.80 | | | | | | | 48.71 81.00 80.00 | | | | | | | | | | | | | | | |
| n 9 | 91 28 28 | ກຫ | 50 | 411 40 | 90 | 165 9 | gog | 15 228 | 228 10 | 5 8 <u>9</u> | 523 523 | N | ກູລູ | 191 | 150 | 61 61 61 61 | 106 | | °6; | 229 | 228 228 | 512 | 203 | 98 X | 101 | | 0 | 202 | 216 |
| | | 41.65 | | 6. 38.82 | | | 83.28 77.65 | | | | | | | | | | | | | | | | | | | | | | 0. 126.46 |
| 6 | 0 10 10 | ກດ | 90 | ଡ୦ | 90 | ୦୦୦ | <u>م</u> ور | 33 228 | 228 9 | 229 229 | 288 | 577 777 | 51 51 51 | 191 | 011 011 | 666 | 6-20 | 6 v | 222 | 523 | 228 228 | 517 77 | 203 203 | 200 00 % | 101 | 21 | 101 | 55 | 0 216 |
| 75 | 76 | 79 | 80 | 83 | 84 | . 85 | 63 5 | 8 | 101 | 103 | 104 | 105 | 108 | 601 | 110 | 111 | 112 | 113 | 116 | 117 | 119 | 121 | 122 | 125 | 126 | 127 | 128 | 129 | 136 |

| 305.34 58.26 58.26 58.26 60. 19.35 1.74 62.97 62.97 62.97 190.34 190.22 190.34 190.22 190.33 190.22 190.33 190.22 190.33 190.22 190.33 190.22 1172.07 190.34 190.34 190.34 190.34 190.34 190.33 190.34 190.33 190.34 190.33 190.33 190.33 190.33 190.33 190.33 190.33 190.33 190.33 190.33 190.33 190.33 190.33 190.34 190.33 190.33 190.33 190.33 190.34 190.33 190.33 190.33 190.34 190.33 | ; |
|---|--------|
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | > |
| $ \begin{array}{c} 174 \\ 68 \\ 69 \\ 69 \\ 69 \\ 69 \\ 69 \\ 69 \\ 69$ | |
| $\begin{smallmatrix} & 1.5\\ & 1.5$ | \$ |
| | 5 |
| 174 174 166 166 166 166 166 166 166 166 166 16 | > |
| | |
| 22 23 23 23 23 23 23 23 23 23 23 23 23 2 | > |
| $\begin{array}{c} \mathbf{S}_{1}, \mathbf{S}_{2}, \mathbf{S}_{3}, \mathbf{S}_{4}, \mathbf{S}_{6}, \mathbf{S}_{6},$ | 2 |
| $\begin{smallmatrix} & & & & \\ & & & & \\ & & & & \\ & & & & $ | > |
| 256 66 55 56 56 56 56 56 56 56 56 56 56 5 | 00007 |
| 2230 2330 2330 2330 2330 2330 2330 2330 | 111 |
| 2012 2012 2012 2012 2012 2012 2012 2012 | ****** |
| 22200 22200 22200 22200 22200 22200 22200 22200 22200 22200 22200 22200 200 | 117 |
| 426 50 50 50 50 50 50 50 50 50 50 50 50 50 | ······ |
| 233-232 233-232 233-232 233-232 233-232 233-232 233-232 233-24 233-233-24 233-233-24 233-233-24 233-233-24 233-233-24 24 233-24 24 233-24 24 233-24 24 233-24 24 233-24 24 24 24 24 24 24 24 24 24 24 24 24 2 | 111 |
| 137 149 156 156 157 157 163 163 163 164 163 164 163 163 164 163 163 163 163 163 170 170 170 170 163 163 163 163 163 163 163 163 163 163 | |

- 43 -

| $\begin{array}{c} 1161.55\\ 800.65\\ 800.65\\ 800.65\\ 800.65\\ 800.65\\ 100.65$ | 62.77 62.77 0. |
|--|---------------------------|
| 2000 2000 2000 2000 2000 2000 2000 200 | 0 165 0 |
| $ \begin{array}{c} 1040 & 64 \\ 0.0 & 0.0 \\ 119 & 0.0 \\ 119 & 0.0 \\ 119 & 0.0 \\ 119 & 0.0 \\ 119 & 0.0 \\ 119 & 0.0 \\ 110 & 0.0 $ | 6. 51.04 0. |
| 20000000000000000000000000000000000000 | 165 165 |
| $ \begin{array}{c} 1042\\ 94.84\\ 94.84\\ 94.84\\ 94.84\\ 94.84\\ 94.84\\ 94.86\\ 94$ | 6. 50.99 6. |
| 30 30 30 30 30 30 30 50 50 50 50 50 50 50 50 50 5 | 020 |
| $ \begin{array}{c} 1024 \\ 1$ | 68.53 6.53 6. |
| 12 23 23 24 25 25 25 25 25 25 25 25 25 25 | 0 8 0 8 |
| $\begin{array}{c} 1079. \ 1979. \ 1979. \ 1979. \ 1979. \ 294. \ 306. \ 85. \ 53\\ 85. \ 53\\ 85. \ 53\\ 86. \ 57\\ 86. \ 57\\ 86. \ 56. \ 56. \ 56\\ 86. \ 56. \ 56. \ 56. \ 56\\ 86. \ 5$ | 6. 59.76 0. |
| 1290 1290 1290 1290 1290 1290 1290 1290 | 0 100 100 |
| 1285 | 415.78 63.04 106.01 |
| 2330 23500 23500 23500 23500 23500 23500 23500 23500 23500 235 | 100 100 100 |
| 72209-2322-2322-2222-2222-222222222222222 | 501.90 52.67 61.45 |
| 21 21 21 21 21 21 21 21 21 21 21 21 21 2 | 97 165 165 |
| 838 100 100 100 100 100 100 100 100 100 10 | |
| 1943399888511110112239933311001110011001123898912533331125898989 25336911001100110011001123899125333311258912533331125898989 1941253358555555555555555555555555555555555 | 33 165 165 |
| 225 234 236 237 238 238 249 249 249 249 249 249 255 259 255 255 256 256 256 256 256 256 256 256 | 272 |

| $\begin{array}{c} 15.51\\ 709.53\\ 709.53\\ 709.53\\ 709.53\\ 700.05\\ 700.05\\ 700.05\\ 700.57\\ 90.05\\ 90.05\\ 90.05\\ 90.05\\ 90.05\\ 90.05\\ 90.05\\ 90.05\\ 111.88\\ 90.05\\ 700.57\\ 700.57\\ 90.05\\ 100.05\\ 111.88\\ 90.05\\ 100$ | 0. |
|--|--------|
| 2000 - 500 - | 0 |
| $\begin{array}{c} 13.94\\ 490.57\\ 0.21\\ 0.21\\ 0.22\\ 0.$ | 0. |
| 23 23 23 23 23 23 23 23 23 23 | 0 |
| $ \begin{array}{c} 15.26\\ 15.26\\ 0.243.76\\ 0.243.76\\ 0.243.76\\ 0.266.67\\ 0.216.22\\ 0.216.22\\ 0.266.67\\ 0.216.22\\ 0.216.22\\ 0.216.22\\ 0.216.22\\ 0.216.22\\ 0.216.22\\ 0.216.22\\ 0.221\\ 0.222\\ 0.221\\ 0.222\\ 0.221\\ 0.222\\ 0.221\\ 0.222\\ 0.221\\ 0.222\\ 0$ | 0. |
| 200 200 200 200 200 200 200 200 200 200 | 0 |
| $\begin{array}{c} 15.78\\ 15.78\\ 0.22\\ 0.23\\ 0.23\\ 0.23\\ 0.23\\ 0.23\\ 0.23\\ 0.240\\ 0.23\\ 0.$ | 0. |
| 27 23 23 23 23 23 23 23 23 23 23 | 0 |
| $\begin{array}{c} 15.54\\ 15.54\\ 0.231255\\ 0.231255\\ 0.231255\\ 0.231255\\ 0.231255\\ 0.231255\\ 0.25555\\ 0.2322555\\ 0.252555\\ 0.252555\\ 0.252555\\ 0.252555\\ 0.2525555\\ 0.2555555\\ 0.255555\\ 0.255555\\ 0.255555\\ 0.255555\\ 0.255555\\ 0.255555\\ 0.255555\\ 0.255555\\ 0.255555\\ 0.255555\\ 0.2555555\\ 0.2555555\\ 0.2555555\\ 0.2555555\\ 0.25555555\\ 0.25555555\\ 0.25555555555\\ 0.255555555\\ 0.2555555\\ 0.2555555555\\ 0.25555555555\\ 0.25555$ | 9. |
| 20 20 20 20 20 20 20 20 20 20 | 0 |
| 20 20 20 20 20 20 20 20 20 20 | 162.16 |
| 5388-33-1-1-0-2 539-1-1-0-2 539-1-0-2 539-1-0-2 539-1-1-0-2 539-1-1-0-2 539-1-1-0-2 539-1-1-0-2 539-1-1-0-2 539-1-1-0-2 539-1-1-0-2 539-1- | 27 |
| 2212 232 232 232 232 232 232 232 232 232 | |
| 528823333313325666888833888338885588558855888333866888889888 52885555556668883883888338855588555888558885588855888558885588855888555888555888555888555885558855588555885558 | 27 |
| 11 222 232 25 25 25 25 25 25 25 25 25 25 25 25 25 | |
| 838333108329063324882918833788833788832888288889889888888888888 | 27 |
| 273 274 274 276 286 288 289 289 289 291 291 293 333 333 333 333 333 333 333 333 333 | |

| $\begin{array}{c} 232.71\\ 232.71\\ 0.28\\ 0$ |
|--|
| 1900 1900 1900 1900 1900 1900 1900 1900 |
| $\begin{array}{c} 197\\ 197\\ 270\\ 270\\ 270\\ 270\\ 270\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26$ |
| 6 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| $ \begin{array}{c} 182.31\\ 249.66\\ 699.26\\ 000\\ 113.29\\ 000\\ 000\\ 000\\ 000\\ 000\\ 000\\ 000\\ 0$ |
| 6-08070936001 6-08070936001 6-08070936001 6-08070936001 6-0807093600 6-0807093600 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709360709360 6-09709 6-097000000000 |
| $ \begin{array}{c} 176 \\ 240 \\ 240 \\ 240 \\ 240 \\ 240 \\ 200 \\ 300 $ |
| 200 200 200 200 200 200 200 200 200 200 |
| $ \begin{array}{c} & 177 & 05 \\ & 244 & 76 \\ & 0 & 244 & 76 \\ & 0 & 291 & 67 \\ & 0 & 111 & 111 \\ & 111 & 111 & 111 \\ & 0 & 0 & 0 \\ & 0 & 0 & 0 \\ & 0 & 0 &$ |
| 6 |
| 122.56 122.55 133.56 144.55 155.55 155.55 |
| 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| 12222222222222222222222222222222222222 |
| 523883777777378833-0888222887223887338888833877733888337773338827738823387733888277338882773338883377733888335 52388237777733388200823388232882328823288 |
| 566525223665556555555555555555555555555 |
| 25238622228872228872228872238 |
| 390 390 391 392 393 393 393 393 393 393 393 393 393 |

| 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 11. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. 9. 1. 1. |
|--|
| 0880203030303026-0012500303003000000000000000000000000000 |
| 71.15 71.15 9.77 9.78 9.79 9.70 9.70 9.77 9.78 9.79 9.70 9.70 9.71 9.71 9.71 9.71 9.71 9.71 9.72 9.73 9.74 9.75 9.75 9.76 9.77 |
| e_e_e_ge_e_e_e_e_e_e_e_e_e_e_e_e_e_e_e_ |
| 63.75 238.24 63.75 63.75 63.75 63.75 69.81 96.81 96.81 96.81 113.75 113.75 96.81 147.87 113.75 96.81 157.74 113.75 96.82 147.67 113.75 96.81 157.74 157.74 11.80.97 120.26 120.25 120.16 120.26 120.27 157.16 120.26 226.57 162.81 157.16 120.26 170.09 266.67 266.67 173.06 120.26 240.90 173.06 120.26 240.90 173.06 120.09 266.67 173.06 173.96 215.16 173.06 173.96 215.16 173.06 248.83 248.83 173.06 173.96 248.83 |
| 6863676398267670-6-263939767636868676-696868676368686766 536368636267676767676363636976-536868676-5368686766 53686366763686868676767676886868676-53686868676 |
| 60. 14 60. 16 60. 13 60. 16 60. 13 78 90. 16 10. 14 10. 94 117. 95 117. 95 |
| 088030364030930080320803863863686368636863686368653868686868686 |
| 50.21 62.40 60.17 74.25 74.25 74.25 74.25 74.25 74.25 74.25 74.25 74.25 74.25 74.25 74.25 74.25 74.25 74.25 75.25 76.26 76.26 77.22 78.6 79.5 70.5 70.5 70.5 70.5 |
| 088033030-20020800818803684032500100055000550 |
| 2322.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.25 232.2 |
| 88833333383322833228333333333333333333 |
| 42 45 46 46 46 46 46 46 46 46 46 46 |
| 888333337333332228233322322883333738233333333 |
| 45 45 45 45 45 45 45 45 45 45 |
| 88 53 53 53 53 53 53 53 53 53 53 53 53 53 |
| 489 496 491 491 491 491 491 492 503 513 513 513 513 513 513 513 513 513 51 |

| $\begin{array}{c} 216.55\\ 0.192.36\\ 0.023.99\\ 0.023.99\\ 0.023.93\\ 0.023.55\\ 0.023.93\\ 0.023.95\\ 0.023.95\\ 0.033.35\\ 0$ |
|---|
| 88 88 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| $\begin{array}{c} 146.\ 06\\ 135.\ 55\\ 135.\ 55\\ 135.\ 55\\ 135.\ 55\\ 135.\ 55\\ 135.\ 55\\ 135.\ 55\\ 136.\ 66\\ 11\\ 196.\ 65\\ 13\\ 236.\ 65\\ 13\\ 236.\ 66\\ 11\\ 178.\ 46\\ 101\\ 111\\ 111\\ 122.\ 48\\ 133\\ 122.\ 48\\ 133\\ 122.\ 48\\ 133\\ 122.\ 48\\ 133\\ 122.\ 48\\ 133\\ 14\\ 122.\ 48\\ 133\\ 122.\ 48\\ 133\\ 122.\ 48\\ 133\\ 122.\ 48\\ 133\\ 122.\ 48\\ 133\\ 133\\ 122.\ 48\\ 133\\ 133\\ 133\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 14\\ 133\\ 133$ |
| 61 61 61 61 61 61 61 61 61 61 |
| $ \begin{array}{c} \begin{array}{c} 123.88\\ 26.97\\ 26.97\\ 26.97\\ 26.97\\ 278.94\\ 278.96\\ 278.9$ |
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| 0003333222883200038822223032032223333338855522233333885558888 000333322288320038822233333388555223333388555223333388555223333388555223333388555223333388555223333388555523333 0003333222888320038885555555555555555555 |
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| 1296.67 0. | 152.54 | 2547.81 | 798.50 | и. 267.99 | ы. 270.10 | ы. 1966.45 | 627.53 | 6. 193.92 | 190.99 A | 2136.71 | 1055.82 | ы. 169.30 | 2529.97 | 887.62 A | 121.47 | 264.90 | 213.55 | 53.69 6 | 3132.18 | 3029.49 | 682.45 | 3319.33 6 | 66.83 6 | ы. 563.30 | 6. 102.04 | 9.98.06 | 105.61 0. | 35. 0. | 255.00 0. |
|-------------------|---------|---------------|---------------|--------------|--------------|---------------|----------------------------|-------------------|-----------------------|----------|------------|-------------------|----------|-------------|--------|-------------|----------------------|-------------|-----------------------|---------------|-----------------------|----------------------------|--------------|-----------------------|------------------|-----------------------------|------------------|-----------------|-----------------|
| 138 0 | 174 | 51 g | ۲ اک | 51 ø | 138 fi | 21 8 | 9 9 7 9 7 9 | 223 9 | 919 97 | 231 | 00 00 | 9 10 I | 101 | 101 | 101 | 101 | 0 7 7 7 | 101 | නුය | 51 51 6 | о т о Е | 114 2 8 4 2 | 9 <u>+</u> 0 | 165 1 | 9 10 10 | 990 1990 | 223 0 | 390 | 60 0 |
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| 871.79 0. | 500.00 | 2139.00 | 518.02 | ы. 241.61 | 0. 360.99 | 0. 1151.63 | 0. 513.54 | ы. 221.35 А | 188.37 A | 1828.69 | 862.51 | 0. 128.19 | 2214.81 | 931.48 | 483.87 | 111.11 © | 337.42 | 53.51 | 2419.58 | 2128.73 | 692.81 | 20929.73 0 | 59.80 | 938.54 | 0. 423.53 | 69.14 60.14 | 79.38 0. | 82.16 0. | 103.70 0. |
| 138 0 | 174 | 5 5 8 | 51 8 | 51 Ø | 9 651 | 510 | 0 107 0 | 223 0 | 519 79 | 229 8 | ۶ <u>۲</u> | 9 191 | 101 | 101 | 101 | 216 216 | 570 | 101 | ගෙර | 27 87 | 9 1 7 9 | 9 1 1 2 2 2 | 1 4 | 165 165 | 9 3 6 | 165 | 523 0 | 89 | 173 0 |
| 863.58 0. | 333.33 | 642.05 | ы. 6-18.58 | 0. 221.14 | 0. 332.67 | 0. 1460.06 | 0. 508.86 | ы. 494.61 д | 185.21 A | 1804.95 | 908.52 | ы. 55.28 | 3074.07 | 1082.86 | 312.86 | 409.83 | 154.19 | 220.88 | 1786.36 | 5864.30 | 779.57 | 18398.52 A | 51.48 | 0. 450.47 | а. 370.79 | 175.47 | | | 89.84 0. |
| 138 0 | 174 | ٥ 159 | 21 9 | 9 <u>-</u> 1 | 0 159 | 510 | 0 10 10 | 000 | 219 | 231 | 31 51 | 9 <u>10</u> | 9 191 | 101 | 191 | 101 | 9 7 9 | 165 | 880 | 229 | 140 | 240 |) <u>-</u> : | 9 . . | 000 | e 7 a | 0-30 | 89 0 | 173 0 |
| 855.59 0. | 1454.55 | 9. 1773.32 | ы. 848.30 | ы. 264.28 | 0. 226.58 | 0. 1717.38 | 0. 453.74 | 9. 277.16 | 177.17 | 1477.87 | 626.31 | ы. 24.93 | 2533.33 | 860.65 | 163.99 | 298.58 | 146.14 | 398.53 6 | 1275.86 0 | 5855.62 | 785.93 | 7002.73 | 49.24 | 6. 19 19 | ы. 226.19 | 181.77 8 | 77.65 0. | 68.57 0. | 92.43 0. |
| 138 0 | 2 | 9 T 0 | 159 | 5 9 | 6 159 | 0110 | 9 10 10 10 | 101 0 | 2-9 2-9 | <u>.</u> | 51 5 | 9 101 | 101 | 101 | 101 | 9 101 | 0 T 0 | 159 | 9 8 9 8 9 | 150 | - - - - | - - - - | 1. 4. | 5-e | 991 190 | e Ne | 0-70 | 80 | 173 |
| | | | | | | | 130. 416. | | | | | | | 983. | | | | | 253. | | 833. 833. | | | | | | | 70.55 | |
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| 214.03 113.23 144.07 144.07 144.07 144.07 13.23 13.23 13.23 13.26 13.25 13.26 14.07 13.28 14.07 187.50 | 700.17 0. 833.33 0. |
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| $\begin{array}{c} 186.66\\ 15.79\\ 15.79\\ 15.79\\ 15.81\\ 15.81\\ 165.81\\ 103.66\\ 103.$ | 602.96 0. 1180.83 0. |
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| 6888885464 238672 23872 238772 238772 238772 23772 23772 23772 2 | |
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| $\begin{array}{c} 71.55\\ 404.03\\ 99.81\\ 9.9\\ 9.9\\ 9.9\\ 9.9\\ 9.9\\ 9.9\\ 9.9\\ 9.$ | 721.98 0. 0. 0. 0. 0. |
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| 969.66 969.66 991.64 1991.64 1991.64 1991.64 1154.01 1154.01 1154.01 1154.01 1154.01 1154.01 1149.17 1149.17 1149.17 1149.17 1149.17 1149.17 1152.08 1252.08 1252.08 1252.08 1252.08 1252.08 1252.08 1252.08 1252.08 1252.08 1252.08 1252.08 1252.08 1252.08 1160.21 1160.84 1160.21 1160.84 1160.21 1160.84 1160.21 1170.22 1170.2 | 512.33 0.56 0.56 |
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| $\begin{array}{c} 753.56\\ 754.54\\ 834.96\\ 834.96\\ 834.96\\ 834.96\\ 834.96\\ 834.96\\ 824.31\\ 826.33\\ 826.33\\ 866.96\\ 866.33\\$ | 351.60 0.33 0.33 |
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| 559.51 359.51 359.50 592.27 592.27 592.90 529.90 314.45 314.45 253.45 100.24 110.24 120.24 120.24 121.75 121.75 122.98 192.17 121.75 121.75 122.98 122.23 14 223.33 233.33 233.33 233.33 121.75 121.75 122.21 121.75 121.75 122.21 122.25 122.21 122.25 122.21 122.25 |
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| $\begin{array}{c} 77.58\\ 98.70\\ 98.70\\ 98.70\\ 98.70\\ 919.54\\ 919.54\\ 919.54\\ 919.54\\ 919.54\\ 919.54\\ 919.53\\ 919.53\\ 912.55\\ 912.53\\ 912.55\\ 912.55\\ 912.55\\ 912.55\\ 912.55\\ 912.55\\ 912.$ |
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| $\begin{array}{c} 1760.00\\ 1796.15\\ 0.1796.15\\ 1416.23\\ 543.10\\ 543.10\\ 0.2171.67\\ 0.2171.67\\ 0.2171.67\\ 0.2171.67\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.$ | 0. 96.92 0. |
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| 1326.86 1326.86 1355.60 1293.86 1293.86 1293.86 1293.86 1293.86 1293.86 1293.86 1293.86 1260.80 140.81 140.81 140.81 140.81 140.81 140.81 140.81 140.83 140.83 140.83 140.83 110.43 110.43 110.43 110.83 110.83 110.83 110.83 110.83 110.83 110.83 110.83 110.83 110.83 110.83 110.83 110.83 110.83 110.83 110.83 110.84 110.84 110.84 110.84 110.84 | 0. 88.73 0. |
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| $\begin{array}{c} 1373.03\\ 1373.03\\ 1132.61\\ 1132.61\\ 1346.28\\ 391.34\\ 391.34\\ 391.34\\ 85.60\\ 85.06\\ 120.85\\ 10\\ 120.85\\ 10\\ 110.44\\ 110.44\\ 110.44\\ 110.44\\ 110.44\\ 110.44\\ 110.44\\ 110.44\\ 110.44\\ 110.44\\ 110.44\\ 110.44\\ 112.53\\ 112.85\\ 00\\ 1235.97\\ 235.97\\ 235.97\\ 235.97\\ 235.97\\ 235.97\\ 235.97\\ 235.97\\ 235.97\\ 235.97\\ 235.97\\ 245.66\\ 110.44\\$ | 0. 95.45 0. |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | |
| 961.72 972.86 972.86 972.86 956.22 956.22 956.22 956.22 956.22 956.22 956.66 956.22 956.66 956.22 956.66 957.73 95.66 95.73 95.66 97.56 97 | 0. 86.30 0. |
| $\begin{smallmatrix} 120\\ 120\\ 120\\ 120\\ 120\\ 120\\ 120\\ 120\\$ | 0174 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 294.83 82.00 213.80 |
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| 123.90 156.27 156.27 156.27 156.27 156.27 137.19 137.19 137.19 137.19 136.67 136.67 136.67 136.67 136.67 136.67 136.67 156.00 | |
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| 219.29 152.67 152.67 0.0 0.0 0.0 0.0 0.0 0.0 131.80 0.0 131.80 0.0 131.80 131.80 131.80 131.80 131.80 131.80 131.80 10.25 | |
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| 32.94 6. | | | | |
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APPENDIX B2: Smallest Prices, Original Commodities, 1966-80.

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| 245.67 736.11 121.27 150.61 | 588.21 1010.56 | 6. 41.79 455.68 1523.65 | 514.54 1027.11 305.12 | 466.11 342.76 440.30 | 336.45 287.33 | 984.76 260.00 218.60 | 734.06 | 571.43 843.75 | 0. 0. |
| 156 10 78 78 | 156 | 285 28 28 28 | 156 228 33 | 33 231 10 | 212 | 229 104 | 901 | 106 | 60 |
| 245.48 593.85 139.97 150.04 | 591.47 1122.30 | 0. 178.59 1565.22 1296.09 | 585.51 1037.57 358.76 | 608.33 372.84 624.71 | 327.81 608.70 | 374.68 374.68 | 1107.56 | 0. 545.45 | 0.0 |
| 156 156 15 | | | | | | | | | |
| 668 906 | 106 | 904 904 | 919 919 | 920 | 921 | 927 | 928 | 929 | 930 |

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| 1968 1968 1968 1969 1969 1969 1969 1969 | |
| 59.15 90.25 90.36 90.37 90.33 90.45 90.47 90.47 90.47 90.47 90.47 90.47 90.47 90.47 90.47 90.47 90.47 90.47 | |
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| 269.68 | .0 |
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| 22.22.22.22.22.22.22.22.22.22.22.22.22. | 01.601 |
| 1960 1960 1960 1960 1960 1960 1960 1960 | <u>.</u> |
| 28,243 | |
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| 822328 82328 824255 824555 824555 824555 824555 824555 824555 824555 8255555 82555555 8255555 8255555 8255555 8255555 8255555 82555555 8255555 825555555 82555555 82555555 82555555 82555555 82555555 82555555 82555555 82555555 825555555 82555555 825555555 825555555 825555555 825555555 825555555 8255555555 825555555 825555555555 | 10 |
| 1960 1960 1960 1960 1960 1960 1960 1960 | 101 |
| <pre> Constant of the second seco</pre> | |

APPENDIX B3: Smallest Prices, Aggregate Commodities, 1961-76.

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| $\begin{array}{c} 538\\ 538\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$ |
| $\begin{array}{c} 21\\ 21\\ 22\\ 23\\ 23\\ 23\\ 23\\ 23\\ 23\\ 23\\ 23\\ 23$ |
| $\begin{array}{c} 572.01\\ 289.29\\ 0.254.39\\ 289.29\\ 289.29\\ 289.29\\ 289.29\\ 289.29\\ 283.37\\ 281.65\\ 283.37\\ 281.87\\ 281.87\\ 281.87\\ 281.86\\ 283.37\\ 281.86\\ 283.37\\ 281.86\\ 283.56\\ 01\\ 286.61\\ 283.56\\ 2$ |
| 2166 2166 2166 2166 2166 2166 2166 2166 |
| $\begin{array}{c} 422.69\\ 196.45\\ 196.45\\ 192.69\\ 192.69\\ 1343.95\\ 1343.95\\ 1002.69\\ 1003.55\\ 1002.66\\ 1003.55\\ 1002.66\\ 1003.55\\ 1002.66\\ 1003.55\\ 1002.66\\ 1003.55\\ 1002.66\\ 1003.55\\ 1002.62\\ 1002.66\\ 1$ |
| 0390-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0 |
| 501.54 501.54 221.03 221.03 221.03 221.03 221.03 221.03 221.03 221.03 221.03 221.03 221.03 221.03 221.03 221.03 221.03 200.00 201.19 200.00 201.19 200.00 201.19 200.00 201.19 200.00 201.13 200.00 216.24 200.03 250.28 200.03 250.28 200.03 250.28 200.03 250.28 200.03 250.28 200.03 250.28 200.03 250.28 200.03 250.28 200.03 250.28 200.03 250.28 200.03 250.28 200.03 260.03 200.03 274.03 21.03 28.03 21.03 29.03 21.12 20.12 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 413 2221-240 2 |
| 883366441533666666666666666666666666666666 |
| 5 5 5 5 5 5 5 5 5 5 |
| $\begin{array}{c} 333\\ 333\\ 333\\ 333\\ 333\\ 333\\ 100\\ 100\\$ |
| 49 49 49 49 49 49 49 49 |
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| 216 216 227 228 228 223 223 223 223 228 228 228 228 |

| $\begin{array}{c} 84.47\\ 64.47\\ 64.47\\ 64.47\\ 64.47\\ 64.47\\ 64.47\\ 64.47\\ 64.47\\ 64.47\\ 64.47\\ 64.47\\ 64.49\\ 64.47\\ 64.49\\ 64.47\\ 64.49\\ 64.47\\ 64.49\\ 64.49\\ 64.47\\ 64.49\\ 64$ |
|---|
| 600 600 600 600 600 600 600 600 |
| $ \begin{array}{c} 117.21\\ 0.227.39\\ 0.227.39\\ 0.217.0\\ 0.217.0\\ 0.217.0\\ 0.217.0\\ 0.217.0\\ 0.217.0\\ 0.217.0\\ 0.227.33\\ 0.227.3$ |
| 60 100 100 100 100 100 100 100 1 |
| $ \begin{array}{c} 114.96\\ 114.96\\ 1222.96\\ 124.96\\ 124.96\\ 124.96\\ 124.96\\ 1272.53\\ 1272.53\\ 1272.53\\ 1272.53\\ 1272.53\\ 1272.53\\ 1272.53\\ 1272.53\\ 1272.53\\ 1272.53\\ 1272.55\\ 1$ |
| 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| $ \begin{array}{c} 141.\ 29\\ 274.\ 16\\ 274.\ 16\\ 274.\ 16\\ 226.\ 28\\ 226.\ 28\\ 226.\ 28\\ 226.\ 28\\ 226.\ 28\\ 215.\ 58\\ 226.\ 28\\ 215.\ 58\\ 20\\ 215.\ 58\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20$ |
| 60070000000000000000000000000000000000 |
| $\begin{array}{c} 146. \ 14 \\ 283. 51 \\ 283. 51 \\ 283. 51 \\ 283. 51 \\ 283. 51 \\ 266. 32 \\ 60. 33 \\ 60. 3$ |
| 165 165 165 165 150 150 138 138 138 150 150 138 138 138 150 138 138 138 138 138 138 138 138 138 138 |
| 22222222222222222222222222222222222222 |
| oogaaseesaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa |
| 6 44888 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| 5. 63358688888865535773888777373736673368736893911268328833667686768676867686768676867686768676 |
| 200133112588612888238665866586828883338863488858883338323833888888888888888888888 |
| 5°°33°°8°8°°33°33°33°33°33°33°33°33°33°33 |
| 297 298 331 331 332 333 333 333 333 333 333 333 |

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| 80.48 80.48 80.48 80.48 80.48 80.48 80.48 80.48 80.48 80.48 80.48 80.65 81.67 13 80.48 80.48 80.48 80.48 80.48 80.65 81.67 13 81.67 13 81.67 13 82.68 83.53 |
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| 600308803980308003 1003088039030300300300300300300000000000 |
| $\begin{array}{c} 63. 13\\ 570. 49\\ 86. 00\\ 86. 00\\ 86. 00\\ 86. 00\\ 86. 00\\ 97\\ 97\\ 97\\ 97\\ 97\\ 97\\ 97\\ 92\\ 86. 44\\ 92\\ 61\\ 116. 48\\ 92\\ 61\\ 116. 48\\ 129. 55\\ 14\\ 129. 55\\ 14\\ 129. 55\\ 14\\ 129. 55\\ 14\\ 129. 56\\ 14\\ 92. 61\\ 116. 48\\ 129. 55\\ 129. 55\\ 14\\ 127\\ 260. 7\\ 129. 56\\ 14\\ 122. 60\\ 129. 55\\ 14\\ 127\\ 260. 7\\ 129. 56\\ 14\\ 122. 60\\ 129. 55\\ 14\\ 127\\ 260. 7\\ 129. 55\\ 14\\ 127\\ 260. 7\\ 129. 55\\ 14\\ 127\\ 260. 7\\ 129. 57\\ 122. 60\\ 122. 61\\ 122. 55\\ 122. 60\\ 122. 61\\ 122. 55\\ 122. 52\\ 122. $ |
| 0330880330880250930309309309309803550930980955093092509309250930930925093093098095550930930980955509309309809555 550030250030250030030000000000000000 |
| $\begin{array}{c} 70.81\\ 629.95\\ 629.95\\ 629.95\\ 629.95\\ 629.95\\ 629.95\\ 629.95\\ 629.11\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ $ |
| 639636893628676768689767686868676755697675686867687675 5363368676676767686867675568686767555686768755 536336867667676768686767555686867675556867687555686768755555555 |
| |
| 63064633033636868868868686686686686756686868686868686 |
| $egin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 540 570 570 570 570 570 570 570 57 |
| 746 228 288 288 288 288 288 288 288 288 28 |
| 23333-25883338-258833328883332888333888333888888888333333 |
| 81 82 83 84 84 85 85 85 85 85 85 85 85 85 85 |
| 53331533333226668883336757888336757888336868888882733336827588888873288888732885733335255888887328888873255588 5333153333322666888333688336888336888883368688888888 |
| 282.25 28 |
| 2333688773337286873755588333684735868335682558875555885555555555555555555555555 |
| 449 449 449 449 486 486 486 486 486 486 490 490 490 490 512 512 512 512 512 512 512 512 512 512 |

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| 214.22 69.35 69.35 69.35 69.35 69.35 69.35 69.35 69.35 69.35 69.35 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.29 193.92 193.92 193.92 193.92 193.92 193.92 193.92 193.92 193.92 193.92 193.92 193.92 193.93 193.94 193.95 193.55 193.55 193.55 193.55 193.55 193.56 193.57 105.61 |
|---|
| 88 23 23 23 23 23 23 23 23 23 23 |
| $\begin{array}{c} 145.47\\ 45.62\\ 66.11\\ 66.11\\ 66.11\\ 66.11\\ 66.11\\ 66.11\\ 66.00\\ 65.02\\ 65.02\\ 65.02\\ 66.07\\ 66.07\\ 66.07\\ 118.47\\ 118.47\\ 121.98\\ 60.07\\ 118.47\\ 118.47\\ 121.98\\ 60.07\\ 118.47\\ 118.47\\ 121.98\\ 60.07\\ 118.47\\ 121.98\\ 60.07\\ 118.47\\ 122.08\\ 2251.18\\ 2251.18\\ 2251.18\\ 2265.29\\ 60.05\\ 2282.05\\ 2282.05\\ 248.28\\ 2282.05\\ 248.28\\ 248.28\\ 227.24\\ 88.94$ |
| 84 84 85 84 174 168 138 138 138 138 138 138 138 13 |
| $ \begin{array}{c} 123.60\\ 26.97\\ 26.97\\ 0.26.97\\ 0.26.97\\ 0.26.97\\ 0.278\\ 0.278\\ 0.278\\ 0.278\\ 0.278\\ 0.278\\ 0.06\\ 0.0$ |
| 84 85 10 10 10 10 10 10 10 10 10 10 |
| 96.26 96.26 97.26 96.21.55 96.21.55 96.21.55 96.21.55 96.21.15 96.21.15 96.21.15 96.21.15 96.21.15 15.22.25 15.25.25.25 15.25.25.25.25.25.25.25.25.25.25.25.25.25 |
| 84 84 85 85 84 85 85 85 85 85 85 85 85 85 85 |
| $\begin{array}{c} 97.02\\ 97$ |
| 88 88 98 98 98 98 98 98 98 98 |
| 384 384 386 386 386 386 386 386 386 386 386 386 |
| 884 100 100 100 100 100 100 100 10 |
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| 884 100 100 100 100 100 100 100 100 100 10 |
| $ \begin{smallmatrix} & & & & & & & & & & & & & & & & & & $ |
| 8883338-44-089-09-09-09-09-09-09-09-09-09-09-09-09-09 |
| 564 567 568 569 571 572 572 573 577 563 663 663 667 663 667 689 689 689 689 689 689 689 689 689 689 |

| $\begin{array}{c} 341.35\\ 341.35\\ 113.23\\ 113.23\\ 113.23\\ 1144.07\\ 1280.56\\ 200.69\\ 211.28\\ 371.67\\ 371.67\\ 100\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ $ |
|--|
| 228 228 228 228 229 229 230 230 230 230 230 230 230 230 |
| $ \begin{array}{c} 113.33\\ 187.81\\ 0\\ 187.81\\ 0\\ 187.81\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$ |
| 0001 000 000 000 000 000 000 000 |
| 103.70 103.70 103.70 103.70 15.79 15.79 15.79 15.79 15.79 15.79 15.79 15.79 15.79 15.79 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 165.81 166.82 166.91 166.82 166.92 99.42 99.42 99.42 99.42 90.20 |
| 080-12 2360 23700 2370 2370 2370 2370 2370 2370 2370 2370 2370 237 |
| 89.84 101.28 125.20 125.20 125.20 125.20 125.20 125.20 126.14 12.65.35 12.65.35 12.65.35 12.65.35 12.65.35 12.65.35 12.65.35 12.65.35 12.65.35 13.8.48 13.8.27 13.8.48 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 13.8.27 15.9.85 15.9 |
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| 92. 43 92. 55 92. 55 92. 51 92. 51 92. 51 93. 48 92. 48 93. 48 93. 48 96. 68 96. 68 97. 48 96. 68 96. 68 97. 48 96. 68 97. 48 96. 68 96. 68 97. 48 96. 68 96. 68 96. 68 97. 48 97. 48 97. 48 96. 68 97. 48 97. 48 96. 68 97. 48 97. 48 97 |
| 00058088000000000000000000000000000000 |
| 86. 14 102.25 |
| 28899966666856983750975750986666666666666666673337567333375555568833555555688335555555555 |
| 83.26 107.75 |
| 123 123 123 123 123 123 123 123 |
| 221 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 202 102 1 |
| 2228 2288 23888 2388 2388 2388 2388 2388 2388 2388 2388 2388 2388 |
| 773 773 773 773 786 788 788 869 869 869 919 927 919 927 927 927 929 927 927 929 927 929 929 |

| 242.40 693.44 693.44 693.44 693.44 693.44 173.42 173.59 173.42 173.59 173.59 173.60 125.50 1255.13 1255. |
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| 179 179 179 179 179 179 179 179 |
| $\begin{array}{c} 280, 00\\ 260, 06\\ 0, 0\\ 0\\ 0, 0\\ 0\\ 0, 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $ |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| $\begin{array}{c} 200,00\\ $ |
| 22002 500 500 500 500 500 500 500 |
| $ \begin{array}{c} 120.00 \\ 345.24 \\ 0.0 $ |
| 23000-1000-1000-1000-1000-1000-1000-1000 |
| 159.87 919.97 919.97 919.97 76.50 76.50 76.50 76.50 146.97 76.50 87 80.52 87 86.50 86.50 86.50 128.57 75.45 75.45 86.50 86.50 86.50 1123.28 86.50 86.50 118.55 118. |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 119 119 119 119 119 119 119 119 |
| $\begin{smallmatrix} 123 \\ 156 \\ 15$ |
| 88 950 950 950 950 950 950 950 950 |
| 720 120 120 120 120 120 120 120 1 |
| 126 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| 223382 223382 2338 23382 2 |
| 1020 1028 1028 1035 1035 1036 1036 1037 1035 1089 1089 1089 1089 1185 1163 1163 1163 1163 1163 1163 1163 116 |

- 77 -

| 183.25 0. 0. 165.24 165.24 165.24 165.24 1315.86 1315.86 1315.86 1315.86 132.82 1315.86 132.82 132.82 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.83 192.75 192.75 192.75 192.75 193.95 194.10 195.95 196.05 197.75 198.75 198.75 199.75 199.75 199.75 199.75 199.75 199.75 <th>291.37 6. 8.26 0.</th> | 291.37 6. 8.26 0. |
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| 23650 237500 237500 237500 237500 2375000000000000000000000000000000000000 | 101 001 00 |
| $\begin{array}{c} 155.81\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.$ | 186. 58 0. 6. 29 0. |
| Second Se | 191 0 9 8 1 3 8 |
| $\begin{array}{c} 187.21\\ 0.250.91\\ 0.250.91\\ 250.91\\ 250.91\\ 0.250.91\\ 0.240.53\\ 0.242.34\\ 0.242.34\\ 147.54\\ 147.54\\ 147.54\\ 147.54\\ 147.54\\ 157.86\\ 157.86\\ 157.86\\ 157.28\\ 0.0\\ 174.24\\ 174.24\\ 174.24\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.$ | 223.33 0. 6.41 0. |
| 231 156 156 156 150 150 110 110 110 110 110 110 110 110 | 101 0 0 101 |
| 173.80 140.05 0.1 0.265.13 265.13 265.13 0.0 198.93 198.93 113.05 | 98.00 6. 6. |
| 33 100 100 100 100 100 100 100 100 100 1 | 0000 |
| 110.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 23.33 0. 6.44 0. |
| 100 100 100 100 100 100 100 100 100 100 | 1010 |
| 94.02 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 304.00 100.00 100.000 100.00000000 | 46.25 398.08 8.28 15.79 |
| 2286 2286 2286 2286 2210 22288 2210 22288 2210 22288 2210 22288 228 228 228 228 228 228 228 228 | 10101 |
| $\begin{array}{c} 121.77\\ 317.78\\ 317.78\\ 313.76\\ 313.76\\ 313.76\\ 333.13\\ 334.64\\ 1755.46\\ 1755.46\\ 1755.46\\ 1755.12\\ 1755$ | 833.33 289.85 22.54 10.00 |
| 174 178 173 173 173 173 178 178 178 178 178 178 178 178 178 178 | 101 101 101 |
| 170.00 177.80 177.80 177.80 177.80 177.80 177.80 177.80 177.80 177.80 1760.82 1760.82 1760.82 1760.82 1760.82 1760.82 1760.73 1760.82 | 1020.00 117.57 14.98 8.44 |
| 174 174 174 175 175 175 175 175 175 175 175 175 175 | 101 101 101 |
| 1223 4225 4225 1243 1275 1275 1576 1579 1579 1579 | 1587 |

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| $\begin{smallmatrix} & & & & & & & & & & & & & & & & & & &$ |
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| 144 882 882 882 882 882 883 92 883 92 882 883 87 88 88 88 88 88 88 88 88 88 88 88 88 |
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| 8 10 10 10 10 10 10 10 10 10 10 |
| 197 197 197 197 197 197 197 197 |
| 145 ° 86 ° 86 ° 86 ° 86 ° 86 ° 86 ° 86 ° 8 |
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| 33 25 <td< td=""></td<> |
| 198 198 198 198 198 198 198 198 |
| 7 7 7 7 7 7 7 7 |
| $ \begin{bmatrix} 1362 \\ 1362$ |
| 76 78 78 78 78 78 78 78 78 78 78 |
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| 27 15 27 28 28 28 28 19 116 116 116 116 116 116 116 116 116 |

APPENDIX B4: Smallest Prices, Aggregate Commodities, 1966-80.

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| $ \begin{array}{c} 158 \\ 326 $ |
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| 1915-1917-1917-1917-1917-1917-1917-1917- |
| 25 25 25 25 25 25 25 25 25 25 |
| 38011280012330001233311144 19112812800133311233311233311233311233311233333333 |
| 525.55.55 525 |
| 386 2138 2138 2138 2138 2138 2138 2138 2138 |
| 522 52 52 52 52 52 52 52 52 52 52 52 52 |
| |
| 5221 523 5255 54 5251 55 5251 55 5251 55 5251 55 5251 55 5251 55 5251 55 5251 55 525 |
| 628623333 ° 828333 ° 3 6 5 5 3 3 3 6 5 5 6 5 6 5 6 6 5 6 6 5 7 6 7 7 5 7 5 |
| 84 138 138 138 138 138 138 138 138 138 138 |
| 2100 210 210 210 210 210 210 210 |
| 88.25 88 |
| 2100100 2100000 2100000000 |
| 947-54 947-55 |
| 00000000000000000000000000000000000000 |
| 211 216 217 216 216 221 221 222 223 223 223 223 223 223 225 225 225 |

| $\begin{array}{c} 883.55\\ 887.56\\ 887.56\\ 887.56\\ 887.56\\ 887.56\\ 887.56\\ 888.86\\ 911\\ 888.86\\ 912\\ 888.86\\ 912\\ 888.92\\ 912\\ 912\\ 912\\ 912\\ 912\\ 912\\ 912\\ 9$ |
|---|
| 60000000000000000000000000000000000000 |
| 2286.230.001 2286.232.332.332.332.232.332.232.332.332.232.332.232. |
| 833888888888888757388888888888888888888 |
| 2885.8833-22286.82388.332.883388.3349.883388.3349.8833883375.883383383383383383383383383383383383383 |
| |
| 84488888888888888888888888888888888888 |
| 00088888888600000000000000000000000000 |
| 148 148 148 148 148 148 148 148 |
| <u>33382888888888888888888888888888888888</u> |
| 10000000000000000000000000000000000000 |
| 3338888888893338873888888673338883333999998888338833899977388888888 |
| 132 884 484 485 585 585 586 588 582 588 582 588 582 586 586 586 586 586 586 586 586 586 586 |
| 6035668888886933773888887733888733399399392999333 565568888888933773388873338859399333559932555555555555555555555 |
| 6222 622 62 6 |
| 333888888833333333888888523333333333333 |
| 293 293 332 333 333 333 333 333 333 333 |

| 66. 67 0. 246. 54 0. 246. 546. 546. 546. 546. 546. 546. 546. 5 |
|--|
| 288-292 292-29 |
| 2488.5598.666.6672888888888888888888888888888888 |
| 2223 2223 2223 2233 2233 2233 2233 223 |
| 969.95 |
| 88122222222222222222222222222222222222 |
| 576. 576. 576. 576. 576. 576. 576. 576. 576. 576. 576. 576. 576. 576. 576. 576. 576. 576. 577. |
| 533332233322333358833335883333585333358533335853335555°°833532555°°833335555°°833335555°°83335555°°83335555°°8 |
| 500 500 500 500 500 500 500 500 |
| 233332822666883315883315883315883315886688666799787598678885336878885336878885336 23333328226883315883315883315883315883315888333158885333885358885333587888533358 2633333282828333158833158833158833158883331588853333587888533358788853358885358885358885358885358885358885358 |
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| 223 233 233 233 233 233 233 233 233 233 |
| 600 600 600 600 600 600 600 600 |
| 2233 2333 2333 2333 2333 2333 2333 233 |
| 526 526 526 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 527 5 55 5 55 5 5 |
| \$233333286828333688333686336864568666758687568675686756867568675686 |
| 423 426 426 449 459 459 459 459 459 497 497 497 497 512 512 512 512 512 523 536 536 533 536 536 538 538 538 538 538 538 538 538 538 538 |

| 6.8. 86555555555555555555555555555555555 |
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APPENDIX C1: Country Pattern, Original Commodities, 1961-76.

Original FAO commodities

| oommodity | 61 | 62 | 63 | 64 | cour 65 | 66 | code 67 | es of 68 | уеа 69 | 70 rs | 9: 71 | 72 | 73 | 74 | 75 | 76 |
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| 290 291 | 110 | 138 | 138 | 110 | 229 | 229 | 229 | 54 | 229 | 78 | 100 | 54 | 84 | 110 | 84 | 110 |
| 292 | 100 33 | 100 33 | 100 33 | 100 33 | 100 | 100 33 | 100 33 | 165 33 | 100 | 54 33 | 100 68 | 100 33 | 100 231 | 106 231 | 106 231 | 106 231 |
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| 336 338 | 223 0 | 223 Ø | 223 0 | 223 Ø | 15 228 | 78 228 | 15 228 | 165 228 | 68 228 | 68 228 | 68 | 78 0 | 15 | 68 | 150 | 78 |
| 339 | 101 | 101 | 216 | 101 | 101 | 101 | 33 | 101 | 101 | 101 | 0 101 | 68 | 0 216 | 0 101 | 0 101 | 0 216 |
| 340 341 | 159 68 | 100 54 | 100 165 | 27 223 | 100 54 | 100 174 | 21 216 | 100 231 | 100 54 | 100 | 33 | 231 54 | 231 | 33 203 | 231 | 231 |
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| 358 366 | 97 203 | 173 203 | 101 203 | 101 203 | 231 203 | 101 203 | 78 203 | 101 59 | 101 203 | 101 | 101 | 138 203 | 138 | 138 | 138 | 78 |
| 367 | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 203 138 | 203 138 | 138 | 203 138 | 203 138 | 106 138 | 106 231 |
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| 393 394 | 106 138 | 27 138 | 27 138 | 27 138 | 27 138 | 27 138 | 27 1 38 | 106 138 | 27 138 | 27 138 | 106 138 | 27 1 38 | 106 138 | 106 138 | 106 138 | 10 6 0 |
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| 399 401 | 138 138 | 138 138 | 138 138 | 138 138 | 138 138 | 138 138 | 138 138 | 138 138 | 138 138 | 138 27 | 138 | 138 203 | 138 203 | 138 231 | 138 231 | 106 2 3 1 |
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| 403 406 | 203 | 203 138 | | 203 100 | 203 100 | 100 | | 203 | | | | | 203 138 | | 156 | |
| 414 | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 59 | 138 | 138 | 138 | 138 | 138 | 150 |
| 417 420 | 150 203 | 150 203 | 150 203 | 150 203 | 150 203 | 150 203 | 150 | 150 203 | 150 203 | 150 203 | 138 203 | 138 203 | 138 203 | 138 203 | 138 203 | 97 203 |
| 423 | 0 | 0 | 0 | 0 | 0 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 150 | 223 | 0 |
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| 988 994 995 995 997 997 998 997 1008 1009 1016 1017 1021 1025 1026 1027 1028 1034 1035 1036 1037 1039 1041 1042 1043 1044 10457 1058 1060 1061 1065 1066 1065 1066 1068 1072 1079 | 0 (33 3: | $\begin{array}{c} 9 & 10 \\ 3 & 165 \\ 3 & 165 \\ 3 & 165 \\ 3 & 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 203\\ 97\\ 33\\ 10\\ 9\\ 210\\ 229\\ 104\\ 229\\ 104\\ 156\\ 78\\ 97\\ 78\\ 104\\ 568\\ 970\\ 10\\ 681\\ 10\\ 973\\ 183\\ 10\\ 97\\ 88\\ 20\\ 0\\ 33\end{array}$ | $\begin{array}{c}9\\9\\7\\3\\1\\0\\9\\1\\5\\2\\2\\3\\1\\5\\7\\7\\7\\8\\1\\7\\7\\7\\8\\1\\7\\7\\7\\8\\1\\7\\7\\7\\8\\1\\7\\7\\7\\8\\1\\7\\7\\7\\8\\1\\7\\3\\1\\5\\0\\7\\1\\1\\0\\8\\1\\1\\7\\3\\1\\5\\6\\7\\8\\2\\0\\3\\3\end{array}$ | $\begin{array}{c}9\\9\\7\\3\\1\\0\\9\\1\\8\\4\\1\\9\\2\\2\\5\\6\\8\\7\\7\\8\\8\\4\\1\\5\\6\\2\\7\\3\\1\\0\\1\\2\\0\\6\\7\\3\\2\\0\\6\\2\\3\\1\\0\\1\\2\\0\\6\\2\\3\\1\\0\\1\\2\\0\\6\\2\\3\\1\\0\\1\\2\\0\\6\\2\\3\\1\\0\\1\\2\\0\\6\\2\\3\\1\\0\\1\\2\\0\\6\\2\\3\\1\\0\\1\\2\\0\\0\\2\\3\\1\\0\\1\\2\\0\\0\\2\\3\\1\\0\\0\\2\\3\\1\\0\\0\\2\\3\\1\\0\\0\\2\\3\\1\\0\\0\\2\\3\\1\\0\\0\\0\\2\\3\\1\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0$ | $\begin{array}{c} 203\\ 97\\ 33\\ 10\\ 9\\ 15\\ 104\\ 10\\ 231\\ 100\\ 156\\ 7\\ 104\\ 114\\ 156\\ 77\\ 78\\ 104\\ 156\\ 231\\ 10\\ 11\\ 2316\\ 97\\ 3156\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 78\\ 20\\ 78\\ 11\\ 156\\ 78\\ 78\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$ | $\begin{array}{c} 203\\156\\310\\9\\1784\\6780\\156\\870\\114\\1577\\778\\777\\877\\102\\97\\110\\11\\206\\77\\173\\159\\7\\83\\0\\33\end{array}$ | $\begin{array}{c} 203\\156\\15\\10\\9\\548\\75\\62\\156\\231\\156\\77\\180\\156\\231\\156\\77\\78\\231\\104\\27\\180\\115\\11\\206\\7\\78\\4\\54\\231\end{array}$ | $\begin{array}{c} 33 & 3\\ 10 & 1\\ 94 & 10\\ 15 & 26\\ 94 & 7\\ 15 & 23\\ 156 & 23\\ 1578 & 23\\ 121 & 6\\ 1578 & 78\\ 231 & 24\\ 156 & 15\\ 787 & 78\\ 231 & 24\\ 107 & 97\\ 788 & 23\\ 104 & 97\\ 788 & 23\\ 104 & 97\\ 788 & 23\\ 106 & 22\\ 111 & 1\\ 11 & 1\\ 231 & 22\\ 225 & 1\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 150 & 11\\ 106 & 22\\ 1$ | |
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| | | | | | | | 10 | | | | | | |
| 1060 | 231 54 | 4 54 5 | 4 15 | 15 5 | 54 231 | 97 | 231 | 97 | 97 | 97 | 97 | 97 23 | 31 |
| | | | | | | - | | | | | | | |
| 1063 | 51 5 | 1 51 1 | 229 | 229 15 | 56 156 | 10 | 156 | 156 | 156 | 156 | 156 | 15 | Ø |
| | | 0 6 | 3 97 | | | | | | | | | | |
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| 1072 | 0 (| 0 0 7 | 30 | 0 | 0 0 | 0 | 0 | Ø | 78 | 0 | 54 | 0 | Ø |
| 1079 1089 | 231 23 | | | | 78 78 | 33 78 | 33 78 | 231 78 | 231 | 231 | 231 78 | | 11 78 |
| 1091 1096 | 0 (84 84 | 0021 4848 | | 216 21 1 83 8 | 16 216 34 84 | 216 183 | 216 183 | 216 183 | 216 183 | 216 84 | 0 183 | 0 183 8 | 0 34 |
| 1097 1098 | 21 138 | | | | 38 223 9 9 | 138 9 | 9 | 9 | 9 | 138 | 138 | | 31 |
| 1100 | 231 23 | 1 231 23 | 1 231 | 229 22 | 29 15 | 15 | 231 | 15 | 100 | 165 | 106 | 33 3 | 33 |
| 1102 1103 | 33 33 21 2 | 1 21 2 | 1 21 | 21 2 | 73 33 21 21 | 33 21 | 33 21 | 33 9 | 33 9 | 33 9 | 33 9 | 9 | 33 0 |
| 1104 110 5 | 9 9 156 150 | | 99 5210 | 9 156 1 | 999 1010 | 9 10 | 9 54 | 15 54 | 9 210 | 9 10 | 15 10 | 9 156 21 | 0 10 |
| 1107 1110 | 203 104 | 497 | 8 203 9 9 | 104 10 | 9 104 9 174 | 229 68 | 104 68 | 104 | 104 | 229 203 | 229 15 | 106 10 | 36 |
| 1126 | 0 (| 0 6 | 0 0 | 223 22 | 23 223 | 223 | 223 | 223 | 223 | 0 | 0 | 0 | 0 |
| 1140 1141 | 27 7 27 2 | 70 | 0 6 | 0 | 78 78 0 27 | 78 78 | 78 0 | 78 0 | 78 0 | 78 0 | 78 0 | 0 | 78 0 |
| 1163 1164 | 173 173 78 79 | | | | 50 231 78 54 | 15 54 | 150 54 | 231 54 | 231 54 | 15 54 | 15 54 | | 31 54 |
| 1166 1167 | | 0 228 22 | 8 228 : 8 138 | 228 22 | 28 228 | | 228 | | 228 | 9 | 9 138 | 9 22 | 28 58 |
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| 1522 9 9 15 9 33 9 15 9 15 15 15 33 15 9 15 0 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
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| | 1516 15 1517 78 1518 165 1519 0 1520 54 | 5 15 54 54 3 33 173 173 5 165 165 165 0 0 0 4 54 54 54 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 78 68 54 9 9 9 165 165 165 10 10 68 84 84 54 | 54 229 68 9 9 9 165 165 165 78 203 78 54 216 54 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |

| 1532 1533 1534 1535 1537 1540 1541 1542 1543 1544 1545 1544 1545 1554 1554 1555 1556 1557 1558 1559 1562 1563 1564 1565 1570 1571 1572 1573 1574 1580 1581 1582 1588 | $\begin{array}{c} 229\\ 33\\ 229\\ 210\\ 165\\ 546\\ 0\\ 0\\ 101\\ 216\\ 138\\ 97\\ 228\\ 101\\ 165\\ 150\\ 818\\ 110\\ 231\\ 222\\ 33\\ 174\\ 138\\ 0\end{array}$ | $\begin{array}{c}110\\33\\229\\174\\174\\57\\0\\0\\101\\216\\39\\220\\16\\0\\165\\150\\201\\0\\21\\33\\174\\38\\0\end{array}$ | $\begin{array}{c}150\\33\\229\\210\\101\\17\\0\\101\\100\\101\\100\\101\\100\\101\\100\\101\\150\\201\\223\\33\\10\\130\\101\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\130\\100\\10$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c}110\\33\\150\\33\\174\\101\\2\\0\\0\\101\\216\\0\\101\\165\\101\\165\\101\\150\\203\\2016\\233\\330\\138\\101\end{array}$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c}110\\33\\231\\4174\\101\\2\\0\\101\\10\\0\\101\\100\\101\\100\\101\\100\\100$ | $\begin{array}{c}110\\33\\231\\174\\101\\0\\0\\101\\10\\0\\101\\220\\101\\220\\101\\106\\150\\84\\1106\\2316\\374\\100\\101\\101\\101\\101\\101\\101\\101\\101\\10$ | $\begin{array}{c}110\\33\\231\\174\\101\\0\\101\\10\\1\\0\\5\\7\\8\\100\\101\\223\\101\\5\\7\\8\\229\\110\\231\\6\\5\\7\\8\\4\\229\\110\\231\\6\\0\\101\\101\end{array}$ | $\begin{array}{c}110\\33\\231\\231\\174\\101\\20\\101\\210\\165\\216\\100\\125\\229\\4210\\231\\216\\0\\100\\216\end{array}$ | $\begin{array}{c}110\\333\\374\\101\\215\\101\\216\\159\\101\\223\\101\\223\\100\\159\\216\\44\\116\\2216\\0\\100\\101\end{array}$ | $\begin{array}{c} 228\\78\\231\\33\\21\\101\\78\\216\\68\\54\\102\\216\\156\\216\\54\\150\\2316\\0\\330\\101\end{array}$ | $\begin{array}{c} 228\\78\\165\\110\\21\\101\\78\\78\\101\\15\\78\\216\\59\\68\\54\\105\\216\\159\\150\\159\\150\\101\\56\\216\\0\\220\\101\\0\end{array}$ | $\begin{array}{c}110\\78\\165\\110\\278\\78\\101\\578\\210\\216\\216\\216\\216\\216\\216\\216\\216\\216\\216$ | $\begin{array}{c}110\\78\\15\\110\\278\\78\\10\\210\\854\\101\\165\\101\\150\\101\\56\\90\\100\\100\\100\\100\\100\\100\\100\\100\\100\\$ | $\begin{array}{c}110\\0\\150\\110\\0\\210\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\$ |
|--|--|---|---|--|--|--|--|---|--|--|--|--|--|---|---|--|
| | | | | | | | | | ~ | - | - | - | - | - | ~ | - |
| 1587 | 138 | 138 | 138 | 138 | 138 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 1590 | 0 | Õ | 0 | 0 | 0 | 0 | 0 | Ø | 0 | 216 | 0 | 216 | 216 | $\frac{216}{216}$ | 101 0 | 0 |
| 1 594 1595 | 138 33 | 138 33 | 138 101 | 1 38 101 | 138 101 | 0 101 | 0 101 | 0 101 | 0 101 | 0 101 | 0 101 | 0 101 | 0 101 | 0 101 | 174 101 | 0 110 |
| 1599 | õ | õ | Ő | 0 | 6 | | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 228 | 228 | 0 |

APPENDIX C2: Country Pattern, Original Commodities, 1966-80.

Original FAO commodities

| commodity | 66 | 67 | 68 | сот 69 | 70 | 71 coo | ies i 72 | ° 53 | 74 | 5 19 75 | : 76 | 77 | 78 | 7 9 | 80 | 81 |
|-------------------|------------|-----------|------------|------------|-----------|----------------|-------------|--------------------|------------|------------|--------------------|------------|------------|-------------------|------------|------------|
| 15 16 | 9 78 | 9 78 | 9 78 | 9 203 | 9 203 | 10 78 | 10 78 | 10 10 | 228 228 | 228 228 | 9 228 | 9 9 | 10 228 | 10 84 | 10 84 | 231 150 |
| 17 18 | 9 216 | 9 216 | 9 216 | 21 106 | 10 106 | 59 | 9 | 165 | 165 | 159 | 9 | 33 | 9 | 33 | 9 | 33 |
| 20 | 150 | 150 | 150 | 33 | 33 | 106 150 | 106 150 | 106 150 | 203 150 | 84 150 | 106 150 | 106 150 | 216 97 | 216 97 | 84 97 | 216 78 |
| 22 | 150 | 150 | 150 | 150 | 150 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 231 | 231 | 231 | 231 |
| 23 24 | 210 0 | 210 0 | 210 | 150 0 | 150 0 | 150 0 | 150 0 | 150 | 78 0 | 78 0 | 150 0 | 150 78 | 78 78 | 1 50 11 | 150 | 0 0 |
| 27 | 203 | 10 | 106 | 10 | 10 | 27 | 203 | 106 | | 106 | 216 | 216 | 21 | 231 | 84 | 231 |
| 28 31 | 216 | 231 | 21 | 21 | 21 | 216 | 216 | 110 | 110 | 106 | 216 | 216 | 10 | 110 | 10 | 10 |
| 32 | 216 10 | 216 10 | 216 10 | 216 10 | 106 | 216 10 | 216 59 | 165 10 | 165 10 | 216 59 | 216 10 | 21 231 | 10 10 | 216 231 | 10 10 | 216 10 |
| 34 | 150 | 150 | 150 | 150 | 150 | 150 | 229 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 35 36 | 101 0 | 101 | 101 0 | 9 0 | 21 Ø | 101 0 | 101 0 | 101 21 6 | 101 0 | 101 21 | 101 21 6 | 101 | 231 216 | 9 | 9 | 231 |
| 37 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 216 100 | 100 | 0 100 | 0 100 | 0 0 |
| 41 | 10 | 104 | 104 | 104 | 104 | 104 | 104 | 33 | 21 | 21 | 21 | 150 | 33 | 33 | 33 | 33 |
| 44 46 | 10 78 | 231 78 | 33 78 | 203 78 | 231 78 | 33 78 | 231 78 | 10 78 | 228 78 | 33 78 | 231 165 | 231 78 | 33 78 | 10 78 | 33 78 | 33 78 |
| 49 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 51 | 10 | 68 | 51 | 51 | 33 | 10 | 10 |
| 50 | 54 | 229 | 229 | 10 | 229 | 229 | 231 | 229 | 231 | 10 | 229 | 100 | 68 | 156 | 231 | 156 |
| 51 56 | 104 9 | 104 9 | 104 21 | 104 9 | 104 9 | 104 9 | 104 216 | 104 231 | 104 9 | 104 231 | 104 216 | 104 9 | 104 9 | 104 9 | 104 | 104 231 |
| 58 | 68 | 78 | 78 | 78 | | - | 216 | 78 | 78 | 216 | 216 | 216 | 216 | 216 | 216 | 216 |
| 59 | 114 | 114 | 114 | 114 | 21 | 114 | 114 | 114 | 114 | 21 | 114 | 21 | 21 | 21 | 114 | 68 |
| 60 61 | 15 231 | 68 231 | 68 231 | 150 231 | 68 231 | 68 231 | 68 231 | 68 231 | 68 231 | 68 231 | 68 231 | 68 231 | 15 231 | 231 231 | 231 231 | 231 231 |
| 63 | - 0 | ĩõ | 200 | - Ö | 200 | ² 0 | 231 | 201 | 231 | 231 | 231 | 231 | 78 | 78 | 78 | 231 |
| 64 | 68 | 78 | 150 | 150 | 150 | 150 | | 150 | 150 | 68 | 68 | 68 | 78 | 78 | 68 | 68 |
| 68 71 | 0 33 | 0 33 | 0 33 | 0 33 | 0 33 | 0 33 | 0 33 | 231 210 | 231 9 | 231 33 | 231 33 | 231 223 | 231 223 | 231 78 | 231 9 | 231 |
| 72 75 | 228 | 228 | 106 | 228 | 228 | 228 | 228 | 78 | 78 | 78 | 78 | 54 | 54 | 54 | 231 | 231 |
| 75 76 | 9 10 | 9 78 | 9 | 9 | 203 9 | 33 9 | 210 78 | 210 | 228 | 10 | 33 | 33 | 33 | 9 | 9 | 33 |
| 79 79 | 9 | ´ŝ | 9 | 9 | 9 | 9 | ´ĝ | 78 9 | 21 9 | 9 | 9 | 21 9 | 9 | 9 | 9 | 231 10 |
| 80 | 228 | 228 | 228 | 114 | 228 | 228 | 114 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 |
| 83 84 | 9 150 | 9 150 | 138 165 | 9 150 | 9 150 | 9 150 | 9 150 | 10 165 | 9 150 | 9 165 | 9 165 | 9 150 | 9 150 | 9 165 | 9 165 | 10 |
| 85 | | · 9 | 9 | | 165 | 165 | 9 | 9 | 9 | 9 | 105 | - 9 | 130 | 105 | 165 | 150 0 |
| 89 90 | 21 | 33 | 21 | 21 | 21 | 21 | 21 | 21 | 33 | 21 | 21 | 33 | 231 | 33 | 33 | 33 |
| 9 0 101 | 228 9 | 228 10 | 228 10 | 228 138 | 228 9 | 228 9 | 228 10 | 228 10 | 228 10 | 228 9 | 228 10 | 228 10 | 228 10 | 228 10 | 228 10 | 228 10 |
| 103 | 229 | 68 | 68 | 68 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 68 | 229 | 15 | 84 | 68 |
| 104 105 | 33 33 | 229 78 | 33 33 | 15 33 | 78 33 | 33 33 | 15 33 | 15 68 | 229 68 | 229 | 229 | 229 | 68 | 68 | 15 | 33 |
| 108 | 27 | íš | | -101 | 9 | 101 | 101 | 101 | 101 | 33 101 | 33 101 | 33 9 | 33 101 | 33 33 | 33 33 | 33 33 |
| 109 | 173 | 173 | 150 | 150 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 |
| 110 111 | 229 9 | 150 9 | 229 97 | 110 97 | 229 97 | 110 97 | 150 97 | 229 97 | 150 97 | 229 101 | 110 97 | 216 97 | 216 231 | 150 231 | 150 231 | 150 |
| 112 | 106 | 106 | 104 | 101 | 101 | 101 | 229 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 231 | 231 231 |
| 113 116 | 150 | 150 | 150 | 150 | 150 | 68 | 68 | 78 | 15 | 150 | 150 | 231 | 231 | 68 | 231 | 78 |
| 117 | 173 229 | 97 78 | 173 54 | 15 54 | 173 54 | 15 54 | 173 54 | 173 54 | 173 104 | 173 54 | 231 231 | 15 231 | 15 231 | 15 231 | 15 231 | 33 231 |
| 119 | 228 | 228 | 228 | 228 | 228 | 228 | 150 | 150 | 228 | 228 | 228 | 228 | 150 | 228 | 54 | 54 |
| 121 | 21 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 11 | 150 |

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| 262 | 9 9 | 174 9 | 9 174 | . 9 | 174 | 9 | 9 | . 9 | . 9 | . 9 | 9 | 9 | 84 |
|--------------------|--------------------|--------------------------------|--------------------|---------------------|-----------------------------|---------------------|--------------------|------------|------------|------------|--------------------|------------------------|---------------------|
| 263 265 | 159 159 216 216 | 159 159 165 114 | 159 159 216 101 | 159 101 | 1 59 101 | 159 101 | 1 59 101 | 159 165 | 159 165 | 159 165 | 1 59 114 | 159 165 | 0 0 |
| 266 267 | 21 110 | 21 2 1 97 228 | 21 21 | 21 | 21 | 21 | 100 | 21 | 21 | 21 | 21 | 100 | 78 |
| 268 | 228 228 9 9 | 97 228 97 97 | 228 33 9 9 | 10 27 | 10 231 | 228 27 | 231 183 | 10 9 | 33 228 | 9 | 33 231 | 33 231 | 33 231 |
| 269 | 9 9 | 9 9 | 99 | 9 | 9 | 9 | 9 | 9 | 78 | 78 | 174 | 78 | 231 |
| 270 271 | 33 210 110 173 | 33 173 173 173 | 33 33 173 173 | 33 173 | 210 33 | 210 33 | 173 173 | 210 68 | 210 173 | 33 173 | 33 173 | 33 173 | 210 33 |
| 272 | 165 106 | 106 106 | 78 33 | 106 | 165 | 165 | 165 | 165 | 165 | 165 | 165 | 51 | 78 |
| 273 274 | 106 106 84 84 | 106 106 203 84 | 106 106 84 203 | 106 84 | 106 203 | 106 84 | 106 203 | 106 203 | 106 84 | 106 84 | 106 84 | 106 84 | 106 84 |
| 276 | 9 9 | 203 0 7 9 9 | 21 9 | <u> </u> | 203 | ° 7 | 203 | 203 | ~9 | °7 | <u> </u> | 150 | 150 |
| 280 281 | 138 231 | 231 231 | 231 231 174 174 | 231 | 138 | 231 | 138 | 100 | 231 | 231 | 231 | | 231 |
| 281 | 100 0 0 0 | 0 0 0 138 | 174 174 138 138 | 174 1 38 | 174 138 | 174 138 | 0 100 | 100 138 | 0 100 | 0 0 | 10 174 | 10 0 | 0 0 |
| 289 | 101 101 | 101 21 | 114 216 | 101 | 101 | 101 | 101 | 100 | 101 | 159 | 100 | | 216 |
| 290 291 | 110 138 | 138 110 100 100 | 229 229 100 100 | 229 100 | 54 165 | 229 100 | 78 54 | 100 100 | 54 100 | 84 100 | 110 106 | - 84 106 | 110 106 |
| 292 | 33 33 | 33 33 | 33 33 | 33 | 33 | 15 | 33 | 68 | 33 | 231 | 231 | 231 | 231 |
| 293 296 | 100 100 223 97 | 100 100 68 165 | 210 100 97 27 | 100 97 | 100 100 | 100 165 | 100 100 | 100 100 | 100 100 | 0 223 | 0 68 | 223 | 0 150 |
| 299 | 159 159 | 159 159 | 159 159 | 159 | 27 | 159 | 159 | 27 | 27 | 0 | 0 | 0 | 0 |
| 329 331 | 216 27 228 9 | 27 228 9 231 | 159 216 228 228 | 216 231 | 216 231 | 159 228 | 10 228 | 228 21 | 159 231 | 159 9 | 216 231 | | 216 2 3 1 |
| 332 | 21 21 | 21 21 | 21 59 | 21 | 165 | 21 | 100 | 165 | 9 | 9 | 9 | 21 | 231 |
| 3 33 334 | 33 33 9 9 | 231 231 9 231 | 231 33 9 231 | 33 9 | 78 9 | 33 9 | 231 9 | 231 231 | 9 | 9 9 | 33 9 | 33 9 | 33 33 |
| 335 | 9 9 | 100 231 | 231 231 | 100 | 9 | 231 | 100 | 100 | 231 | 231 | 231 | | 231 |
| 336 338 | 223 223 | 223 223 | 15 78 228 228 | 15 228 | 165 228 | 68 228 | 68 228 | 68 0 | 78 0 | 15 Ø | 68 0 | 150 0 | 78 0 |
| 339 | 101 101 | 216 101 | 101 101 | 33 | 101 | 101 | 101 | 101 | 68 | 216 | 101 | 101 | 216 |
| 340 341 | 159 100 68 54 | 100 27 165 223 | 100 100 54 174 | 21 216 | 1 00 2 3 1 | 100 54 | 100 106 | 33 54 | 231 54 | 231 54 | 33 203 | 231 54 | 231 54 |
| 343 | 165 165 | 165 165 | 165 10 | 165 | $\frac{231}{10}$ | 231 | 165 | 10 | 203 | 203 | 10 | 203 | 106 |
| 358 | 97 173 | 101 101 | 231 101 | 78 | 101 | 101 | 101 | 101 | 138 | 138 | 138 | 138 | 78 |
| 366 367 | 203 203 | 203 203 | 203 203 | 203 138 | 59 1 3 8 | 203 138 | 203 | 203 138 | 203 138 | 203 138 | 203 138 | 106 138 | 106 231 |
| 372 | 231 231 | 203 231 | 231 203 | 231 | 203 | 203 | 231 | 231 | 231 | 203 | 231 | 231 | 231 |
| 373 388 | 78 78 97 27 | 78 78 27 27 | 78 78 27 27 | 78 27 | 78 27 | 78 27 | 78 27 | 78 27 | 78 27 | 78 27 | 78 27 | 78 27 | 78 27 |
| 390 | 106 106 | 106 203 | 203 203 | 106 | 106 | 106 | 15 | 106 | 106 | 106 | 106 | 106 | 106 |
| 391 392 | 27 183 27 27 | 183 183 27 27 | 183 183 27 27 | 138 27 | 138 9 | 183 9 | 138 27 | 138 9 | 138 9 | 27 9 | 27 9 | 27 9 | 27 27 |
| 393 | 106 27 | 27 27 | 27 27 | 27 | 106 | 27 | 27 | 106 | 27 | 106 | 106 | 106 | 106 |
| 394 397 | 138 138 138 138 | 138 138 138 138 | 138 138 138 138 | 138 138 | 138 138 | 1 3 8 138 | 138 138 | 138 138 | 138 138 | 138 138 | 138 138 | 138 138 | 0 231 |
| 399 | 138 138 | 138 138 | 138 138 | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 106 |
| 401 402 | 138 138 27 27 | 138 138 138 138 | 138 138 138 27 | 138 27 | 138 138 | 138 138 | 27 138 | 27 138 | 203 138 | 203 138 | 231 138 | 231 138 | 231 68 |
| 403 | 203 203 | 203 203 | 203 100 | 203 | 203 | 203 | 100 | 203 | 203 | 203 | | 156 | 156 |
| 4 06 414 | 138 138 138 138 | | 100 27 138 138 | 100 1 3 8 | 138 138 | 138 138 | 138 59 | 100 138 | 138 138 | | 138 138 | 1 38 138 | 231 150 |
| 417 | 150 150 | 150 150 | 150 150 | 150 | 150 | 150 | 150 | 138 | 138 | 138 | 138 | 138 | 97 |
| 420 423 | 203 203 | | 203 203 0 223 | 203 223 | 203 223 | 203 223 | 203 223 | 203 223 | 203 223 | 203 223 | 203 150 | 203 223 | 203 0 |
| 426 | 33 231 | 138 33 | 15 15 | 173 | 15 | 15 | 15 | 33 | 15 | 15 | 15 | 15 | 33 |
| 446 449 | 00 5454 | 0 0 104 54 | 0 0 54 54 | | 0 54 | 0 54 | 0 104 | 0 104 | 0 104 | 0 104 | 156 104 | 0 104 | 0 104 |
| 459 | | 228 228 | 51 228 | 228 | 228 | 228 | | | | 173 | | 150 | 0 |
| | | | | | | | | | | | | | |

| 461 463 464 465 466 469 471 472 473 474 486 489 490 491 495 497 507 509 512 513 515 517 521 523 515 517 521 523 530 531 534 536 537 541 544 550 552 554 558 560 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 15\\ 51\\ 101\\ 833\\ 231\\ 37\\ 227\\ 138\\ 216\\ 231\\ 27\\ 27\\ 138\\ 203\\ 231\\ 158\\ 203\\ 231\\ 158\\ 203\\ 231\\ 158\\ 203\\ 231\\ 158\\ 203\\ 297\\ 84\\ 203\\ 27\\ 138\\ 203\\ 297\\ 153\\ 378\\ 378\\ 277\\ 223\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 10$ | $\begin{array}{c} 203\\78\\101\\183\\29\\7\\2138\\203\\12\\231\\10\\203\\231\\106\\783\\203\\7\\106\\78\\333\\180\\68\end{array}$ | $\begin{array}{c} 101\\ 183\\ 231\\ 216\\ 27\\ 97\\ 27\\ 138\\ 203\\ 15\\ 138\\ 203\\ 15\\ 138\\ 203\\ 15\\ 203\\ 15\\ 203\\ 203\\ 183\\ 203\\ 183\\ 203\\ 183\\ 203\\ 183\\ 203\\ 183\\ 203\\ 183\\ 203\\ 183\\ 203\\ 183\\ 203\\ 203\\ 183\\ 203\\ 203\\ 203\\ 203\\ 203\\ 203\\ 203\\ 20$ | $\begin{array}{c} 15\\ 138\\ 101\\ 183\\ 101\\ 138\\ 197\\ 278\\ 106\\ 15\\ 138\\ 106\\ 123\\ 106\\ 183\\ 297\\ 9\\ 51\\ 138\\ 297\\ 9\\ 51\\ 397\\ 339\\ 339\\ 133\\ 2233\\ 183\\ 183\\ 297\\ 9\\ 173\\ 329\\ 339\\ 183\\ 183\\ 297\\ 183\\ 183\\ 183\\ 183\\ 183\\ 183\\ 183\\ 183$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 203\\ 207\\ 138\\ 101\\ 183\\ 237\\ 327\\ 97\\ 138\\ 05\\ 138\\ 138\\ 100\\ 96\\ 238\\ 131\\ 1231\\ 138\\ 138\\ 97\\ 783\\ 732\\ 168\\ 1231\\ 138\\ 138\\ 138\\ 138\\ 138\\ 138\\ 138\\ 1$ | $\begin{array}{c} 203\\153\\101\\183\\29\\9\\78\\8\\0\\3\\29\\13\\8\\4\\13\\10\\2\\9\\16\\2\\20\\3\\7\\8\\29\\7\\3\\8\\29\\7\\3\\2\\2\\2\\3\\2\\2\\3\\2\\2\\3\\2\\2\\3\\2\\2\\3\\2\\2\\3\\2\\3\\2\\2\\3\\2\\3\\2\\2\\3\\2\\3\\2\\2\\3\\3\\2\\3\\3\\2\\3\\3\\2\\3\\3\\3\\2\\3$ | $\begin{array}{c} 203\\15\\30\\1183\\237\\277\\32\\9\\1316\\05\\13\\9\\8\\15\\123\\17\\23\\9\\6\\23\\6\\8\\9\\12\\183\\18\\06\\8\\9\\7\\32\\7\\33\\7\\6\\8\\12\\18\\36\\6\\8\\9\\7\\32\\7\\6\\8\\16\\8\\16\\8\\9\\7\\32\\7\\6\\8\\16\\8\\16\\8\\9\\7\\32\\7\\6\\8\\16\\8\\16\\8\\16\\8\\16\\8\\16\\8\\16\\8\\16\\$ | $\begin{array}{c} 203\\78\\101\\183\\231\\39\\9\\9\\7\\138\\6\\9\\9\\138\\21\\3\\2\\13\\231\\2\\231\\2\\2\\3\\2\\3\\1\\2\\3\\2\\3$ | 271 23392971 2332832329629621897292029621897292123973216 |
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| 549 550 552 554 558 560 561 563 564 565 567 568 570 571 572 574 575 576 577 600 603 604 619 620 | 97 97 78 150 173 33 173 173 104 104 183 27 223 223 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 97 78 106 78 33 183 106 88 4 84 27 183 106 174 101 21 138 106 231 216 216 2165 | 97 173 33 27 223 27 223 106 84 97 183 106 174 165 106 138 106 174 165 106 138 106 231 216 | 97 173 229 333 229 333 2268 1064 231 2183 1064 1745 1388 216 2316 2165 2165 27 | $\begin{array}{c} 229\\ 229\\ 33\\ 229\\ 327\\ 228\\ 106\\ 84\\ 138\\ 106\\ 138\\ 106\\ 138\\ 210\\ 223\\ 109\\ 2231\\ 6\\ 165\\ 165\\ 165\\ 165\\ 165\\ 165\\ 165\\$ | 97 78 378 327 10 68 1064 1383 13888 1388 1388 1388 1388 1388 1388 1388 1388 1388 138 | 97 15 231 229 33 27 223 68 106 84 138 150 174 138 231 138 | 97 173 231 78 327 10 68 106 84 138 138 106 138 231 138 138 138 138 138 138 138 138 138 1 | 97 11 231 783 183 223 106 106 27 1383 183 106 174 138 138 138 1231 231 231 231 231 231 231 231 231 23 | 97237 32116 106998101752362123223212 2017523621232232212 20175236212522232212 20175236212522232212522223221522223221522223221522223222152222232221522222322222222 |

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| 1532 1533 1534 1535 1537 1540 1541 1542 1543 1544 1545 1546 1547 1548 1553 | 229 33 229 210 165 54 106 0 0 101 0 216 138 97 | 110 33 229 174 174 54 77 0 0 0 101 216 138 97 | 150 33 229 210 165 101 173 0 101 101 101 216 138 101 | 110 33 229 33 174 101 173 0 0 101 216 0 101 | 110 33 150 33 174 101 27 0 0 101 216 0 78 | 110 33 231 231 174 101 27 0 0 101 216 0 101 | 110 33 231 54 174 101 27 0 101 101 101 165 77 101 | 110 33 231 174 174 101 27 0 101 101 216 97 101 | 110 33 231 231 174 101 27 0 101 101 101 101 165 97 78 | 110 33 231 231 174 101 270 210 101 210 101 0 165 0 78 | 110 33 33 174 101 27 78 101 15 101 216 0 159 | 228 78 231 33 21 101 27 15 78 101 15 78 216 68 | 228 78 165 110 21 101 27 78 78 101 15 78 216 59 68 | 110 78 165 110 174 210 27 78 101 15 78 216 10 216 | ${}^{110}_{78}_{15}_{110}_{174}_{210}_{27}_{78}_{78}_{101}_{100}_{78}_{216}_{68}$ | $ \begin{array}{c} 110\\ 0\\ 150\\ 110\\ 0\\ 210\\ 51\\ 0\\ 0\\ 0\\ 216\\ 0\\ 68\end{array} $ |
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| 1554 1555 1556 | 228 101 165 | 228 101 165 | 100 101 165 | 100 101 165 | 228 101 165 | 100 101 165 | 100 101 165 | 228 101 223 | 100 101 223 | 100 101 165 | 54 101 223 | 54 101 223 | 54 101 165 | 54 101 223 | 54 101 165 | 231 110 231 |
| 1557 1558 | 0 0 | 0 0 | 101 165 | 101 165 | 101 165 | 101 165 | 101 165 | 101 165 | 101 165 | 216 165 | 101 0 | 216 11 | 216 11 | 216 11 | 101 0 | 0 0 |
| 1559 | 165 | 165 | 101 | 101 | 101 | 101 | 101 | 101 | 165 | Ō | õ | 216 | 216 | 216 | 110 | õ |
| 1562 | 54 | 54 | 54 | 54 | 54 | 54 | 106 | 196 | 78 | 106 | 54 | 78 | 78 | 54 | 54 | 203 |
| 1563 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 78 | 150 | 150 |
| 1564 | 78 | 78 | 78 | 101 | 78 | 78 | 78 | 78 | 78 | 229 | 216 | 216 | 101 | 101 | 101 | 216 |
| 1565 | 150 | 150 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 150 |
| 1570 | 138 | 203 | 203 | 138 | 203 | 68 | 203 | 174 | 229 | 229 | 84 | 156 | 156 | 156 | 156 | 100 |
| 1571 | 110 | 110 | 110 | 203 | 203 | 203 | 203 | 110 | 110 | 110 | 110 | 110 | | 33 | | ğ |
| 1572 | 110 | 110 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 110 | õ |
| 1573 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 216 | 231 | 231 | 231 | 231 | 231 |
| 1574 | 223 | 223 | 223 | 201 | 223 | 201 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 231 | 231 |
| 1580 | - 33 | 33 | 33 | 33 | -33 | 33 | -33 | 33 | - 10 0 | - 10 | - 10 | - 10 0 | - 10 | - 10 | ŏ | ŏ |
| 1581 | 174 | 174 | 33 | ŏ | 33 | 174 | 174 | 174 | ŏ | ŏ | ŏ | ŏ | ŏ | ĕ | ĕ | ŏ |
| 1582 | ÍÓ | 33 | 10 | 10 | 10 | 33 | iiø | ίø | 10 | 10 | 10 | 33 | 228 | 10 | 10 | ıŏ |
| 1587 | 138 | 138 | 138 | 138 | 138 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | íŏ |
| 1588 | . õ | Õ | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 216 | 101 | 101 | iõi | 216 | iõi | ŏ |
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| 1594 | 138 | 138 | 138 | 138 | 138 | ŏ | ŏ | ĕ | ŏ | ŏ | ŏ | 2.0 | - ĭõ | ĩõ | 174 | ŏ |
| 1595 | 33 | 33 | iõi | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 1 0 1 | 101 | 101 | 101 | 110 |
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APPENDIX C3: Country Pattern, Aggregate Commodities, 1961-76.

Aggregated commodities

| commodity | 61 62 | | ountry 64 65 | codes 66 67 | for 68 | years 69 7 | | 7 2 | 73 | 74 | 75 | 76 |
|---|--|--|---|--|---|---|--|--|--|--|---|--|
| $\begin{array}{c} 15\\ 27\\ 44\\ 51\\ 56\\ 68\\ 71\\ 75\\ 79\\ 83\\ 9\\ 101\\ 103\\ 108\\ 116\\ 122\\ 125\\ 136\\ 137\\ 149\\ 164\\ 176\\ 181\\ 197\\ 201\\ 205\\ 210\\ 211\\ 216\\ 222\\ 223\\ 235\\ 44\\ 245\\ 253\\ 258\\ 261\\ 266\\ 268\\ 269\\ 271\\ 276\\ \end{array}$ | $\begin{array}{c} 9 & 9 \\ 21 & 216 \\ 228 & 231 \\ 104 & 104 \\ 9 & 9 \\ 0 & 0 \\ 33 & 33 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 9 & 9 \\ 150 & 150 \\ 173 & 203 \\ 101 & 101 \\ 101 & 101 \\ 101 & 101 \\ 101 & 223 \\ 223 & 223 \\ 102 & 223 \\ 223 & 223 \\ 102 & 223 \\ 223 & 223 \\ 100 & 100 \\ 223 & 223 \\ 101 & 101 \\ 101 & $ | $\begin{array}{c} 216 & 21\\ 228 & 2\\ 104 & 10\\ 21\\ 0 & 3\\ 3 & 9\\ 9\\ 9\\ 138 & 21\\ 10 & 1\\ 33 & 2\\ 150 & 10\\ 173 & 1\\ 203 & 20\\ 21 & 10\\ 173 & 1\\ 203 & 20\\ 21 & 10\\ 174 & 1\\ 101 & 10\\ 223 & 2\\ 27 & 10\\ 229 & 10\\ 229 & 10\\ 223 & 2\\ 174 & 1\\ 223 & 2\\ 106 & 10\\ 223 & 2\\ 106 & 10\\ 101 & 10\\ 1$ | 9 216 2314 9 0 33 9 9 9 21 9 33 10 10 10 10 10 10 10 10 10 10 10 10 10 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 231\\ 210\\ 219\\ 90\\ 21\\ 90\\ 21\\ 10\\ 68\\ 107\\ 22\\ 216\\ 106\\ 107\\ 22\\ 216\\ 106\\ 107\\ 22\\ 106\\ 20\\ 106\\ 22\\ 102\\ 106\\ 223\\ 106\\ 231\\ 231\\ 159\\ 101\\ 101\\ 101\\ 101\\ 101\\ 223\\ 2210$ | $\begin{array}{c} 104 & 10\\ 9 & 214\\ 9 & 214\\ 231 & 23\\ 9 & 7\\ 228 & 1\\ 9 & 9\\ 228 & 1\\ 9 & 9\\ 228 & 1\\ 9 & 9\\ 228 & 1\\ 9 & 9\\ 228 & 1\\ 101 & 10\\ 101 & 17\\ 59 & 101 & 2\\ 216 & 212\\ 216 & 212\\ 216 & 212\\ 2174 & 101 & 10\\ 101 & 1223 & 22\\ 223 & 100 & 1\\ 223 & 223 & 8\\ 100 & 10 & 12\\ 223 & 223 & 8\\ 100 & 10 & 12\\ 223 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 100\\ 122 & 223 & 222\\ 100 & 100\\ 122 & 31 & 100\\ 100 & 100\\ 100 & 100\\ 100 & 100\\ 100 & 100\\ 100 & 100\\ 100 $ | $\begin{array}{c} 5\\ 5\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$ | 223 9 229 214 174 174 174 231 205 231 205 231 101 101 101 223 231 231 231 231 231 231 23 | $\begin{array}{c} 10\\ 10\\ 33\\ 10\\ 9\\ 1223\\ 39\\ 9\\ 10\\ 15\\ 59\\ 15\\ 16\\ 10\\ 12\\ 33\\ 9\\ 9\\ 10\\ 15\\ 9\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 9\\100\\104\\9\\23\\9\\9\\9\\3\\108\\23\\1\\5\\2\\1\\5\\10\\1\\23\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\$ | $\begin{array}{c} 231\\ 231\\ 332\\ 103\\ 233\\ 221\\ 332\\ 103\\ 233\\ 221\\ 335\\ 80\\ 175\\ 152\\ 168\\ 333\\ 20\\ 20\\ 20\\ 20\\ 20\\ 150\\ 2231\\ 231\\ 2231\\ 231\\ 231\\ 231\\ 231\\ 2$ |

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| 549 550 552 554 558 560 564 567 568 569 572 574 572 574 577 603 634 656 6671 677 6892 6933 6982 711 723 754 766 770 771 777 780 788 809 821 826 8692 919 927 751 777 780 782 788 809 826 8692 919 927 751 777 780 782 788 8692 919 927 751 777 780 782 788 8692 919 927 751 777 780 782 788 8692 919 9277 7577 7577 780 782 788 8692 919 9277 9511 977 7577 7577 7577 7577 7577 7577 7577 7577 7577 7580 7777 780 7777 780 7777 780 8277 8677 8677 8677 8677 8677 7777 780 8277 8677 8677 8677 8677 8677 8677 8677 8677 8677 8677 7777 780 7777 780 7777 780 7777 780 8277 8677 8677 8677 8677 8677 8677 8677 8677 8677 8677 8677 8677 8677 8677 8777 7777 780 8777 7777 7777 780 8777 77777 77777 7777 7777 7777 77777 77777 7777 | 97 97 97 97 97 97 97 97 97 97 97 97 97 229 97 97 97 97 97 7 78 150 15 15 173 15 15 78 173 173 229 78 15 173 11 173 33 173 33 33 33 33 106 33 33 33 33 33 21 231 231 231 232 223 223 223 223 223 223 10 27 223 231 223 223 84 84 84 84 84 84 84 106 84 106 106 106 106 106 106 106 106 27 97 97 27 27 27 27 27 27 97 231 138 138 138 138 138 183 183 183 183 183 183 183 183 183 183 | 974 1759 2311 21974 2312 2175 2312 2175 2312 2175 210 2156 2156 2156 2156 2156 2156 2156 2156 |
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| 927 947 951 | 106 106 106 159 106 106 231 231 106 106 106 106 231 106 78 0 0 0 0 0 0 223 0 0 0 0 0 0 0 0 165 165 165 165 165 0 0 0 0 0 0 0 0 0 0 | 7 1 23 2 |

| 994 999 1007 1008 1009 1017 1020 1025 1035 1036 1037 1044 1058 1059 1062 1065 1089 1091 1097 1065 1089 1091 1097 1100 1102 1163 1166 1167 1168 1173 1174 1186 1187 1195 1213 1218 1219 1221 1222 1223 1225 1242 1242 1243 1274 1275 1501 1514 1527 1562 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 9 & 110\\ 9 & 9\\ 10\\ 15\\ 78\\ 68\\ 68\\ 150\\ 231\\ 156\\ 156\\ 156\\ 16\\ 78\\ 106\\ 78\\ 106\\ 78\\ 106\\ 78\\ 106\\ 78\\ 106\\ 78\\ 106\\ 78\\ 106\\ 78\\ 106\\ 78\\ 106\\ 78\\ 106\\ 78\\ 106\\ 229\\ 78\\ 78\\ 0\\ 91\\ 136\\ 156\\ 156\\ 156\\ 138\\ 228\\ 229\\ 78\\ 78\\ 9\\ 138\\ 229\\ 78\\ 78\\ 9\\ 156\\ 156\\ 156\\ 156\\ 156\\ 156\\ 156\\ 156$ | $\begin{array}{c} 9 \\ 10 \\ 106 \\ 156 \\ 231 \\ 231 \\ 231 \\ 231 \\ 231 \\ 231 \\ 231 \\ 231 \\ 231 \\ 231 \\ 231 \\ 231 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 229 \\ 231 \\ 231 \\ 229 \\ 231 \\ 231 \\ 229 \\ 231 \\ 231 \\ 229 \\ 231 \\ 231 \\ 229 \\ 231 \\ 231 \\ 229 \\ 231 \\ 231 \\ 231 \\ 229 \\ 231 \\ 33 \\ 33 \\ 33 \\ 33 \\ 33 \\ 33 \\ 3$ | $\begin{array}{c} 9\\ 10\\ 68\\ 229\\ 231\\ 156\\ 78\\ 97\\ 1231\\ 10\\ 183\\ 78\\ 216\\ 138\\ 78\\ 216\\ 138\\ 229\\ 150\\ 9\\ 150\\ 138\\ 54\\ 100\\ 229\\ 68\\ 54\\ 156\\ 58\\ 110\\ 229\\ 68\\ 54\\ 156\\ 150\\ 229\\ 68\\ 54\\ 156\\ 150\\ 229\\ 54\\ 156\\ 150\\ 228\\ 27\\ 54\\ 156\\ 150\\ 27\\ 54\\ 156\\ 156\\ 27\\ 54\\ 156\\ 156\\ 27\\ 54\\ 156\\ 156\\ 156\\ 156\\ 156\\ 156\\ 156\\ 156$ | $\begin{array}{c} 979\\ 109\\ 22316\\ 22315\\ 2235\\ 783\\ 11\\ 231\\ 109\\ 786\\ 222\\ 578\\ 122\\ 232\\ 678\\ 958\\ 2222\\ 678\\ 1622\\ 222\\ 678\\ 150\\ 953\\ 916\\ 746\\ 150\\ 953\\ 916\\ 746\\ 109\\ 150\\ 953\\ 916\\ 746\\ 109\\ 109\\ 109\\ 109\\ 109\\ 109\\ 109\\ 109$ | $\begin{array}{c}979\\92104\\2231\\578\\2297\\879\\11\\210\\87\\213\\59\\220\\10\\78\\10\\1222\\10\\2221\\2231\\50\\2222\\50\\2231\\50\\2222\\50\\2$ | $\begin{array}{c} 979\\ 156\\ 2231\\ 157\\ 2223\\ 157\\ 2227\\ 97\\ 11\\ 1037\\ 77\\ 219\\ 150\\ 231\\ 100\\ 77\\ 110\\ 177\\ 78\\ 100\\ 97\\ 833\\ 1100\\ 97\\ 831\\ 100\\ 97\\ 831\\ 100\\ 97\\ 831\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 2210\\ 100\\ 2210\\ 377\\ 835\\ 100\\ 220\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$ | $\begin{array}{c} 97984\\ 1096822787\\ 111607822787\\ 1210107886959\\ 2221083666888\\ 1546595315082278\\ 11222210\\ 122108366680\\ 1546595168\\ 150315082746\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 1222250\\ 12250\\ 12250$ | $\begin{array}{c} 97 \\ 9 \\ 104 \\ 102 \\ 157 \\ 231 \\ 1063 \\ 231 \\ 1063 \\ 231 \\ 1063 \\ 231 \\ 1063 \\ 231 \\ 109 \\ 122 \\ 109 \\ 122 \\ 109 \\ 122 \\ 109 \\ 122 \\ 109 \\ 100 $ | $\begin{array}{c} 1569\\ 784\\ 8786\\ 789\\ 783\\ 159\\ 783\\ 121\\ 107\\ 783\\ 121\\ 107\\ 783\\ 169\\ 510\\ 131\\ 923\\ 820\\ 68\\ 7230\\ 960\\ 883\\ 210\\ 960\\ 110\\ 156\\ 883\\ 315\\ 3229\\ 166\\ 100\\ 1156\\ 883\\ 315\\ 3229\\ 166\\ 100\\ 1156\\ 883\\ 315\\ 3229\\ 166\\ 100\\ 1156\\ 883\\ 315\\ 3229\\ 100\\ 110\\ 156\\ 883\\ 315\\ 3229\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 10$ | $\begin{array}{c}156\\9\\785\\231\\156\\231\\157\\239\\78\\239\\78\\21\\21\\20\\7\\7\\0\\136\\9\\5\\228\\21\\9\\238\\21\\0\\6\\2250\\16\\0\\6\\2250\\106\\110\\6\\226\\21\\5\\31\\5\\328\\9\\22\\25\\166\\222\\25\\106\\222\\25\\25\\222\\25\\106\\222\\25\\222\\25\\106\\222\\25\\222\\25\\106\\222\\25\\25\\222\\25\\25\\222\\25\\25\\222\\25\\25$ | $\begin{array}{c} 97901559682379797012160399708339198192228003150353292758\\ 159682379797001202270083391981968221800315031533292758\\ 120222700833919819688821800356033533899758\\ 12022270833919688821800356033533899758\\ 120222708839196888821800356033533899758\\ 120222708839196888821800356033533899758\\ 12022270883919688882180035603353897758\\ 12022270883919688882180035603353899758\\ 12022270883919688882180035603353897758\\ 12022270883919688882180035603353899758\\ 1202227688882180035608035603550353899758\\ 1202227688888218003568035603550352222660\\ 12022276888882180000000000000000000000000000000$ | $\begin{array}{c} 108\\ 878\\ 2 \\ 688\\ 156\\ 0 \\ 1 \\ 787\\ 978\\ 797\\ 1131\\ 2313\\ 2313\\ 2313\\ 2313\\ 2333\\ 2331\\ 481\\ 106\\ 2222\\ 108\\ 231\\ 1503\\ 2311\\ 2222\\ 108\\ 1030\\ 2311\\ 2222\\ 216\\ 833\\ 1150\\ 3311\\ 2222\\ 216\\ 833\\ 1150\\ 3311\\ 2222\\ 216\\ 833\\ 1150\\ 3311\\ 2222\\ 216\\ 833\\ 1150\\ 3311\\ 2222\\ 216\\ 833\\ 1150\\ 3311\\ 2222\\ 216\\ 833\\ 1150\\ 3311\\ 2222\\ 216\\ 833\\ 1150\\ 3311\\ 1533\\ 1150\\ 3311\\ 2222\\ 216\\ 833\\ 1150\\ 3311\\ 1533\\ 1150\\ 3311\\ 1533\\ 1150\\ 3311\\ 1533\\ 1150\\ 3311\\ 1533\\ 1150\\ 2222\\ 216\\ 833\\ 1150\\ 150\\ 150\\ 150\\ 150\\ 150\\ 150\\ 15$ |
|--|--|--|--|---|--|--|---|--|---|---|--|--|---|
| 1514 1527 1540 1553 | 228 228 210 210 106 77 | 228 228 210 210 101 101 | 228 228 210 210 27 27 101 54 203 150 231 231 | 228 210 27 54 150 231 110 101 | 9 216 27 | 228 210 27 | 228 210 27 | 228 210 27 | 228 229 27 | 228 229 27 | 228 229 27 | 228 229 27 | 228 216 210 |

APPENDIX C4: Country Pattern, Aggregate Commodities, 1966-80.

Aggregated commodities

| commodity | 66 E | 57 68 | count 69 7 | | des 1 72 | °r 73 | vears 74 | : 19. 75 | · : 76 | 77 | 78 | 79 | 80 | 81 |
|--|---|--|---|--|--|---|---|---|--|---|--|--|--|---|
| $\begin{array}{c} 15\\ 27\\ 44\\ 51\\ 56\\ 8\\ 71\\ 75\\ 79\\ 83\\ 9\\ 101\\ 103\\ 106\\ 122\\ 56\\ 71\\ 75\\ 79\\ 83\\ 9\\ 101\\ 103\\ 106\\ 122\\ 56\\ 71\\ 103\\ 106\\ 122\\ 56\\ 71\\ 103\\ 106\\ 122\\ 56\\ 71\\ 103\\ 106\\ 122\\ 56\\ 71\\ 103\\ 106\\ 103\\ 106\\ 122\\ 56\\ 210\\ 216\\ 205\\ 222\\ 222\\ 223\\ 54\\ 78\\ 44\\ 52\\ 253\\ 78\\ 91\\ 103\\ 106\\ 102\\ 205\\ 216\\ 222\\ 222\\ 223\\ 235\\ 44\\ 52\\ 253\\ 258\\ 91\\ 266\\ 89\\ 122\\ 266\\ 268\\ 91\\ 276\\ 276\\ 276\\ 276\\ 276\\ 276\\ 276\\ 276$ | $\begin{array}{c} 9\\ 9\\ 9\\ 9\\ 21\\ 33\\ 150\\ 15\\ 203\\ 20\\ 101\\ 10\\ 101\\ 10\\ 216\\ 22\\ 100\\ 223\\ 20\\ 101\\ 101\\ 10\\ 216\\ 223\\ 20\\ 101\\ 10\\ 101\\ 10\\ 101\\ 10\\ 101\\ 10\\ 10$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 216 & 211 \\ 33 & 23 \\ 104 & 10 \\ 9 \\ 0 \\ 33 & 3 \\ 9 \\ 20 \\ 9 \\ 9 \\ 9 \\ 21 \\ 22 \\ 138 \\ 68 \\ 31 \\ 101 \\ 10 \\ 173 \\ 17 \\ 203 \\ 21 \\ 101 \\ 10 \\ 10 \\ 228 \\ 188 \\ 223 \\ 223 \\ 100 \\ 101 \\ 10 \\ 21 \\ 228 \\ 188 \\ 223 \\ 227 \\ 10 \\ 101 \\ 10 \\ 21 \\ 228 \\ 188 \\ 223 \\ 227 \\ 10 \\ 101 \\ 102 \\ 228 \\ 100 \\ 101 \\ 102 \\ 228 \\ 100 \\ 101$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 97\\ 173\\ 59\\ 21\\ 216\\ 174\\ 101\\ 203\\ 54\\ 100\\ 233\\ 100\\ 231\\ 27\\ 101\\ 214\\ 100\\ 223\\ 106\\ 159\\ 2311\\ 206\\ 159\\ 2311\\ 206\\ 101\\ 101\\ 101\\ 216\\ 101\\ 101\\ 216\\ 101\\ 101\\ 231\\ 231\\ 231\\ 231\\ 231\\ 231\\ 231\\ 23$ | $\begin{smallmatrix} 10\\165\\104\\22\\210\\9\\12\\210\\9\\12\\210\\9\\12\\210\\210\\210\\210\\210\\20\\100\\100\\100\\1$ | $\begin{array}{c} 228\\110\\229\\310\\8\\9\\9\\310\\8\\117\\39\\1016\\17\\39\\1016\\17\\39\\210\\3\\106\\8\\117\\32\\20\\10\\10\\12\\22\\210\\3\\10\\10\\10\\22\\22\\210\\3\\22\\22\\210\\5\\22\\22\\210\\5\\22\\22\\210\\5\\22\\22\\210\\5\\22\\22\\210\\5\\22\\22\\210\\5\\22\\22\\22\\210\\5\\22\\22\\22\\22\\210\\5\\22\\22\\22\\22\\210\\5\\22\\22\\22\\22\\210\\5\\22\\22\\22\\22\\210\\5\\22\\22\\22\\22\\22\\22\\22\\22\\22\\22\\22\\22\\2$ | $\begin{array}{c} \textbf{2216} \textbf{223} \\ \textbf{2216} \textbf{223} \\ \textbf{216} \textbf{223} \\ \textbf{216} \textbf{223} \\ \textbf{216} \textbf{223} \\ \textbf{216} \textbf{223} \\ \textbf{233} \\ \textbf{233}$ | $\begin{array}{c} 9\\216\\231\\2104\\213\\3\\9\\9\\21\\0\\81\\23\\3\\9\\9\\21\\0\\81\\2\\3\\9\\9\\1\\2\\1\\2\\1\\2\\2\\9\\0\\9\\0\\9\\0\\9\\0\\9\\0\\9\\0\\1\\5\\1\\1\\1\\1\\1\\0\\2\\2\\0\\6\\1\\2\\1\\0\\1\\0\\1\\0\\1\\0\\1\\0\\1\\0\\1\\0\\1\\0\\1\\0$ | $\begin{array}{c} 9\\ 100\\ 1231\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 3\\ 10\\ 8\\ 10\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\$ | $\begin{smallmatrix} 10 & 334 \\ 9 & 2323 \\ 3 & 9 \\ 9 & 108 \\ 1 & 595 \\ 156 \\ 1 & 106 \\ 1 & 229 \\ 1 & 22 \\ 1 & 22 \\ 1 & 22 \\ 1 & 22 \\ 1 & 22 \\ 1 & 104 \\ 1 & 233 \\ 1 & 22 \\ 1 & 22 \\ 1 & 104 \\ 1 & 22 \\ 1 & 22 \\ 1 & 104 \\ 1 & 106 \\ 1 & 9 \\ 1 & 9 \\ 1 & 231 \\ 1 & 21 \\ 1 & 23 \\ $ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 9\\ 9\\ 0\\ 0\\ 1\\ 0\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\$ | $\begin{array}{c} 231\\ 231\\ 33\\ 231\\ 231\\ 231\\ 233\\ 221\\ 33\\ 221\\ 33\\ 233\\ 58\\ 0\\ 781\\ 233\\ 58\\ 0\\ 781\\ 233\\ 58\\ 0\\ 179\\ 221\\ 68\\ 33\\ 20\\ 0\\ 0\\ 150\\ 231\\ 150\\ 223\\ 781\\ 231\\ 231\\ 333\\ 223\\ 333\\ 200\\ 781\\ 231\\ 333\\ 200\\ 781\\ 200$ |

| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 281 231 282 231 290 101 291 101 293 33 297 223 298 223 299 159 331 159 332 21 334 9 335 33 340 216 341 68 343 165 358 97 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
|---|--|---|---|---|--|
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 367 138 372 231 373 78 388 97 393 106 | 8 138 138 13 1 231 203 23 8 78 78 78 7 183 183 18 6 27 27 27 | 8 138 138 138 1 231 203 231 28 78 78 78 3 183 223 223 27 27 27 27 27 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1381381381381382312312312032312312317878787878782232232232232239710627106106106106 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 397 138 399 138 401 138 402 27 403 203 | 8 138 138 13 8 138 138 13 8 138 138 13 8 138 138 13 7 27 138 13 3 203 203 20 | 8 138 138 138 8 138 138 138 8 138 138 138 8 138 138 138 8 138 27 27 03 203 100 203 | 138138138138138138138138138138138138203203100 | 1381381381381382311381381381381381381062720320323123123113813813813813813868203203203203203156156 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 414 138 417 150 420 203 423 0 | 8 138 138 13 0 150 150 13 3 203 203 20 0 0 0 | 88 138 138 138 50 150 150 150 33 203 203 203 0 0 223 223 | 138 138 59 150 150 150 203 203 203 223 223 223 | 138138138138138150138138138138138138972032032032032032032032232232231502230 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 446 6 449 54 459 228 460 203 463 173 | 0 0 0 4 54 104 3 8 228 228 22 3 84 84 20 3 173 84 8 | 0 0 0 0 54 54 54 54 58 51 228 228 33 84 84 84 34 84 84 84 | 0 0 0 54 54 104 228 228 173 203 84 84 84 84 84 | 0 0 156 0 0 104 104 104 104 104 104 100 150 173 173 150 0 203 203 203 203 203 203 84 84 84 84 84 84 |
| 515 106 27 68 27 27 97 97 10 96 97 < | 489 159 490 21 495 138 497 203 507 231 | 9 159 159 13 1 21 21 3 8 138 138 13 3 203 203 20 1 231 231 23 | 59 159 0 0 21 21 21 21 38 138 138 138 33 203 203 203 31 231 231 231 | 0 0 0 21 21 21 138 138 138 203 203 106 15 231 231 | 0 0 0 0 0 0 0 21 21 21 21 21 59 138 138 138 138 138 231 106 84 84 9 223 84 |
| | 515 106 517 97 521 156 523 106 | 6 27 68 2 7 68 68 6 0 106 150 10 6 106 183 13 | 27 27 97 97 97 58 68 68 68 56 106 68 106 53 203 183 203 | 10 97 10 106 68 68 97 203 106 203 203 183 | 106 97 97 97 97 97 68 68 165 68 68 68 203 231 231 231 231 231 231 183 183 27 68 27 106 |

| 1008 1009 1017 1020 | 9 10 210 106 150 68 2104 78 104 78 104 231 104 231 104 231 104 231 104 231 104 231 104 231 105 231 104 231 104 231 105 231 104 231 105 235 105 255 105 105 105 105 105 105 105 1 | $\begin{array}{c}110\\9\\156\\8156\\156\\2277\\8\\15\\49\\152\\15\\10\\2277\\8\\11\\22\\10\\12\\21\\23\\10\\15\\22\\10\\15\\22\\10\\15\\31\\22\\10\\15\\31\\32\\22\\10\\17\\10\\81\\22\\10\\15\\31\\53\\22\\10\\71\\23\\10\\22\\10\\23\\10\\22$ | $\begin{array}{c} 9 \\ 9 \\ 9 \\ 158 \\ 156 \\ 174 \\ 9 \\ 104 \\ 104 \\ 104 \\ 104 \\ 222 \\ 7 \\ 9 \\ 156 \\ 115 \\ 106 \\ 159 \\ 138 \\ 210 \\ 65 \\ 73 \\ 156 \\ 45 \\ 73 \\ 156 \\ 159 \\ 328 \\ 210 \\ 101 \\ 720 \\ 201 \\ 108 \\ 108$ | $\begin{smallmatrix} 110 & 9 & 0 \\ 9 & 0 \\ 8 & 2316 & 0 \\ 2231 & 202 & 10 \\ 227 & 2132 & 10 \\ 227 & 2132 & 10 \\ 227 & 2132 & 10 \\ 22132 & 2132 & 2132 \\ $ | $\begin{array}{c} 10 \\ 9 \\ 106 \\ 231 \\ 156 \\ 215$ | $\begin{array}{c} 9 \\ 9 \\ 9 \\ 15 \\ 223 \\ 15 \\ 223 \\ 15 \\ 223 \\ 10 \\ 222 \\ 316 \\ 222 \\ 316 \\ 222 \\ 316 \\ 222 \\ 316 \\ 213 \\ 213 \\ 33 \\ 916 \\ 216 \\ 97 \\ 106 \\ 807 \\ 216 \\ 97 \\ 106 \\ 915 \\ 328 \\ 21 \\ 23 \\ 100 \\ 807 \\ 106 \\ 915 \\ 328 \\ 21 \\ 21 \\ 32 \\ 100 \\ 21 \\ 100 \\ $ | $\begin{array}{c} 979\\ 0829\\ 2231\\ 158\\ 9\\ 123\\ 103\\ 187\\ 78\\ 132\\ 9\\ 159\\ 135\\ 9\\ 159\\ 138\\ 100\\ 687\\ 231\\ 022\\ 654\\ 156\\ 9\\ 150\\ 210\\ 256\\ 110\\ 2210\\ 256\\ 110\\ 2210\\ 256\\ 110\\ 2210\\ 256\\ 231\\ 100\\ 256\\ 150\\ 256\\ 231\\ 100\\ 256\\ 256\\ 231\\ 100\\ 256\\ 256\\ 231\\ 100\\ 256\\ 256\\ 231\\ 100\\ 256\\ 256\\ 231\\ 100\\ 256\\ 256\\ 231\\ 100\\ 256\\ 256\\ 231\\ 100\\ 256\\ 256\\ 231\\ 100\\ 256\\ 256\\ 231\\ 100\\ 256\\ 256\\ 256\\ 231\\ 100\\ 256\\ 256\\ 256\\ 256\\ 256\\ 256\\ 256\\ 256$ | $\begin{array}{c} 9790\\ 1092231600348311\\ 22235783112\\ 10077816359122267\\ 122226778122\\ 10077816359122267\\ 1222267781222267\\ 122222678315922267\\ 122222678315922267\\ 122222678315922267\\ 122222678315922267\\ 122222678315922267\\ 122222678315922267\\ 122222678315922267\\ 122222678315922267\\ 1222226783159222267\\ 1222226783267\\ 1222226783159222267\\ 122226783159222267\\ 122226783267\\ 122226783267\\ 1222226783267\\ 1222226783267\\ 1222226783267\\ 1222226783267\\ 122222678222267\\ 122222678222267\\ 122222678222267\\ 1222226782222267\\ 1222226782222267\\ 122222678222267\\ 1222226782222267\\ 1222226782222267\\ 1222226782222267\\ 1222226782222267\\ 1222226782222267\\ 1222226782222267\\ 1222226782222267\\ 1222226782222267\\ 122222678222267\\ 122222678222267\\ 122222678222267\\ 122222678222267\\ 122222678222267\\ 122222678222267\\ 122222678222267\\ 122222678222267\\ 122222678222267\\ 122222678222267\\ 122222678222267\\ 12222267822226722267\\ 12222267822226722267222267\\ 1222226782222672226722226722226722226722222672222267222222$ | $\begin{array}{c} 97992449\\223168279787117007886859520212620122602112602315322027578712007721315952007000000000000000000000000000000000$ | $\begin{array}{c} 979\\ 156\\ 2231\\ 157\\ 2227\\ 787\\ 212\\ 103\\ 788\\ 227\\ 911\\ 210\\ 177\\ 788\\ 91\\ 223\\ 152\\ 783\\ 338\\ 110\\ 97\\ 781\\ 100\\ 97\\ 831\\ 100\\ 97\\ 831\\ 100\\ 97\\ 831\\ 100\\ 2210\\ 377\\ 315\\ 102\\ 210\\ 210\\ 377\\ 315\\ 102\\ 210\\ 210\\ 210\\ 210\\ 210\\ 210\\ 210$ | $\begin{array}{c} 979\\784\\109\\157\\227\\787\\12\\106\\0\\78\\227\\787\\12\\106\\0\\78\\219\\23\\2206\\1836\\61\\838\\210\\83\\210\\83\\156\\21\\83\\210\\83\\156\\21\\9\\15\\46\\15\\31\\50\\210\\7\\46\\21\\210\\21\\21\\21\\21\\21\\21\\21\\21\\21\\21\\21\\21\\21\\$ | $\begin{array}{c} 979\\ 104\\ 102\\ 156\\ 807\\ 231\\ 1236\\ 1236\\ 231\\ 2316\\ 106\\ 178\\ 2316\\ 909\\ 122\\ 783\\ 916\\ 838\\ 909\\ 1536\\ 156\\ 157\\ 335\\ 3229\\ 162\\ 109\\ 1536\\ 156\\ 157\\ 335\\ 3229\\ 162\\ 109\\ 1536\\ 156\\ 157\\ 335\\ 3229\\ 162\\ 109\\ 156\\ 156\\ 157\\ 335\\ 3229\\ 162\\ 109\\ 156\\ 156\\ 157\\ 335\\ 3229\\ 162\\ 109\\ 156\\ 156\\ 156\\ 156\\ 156\\ 156\\ 156\\ 156$ | $\begin{array}{c} 1569\\ 784\\ 878\\ 1569\\ 783\\ 159\\ 783\\ 121\\ 1063\\ 783\\ 121\\ 1063\\ 783\\ 121\\ 1063\\ 783\\ 121\\ 1063\\ 783\\ 121\\ 108\\ 108\\ 109\\ 223\\ 220\\ 108\\ 783\\ 220\\ 96\\ 108\\ 783\\ 220\\ 96\\ 108\\ 108\\ 783\\ 220\\ 96\\ 108\\ 108\\ 783\\ 220\\ 210\\ 96\\ 108\\ 108\\ 220\\ 210\\ 96\\ 108\\ 108\\ 220\\ 220\\ 108\\ 108\\ 108\\ 108\\ 108\\ 108\\ 108\\ 10$ | $\begin{array}{c} 1569\\ 785\\ 231\\ 156\\ 231\\ 121\\ 1063\\ 78\\ 131\\ 109\\ 128\\ 2131\\ 19\\ 228\\ 2106\\ 229\\ 156\\ 229\\ 106\\ 220\\ 200\\ 200\\ 200\\ 200\\ 200\\ 200\\ 2$ | $\begin{array}{c} 97901559682378797012166399701339198192228002216508003150353292758200000000000000000000000000000000000$ | $\begin{smallmatrix} 108\\ 888\\ 710\\ 878\\ 156\\ 0\\ 1978\\ 797\\ 910\\ 1231\\ 2057\\ 80\\ 1333\\ 148\\ 710\\ 10222\\ 108\\ 108\\ 201\\ 108\\ 201\\ 108\\ 1030\\ 1030\\ 1033\\ 110\\ 2032\\ 212\\ 216\\ 0331\\ 115\\ 3311\\ 2222\\ 216\\ 0331\\ 232\\ 2333\\ 233\\ 233\\ 233\\ 233\\ 233\\$ |
|------------------------------|---|---|--|---|--|---|--|--|---|--|--|--|--|--|--|---|
|------------------------------|---|---|--|---|--|---|--|--|---|--|--|--|--|--|--|---|

| APPENDIX D: Commodity Codes and Text. |
|---|
| oereals nes infant food wafers flour of oereals cereal prep nes polatos staroh polato staroh polato tapioca sweet polatoes flour of oassava cassava dried cassava dried cassava starch taro (coco yam) yams flour of roots and tubers nes flour of roots and tubers roots and tubers nes flour of roots and tuber sugar (concertingal, raw) sugar flour of sugar sugar on ent sugar on tubers nes sugar on the sugar on the sub on the sugar on the sub on t |
| oereals nes mafers flour oereal bran cereal cor prep nes flour potato flour potato sweet potato flour potat casssava flour potato sweat potato flour potat cosssava flour potato sweat potato casssava flour ots sweat potato sweat potato beet put dr beet sugar, o beet put pot swear nes swear nes swear one swear one beet put pot beet vor beet put pot beet vor beet put pot beet put pot beet put pot beet vor beet put pot beet pot beet pot beet pot beet put pot beet pot be |
| 00000000000000000000000000000000000000 |
| population macroeconomios two total trade land use irrigation land use four of wheat fraid breat flour of wheat breat breat pastry wheat flour of wheat breat flour of wheat breat flour of wheat flour of maize of rice breat flour of rice breat flour of maize oil of rice breat flour of maize oil of maize breat flour of maize oil of maize breat flour of maize oil of sorghum breat flour of but breat flour of mixed grain |
| population macroscon.1 total trade irrigation land use flour wheat flour wheat flour wheat flour wheat flour wheat flour wheat flour wheat flour mais flour roe flour roe flour roe flour rye flour rye flour rye flour rye flour rye flour rye flour rye flour rye flour millet flour willet flour willet flour set flour willet flour rye flour rye flour rye flour rye flour set flour set flour rye flour rye flour rye flour set flour millet flour willet flour millet flour with flour millet flour millet flour millet flour flour seed flour flour seed flour flour wheat flour millet flour millet |
| 0000 0000 0001 0001 0001 0001 0001 000 |

APPENDIX D: Commodity Codes and Text.

| on seed ed eed seed seeds f oilseeds atoes oes | gour rkins greee green drie ns ns ns | juice of vegetables nes vegs pr by vinegar 55.51 vegs pr nes vege tables frozen vege tables frozen vegs in temp preservativ bananas oranges oranges juice of oranges juice of oranges fruit juice grapefruit and pometo grapefruit juice citrus fruit juice apples oider pears |
|--|--|--|
| cake cotton linseed oil linseed cake linseed hempseed oil hempsd oil vg or ns cak oilsd ns cal oilsd ns cabbages artichokes artichokes lettuce spinach tomato paste peeld tomato cauliflower | | juice veg ns vegs dehydr vegs pr negar vegs pr negar vegs tenp pr vegs tenp pr vegs tenp pr vegs tenes juice orange juice orange langerines grapefruite stapefruite citrus juice e apples pears pears |
| 0332 0332 0332 03335 03335 03356 03358 0358 0 | 0394 0394 0394 0400 0400 04174 0400 04174 0400 04174 0400 04174 0400 04174 0400 0400 | 0466 0471 0471 0471 0473 0474 0499 0499 0509 0509 0512 0513 0513 0513 0513 0513 |
| | ves, preserved ite nuts (shea ler of karite tor beans flower seed of castor bea of castor bea of castor bea of castor bea of castor bea of castor bea of rapeseed ve residues of residues of residues a nuts of safflower e of safflower e of safflower | oil of sesame seed cake of sesame seed mustard seed oil of nustard seed oil of poppy seed cake of poppy seed melonseed tallowtree seeds vegetable tallow stillingia oil kapokseed in shell kapokseed shellud cil of kapok cake of kapok cake of kapok cottonseed oil of cotton seed |
| reprd n il soyas ake soya cya passoy cya passoy roundnu il grou ake cur opra il coco il coco il coco il roco il roco il roco il roco il roco il roco il roco il roco il vest | rectories of the second | in the second se |
| 0233 0233 0233 0233 0233 0233 0233 0233 | 0261 0263 0263 0265 0265 0265 0270 0271 0271 0271 0275 0272 0275 0272 0275 0272 0275 0275 | 0290 0291 0291 0293 0293 0296 0305 0305 0311 0311 0312 0312 0313 0312 0313 0312 0313 0312 0313 0312 0312 |

| dregs from brewing+dist. vegetables+roots,fodder coffee, green coffee subst cont coffee ooffee extracts cocoa beans cocoa pavder cocoa pavder | <pre>n s s s s s s s s s s s s s s s s s s s</pre> | leed suplements non protein nitrogens |
|--|--|--|
| 0654 dregs,br+dis 0655 veg root fod 0656 coffee,green 0657 coffee,green 0659 coffee subst 0661 cocua beans 0663 cocoa pawder 0663 cocoa paste | 44444833835555558888557473755828885557575 44445585885555558888557477755582888555757575 | USSU reed sup 0851 nonprot nitr |
| quinces apricots sour cherries cherries peaches and neotarines plums, dried (prunes) stome fruit nes, fresh strawberries | Lucrants Lucran | |
| quinces apricots sour cherry cherries peaches plums, dried stone fruit pome fruit | コートのコーサのの「「「」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」 | oud we |

| hides wet-salted buffal hides dry-salted buffal indigenous buffalo meat biological buffalo meat lambs lamb meat sheep mutton and lamb offals of sheep, edible fat of sheep sheep milk butter+ghee (sheep milk cheese of sheep milk wool, greasy | wool, scoured srease incl lanolin wool skin dry-salted sheep skin dry-salted sheep skin nes sheep skin nes sheep skin with wool sheep wool shoddy hair carded or combed wool sheep meat indigenous sheep meat biological sheep meat kids meat goats goat meat | edibl i1k i1k goats |
|--|---|---|
| | | 0 0 1 als goats 0 0 1 als goats 1 0 0 goat with 8 0 at of goats 9 0 0 fals pigs 9 0 0 fals pigs 9 0 0 gigs 9 0 0 0 gigs 9 0 0 gigs |
| , nes 0958 0959 0972 0974 0975 0976 0976 0978 0978 0983 0983 0983 0983 0983 0983 | ed sh edd sh | ٥ |
| er concentrates auns audis additives additives additives (clover, lucern (unspecified) de pasture tryved pasture ves ves tryved als of cattle, ot to tettle, | and veal, bone dried sal t sun extracts ages beef and preparations of whole, f milk, whole, f n'from ouw milk (from ouw milk (from ouw milk ondensed milk, conden milk, conden milk, conden milk, conden milk, conden | A contract of the contract of |
| | overse verse vers | |
| 855 855 855 855 855 855 855 855 855 855 | 00000000000000000000000000000000000000 | 0899 0899 0899 0899 0899 0899 09955 000000 00000000 |

crude organic materls 29 seeds fruits spores pl spermaceti other chlor hydrocarbons other botanical insectio aldrin and sim insectic carbamates insecticide oth org phosph insectic hides+skins nes. fresh leather used and waste tractors agric crawler nargarine + shortening food wastes prep feed oils boiled etc oils hydrogenated at preparations nes tractors agric wheel protein concentrates soil machinery silk, raw and waste cocoons, unreelable harvester-threshers oils fish mar mamm tractors agric tot other insecticides cuccons, reelable agr machinery nes dinitro compounds dithiocarbamates ard stearine oil fatty acids oils hair fine animal milking machines uther herbicides hide wet-sulted hide dry-salted hide nes garden tractors hair coarse nes other fumigants res fatty subst chlorbenzilate foud prep nes fenitrothion mineral oils tractors all arsenicals fur skins pyrethrum toxaphene parathion WAXES VES malathion bromides lindane XHWS990 willow degras d d t b h c other herbioid other chlorin oils hydrogn fatty acids oarbamates i hides nes fr leather used org phos oth ats prep ns agr mach nes ractors tot iractors crw harv thresh milking mush fenitruthion bot insc oth dinitro comp dithiocarbam garden tract chlorobenzil bot insc pyr oth fumigant tractors whi coccon reel ood wastes oils builed res fatty s org mat 29 ractors all hair coarse other insect aldrin etc oocoon unr fur skins spermaceti arsenicals miner oils silk, raw hair fine oils fish ood prep soil mach parathion malathion hide ds hide nes margarine oxaphene WAXES VES stearine bromides hide ws protein XBWSOOD lindane allow degras ہ لا seeds d d ____ 333554233312 331 eggs dry whole yolks hen hides unspecified horses animal oils and fats nes hurse hides, fresh hides wet-salted horses hides dry-salted hurses eggs, excluding hen eggs eggs, exc hen eggs (no) indigenous chicken meat biological chicken meat meat of camels uffals of camel, edible hides wet-salted camels at of poultry at of poultry rendered hides dry-salted camels ndigenous turkey meat biological turkey meat indigenous camel meat ndigenous geese meat biulõgical camel meat ??????? biological geese meat biological horse meat poultry t (exel hen) indigenous horsemeat indigenous mule meat biological mule meat indigenous ass meat biological ass meat indigenous duckmeat bivlogical duckmeat camel hides, fresh meat prepared nes live animals nes hides unsp camel eggs liquid hen hair of horses meat,dried,nes fat of camels hen eggs (no) offals nes camel milk hursemeat game meat ish meal meat meal meat nes hen eggs beehives urkeys 2222222 horses CHINELS ducks geese ASSeS mules 99999 honey ind horsemeat hides w camel eggs ex hen oth egg (no) ind chokmeat hides d camel iv camelment eggs dry hen nd geesmeat hide w horse hide d horse at r poultr poultry meat hide y horse bic ass meat ind mulemeat bio mulemeat offals camel nd camimeat meet dry nes ind duckmeat bio duckmeat bio geesmeat nd turkmeat bio turkmeat bio chokmeat bio horsmeat ind ass meat hide u camel at poultry nen eggs no nair horses horse hides hides camel animals nes meat pr nes oils animal meat camel camel milk hen offals nes nursemeat game meat fat camel ish meal meat meal meat nes beehives 5880 urkevs ~~~~~~~ 64.4.4.4.6 norses camels eggs ducks BSSBS mules 22229 gese loney 100 1072 1077 1078 1079 087 065 066 **0**89 091 092 094 0960 060 098 102 102 102 140 141 062 063 064 067 068 070 088 095 07

| io acid ural lime combust engin combust engin combust engin composition ier frozen whol ier frozen whol ier frozen whol ier cured ier cured ier cured ier need frozen whole frozen whole frozen whole frozen ener frozen ener illets marine fish fr frozen ener illets inter inte | pelagic marine fish frsh pelagic frozen khole pelagic frozen fillets pelagic cured pelagic cured pelagic cured pelagic canned pelagic meals pelagic neal from offal marine nes frozen whole marine nes frozen whole marine nes frozen fillet marine nes canned marine nes pody oils marine nes body oils marine nes frozen crustaceans fresh crustaceans fresh crustaceans cured crustaceans fresh crustaceans frozen muluses exol cephlp frsh molluses cured muluses exol cephlp frsh |
|---|--|
| sulphur acid agric lime gypsum int comb eng electr motor frwtr fillet frwtr fillet frwtr cured frwtr pr nes frwt livet frwt livet frwt live frwt live dmrsl fresh dmrsl fresh dmrsl cured dmrsl cured dmrsl canned dmrsl resh dmrsl canned dmrsl canned dmrsl resh dmrsl canned dmrsl resh dmrsl canned dmrsl resh dmrsl canned dmrsl resh dmrsl canned dmrs lev oil dmrs voil dmrs nee dmrs ne dmrs nee dmrs nee dmrs nee dmrs nee dmrs nee dmrs nee dmrs n | pelagic frsh pelge filt pelge filt pelge filt pelge cured pelge cured pelge cured pelge pr nes pelg hvr oil pelg whi pelg whi pelg whi pelg whi pelg vr oil marine fr whi marine fr whi marin fillet marin pr nes marin pr nes marin pr nes crste frozen crste cured of marin pr nes marin meal of crste cured of marin pr nes crste cured of marin pr nes crste cured of crste frozen of frozen mallusos frozen mallusos frozen |
| 1406 1406 1406 1416 1416 1416 1416 1416 | 1522 1523 1523 1523 1523 1523 1524 1525 1524 1525 1524 1525 1525 1525 |
| ot o | calcium nitrate calcium cyanide urea aumonium phosphate (n) other nitrogenous fert oth complex fert (n) ammonia dir application calcium ammonium nitrate nitrogen fertilizers nes phosphate fertilizers nes phosphate fertilizers single superphosphate concent superphosphate basic slag ammonium phosphate fertil other phosphate fertil phosphate fertilizers polassium sulphate muriate over 45 k20 muriate over 45 k20 muriate over 45 k20 muriate over 45 k20 muriate salts to 20 k20 other potash fertilizers polassi fertilizers nes natural phosphates natural phosphates fertilizers nes fertilizers nes fertilizers organic ammonia phosphoric acid |
| | calcium nitr calcium oyan urea amm phosph n other nitr fer oth compl n admonia d ap calc am nitr nit fert nes phosphfertlz sing superph basic slag amm phosph p other phos fer oth compl p othes suph muria 20-45 crude salts oth pot fert nes phosphat nat fert m es nat sod nitr phosphat nat fertil organ phosphat nat fertil organ |
| 63333555555555555555555555555555555555 | 4401 4401 4400 4400 4400 4400 4400 4400 |

| molluscs canned molluscs meals molluscs meals rephalopods fresh cephalopods frozen cephalopods cured cephalopods canned cephalopods meals cephalopods meals foffal aquatic mammals aquatic mammals aquatic mammals aquatic mammals aquatic mammals aquatic mammals aquatic mammals aquatic mammals aquatic mammals aquatic animals aquatic animals attractanic att | tic plant tic plant ery total |
|--|---------------------------------------|
| molse canned mols meals mols meal of cephip fresh ophip frozen cphip prode cphip praned cphi meals cphi meals cphi meals aq m meals aq m meals aq m meals aq m oils aq a meals aq to anim f aq a meals aq a meal of aque o ns aq a meal of aque o fants | q p dried q p prep n ish tot va |
| 1565 1566 1566 1567 1571 1571 1572 1576 1576 1576 1576 1576 1576 1588 1588 1588 1588 1588 1588 1589 1589 | 1595 1596 1599 |

APPENDIX E: FAP countries (* = FAP4)

| | EEC and Japan | | Developing Asia |
|----------|---|-----------|------------------------|
| 15 54 | Belgium - Luxembourg (*) Denmark (*) | 16 100 | Bangladesh India(*) |
| 68 | France (*) | 101 | Indonesia(*) |
| 78 | Federal Rep. of Germany (*) | 102 | Iran |
| 104 | Ireland(*) | 103 | Iraq |
| 106 | Italy(*) | 116 | Korean Democr. Rep |
| 110 | Japan(*) | 165 | Pakistan(*) |
| 150 | Netherlands(*) | 171 | Philippines |
| 229 | UK(*) | 216 | Thailand |
| 888 | Total EEC | | |
| | CMEA | | Latin America |
| 27 | Bulgaria(*) | 9 | Argentina(*) |
| 51 | Czechoslovakia(*) | 21 | Brazil(*) |
| 77 | German Democratic Republic(*) | 138 | Mexico(*) |
| 97 | Hungary(*) | 170 | Peru |
| 173 | Poland(*) | 236 | Venezuela |
| 183 | Romania(*) | | |
| 228 | USSR(*) | | |
| 777 | Total CMEA | | |
| | Rest of Europe | | Other Countries |
| 11 | Austria(*) | 10 | Australia(*) |
| 67 | Finland(*) | 33 | Canada(*) |
| 84 | Greece(*) | 41 | China(*) |
| 162 | Norway | 156 | New Zealand(*) |
| 174 | Portugal(*) | 202 | South Africa |
| 203 | Spain(*) | 231 | USA(*) |
| 210 | Sweden(*) | | |
| 211 | Switzerland | | |
| 223 | Turkey(*) | | |
| 248 | Yugoslavia | | |
| | Developing Africa | | |
| 4 | Algeria | | |
| 59 | Egypt(*) | | |
| 62 | Ethiopia | | |
| 114 | Kenya(*) | | |
| 143 | Morocco | | |
| 159 | Nigeria(*) | | |
| 206 | Sudan | | |
| 212 | Syria | | |
| 215 | Tanzania | | |
| 222 | Tunisia | | |