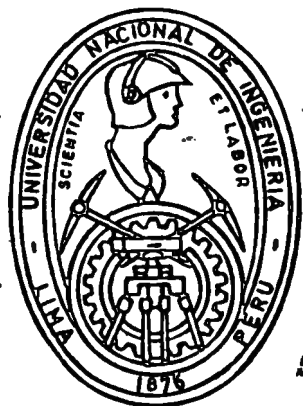


# **UNIVERSIDAD NACIONAL DE INGENIERIA**

Programa Académico de Ingeniería Económica



## **Titulación Profesional Extraordinaria**

### **TRABAJO PROFESIONAL**

Para optar el Título de:  
**INGENIERO ECONOMISTA**

**JESUS EDUARDO DEL SOLAR SANGA**

**Lima - Perú**  
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UNIVERSIDAD NACIONAL DE INGENIERIA  
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TITULACION PROFESIONAL EXTRAORDINARIA  
TRABAJO PROFESIONAL PARA OPTAR EL TITULO DE  
**INGENIERO ECONOMISTA**

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Lima - Perú  
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## PRESENTACION

Cumpliendo con los requisitos que figuran en el Reglamento del Programa de Titulación Profesional Extraordinaria, y tras haber sido aprobado el Informe Descriptivo del Suscrito, se presenta el Trabajo Profesional denominado: "Aspectos Metodológicos para la Utilización de la Matriz Insumo-Producto de la Economía Peruana 1973: Tratamiento de la Comisión Imputada", a ser sustentada en fecha próxima.

El mencionado documento ha sido elaborado por Juan Claudio Higa Tamashiro, actualmente laborando en COFIDE, y por el suscrito en la Dirección de Métodos Cuantitativos de la Dirección General de Planificación Económica, Instituto Nacional de Planificación.

Este trabajo se ha realizado dentro del marco de las tareas preparatorias de las Tablas de Insumo-Producto de la Economía Peruana 1969 y 1973, las cuales deben quedar expeditas para dar comienzo al Proyecto "Aplicaciones de Insumo-Producto". Dicho proyecto se llevará a cabo a través de un Convenio de Cooperación Técnica con la República Federal de Alemania.

Para poder jugar con la Matriz de Absorción hicimos las modificaciones necesarias a un programa de cómputo elaborado en el Proyecto "Tabla Insumo-Producto" y utilizamos la minicomputadora WANG VS - 2200 que nos proporcionó graciosamente el Instituto Nacional de Estadística. Por otro lado, para trabajos menores tales como la simulación de los casos hipotéticos y los ordenamientos de los sectores según sus multiplicadores se hizo uso de la minicomputadora Hewlett-Packard HP-9830 A que nuestra Institución posee.

DIRECCION GENERAL DE PLANIFICACION ECONOMICA

INFORME Nº 007-82/INP-DGPE-CC

ASPECTOS METODOLOGICOS PARA LA UTILIZACION DE LA MATRIZ INSUMO  
PRODUCTO DE LA ECONOMIA PERUANA 1973 : TRATAMIENTO DE LA COMI-  
SION IMPUTADA

Lima, Setiembre de 1982.

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INFORME N° 009-82/INP-DGPE-CC

ASPECTOS METODOLOGICOS PARA LA UTILIZACION DE LA MATRIZ INSUMO  
PRODUCTO DE LA ECONOMIA PERUANA

1973 : TRATAMIENTO DE LA COMISION IMPUTADA

I. INTRODUCCION

Las Tablas Insumo Producto de la Economía Peruana año 1973 que el INP ha elaborado, tienen como base metodológica las recomendaciones incluidas en la última revisión del Sistema de Cuentas Nacionales de las Naciones Unidas 1/, con las adecuaciones pertinentes a las características particulares de la economía peruana.

En el sistema de Contabilidad Nacional de las Naciones Unidas se consideran dos clases principales de agentes de las transacciones: a) las unidades productivas, que tienen relación con la corriente de bienes y servicios, y son aplicables a las cuentas de producción, gastos de consumo y formación de capital, y b) las unidades de financiación, que se relacionan con las corrientes financieras, aplicables a las cuentas de ingresos y gastos y de financiación del capital. 2/

En las unidades productivas se adoptan principalmente decisiones de producción, centrándose el interés en los centros de trabajo, o establecimientos, en los que se toman la mayoría de las decisiones concernientes a ella. En las unidades de financiación, como su nombre lo indica, se toman decisiones referentes al financiamiento de los gastos corrientes y de capital; en este caso, las unidades de financiación frecuentemente abarcan más de una unidad de producción.

Un caso especial lo representan los intermediarios financieros, es decir, las unidades que primordialmente se dedican a emitir pasivos y adquirir activos financieros en el mercado; representando las ventas de servicios como tales un porcentaje menor de su actividad; sin embargo, a éstas se le incluyen en las unidades de la producción (Industrias) 3/, y por supuesto tendrán un lugar entre las unidades de financiación, necesitando, por tanto, ajustes particulares para su tratamiento en la matriz insumo-producto.

- 1/ Naciones Unidas, " Un Sistema de Cuentas Nacionales " Estudios de Métodos " Serie F N 2 Rev. 3. Nueva York, 1970
- 2/ Ibid, p. 74.

El propósito del presente informe es precisar las recomendaciones metodológicas internacionales referentes al sector financiero, y más específicamente las vinculadas al tratamiento de la Comisión Imputada; cómo estas recomendaciones se han aplicado en la elaboración de las Tablas Insumo-Producto de la Economía Peruana 1973; y finalmente cómo estas recomendaciones, totalmente válidas dentro del terreno contable/estadístico, han generado dificultades adicionales al momento de la utilización de estas Tablas de Insumo-Producto en modelos de programación económica, esbozándose una posible solución a estos problemas.

## II. RECOMENDACIONES INTERNACIONALES PARA EL TRATAMIENTO DE LA COMISION IMPUTADA.

Los establecimientos dedicados a la prestación de servicios financieros, realizan un conjunto de transacciones económicas a las que es preciso darle un tratamiento particular, para poder cuantificar adecuadamente su valor bruto de producción (VBP), pues, si se trataran como los restantes sectores, económicos, los ingresos de los intermediarios financieros estarían constituidos por las comisiones recibidas por los servicios prestados que sólo lo representan una pequeña porción de sus ingresos, ya que sus actividades están principalmente financiadas por la diferencia entre la renta de la propiedad que reciben y que pagan, o sea, los intereses pagados por el dinero que sus clientes, depositan en estas instituciones.

Entonces, de darse a los bancos e instituciones financieras el mismo tratamiento que a los restantes sectores de la actividad "Industrias", el superávit bruto de explotación y hasta el valor agregado bruto podrían resultar negativos.

Por esta razón y de acuerdo a las recomendaciones internacionales contenidas en el nuevo Sistema de Cuentas Nacionales de las Naciones Unidas, el valor bruto de producción de los intermediarios financieros se calcula adicionando a los servicios que se prestan con pago explícito, el monto resultante de la diferencia entre los intereses cobrados y los pagados. Mediante este sistema, se imputa el valor de los servicios prestados por los intermediarios financieros, incluyéndose así su valor agregado. Sin embargo, como el valor agregado del resto de actividades económicas incluye asimismo el monto de intereses pagados menos los recibidos, la imputación efectuada en el sistema bancario duplica su contabilización en el valor agregado por esta actividad en la economía.

Para solucionar este problema, de acuerdo a las recomendaciones internacionales mencionadas, se debe crear una columna adicional en la matriz de transacciones intermedias denominada Industria Ficticia, donde se asienta como consumo intermedio en la intersección con la fila Comisión Imputada, también especialmente creada, el monto total correspondiente a los servicios financieros imputados.

El registro de las comisiones reales que cobra el sector financiero y las compras de consumo intermedio que realizan, se efectúa en forma similar al registro del resto de actividades económicas.

Simultáneamente en la columna Industria Ficticia se computa un valor agregado negativo, equivalente al monto de los servicios bancarios sin pago explícito, que corrige la duplicación aludida anteriormente, y permite saldar en cero el valor de producción de esta columna manteniendo la igualdad de filas y columnas de la matriz.



De esta manera, se evita las dificultades del sistema anteriormente aplicado en donde se asignaba, a veces, en forma arbitraria la cantidad imputada entre las industrias, el gobierno y los hogares. Para efectuar tales cálculos, era de uso común emplear la estadística de saldos de "préstamos bancarios" por actividad económica, que por regla general se elaboran en los países.

Estas compilaciones se originan en las declaraciones efectuadas por los tomadores del dinero bancario, que luego de obtener el préstamo, pueden canalizarlo hacia actividades distintas de las declaradas, tergiversándose así el indicador utilizado. Por otra parte, la base misma de la elaboración del indicador puede afectarlo como prorrataador, ya que los préstamos bancarios por actividades suelen presentarse netos de las amortizaciones del año, que pueden corresponder a préstamos recibidos durante éste y/u otros ejercicios.

Los saldos de préstamos tampoco resultan representativos del movimiento anual de préstamos por actividades, si representan sólo la variación acaecida entre el comienzo y el fin de año. Pueden añadirse por último que este indicador se altera por efecto de las fluctuaciones de precios ocurrida durante el período.

### III. LA COMISION IMPUTADA EN LA TABLA INSUMO-PRODUCTO DE ECONOMIA PERUANA AÑO 1973

El valor bruto de producción de los establecimientos que desarrollan estas actividades está constituido por los ingresos netos provenientes de los servicios típicos prestados (producción principal) y los ingresos recibidos por otras actividades (producción secundaria). Estos valores fueron calculados para cada uno de los grupos CIIU que conforman el sector financiero.

En el caso del Sistema Bancario Nacional, el VBP está formado por la Comisión imputada, la comisión real, la utilidad por compra-venta de valores y los ingresos por diferencia de cambios, como producción principal.

Cabe anotar que, a nivel de oferta, la comisión imputada ha sido separada del resto del sector, apareciendo íntegramente absorbida por el sector denominado "Industria Ficticia" 5/.

Para el resto de instituciones financieras, la producción principal viene dada por la comisión imputada y por las comisiones sobre colocaciones en las empresas financieras; por comisiones de prestación e ingresos varios en las mutuales, por la comisión recibida e ingresos directos de COFIDE y las cooperativas de ahorro y crédito. Los ingresos recibidos por concepto de alquileres fueron su producción secundaria.

Para el sub-sector seguros, la producción principal está dada por las comisiones netas, el monto imputado del servicio por riesgos (primas netas), los derechos de pólizas y el costo imputado del servicio de seguros de vida. La producción secundaria incorpora los ingresos por arrendamiento y otros ingresos. Cabe destacar que en este grupo se ha incluido a los Agentes de Seguros, cuyo VBP se determina por las comisiones que reciben por los servicios prestados, como intermediarios, entre las compañías de seguros y las particulares.

El cálculo del consumo intermedio de estos grupos fue efectuado principalmente, en base al análisis detallado de los estados de pérdidas y ganancias y otras fuentes complementarias. El valor agregado fue hallado como diferencia entre la producción bruta y el consumo intermedio.

5/ Instituto Nacional de Planificación, "Tablas Insumo-Producto de la Economía Peruana Año 1973". Lima, Octubre 1980. Tabla Nº4.

#### IV. TRATAMIENTO DE LA COMISION IMPUTADA EN MODELOS DE PROGRAMACION

Recordemos que la presentación del sector financiero, de acuerdo a las recomendaciones internacionales, en las Tablas de Insumo-Producto 1973, implicaba la creación del sector Industria Ficticia, que no tiene VBP y por lo tanto tampoco tendrá coeficientes técnicos. Luego, previo a la utilización de dichas Tablas como base de algún modelo de programación económica, deberán efectuarse los ajustes pertinentes, los mismos que se harán en función a los objetivos del modelo.

Un ajuste posible sería tratar de estimar qué parte de la comisión imputada corresponde a los agentes : industria, gobierno y hogares. Es decir, distribuir el valor de la intersección del Sector Columna Industria Ficticia y el Sector Fila Comisión Imputada, de la matriz Insumo-Producto. Sin embargo, como ya se explicó en detalle en párrafos anteriores, este procedimiento puede acarrear serias dificultades y errores de estimación.

Otra forma de ajuste posible, es agregar los sectores Banca e Industria Ficticia y tratarlos como una sola actividad. Este procedimiento se ve reforzado con el argumento de que el tipo de modelo de programación económica en base al esquema Insumo-Producto, usualmente agrega los sectores de servicios.

Otro procedimiento podría ser, simplemente, eliminar el Sector Industria Ficticia y la Comisión Imputada, de la Matriz de Transacciones intermedias, de tal manera de que no influyan en los resultados de la Matriz de Requerimientos Directos e Indirectos.

Estos ajustes probables y sus resultados son analizados a continuación utilizando para ello, primeramente, una matriz insumo-producto simplificada de solo seis (6) sectores, a fin de visualizar mejor sus efectos, y luego, se trabaja con la matriz 1973 a 52 sectores.

## V. EFECTOS EN LA MATRIZ DE REQUERIMIENTOS DIRECTOS E INDIRECTOS

En este capítulo se analizan tres posibles casos de ajuste de la comisión imputada de las tablas insumo-producto 1976. Primero se presenta un ejercicio hipotético para una matriz de sólo 6 sectores, analizándose posteriormente los resultados en la matriz de 52 sectores.

Los ajustes analizados tienen las características siguientes

- i. CASO A  
Se elimina, la transacción Comisión Imputada-Industria Ficticia, manteniéndose el CI, VA y VBP del vector que incluye al sector financiero. Ello implica considerar que la comisión imputada no debe influir en la obtención de la Matriz de Requerimientos Directos e Indirectos; es decir, que sus efectos en la producción debieran medirse a través de otros métodos y no por una relación técnica, no constituyendo un insumo indispensable para la generación de una unidad de producto.
- ii. CASO B  
Se elimina, la transacción comisión imputada-industria ficticia, y a la vez, se excluye dicho valor del VA y VBP del sector financiero. Este ajuste implica que el consumo intermedio del sector financiero no varía, y se relaciona, ahora, con un VBP menor, incrementándose los valores de los coeficientes técnicos originales; a su vez, supone que la generación de la comisión imputada no requiere de consumo intermedio, ni trabajo, ni capital.
- iii. CASO C  
Se agrega, la fila comisión imputada y la columna industria ficticia, a la fila y columna del sector financiero, respectivamente. Con este ajuste, se estaría tomando al sector financiero como "representante" del resto de sectores, como absorbedor de la comisión imputada, incrementando su consumo intermedio y manteniendo su VBP; por tanto, disminuyendo su VA.  
El único coeficiente técnico, que varía respecto al original, es el correspondiente al casillero donde se agrega la transacción comisión imputada-industria ficticia.

### A. ANALISIS DEL EJEMPLO HIPOTETICO

Supongamos que, tenemos la siguiente matriz de transacciones intermedias y finales :

CUADRO N° 1

EJEMPLO HIPOTETICO DE UNA MATRIZ INSUMO-PRODUCTO 1/  
(unidades monetarias)

|                | Demanda |       |        | Intermedia |        |         | Ind. Ficticia | Sub Total | Demanda Final | VBP     |
|----------------|---------|-------|--------|------------|--------|---------|---------------|-----------|---------------|---------|
|                | 1       | 2     | 3      | 4          | 5      | 6 1/    |               |           |               |         |
| 1              |         | 88    | 5 808  | 234        | 49     | 3 024   |               | 9 203     | 73 676        | 82 879  |
| 2              | 898     |       | 5      | 50         | 1      | 336     |               | 1 290     | 7 266         | 8 556   |
| 3              | 1 540   | 219   |        | 2 074      | 1 237  | 6 264   |               | 11 334    | 49 070        | 60 404  |
| 4              | 1 929   | 275   | 2 766  |            | 2 504  | 9 632   |               | 17 106    | 41 901        | 59 007  |
| 5              | 808     | 449   | 2 227  | 3 283      |        | 4 480   |               | 11 247    | 48 777        | 60 024  |
| 6 2/           | 10 365  | 1 115 | 9 597  | 10 804     | 9 512  |         |               | 41 393    | 92 453        | 133 846 |
| COM. IMPUTADA  |         |       |        |            |        |         | 8 628         | 8 628     |               | 8 628   |
| CON. INT. NAC. | 15 540  | 2 146 | 20 403 | 16 445     | 13 303 | 23 736  | 8 628         | 100 201   | 313 143       | 413 344 |
| CON. INT. IMP. | 4 912   | 229   | 3 802  | 6 875      | 7 769  | 7 363   |               |           |               |         |
| CON. INT. TOT. | 20 452  | 2 375 | 24 205 | 23 320     | 21 072 | 31 099  | 8 628         |           |               |         |
| VA             | 62 427  | 6 181 | 36 199 | 35 687     | 38 952 | 111 375 | -8 628        |           |               |         |
| VBP            | 82 879  | 8 556 | 60 404 | 59 007     | 60 024 | 142 474 |               |           |               |         |

1/ La eliminación de los ceros de la diagonal principal se ha efectuado con el único propósito de simplificar y resaltar el ajuste por analizar.

2/ Se supone que el sector 6 incluye al sector financiero.

Del cuadro anterior, obtendremos la matriz de coeficientes técnicos, que la denominamos "matriz original", (Cuadro N°2).

Como se puede observar en esta matriz, la columna siete "Industria Ficticia" carece obviamente de coeficientes técnicos.

MATRIZ DE COEFICIENTES TECNICOS : "MATRIZ ORIGINAL"

(en porcentaje)

|                   | 1      | 2      | 3      | 4      | 5      | 6      | Industria Ficticia |
|-------------------|--------|--------|--------|--------|--------|--------|--------------------|
| 1                 |        | 1.03   | 9.62   | 0.40   | 0.08   | 2.13   |                    |
| 2                 | 1.08   |        | 0.01   | 0.08   | 0.002  | 0.24   |                    |
| 3                 | 1.86   | 2.56   |        | 3.51   | 2.06   | 4.40   |                    |
| 4                 | 2.33   | 3.21   | 4.58   |        | 4.17   | 6.76   |                    |
| 5                 | 0.97   | 5.25   | 3.69   | 5.56   |        | 3.14   |                    |
| 6                 | 12.51  | 13.03  | 15.89  | 18.31  | 15.85  |        |                    |
| Comisión Imputada |        |        |        |        |        |        |                    |
| CIN               | 18.75  | 25.06  | 33.78  | 27.87  | 22.16  | 16.66  |                    |
| CIM               | 5.93   | 2.68   | 6.29   | 11.65  | 12.95  | 5.17   |                    |
| CIT               | 24.68  | 27.76  | 40.07  | 39.52  | 35.11  | 21.83  |                    |
| VA                | 75.32  | 72.24  | 59.93  | 60.48  | 64.89  | 78.17  |                    |
| VBP               | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |                    |

Mediante el ajuste de la "matriz original", utilizando los casos ya caracterizados podremos observar su implicancia en la matriz de requerimientos directos e indirectos.

Los coeficientes de la "matriz original" quedan sin modificación alguna, reduciéndose a los 6 primeros sectores.

La inversa de Leontief, resulta ser :

CUADRO N. 3

MATRIZ DE REQUERIMIENTOS DIRECTOS E INDIRECTOS CASO A

|       | 1      | 2      | 3      | 4      | 5      | 6      | TOTAL  |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 1.0058 | 0.0173 | 0.1019 | 0.0130 | 0.0077 | 0.0270 | 1.1727 |
| 2     | 0.0113 | 1.0006 | 0.0017 | 0.0015 | 0.0006 | 0.0028 | 1.0185 |
| 3     | 0.0268 | 0.0358 | 1.0137 | 0.0465 | 0.0307 | 0.0493 | 1.2023 |
| 4     | 0.0353 | 0.0474 | 0.0639 | 1.0191 | 0.0556 | 0.0743 | 1.2956 |
| 5     | 0.0178 | 0.0616 | 0.0481 | 0.0651 | 1.0099 | 0.0388 | 1.2413 |
| 6     | 0.1408 | 0.1567 | 0.1993 | 0.2061 | 0.1761 | 1.0313 | 1.9103 |
| TOTAL | 1.2378 | 1.3194 | 1.4286 | 1.3513 | 1.2806 | 1.2235 |        |

Entendiéndose por coeficiente técnico, al parámetro tecnológico, que muestra el monto de los insumos de distintas clases que es requerido, para alcanzar un determinado nivel de producción, en un sector cualquiera; el caso A, representa la matriz de requerimientos directos e indirectos buscada. Sin embargo, es necesario hacer algunos comentarios de las implicancias adicionales de tal ajuste. Se conoce que el sector 6 tiene un VBP determinado que se distribuye en parte a la demanda intermedia (DI) y el resto a la demanda final (DF); pero, al eliminarse la comisión imputada industria ficticia, sin modificación del VBP del sector 6, parte de las ventas que este hacía a demanda intermedia (A través del "sector" comisión imputada), se traslada implícitamente a demanda final, si suponemos que el VBP ofertado debe ser igual al VBP de mandado.

Ello supondría a su vez, considerar que la comisión imputada se realiza en los vectores de demanda final ó que esta puede ser determinada exógenamente. Esta última posibilidad resulta interesante, en el sentido de que podrá buscarse algún ti

po de relación funcional que trate de estimar en forma exógena la comisión imputada, en similitud a los casos de la inversión, consumo, exportaciones, etc. del modelo insumo-producto.

2. CASO D

El ajuste efectuado modifica los coeficientes técnicos correspondientes al vector columna 6 siendo ahora igual a :

|   |      |
|---|------|
|   | 6    |
| 1 | 2.26 |
| 2 | 0.25 |
| 3 | 4.68 |
| 4 | 7.20 |
| 5 | 3.35 |
| 6 | 0.00 |

Introduciendo a ese vector ajustado a la "matriz original", la inversa resultante es:

CUADRO N° 4

MATRIZ DE REQUERIMIENTOS DIRECTOS E INDIRECTOS : CASO B

|       | 1      | 2      | 3      | 4      | 5      | 6      | TOTAL  |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 1.0061 | 0.0176 | 0.1022 | 0.0133 | 0.0080 | 0.0288 | 1.1760 |
| 2     | 0.0113 | 1.0006 | 0.0017 | 0.0015 | 0.0006 | 0.0030 | 1.0187 |
| 3     | 0.0272 | 0.0363 | 1.0143 | 0.0472 | 0.0312 | 0.0526 | 1.2088 |
| 4     | 0.0359 | 0.0481 | 0.0648 | 1.0201 | 0.0565 | 0.0793 | 1.3047 |
| 5     | 0.0181 | 0.0620 | 0.0486 | 0.0656 | 1.0103 | 0.0414 | 1.2460 |
| 6     | 0.1411 | 0.1570 | 0.1937 | 0.2065 | 0.1765 | 1.0334 | 1.9082 |
| TOTAL | 1.2397 | 1.3216 | 1.4253 | 1.3542 | 1.2831 | 1.2385 |        |

Este ajuste elimina el concepto de comisión imputada de la matriz insumo-producto, al excluirla del VA y del VBP del sector financiero; no aparece por tanto, como venta intermedia o final de dicho sector.



Entre las limitaciones de este procedimiento, es que se estaría obviando el mecanismo de ajuste recomendado en el Sistema de Cuentas Nacionales de las Naciones Unidas, y surge la posibilidad de contar con excedente de explotación y VA negativos.

Adicionalmente, puede observarse que los multiplicadores del Cuadro N°4 son ligeramente superiores a las del Caso A, pero las diferencias no son sustanciales, ni siquiera en el registro 6,6.

### 3. CASO C

El único coeficiente de la matriz original que se modifica es, el correspondiente al casillero 6,6, que adopta el valor de 6.06 introduciendo ese coeficiente en dicha matriz y hallando su inversa obtenemos :

CUADRO N° 5

#### MATRIZ DE REQUERIMIENTOS DIRECTOS E INDIRECTOS CASO C.

|   | 1      | 2      | 3      | 4      | 5      | 6      |        |
|---|--------|--------|--------|--------|--------|--------|--------|
| 1 | 1.0061 | 0.0176 | 0.1022 | 0.0133 | 0.0080 | 0.0288 | 1.1760 |
| 2 | 0.0113 | 1.0006 | 0.0017 | 0.0015 | 0.0006 | 0.0030 | 1.0187 |
| 3 | 0.0272 | 0.0363 | 1.0143 | 0.0472 | 0.0312 | 0.0526 | 1.2088 |
| 4 | 0.0359 | 0.0481 | 0.0648 | 1.0201 | 0.0565 | 0.0793 | 1.3047 |
| 5 | 0.0181 | 0.0620 | 0.0486 | 0.0656 | 1.0103 | 0.0414 | 1.2460 |
| 6 | 0.1502 | 0.1671 | 0.2062 | 0.2199 | 0.1879 | 1.1000 | 2.0313 |
|   | 1.2488 | 1.3317 | 1.4378 | 1.3676 | 1.2945 | 1.351  |        |

El ajuste sencillo introducido, permite mantener sin variación alguna la demanda intermedia y final del sector financiero, así como su VBP y sus coeficientes técnicos con excepción del ajuste en 6,6, como ya se indicó. Sin embargo, sí se ven alterados el total del consumo intermedio, y del valor agregado del mismo sector, incrementándose el primero y disminuyendo el

segundo.

Este caso, dado que lleva a incluir una compra intermedia importante del sector bancario a sí mismo, induce a elevar fuertemente el multiplicador del sector financiero y de los sectores estrechamente vinculados a éste por sus efectos indirectos.

Al comparar los resultados de las inversas A y C se observa que este último, muestra como era de esperarse - un efecto multiplicador mayor en todos los coeficientes de la matriz de requerimientos directos e indirectos, en especial, las vinculadas al sector financiero. En cambio, si observamos comparativamente las matrices inversas B y C, se nota que únicamente la fila y columna correspondiente al sector financiero se ven afectados ubicándose la diferencia más importante en el elemento 6, 6.

En adelante, y para los propósitos de este informe, se entenderá por "sector financiero" a las actividades que comprende los grupos CIIU 8101 Instituciones Monetarias, 8102 Otros Establecimientos Financieros y 8200 Seguros.

Además, definiremos a la Comisión Imputada como la cantidad imputada por servicios bancarios, que en la práctica es igual a la diferencia entre la renta de la propiedad que reciben los bancos y otras instituciones financieras análogas y el interés que reciben los depositantes. En sentido estricto, la renta de la propiedad de los bancos que se ha de tener en cuenta deberá proceder únicamente de la inversión de depósitos. 4/

## B. ANALISIS DE LA TABLA INSUMO PRODUCTO 1973

Las Tablas insumo-producto de la economía peruana, año 1973, identifica 52 sectores de actividad económica y un sector de ajuste denominado industria ficticia. Cabe precisar que el ejercicio realizado se ha asumido que las diferencias existentes entre los coeficientes técnicos de la matriz de absorción y de la "matriz pura" son mínimas; y que no afectan el análisis, ni las conclusiones que se derivan de estas pruebas. Además dado que en cada caso analizado se elimina el sector Industria Fictiva; los sectores del 47 al 53 de la Tabla, quedan como sigue

| Análisis |           | Documento |
|----------|-----------|-----------|
| TIP      | Sector    | TIP       |
| 47       | Bancos    | 47        |
| 48       | Vivienda  | 49        |
| 49       | Educación | 50        |
| 50       | Salud     | 51        |
| 51       | Admón     | 52        |
| 52       | Servdiv   | 53        |

Los efectos que muestra la matriz de requerimientos directos e indirectos de 52 sectores es similar a la ya analizada de 6 sectores, teniendo en consideración las obvias diferencias de orden existentes entre éstas; nosotros a continuación enfatizamos principalmente, en la sensibilidad sectorial a nivel de los efectos totales hacia atrás, que no es otra cosa que, la sumatoria de cada columna de la matriz inversa de Leontief. Adicionalmente, se incluyen cuadros de los efectos en la fila y columna correspondiente al sector Bancos, y cuadros referentes a las sumatorias de las filas.

Los resultados del caso A que se observan en el cuadro N° 6, muestran que son las de menor nivel en forma similar al ejemplo hipotético; bajo ese punto de vista, los efectos de los casos B y C están sobre estimados. En el caso A, los sectores con mayor multiplicador son: Básicos no ferrosos, Alimentos para animales; ropa; Otras Industrias Alimenticias y Ganadería de carne. Por su parte, los sectores de menor multiplicador son: Educación, Cultivos Permanentes, Silvicultura, Caza y Madera; Vivienda y Bancos ( lugar 49).

En el caso B, dado el ajuste que este considera, el sector BANCOS ocupa el lugar 37, incorporándose ahora entre los sectores con menor multiplicador Minería No Metales. Los sectores con mayor multiplicador continúan en el mismo orden del caso A.

En el caso C, el sector BANCOS ocupa el primer lugar, desplazando al resto de sectores. Al compararse los resultados de los tres ajustes, puede observarse que el sector BANCOS es el más

afectado sobrevaluándose fuertemente sus efectos hacia atrás en los casos C (86% y B 14%), en relación al caso A; elevando simultánea y significativamente, por sus efectos indirectos, los multiplicadores de los sectores más ligados a este, como el comercio y el transporte.

Esto último es más evidente, si analizamos comparativamente, la repercusión, de los ajustes en la fila y columna asignada al sector Bancos, en la matriz de requerimientos directos e indirectos. En el cuadro N° 7, puede visualizarse, que los casos B y C sobrevaloran fuertemente los resultados de la columna del sector Bancos en la inversa de Leontief, diferenciándose ambas, únicamente en el coeficiente correspondiente al casillero 47, 47 del propio sector. En el cuadro N° 8, se observa a nivel de fila, que los multiplicadores relacionados al sector Bancos en los casos B y C, se ubican por encima del caso A, en aproximadamente 5% y 86% respectivamente.

Si observamos los efectos de las sumatorias horizontales, se observan también algunos cambios importantes en función al ajuste propuesto. En el cuadro N° 9 tenemos que el sector Bancos se ubica en el lugar 8, en el caso A; pasa al 9 en el caso B, y finalmente ocupa la tercera posición en el caso C.

Queda corroborado que el último ajuste analizado, sobre estima sus interrelaciones vistas horizontalmente; y que las diferencias relativas entre los casos A y B son de menor importancia.

## VI. COMENTARIOS FINALES

1. Los ingresos del sector financiero puede subdividirse en dos grandes rubros : a) Servicios con pago explícito, y b) la renta imputada (que consiste en la diferencia entre la renta de propiedad que reciben y la que pagan). Estas rentas de la propiedad se refieren principalmente a intereses. Por tal motivo, si las transacciones de este sector, se trataran igual que las de otras ramas de actividad, su excedente de explotación, y quizás su valor agregado, serían negativos.
2. Hay varias razones que obligan a tratar esta cantidad imputada, como consumo intermedio de las industrias. Y así es presentada en las Tablas Insumo-Producto de la Economía Peruana Año 1973.

Con ello, se evitan las graves dificultades que extrañan la asignación de la cantidad imputada como comisión de servicios entre las industrias, gobierno y familias. Además el valor agregado, y en igual cuantía, el excedente de explotación de las industrias, no queda inflado por la asignación de parte de la cantidad imputada a los gastos de consumo final.

3. El tratamiento especial que merece el sector financiero en la matriz insumo-producto, que implica la creación de una columna denominada Industria Ficticia, soluciona la presentación contable, pero crea un "sector sin coeficientes técnicos" al carecer dicha Industria Ficticia de valor bruto de producción. Tal matriz, necesita de un ajuste previo, antes de su utilización en la programación económica habiéndose analizado en este informe los efectos resultantes de tres alternativas de ajuste propuestos.
4. De los ajustes analizados, el caso C sobreestima fuertemente los efectos del Sector Bancos, tanto a nivel de columnas como de filas en comparación a los casos A y B, limitando así su utilidad y aplicabilidad. El caso B, considera su valor bruto de producción que excluye la comisión imputada, pero cuenta con la limitación de que parte de los insumos de este sector son necesarias para producir esa comisión; además de que este procedimiento estaría obviando el mecanismo de ajuste recomendado en el sistema de Cuentas Nacionales de las Naciones Unidas, y surge la posibilidad de contar con excedente de explotación y valor agregado negativos.

El caso A, responde a la definición de coeficiente técnico que usualmente se utiliza, aunque presenta ligeras limitaciones relacionadas a la no consideración, ni siquiera de parte de la comisión imputada en la matriz de requerimientos directos e indirectos; pero reúne las condiciones necesarias para el análisis y las aplicaciones basadas en

la matriz insumo-producto. Lo que quiero decir que puede optarse por ajustar exógenamente la comisión imputada, su comportamiento histórico y previendo su desenvolvimiento futuro, ampliando las perspectivas del modelo insumo producto hacia el campo financiero, en lo referente al rubro que es materia de este informe.

5. El tratamiento especial que implica, la relación entre las denominadas unidades productivas y financieras, llama la atención sobre un delicado problema de la integración del sector "real", que se observa en la tabla insumo-producto, en los flujos financieros que generalmente conlleva, cada una de esas transacciones, cuando se ejecutan en el mercado.

La discusión presentada.. trata de aportar algunos elementos que sirvan de introducción a dicho tema, vasto y complejo pero necesario de abordar, y posibilita ampliar la esencia del análisis insumo-producto, mostrando adicionalmente, que la naturaleza simultánea de las relaciones económicas y las relaciones financieras, van estrechamente vinculadas siendo vital una cabal comprensión de las mismas.

6. Finalmente, cabe mencionar que cualquier tratamiento referente a la agrupación o desagregación de esta comisión imputada del sector financiero, deberá considerar las dificultades estadísticas, las restricciones de costo y tiempo, la dimensión del modelo y los objetivos del mismo.

CUADRO N° 6

SUMATORIA DE LAS COLUMNAS DE LA MATRIZ DE REQUERIMIENTOS  
DIRECTOS E INDIRECTOS \*

| N°<br>TIP | SECTOR  | CASO   |        |        | VARIACION |      |
|-----------|---------|--------|--------|--------|-----------|------|
|           |         | A      | B      | C      | B/A       | C/A  |
| 1         | CULTIND | 1.2440 | 1.2446 | 1.2477 | 0.05      | 0.30 |
| 2         | CULTALI | 1.2446 | 1.2447 | 1.2457 | 0.01      | 0.09 |
| 3         | CULTFER | 1.1158 | 1.1160 | 1.1171 | 0.02      | 0.12 |
| 4         | GANCARN | 1.8985 | 1.8994 | 1.9040 | 0.05      | 0.29 |
| 5         | PRODGAN | 1.6932 | 1.6937 | 1.6966 | 0.03      | 0.20 |
| 6         | SERAGRO | 1.3605 | 1.3607 | 1.3620 | 0.01      | 0.11 |
| 7         | SICAMAD | 1.1549 | 1.1557 | 1.1599 | 0.07      | 0.43 |
| 8         | PESCA   | 1.3128 | 1.3163 | 1.3345 | 0.27      | 1.65 |
| 9         | PETROL  | 1.2454 | 1.2476 | 1.2589 | 0.18      | 1.08 |
| 10        | MIMETAL | 1.3264 | 1.3287 | 1.3401 | 0.17      | 1.03 |
| 11        | MINOMET | 1.2123 | 1.2130 | 1.2167 | 0.06      | 0.36 |
| 12        | PRODLAC | 1.8763 | 1.8779 | 1.8859 | 0.09      | 0.51 |
| 13        | PRODRES | 1.7702 | 1.7730 | 1.7873 | 0.16      | 0.97 |
| 14        | HARIPES | 1.7452 | 1.7543 | 1.8014 | 0.52      | 3.22 |
| 15        | AZUCAR  | 1.5864 | 1.5870 | 1.5899 | 0.04      | 0.22 |
| 16        | OTRALI  | 1.9128 | 1.9155 | 1.9294 | 0.14      | 0.87 |
| 17        | ALIANI  | 2.0074 | 2.0102 | 2.0249 | 0.14      | 0.87 |
| 18        | BEBIDAS | 1.4086 | 1.4100 | 1.4168 | 0.10      | 0.58 |
| 19        | TABACO  | 1.2254 | 1.2261 | 1.2296 | 0.06      | 0.34 |
| 20        | TEXTIL  | 1.8781 | 1.8843 | 1.9165 | 0.33      | 2.04 |
| 21        | ROPA    | 1.9216 | 1.9274 | 1.9572 | 0.30      | 1.85 |
| 22        | CUERO   | 1.8389 | 1.8407 | 1.8499 | 0.10      | 0.60 |
| 23        | CALZADO | 1.8055 | 1.8079 | 1.8205 | 0.13      | 0.83 |
| 24        | MADERA  | 1.6722 | 1.6751 | 1.6899 | 0.17      | 1.06 |
| 25        | MUEBLES | 1.7841 | 1.7899 | 1.8200 | 0.33      | 2.01 |
| 26        | PATELES | 1.7748 | 1.7771 | 1.7888 | 0.13      | 0.79 |
| 27        | IMPRES  | 1.4879 | 1.4909 | 1.5069 | 0.20      | 1.28 |
| 28        | QUIMICA | 1.5238 | 1.5260 | 1.5373 | 0.14      | 0.89 |
| 29        | FIBRART | 1.3927 | 1.3949 | 1.4061 | 0.16      | 0.96 |
| 30        | OTRQUIM | 1.5212 | 1.5237 | 1.5357 | 0.16      | 0.95 |
| 31        | REFIET  | 1.4965 | 1.4976 | 1.5034 | 0.07      | 0.46 |
| 32        | CAUCHO  | 1.3048 | 1.3064 | 1.3144 | 0.12      | 0.74 |
| 33        | PLASTIC | 1.4907 | 1.4934 | 1.5071 | 0.18      | 1.10 |
| 34        | CEMENTO | 1.5973 | 1.5995 | 1.6109 | 0.14      | 0.85 |
| 35        | ACERO   | 1.7068 | 1.7083 | 1.7157 | 0.09      | 0.52 |
| 36        | BASNOFE | 2.1122 | 2.1143 | 2.1254 | 0.10      | 0.62 |
| 37        | PRODMET | 1.6781 | 1.6808 | 1.6948 | 0.16      | 1.00 |
| 38        | MAQNOEL | 1.5118 | 1.5142 | 1.5270 | 0.16      | 1.01 |
| 39        | MAQUEL  | 1.5521 | 1.5543 | 1.5654 | 0.14      | 0.86 |

\* Considera solo coeficientes técnicos de bienes y servicios nacionales Tablas Insumo-Producto 1973

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|    |         |        |        |        |       |       |
|----|---------|--------|--------|--------|-------|-------|
| 40 | MAQTRAN | 1.5982 | 1.6001 | 1.6101 | 0.12  | 0.74  |
| 41 | OTRIMAN | 1.6171 | 1.6203 | 1.6366 | 0.20  | 1.21  |
| 42 | ARTESAN | 1.8276 | 1.8295 | 1.8390 | 0.10  | 0.62  |
| 43 | ELEAGUA | 1.2795 | 1.2825 | 1.2985 | 0.23  | 1.48  |
| 44 | CONSTRU | 1.7760 | 1.7779 | 1.7879 | 0.11  | 0.67  |
| 45 | COMERCI | 1.4219 | 1.4274 | 1.4559 | 0.39  | 2.39  |
| 46 | TRANSPO | 1.5407 | 1.5480 | 1.5858 | 0.49  | 2.93  |
| 47 | BANCOS  | 1.1933 | 1.3586 | 2.2142 | 13.87 | 85.55 |
| 48 | VIVEND  | 1.1881 | 1.1887 | 1.1921 | 0.07  | 0.34  |
| 49 | EDUCACI | 1.1009 | 1.1040 | 1.1201 | 0.26  | 1.74  |
| 50 | SALUD   | 1.3204 | 1.3231 | 1.3369 | 0.20  | 1.25  |
| 51 | ADMIDF  | 1.2717 | 1.2771 | 1.3051 | 0.43  | 2.63  |
| 52 | SERVDIV | 1.4682 | 1.4727 | 1.4933 | 0.28  | 1.71  |



CUADRO N° 7

SECTOR BANCOS COLUMNA DE LA MATRIZ DE REQUERIMIENTOS DIRECTOS E INDIRECTOS\*

| N°<br>TIP | SECTOR  | CASO   |        |        | VARIACION |        |
|-----------|---------|--------|--------|--------|-----------|--------|
|           |         | A      | B      | C      | B/A       | C/A    |
| 1         | CULTIND | 0.0003 | 0.0005 | 0.0005 | 66.67     | 66.67  |
| 2         | CULTALI | 0.0009 | 0.0017 | 0.0017 | 88.89     | 88.89  |
| 3         | CULTFER | 0.0001 | 0.0002 | 0.0002 | 100.00    | 100.00 |
| 4         | GANCARN | 0.0006 | 0.0010 | 0.0010 | 66.67     | 66.67  |
| 5         | PRODGAN | 0.0003 | 0.0005 | 0.0005 | 66.67     | 66.67  |
| 6         | SERAGRO | 0.0001 | 0.0001 | 0.0001 | 0.00      | 0.00   |
| 7         | SICAMAD | 0.0000 | 0.0001 | 0.0001 |           |        |
| 8         | TESCA   | 0.0003 | 0.0006 | 0.0006 | 100.00    | 100.00 |
| 9         | TETROL  | 0.0005 | 0.0009 | 0.0009 | 80.00     | 80.00  |
| 10        | MIMETAL | 0.0003 | 0.0006 | 0.0006 | 100.00    | 100.00 |
| 11        | MINOMET | 0.0001 | 0.0001 | 0.0001 | 0.00      | 0.00   |
| 12        | PRODLAC | 0.0004 | 0.0007 | 0.0007 | 75.00     | 75.00  |
| 13        | PRODIES | 0.0000 | 0.0000 | 0.0000 |           |        |
| 14        | HARIES  | 0.0000 | 0.0001 | 0.0001 |           |        |
| 15        | AZUCAR  | 0.0002 | 0.0004 | 0.0004 | 100.00    | 100.00 |
| 16        | OTRALI  | 0.0008 | 0.0015 | 0.0015 | 87.50     | 87.50  |
| 17        | ALIANI  | 0.0001 | 0.0002 | 0.0002 | 100.00    | 100.00 |
| 18        | BEBIDAS | 0.0002 | 0.0004 | 0.0004 | 100.00    | 100.00 |
| 19        | TABACO  | 0.0000 | 0.0000 | 0.0000 |           |        |
| 20        | TEXTIL  | 0.0010 | 0.0019 | 0.0019 | 90.00     | 90.00  |
| 21        | ROPA    | 0.0012 | 0.0022 | 0.0022 | 83.33     | 83.33  |
| 22        | CUERO   | 0.0001 | 0.0002 | 0.0002 | 100.00    | 100.00 |
| 23        | CALZADO | 0.0000 | 0.0000 | 0.0000 |           |        |
| 24        | MADERA  | 0.0001 | 0.0002 | 0.0002 | 100.00    | 100.00 |
| 25        | MUEBLES | 0.0000 | 0.0000 | 0.0000 |           |        |
| 26        | PATELES | 0.0165 | 0.0307 | 0.0307 | 86.06     | 86.06  |
| 27        | IMPRES  | 0.0054 | 0.0100 | 0.0100 | 85.19     | 85.19  |
| 28        | QUIMICA | 0.0011 | 0.0021 | 0.0021 | 90.91     | 90.91  |
| 29        | FIBRART | 0.0001 | 0.0003 | 0.0003 | 200.00    | 200.00 |
| 30        | OTRQUIM | 0.0016 | 0.0030 | 0.0030 | 87.50     | 87.50  |
| 31        | REFIET  | 0.0015 | 0.0027 | 0.0027 | 80.00     | 80.00  |
| 32        | CAUCHO  | 0.0005 | 0.0009 | 0.0009 | 80.00     | 80.00  |
| 33        | PLASTIC | 0.0004 | 0.0007 | 0.0007 | 75.00     | 75.00  |
| 34        | CEMENTO | 0.0003 | 0.0005 | 0.0005 | 66.67     | 66.67  |
| 35        | ACERO   | 0.0007 | 0.0012 | 0.0012 | 71.43     | 71.43  |
| 36        | BASNOFE | 0.0004 | 0.0008 | 0.0008 | 100.00    | 100.00 |
| 37        | PRODMET | 0.0029 | 0.0054 | 0.0054 | 86.21     | 86.21  |
| 38        | MAQUOEL | 0.0024 | 0.0045 | 0.0045 | 87.50     | 87.50  |
| 39        | MAQUEL  | 0.0007 | 0.0014 | 0.0014 | 100.00    | 100.00 |
| 40        | OTRIMAN | 0.0006 | 0.0011 | 0.0011 | 83.33     | 83.33  |

\* Considera sólo coeficientes técnicos de bienes y servicios nacionales. Tabla Insumo-Producto 1973

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|    |         |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|
| 41 | OTRIMAN | 0.0007 | 0.0013 | 0.0013 | 85.71  | 85.71  |
| 42 | ARTESAN | 0.0000 | 0.0000 | 0.0000 |        |        |
| 43 | ELEAGUA | 0.0055 | 0.0102 | 0.0102 | 85.45  | 85.45  |
| 44 | CONSTRU | 0.0001 | 0.0002 | 0.0002 | 100.00 | 100.00 |
| 45 | COMERCI | 0.0124 | 0.0230 | 0.0230 | 85.48  | 85.48  |
| 46 | TRANSP0 | 0.0095 | 0.0176 | 0.0176 | 85.26  | 85.26  |
| 47 | BANCOS  | 1.0566 | 1.1051 | 1.9606 | 4.59   | 85.56  |
| 48 | VIVIEND | 0.0000 | 0.0000 | 0.0000 |        |        |
| 49 | EDUCACI | 0.0001 | 0.0002 | 0.0002 | 100.00 | 100.00 |
| 50 | SALUD   | 0.0000 | 0.0000 | 0.0000 |        |        |
| 51 | ADMIDEF | 0.0000 | 0.0000 | 0.0000 |        |        |
| 52 | SERVDIV | 0.0656 | 0.1218 | 0.1218 | 85.67  | 85.67  |

CUADRO N° 8

SECTOR BANCOS (FILA) DE LA MATRIZ DE REQUERIMIENTOS DIRECTOS E INDIRECTOS \*

| N°<br>TIP | SECTOR  | CASO   | CASO   | CASO   | VARIACION% |     |
|-----------|---------|--------|--------|--------|------------|-----|
|           |         | A      | B      | C      | B/A        | C/A |
| 1         | CULTIND | 0.0039 | 0.0041 | 0.0072 |            |     |
| 2         | CULTALI | 0.0011 | 0.0012 | 0.0021 |            |     |
| 3         | CULTIER | 0.0013 | 0.0013 | 0.0024 |            |     |
| 4         | GANCARN | 0.0057 | 0.0060 | 0.0167 |            |     |
| 5         | PRODGAN | 0.0036 | 0.0037 | 0.0066 |            |     |
| 6         | SERAGRO | 0.0016 | 0.0016 | 0.0029 |            |     |
| 7         | SICAMAD | 0.0052 | 0.0055 | 0.0097 |            |     |
| 8         | FESCA   | 0.0225 | 0.0235 | 0.0417 |            |     |
| 9         | PETROL  | 0.0140 | 0.0146 | 0.0259 |            |     |
| 10        | MIMETAL | 0.0142 | 0.0148 | 0.0263 |            |     |
| 11        | MINOMET | 0.0046 | 0.0048 | 0.0086 |            |     |
| 12        | PRODLAC | 0.0099 | 0.0104 | 0.0185 |            |     |
| 13        | PRODIES | 0.0177 | 0.0185 | 0.0329 |            |     |
| 14        | HARITES | 0.0581 | 0.0608 | 0.1078 |            |     |
| 15        | AZUCAR  | 0.0037 | 0.0038 | 0.0068 |            |     |
| 16        | OTRALI  | 0.0172 | 0.0180 | 0.0319 |            |     |
| 17        | ALIANI  | 0.0181 | 0.0190 | 0.0337 |            |     |
| 18        | BEBIDAS | 0.0084 | 0.0088 | 0.0156 |            |     |
| 19        | TABACO  | 0.0043 | 0.0045 | 0.0081 |            |     |
| 20        | TEXTIL  | 0.0398 | 0.0416 | 0.0738 |            |     |
| 21        | ROPA    | 0.0368 | 0.0385 | 0.0683 |            |     |
| 22        | CUERO   | 0.0115 | 0.0120 | 0.0213 |            |     |
| 23        | CALZADO | 0.0156 | 0.0163 | 0.0289 |            |     |
| 24        | MADERA  | 0.0183 | 0.0191 | 0.0339 |            |     |
| 25        | MUEBLES | 0.0372 | 0.0389 | 0.0690 |            |     |
| 26        | PAIELES | 0.0145 | 0.0151 | 0.0268 |            |     |
| 27        | IMPRESA | 0.0197 | 0.0206 | 0.0365 |            |     |
| 28        | QUIMICA | 0.0139 | 0.0146 | 0.0258 |            |     |
| 29        | FIBRART | 0.0139 | 0.0145 | 0.0258 |            |     |
| 30        | OTRQUIM | 0.0148 | 0.0155 | 0.0275 |            |     |
| 31        | REFIET  | 0.0072 | 0.0075 | 0.0134 |            |     |
| 32        | CAUCHO  | 0.0099 | 0.0104 | 0.0185 |            |     |
| 33        | PLASTIC | 0.0170 | 0.0177 | 0.0315 |            |     |
| 34        | CEMENTO | 0.0141 | 0.0148 | 0.0262 |            |     |
| 35        | ACERO   | 0.0092 | 0.0096 | 0.0171 |            |     |
| 36        | BASNOFE | 0.0137 | 0.0143 | 0.0254 |            |     |
| 37        | PRODMET | 0.0172 | 0.0180 | 0.0320 |            |     |
| 38        | MAQNOEL | 0.0158 | 0.0165 | 0.0292 |            |     |
| 39        | MAQLEL  | 0.0138 | 0.0144 | 0.0255 |            |     |
| 40        | MAQTRAN | 0.0123 | 0.0129 | 0.0228 |            |     |

\* Considera solo coeficientes técnicos de bienes y servicios nacionales. Tabla Insumo-Producto 1973

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|    |         |        |        |        |      |       |
|----|---------|--------|--------|--------|------|-------|
| 41 | OTRIMAN | 0.0202 | 0.0211 | 0.0374 |      |       |
| 42 | ARTESAN | 0.0118 | 0.0123 | 0.0218 |      |       |
| 43 | ELEAGUA | 0.0197 | 0.0206 | 0.0365 |      |       |
| 44 | CONSTRU | 0.0124 | 0.0129 | 0.0229 |      |       |
| 45 | COMERCI | 0.0351 | 0.0367 | 0.0652 |      |       |
| 46 | TRANSPO | 0.0466 | 0.0488 | 0.0865 |      |       |
| 47 | BANCOS  | 1.0566 | 1.1051 | 1.9606 | 4.59 | 85.56 |
| 48 | VIVIEND | 0.0041 | 0.0043 | 0.0077 |      |       |
| 49 | EDUCACI | 0.0199 | 0.0208 | 0.0370 |      |       |
| 50 | SALUD   | 0.0171 | 0.0179 | 0.0317 |      |       |
| 51 | ADMIDEF | 0.0345 | 0.0361 | 0.0641 |      |       |
| 52 | SERVDIV | 0.0230 | 0.0272 | 0.0483 |      |       |

CUADRO N.º 9  
SUMATORIA DE LAS FILAS DE LA MATRIZ DE REQUERIMIENTOS DIRECTOS  
E INDIRECTOS \*

| Nº<br>TIP | SECTOR  | CASO<br>1 | CASO<br>2 | CASO<br>3 | VARIACION%<br>2/1 | 3/1  |
|-----------|---------|-----------|-----------|-----------|-------------------|------|
| 1         | CULTIND | 1.9435    | 1.9439    | 1.9439    | 0.02              | 0.02 |
| 2         | CULTALI | 2.7884    | 2.7898    | 2.7898    | 0.05              | 0.05 |
| 3         | CULTFER | 1.1160    | 1.1162    | 1.1162    | 0.02              | 0.02 |
| 4         | GANCARN | 1.1100    | 1.1108    | 1.1108    | 0.07              | 0.07 |
| 5         | PRODGAN | 1.5300    | 1.5304    | 1.5304    | 0.03              | 0.03 |
| 6         | SERAGRO | 1.3656    | 1.3658    | 1.3658    | 0.01              | 0.01 |
| 7         | SICAMAD | 1.3661    | 1.3682    | 1.3682    | 0.01              | 0.01 |
| 8         | PESCA   | 1.8472    | 1.8476    | 1.8476    | 0.02              | 0.02 |
| 9         | PETROL  | 1.5842    | 1.5849    | 1.5849    | 0.04              | 0.04 |
| 10        | MIMETAL | 2.1298    | 2.1302    | 2.1302    | 0.02              | 0.02 |
| 11        | MINOMET | 1.2347    | 1.2348    | 1.2348    | 0.01              | 0.01 |
| 12        | PRODLAC | 1.0649    | 1.0655    | 1.0655    | 0.06              | 0.06 |
| 13        | PRODTES | 1.0009    | 1.0009    | 1.0009    | 0.00              | 0.00 |
| 14        | HARITES | 1.2247    | 1.2247    | 1.2247    | 0.00              | 0.00 |
| 15        | AZUCAR  | 1.1230    | 1.1233    | 1.1233    | 0.03              | 0.03 |
| 16        | OTRALI  | 1.5525    | 1.5537    | 1.5537    | 0.08              | 0.08 |
| 17        | ALIANI  | 1.3876    | 1.3878    | 1.3878    | 0.01              | 0.01 |
| 18        | BEBIDAS | 1.0726    | 1.0729    | 1.0729    | 0.03              | 0.03 |
| 19        | TABACO  | 1.0000    | 1.0000    | 1.0000    | 0.00              | 0.00 |
| 20        | TEXTIL  | 2.1217    | 2.1233    | 2.1233    | 0.08              | 0.08 |
| 21        | ROPA    | 1.0316    | 1.0334    | 1.0334    | 0.17              | 0.17 |
| 22        | CUERO   | 1.5220    | 1.5222    | 1.5222    | 0.01              | 0.01 |
| 23        | CALZADO | 1.0118    | 1.0118    | 1.0118    | 0.00              | 0.00 |
| 24        | MADERA  | 1.3182    | 1.3184    | 1.3184    | 0.02              | 0.02 |
| 25        | MUEBLES | 1.0580    | 1.0580    | 1.0580    | 0.00              | 0.00 |
| 26        | PAPELES | 2.1339    | 2.1592    | 2.1592    | 1.19              | 1.19 |
| 27        | IMPRES  | 1.2278    | 1.2360    | 1.2360    | 0.67              | 0.67 |
| 28        | QUIMICA | 1.4341    | 1.4358    | 1.4358    | 0.12              | 0.12 |
| 29        | FIBRART | 1.2658    | 1.2661    | 1.2661    | 0.02              | 0.02 |
| 30        | OTRQUIM | 1.4650    | 1.4675    | 1.4675    | 0.17              | 0.17 |
| 31        | REFIET  | 1.8545    | 1.8568    | 1.8568    | 0.12              | 0.12 |
| 32        | CAUCHO  | 1.1970    | 1.1978    | 1.1978    | 0.07              | 0.07 |
| 33        | PLASTIC | 1.3261    | 1.3267    | 1.3267    | 0.05              | 0.05 |
| 34        | CEMENTO | 1.4548    | 1.4553    | 1.4553    | 0.03              | 0.03 |
| 35        | ACERO   | 1.7228    | 1.7238    | 1.7238    | 0.06              | 0.06 |
| 36        | BASNOFE | 1.5021    | 1.5027    | 1.5027    | 0.04              | 0.04 |
| 37        | PRODMET | 1.6657    | 1.6702    | 1.6702    | 0.27              | 0.27 |
| 38        | MAQNOEL | 1.3414    | 1.3451    | 1.3451    | 0.28              | 0.28 |
| 39        | MAQUEL  | 1.3422    | 1.3433    | 1.3433    | 0.08              | 0.08 |
| 40        | MAQTRAN | 1.2568    | 1.2576    | 1.2576    | 0.06              | 0.06 |
| 41        | OTRIMAN | 1.0916    | 1.0927    | 1.0927    | 0.10              | 0.10 |

Considera solo coeficientes técnicos de bienes y servicios nacionales. Tabla Insumo-Producto 1973

continúa.....

...Continuación

|    |         |        |        |        |      |       |
|----|---------|--------|--------|--------|------|-------|
| 42 | ARTESAN | 1.0626 | 1.0626 | 1.0626 | 0.00 | 0.00  |
| 43 | ELEAGUA | 1.4154 | 1.4237 | 1.4237 | 0.59 | 0.59  |
| 44 | CONSTRU | 1.1508 | 1.1510 | 1.1510 | 0.02 | 0.02  |
| 45 | COMERCI | 5.3920 | 5.4109 | 5.4109 | 0.35 | 0.35  |
| 46 | TRANSPC | 2.6501 | 2.6646 | 2.6646 | 0.55 | 0.55  |
| 47 | BANCOS  | 1.6854 | 1.9718 | 3.4984 | 4.58 | 85.55 |
| 48 | VIVIEND | 1.0000 | 1.0000 | 1.0000 | 0.00 | 0.00  |
| 49 | EDUCACI | 1.0130 | 1.0131 | 1.0131 | 0.01 | 0.01  |
| 50 | SA LUD  | 1.0113 | 1.0113 | 1.0113 | 0.00 | 0.00  |
| 51 | ADMIDF  | 1.0000 | 1.0000 | 1.0000 | 0.00 | 0.00  |
| 52 | SERVDIV | 3.6260 | 3.7262 | 3.7262 | 2.76 | 2.76  |

## **A N E X O S**

MATRIZ DE COEFICIENTES DIRECTOS E INDIRECTOS

PARA EL CASO A



*OPERA # 1: ...*

MATRIZ INSUMO PRODUCTO PERU 1973

**INVERSA (I-A)** **NACIONALES**  
**MATRIZ DE REQUERIMIENTOS DIRECTOS E INDIRECTOS**

|             | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8      | 9      | 10       | 11      | 12      | 13      | 14      | 15     |
|-------------|---------|---------|---------|---------|---------|---------|---------|--------|--------|----------|---------|---------|---------|---------|--------|
|             | CULTIND | CULTALI | CULTPER | GANCARN | PRODGAN | SERAGRO | SICAPAD | PESCA  | PETROL | MINMETAL | MINOMET | PRODLAC | PROCPES | HARIPES | AZUCAR |
| 1 CULTIND   | 1.0301  | .0007   | .0003   | .0012   | .0009   | .0001   | 0.0000  | .0067  | .0003  | .0005    | .0003   | .0019   | .0020   | .0039   | .0028  |
| 2 CULTALI   | .0016   | 1.1741  | .0035   | .3926   | .3566   | .1823   | .0064   | .0067  | .0000  | .0011    | .0012   | .0784   | .0001   | .0029   | .0004  |
| 3 CULTPER   | 0.0000  | 0.0000  | 1.0025  | .0011   | .0000   | 0.0000  | 0.0000  | .0006  | .0001  | .0002    | .0002   | .0116   | .0014   | .0003   | 0.0000 |
| 4 GANCARN   | .0001   | .0001   | .0001   | 1.0010  | .0110   | 0.0001  | 0.0000  | .0002  | .0004  | .0006    | .0007   | .0030   | .0006   | .0003   | .0001  |
| 5 PRODGAN   | .0035   | .0046   | .0074   | .0020   | 1.0018  | .0000   | .0001   | .0013  | .0002  | .0003    | .0003   | .2173   | .0007   | .0000   | .0014  |
| 6 SERAGRO   | .0010   | .0043   | .0041   | .0030   | .0200   | 1.0100  | .0052   | .0009  | .0001  | .0002    | .0001   | .0048   | .0000   | .0005   | .0010  |
| 7 SICAPAD   | 0.0000  | .0001   | .0001   | .0000   | .0001   | 0.0000  | 1.0002  | .0001  | .0004  | .0005    | .0010   | .0003   | .0002   | .0001   | .0001  |
| 8 FLESCA    | 0.0000  | 0.0000  | .0001   | .0005   | .0007   | 0.0000  | 0.0000  | 1.0001 | .0002  | .0004    | .0004   | .0015   | .0000   | .0001   | .0001  |
| 9 PETROL    | .0003   | .0020   | .0005   | .0020   | .0015   | .0022   | .0010   | .0134  | 1.0053 | .0005    | .0009   | .0027   | .0079   | .0103   | .0000  |
| 10 MINMETAL | .0000   | .0001   | .0005   | .0002   | .0002   | .0003   | .0014   | .0009  | .0000  | 1.0017   | .0006   | .0000   | .0001   | .0010   | .0000  |
| 11 MINOMET  | .0014   | .0055   | .0005   | .0045   | .0185   | .0011   | .0001   | .0002  | .0012  | .0000    | 1.0023  | .0000   | .0000   | .0003   | .0000  |
| 12 PRODLAC  | .0000   | .0000   | .0000   | .0000   | .0001   | 0.0000  | 0.0000  | .0027  | .0002  | .0004    | .0005   | 1.0000  | .0012   | .0011   | .0000  |
| 13 PROCPES  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 1.0000  | 0.0000  | 0.0000 |
| 14 HARIPES  | .0001   | .0001   | .0001   | .0020   | .0157   | 0.0000  | 0.0000  | .0002  | .0001  | .0001    | .0001   | .0000   | .0000   | 1.0000  | 0.0000 |
| 15 AZUCAR   | .0000   | .0001   | .0001   | .0011   | .0000   | 0.0000  | 0.0000  | .0004  | .0001  | .0002    | .0002   | .0004   | .0005   | .0002   | 1.0000 |
| 16 OTIPALI  | .0000   | .0004   | .0000   | .0100   | .0147   | .0001   | .0001   | .0004  | .0014  | .0000    | .0012   | .0074   | .0024   | .0000   | .0000  |
| 17 ALYANI   | .0000   | .0000   | .0000   | .0000   | .0253   | .0001   | 0.0000  | .0002  | .0001  | .0001    | .0002   | .0003   | .0002   | .0002   | .0000  |
| 18 LEBIDAS  | 0.0000  | 0.0000  | .0000   | .0002   | .0001   | 0.0000  | 0.0000  | .0000  | .0001  | .0002    | .0003   | .0002   | .0003   | .0003   | 0.0000 |
| 19 TABACO   | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 20 TEXTIL   | .0024   | .0039   | .0018   | .0026   | .0021   | .0007   | .0001   | .0032  | .0017  | .0009    | .0014   | .0012   | .0150   | .0021   | .0011  |
| 21 KOPA     | 0.0000  | 0.0000  | .0000   | .0002   | .0001   | 0.0000  | 0.0000  | .0001  | .0007  | .0005    | .0003   | .0002   | .0002   | .0005   | 0.0000 |
| 22 CUERO    | 0.0000  | 0.0000  | .0004   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | .0001  | 0.0000   | 0.0000  | .0001   | .0001   | .0001   | 0.0000 |
| 23 CALZADO  | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 24 MADERA   | .0001   | .0004   | .0017   | .0015   | .0004   | .0001   | .0007   | .0002  | .0012  | .0000    | .0000   | .0000   | .0000   | .0002   | .0001  |
| 25 KUEBLES  | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | .0003  | 0.0000 | .0001    | 0.0000  | 0.0000  | .0002   | .0002   | 0.0000 |
| 26 PAPELES  | .0000   | .0004   | .0005   | .0009   | .0000   | .0000   | .0007   | .0022  | .0000  | .0003    | .0023   | .0000   | .0144   | .0003   | .0000  |
| 27 IMPRENT  | .0003   | .0002   | .0002   | .0019   | .0000   | .0000   | .0004   | .0010  | .0007  | .0003    | .0021   | .0000   | .0000   | .0000   | .0000  |
| 28 QUIMICA  | .0160   | .0152   | .0101   | .0074   | .0062   | .0000   | .0003   | .0010  | .0013  | .0103    | .0131   | .0041   | .0015   | .0000   | .0000  |
| 29 FIBPART  | .0002   | .0002   | .0002   | .0003   | .0002   | .0001   | .0001   | .0010  | .0003  | .0004    | .0002   | .0004   | .0009   | .0012   | .0001  |
| 30 GTRQUIM  | .0004   | .0003   | .0004   | .0045   | .0045   | .0004   | .0025   | .0000  | .0003  | .0160    | .0071   | .0043   | .0019   | .0001   | .0000  |
| 31 FCFIFET  | .0005   | .0003   | .0016   | .0000   | .0049   | .0001   | .0000   | .0426  | .0169  | .0273    | .0284   | .0000   | .0252   | .0027   | .0179  |
| 32 CAUCHO   | .0011   | .0003   | .0002   | .0009   | .0005   | .0004   | .0013   | .0010  | .0005  | .0004    | .0005   | .0017   | .0022   | .0042   | .0014  |
| 33 PLASTIC  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0016    | .0011   | .0019   | .0015   | .0000   | .0000  |
| 34 CEMENTO  | .0002   | .0002   | .0001   | .0006   | .0004   | .0002   | .0002   | .0004  | .0009  | .0032    | .0013   | .0007   | .0007   | .0000   | .0000  |
| 35 ACEPO    | .0004   | .0002   | .0000   | .0004   | .0005   | .0011   | .0020   | .0010  | .0025  | .0140    | .0070   | .0000   | .0101   | .0047   | .0000  |
| 36 BASHOPE  | .0000   | .0001   | .0000   | .0003   | .0002   | .0003   | .0010   | .0011  | .0010  | .0016    | .0004   | .0007   | .0006   | .0022   | .0000  |
| 37 PRODMET  | .0015   | .0003   | .0016   | .0009   | .0000   | .0014   | .0010   | .0000  | .0006  | .0034    | .0010   | .0007   | .0019   | .0100   | .0000  |
| 38 MAGONDEL | .0011   | .0008   | .0003   | .0015   | .0024   | .0005   | .0007   | .0011  | .0004  | .0000    | .0009   | .0034   | .0001   | .0029   | .0000  |
| 39 MAGUEL   | .0000   | .0002   | .0002   | .0011   | .0000   | .0004   | .0000   | .0007  | .0025  | .0031    | .0012   | .0010   | .0102   | .0135   | .0011  |
| 40 MAGTRAN  | .0010   | .0005   | .0004   | .0012   | .0000   | .0005   | .0021   | .0102  | .0034  | .0035    | .0004   | .0010   | .0003   | .0005   | .0010  |

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MATRIZ INSUMO PRODUCTO PERU 1973

NACIONALES

|            | 1       | 2       | 3       | 4       | 5      | 6       | 7       | 8      | 9      | 10       | 11      | 12      | 13      | 14      | 15     |
|------------|---------|---------|---------|---------|--------|---------|---------|--------|--------|----------|---------|---------|---------|---------|--------|
|            | CULTIVO | CULTALI | CULTPER | GANCARN | PRODGA | SERAGRO | SICAMAD | PESCA  | PETROL | MINMETAL | MINOMET | PRODLAC | PRODPES | HARIPES | AZUCAR |
| 41 OTRINAN | .0001   | .0001   | .0001   | .0006   | .0003  | .0001   | .0001   | .0002  | .0013  | .0024    | .0007   | .0008   | .0004   | .0005   | .0001  |
| 42 ARTESAN | 0.0000  | 0.0000  | .0001   | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | .0001  | 0.0000   | 0.0000  | .0001   | 0.0000  | 0.0000  | 0.0000 |
| 43 ELEAGUA | .0010   | .0008   | .0007   | .0005   | .0021  | .0007   | .0004   | .0012  | .0063  | .0042    | .0110   | .0064   | .0034   | .0180   | .0021  |
| 44 CONSTRU | .0001   | .0001   | .0001   | .0002   | .0002  | .0004   | .0001   | .0003  | .0127  | .0022    | .0003   | .0004   | .0006   | .0011   | .0002  |
| 45 COMERCI | .0020   | .0170   | .0224   | .0657   | .0476  | .0242   | .0173   | .0603  | .0395  | .0445    | .0203   | .0527   | .0692   | .0492   | .0273  |
| 46 TRANSPO | .0365   | .0001   | .0067   | .0191   | .0120  | .0094   | .0400   | .0453  | .0526  | .0591    | .0061   | .0325   | .0352   | .0486   | .0183  |
| 47 BANCOS  | .0039   | .0011   | .0013   | .0057   | .0036  | .0016   | .0052   | .0225  | .0140  | .0142    | .0046   | .0099   | .0177   | .0581   | .0037  |
| 48 VIVIEND | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 49 EDUCACI | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | .0016  | .0034    | 0.0000  | 0.0000  | 0.0000  | .0001   | 0.0000 |
| 50 SALUD   | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | .0019  | .0029    | 0.0000  | 0.0000  | 0.0000  | .0001   | 0.0000 |
| 51 ADMIDIF | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 52 SEPVIV  | .0048   | .0028   | .0037   | .0648   | .0203  | .0036   | .0049   | .0109  | .0417  | .0642    | .0811   | .0557   | .0246   | .0329   | .0096  |
| 53 CINTRAC | 1.2440  | 1.2446  | 1.1158  | 1.8945  | 1.6932 | 1.3605  | 1.1549  | 1.3128 | 1.2454 | 1.3264   | 1.2123  | 1.8763  | 1.7702  | 1.7452  | 1.5864 |

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MATRIZ INSUMO PRODUCTO PERU 1973

NACIONALES

|             | 16     | 17     | 18      | 19     | 20     | 21     | 22     | 23      | 24     | 25      | 26      | 27     | 28      | 29      | 30       |
|-------------|--------|--------|---------|--------|--------|--------|--------|---------|--------|---------|---------|--------|---------|---------|----------|
|             | OTRALI | ALIANI | BEBIDAS | TABACO | TEXTIL | ROPA   | CUERO  | CALZADO | MADERA | MUEBLES | PAPELES | IMPRES | QUIMICA | FIBRARI | CTROQUIM |
| 1 CULTIND   | .0084  | .0051  | .0378   | .0924  | .2041  | .0661  | .0012  | .0038   | .0004  | .0122   | .0043   | .0036  | .0050   | .0016   | .0016    |
| 2 CULTALI   | .1700  | .2522  | .0180   | .0017  | .3121  | .0069  | .0633  | .0165   | .0029  | .0026   | .0014   | .0013  | .0042   | .0019   | .0022    |
| 3 CULTPER   | .0625  | .0051  | .0090   | 0.0000 | .0004  | .0043  | .0016  | .0005   | .0003  | .0003   | .0003   | .0003  | .0013   | .0010   | .0008    |
| 4 GANCARN   | .0155  | .0017  | .0007   | .0001  | .0009  | .0008  | .0026  | .0010   | .0006  | .0010   | .0005   | .0007  | .0007   | .0006   | .0008    |
| 5 PRODGAN   | .0054  | .0017  | .0005   | .0004  | .0219  | .0135  | .1649  | .0417   | .0003  | .0023   | .0003   | .0004  | .0005   | .0004   | .0015    |
| 6 SERAGRO   | .0108  | .0151  | .0036   | .0073  | .0166  | .0052  | .0056  | .0018   | .0081  | .0018   | .0004   | .0001  | .0006   | .0002   | .0003    |
| 7 SICAMAD   | .0004  | .0003  | .0005   | 0.0000 | .0002  | .0023  | .0528  | .0144   | .2256  | .0203   | .0003   | .0002  | .0002   | .0003   | .0020    |
| 8 PESCA     | .0091  | .0053  | .0004   | .0001  | .0007  | .0006  | .0025  | .0008   | .0004  | .0006   | .0003   | .0004  | .0004   | .0004   | .0013    |
| 9 PETROL    | .0036  | .0035  | .0030   | .0007  | .0028  | .0021  | .0025  | .0017   | .0042  | .0025   | .0006   | .0016  | .0001   | .0008   | .0023    |
| 10 MINETAL  | .0010  | .0005  | .0015   | .0005  | .0007  | .0015  | .0009  | .0019   | .0025  | .0052   | .0013   | .0026  | .0024   | .0005   | .0022    |
| 11 MINOMET  | .0031  | .0033  | .0022   | .0002  | .0008  | .0005  | .0036  | .0010   | .0022  | .0019   | .0003   | .0002  | .0028   | .0002   | .0016    |
| 12 PRODLAC  | .0015  | .0005  | .0004   | .0001  | .0004  | .0004  | .0003  | .0003   | .0004  | .0006   | .0003   | .0003  | .0003   | .0004   | .0006    |
| 13 PROGPES  | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000   |
| 14 HARTIPES | .0245  | .1247  | .0005   | 0.0000 | .0011  | .0008  | .0063  | .0017   | .0002  | .0003   | .0002   | .0001  | .0006   | .0122   | .0025    |
| 15 AZUCAR   | .0126  | .0056  | .0339   | .0002  | .0003  | .0003  | .0008  | .0004   | .0002  | .0002   | .0002   | .0010  | .0000   | .0009   | .0013    |
| 16 OTRALI   | 1.1688 | .0031  | .0204   | .0003  | .0051  | .0033  | .0295  | .0077   | .0044  | .0021   | .0049   | .0018  | .0235   | .0065   | .0041    |
| 17 ALIANI   | .0034  | 1.0022 | .0002   | .0001  | .0028  | .0018  | .0207  | .0053   | .0002  | .0005   | .0001   | .0002  | .0002   | .0002   | .0003    |
| 18 BEBIDAS  | .0009  | .0003  | 1.0327  | .0008  | .0011  | .0007  | .0003  | .0004   | .0003  | .0006   | .0003   | .0004  | .0003   | .0172   | .0043    |
| 19 TABACO   | 0.0000 | 0.0000 | 0.0000  | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000   |
| 20 TEXTIL   | .0186  | .0062  | .0011   | .0004  | 1.2331 | .3628  | .0051  | .0220   | .0018  | .0733   | .0030   | .0013  | .0000   | .0051   | .0047    |
| 21 ROPA     | .0002  | .0003  | .0002   | .0001  | .0003  | 1.0011 | .0002  | .0003   | .0003  | .0006   | .0002   | .0003  | .0004   | .0003   | .0004    |
| 22 CUERO    | .0001  | 0.0000 | .0001   | 0.0000 | .0001  | .0456  | 1.1634 | .2623   | .0001  | .0043   | .0001   | .0001  | .0001   | .0001   | .0002    |
| 23 CALZADO  | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | .0008  | .0006  | 1.0083  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000   |
| 24 MADERA   | .0016  | .0005  | .0011   | .0001  | .0003  | .0005  | .0019  | .0109   | 1.0672 | .0945   | .0010   | .0004  | .0003   | .0003   | .0006    |
| 25 MUEBLES  | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 1.0356  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000   |
| 26 PAPELES  | .0341  | .0002  | .0225   | .0114  | .0008  | .0116  | .0062  | .0233   | .0051  | .0070   | 1.3974  | .1309  | .0090   | .0071   | .0038    |
| 27 IMPRES   | .0031  | .0027  | .0037   | .0041  | .0009  | .0030  | .0017  | .0022   | .0023  | .0034   | .0047   | 1.0071 | .0024   | .0025   | .0006    |
| 28 QUIMICA  | .0124  | .0105  | .0045   | .0020  | .0109  | .0059  | .0337  | .0104   | .0053  | .0045   | .0275   | .0052  | 1.0542  | .0155   | .0231    |
| 29 FIBRARI  | .0024  | .0008  | .0007   | .0001  | .0003  | .0285  | .0077  | .0092   | .0028  | .0136   | .0015   | .0015  | .0043   | 1.0008  | .0129    |
| 30 CTROQUIM | .0035  | .0179  | .0018   | .0030  | .0059  | .0047  | .0075  | .0229   | .0149  | .0137   | .0149   | .0234  | .0075   | .0001   | 1.0300   |
| 31 KEFIPET  | .0115  | .0111  | .0094   | .0023  | .0090  | .0065  | .0079  | .0055   | .0135  | .0079   | .0178   | .0051  | .0320   | .0151   | .0071    |
| 32 CAUCHO   | .0017  | .0021  | .0011   | .0006  | .0019  | .0017  | .0014  | .0107   | .0021  | .0017   | .0030   | .0015  | .0021   | .0017   | .0016    |
| 33 PLASTIC  | .0042  | .0020  | .0067   | .0004  | .0035  | .0083  | .0071  | .0276   | .0013  | .0045   | .0033   | .0021  | .0045   | .0008   | .0232    |
| 34 CEMENTO  | .0023  | .0021  | .0023   | .0003  | .0006  | .0006  | .0013  | .0010   | .0013  | .0191   | .0011   | .0008  | .0078   | .0016   | .0125    |
| 35 ACERO    | .0022  | .0013  | .0032   | .0023  | .0016  | .0021  | .0019  | .0031   | .0042  | .0064   | .0041   | .0037  | .0025   | .0010   | .0047    |
| 36 BASNOFE  | .0013  | .0007  | .0019   | .0006  | .0009  | .0020  | .0012  | .0023   | .0033  | .0070   | .0016   | .0033  | .0027   | .0006   | .0027    |
| 37 PRODMET  | .0166  | .0132  | .0209   | .0013  | .0053  | .0113  | .0067  | .0183   | .0103  | .0423   | .0116   | .0184  | .0081   | .0036   | .0120    |
| 38 MAGNOEL  | .0058  | .0058  | .0046   | .0015  | .0055  | .0036  | .0042  | .0040   | .0055  | .0065   | .0097   | .0048  | .0098   | .0035   | .0036    |
| 39 MAQUEL   | .0018  | .0029  | .0012   | .0009  | .0019  | .0015  | .0012  | .0013   | .0019  | .0021   | .0029   | .0016  | .0023   | .0016   | .0018    |
| 40 PACTRAN  | .0022  | .0031  | .0000   | .0006  | .0017  | .0419  | .0016  | .0018   | .0022  | .0017   | .0015   | .0015  | .0016   | .0016   | .0018    |

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NACIONALES

|            | 16     | 17     | 18      | 19     | 20     | 21     | 22            | 23     | 24      | 25      | 26      | 27      | 28     | 29      | 30     |
|------------|--------|--------|---------|--------|--------|--------|---------------|--------|---------|---------|---------|---------|--------|---------|--------|
|            | OTRALI | ALIANI | BEBIDAS | TABACO | TEXTIL | ROPA   | CUERO CALZADO | MADERA | MUEBLES | PAPELES | IMPRESA | QUIMICA | FIERRA | OTRQUIM |        |
| 41 OTRIMAN | .0011  | .0008  | .0005   | .0002  | .0013  | .0082  | .0018         | .0027  | .0008   | .0017   | .0012   | .0027   | .0007  | .0009   | .0045  |
| 42 ARTESAN | .0000  | .0001  | .0001   | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000 |
| 43 ELCAGUA | .0095  | .0001  | .0050   | .0013  | .0107  | .0085  | .0083         | .0063  | .0063   | .0085   | .0219   | .0066   | .0418  | .0164   | .0058  |
| 44 CONSTRU | .0005  | .0006  | .0002   | .0001  | .0004  | .0005  | .0004         | .0004  | .0004   | .0004   | .0006   | .0004   | .0009  | .0005   | .0004  |
| 45 COMERCI | .1773  | .2035  | .0077   | .0361  | .1100  | .1572  | .1225         | .1599  | .1429   | .1321   | .1241   | .1233   | .1224  | .1266   | .1542  |
| 46 TRANSP  | .0388  | .0478  | .0157   | .0104  | .0299  | .0349  | .0280         | .0320  | .0383   | .0300   | .0262   | .0264   | .0263  | .0277   | .0328  |
| 47 BANCOS  | .0172  | .0181  | .0084   | .0043  | .0398  | .0368  | .0115         | .0156  | .0183   | .0372   | .0145   | .0197   | .0139  | .0139   | .0148  |
| 48 VIVIEND | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000 |
| 49 EDUCACI | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000 |
| 50 SALUD   | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000 |
| 51 ADMDEF  | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000 |
| 52 SEPVDIV | .0454  | .0545  | .0415   | .0160  | .0713  | .0704  | .0443         | .0495  | .0686   | .1096   | .0487   | .0830   | .0513  | .0665   | .0904  |
| 53 CINTNAC | 1.9128 | 2.0074 | 1.4086  | 1.2254 | 1.8781 | 1.9216 | 1.8389        | 1.8055 | 1.6722  | 1.7841  | 1.7748  | 1.4879  | 1.5238 | 1.3927  | 1.5213 |

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NACIONALES

|              | 31      | 32     | 33      | 34      | 35     | 36      | 37      | 38      | 39     | 40      | 41      | 42      | 43      | 44      | 45      |
|--------------|---------|--------|---------|---------|--------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
|              | REFIPET | CAUCHO | PLASTIC | CEMENTO | ACERO  | BASNOFE | PRODNET | MAGNOEL | MAQUEL | MAGTRAN | OTRIMAN | ARTESAN | ELEAGUA | CONSTRU | COMERCI |
| 1 CULTIND    | .0002   | .0128  | .0154   | .0007   | .0002  | .0004   | .0004   | .0003   | .0006  | .0000   | .0033   | .0276   | .0005   | .0007   | .0002   |
| 2 CULTALI    | .0004   | .0006  | .0015   | .0014   | .0008  | .0009   | .0009   | .0009   | .0007  | .0009   | .0062   | .0125   | .0008   | .0015   | .0008   |
| 3 CULTPER    | .0001   | .0003  | .0003   | .0002   | .0001  | .0002   | .0002   | .0001   | .0001  | .0003   | .0003   | .0021   | .0001   | .0002   | .0001   |
| 4 GANCARN    | .0102   | .0002  | .0107   | .0008   | .0005  | .0005   | .0004   | .0005   | .0004  | .0004   | .0010   | .0006   | .0005   | .0008   | .0005   |
| 5 PRODGAN    | .0001   | .0004  | .0005   | .0004   | .0002  | .0002   | .0004   | .0003   | .0004  | .0005   | .0028   | .0126   | .0003   | .0005   | .0002   |
| 6 SERAGRO    | .0000   | .0003  | .0005   | .0006   | .0002  | .0001   | .0001   | .0001   | .0001  | .0002   | .0007   | .0034   | .0001   | .0005   | .0001   |
| 7 SICAPAD    | .0002   | .0017  | .0005   | .0006   | .0005  | .0019   | .0011   | .0006   | .0011  | .0019   | .0017   | .0132   | .0004   | .0105   | .0007   |
| 8 PESCA      | .0001   | .0002  | .0007   | .0005   | .0004  | .0007   | .0003   | .0003   | .0003  | .0003   | .0006   | .0006   | .0003   | .0005   | .0003   |
| 9 PETROL     | .3195   | .0027  | .0019   | .0181   | .0003  | .0096   | .0034   | .0025   | .0020  | .0023   | .0025   | .0045   | .0121   | .0071   | .0052   |
| 10 MINETAL   | .0013   | .0015  | .0011   | .0012   | .0000  | .7469   | .0661   | .0208   | .0398  | .0091   | .0786   | .0328   | .0022   | .0088   | .0005   |
| 11 MINOMET   | .0023   | .0003  | .0004   | .0048   | .0018  | .0007   | .0029   | .0011   | .0006  | .0014   | .0015   | .0113   | .0016   | .0376   | .0002   |
| 12 PRODLAC   | .0001   | .0001  | .0004   | .0005   | .0003  | .0003   | .0003   | .0003   | .0002  | .0003   | .0006   | .0002   | .0003   | .0005   | .0003   |
| 13 PRODPES   | .0000   | .0000  | .0000   | .0000   | .0000  | .0000   | .0000   | .0000   | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   |
| 14 MARIPIPES | .0000   | .0001  | .0001   | .0001   | .0004  | .0001   | .0001   | .0001   | .0001  | .0001   | .0002   | .0012   | .0000   | .0001   | .0000   |
| 15 AZUCAR    | .0001   | .0002  | .0003   | .0005   | .0001  | .0002   | .0002   | .0002   | .0002  | .0002   | .0002   | .0012   | .0000   | .0001   | .0000   |
| 16 OTRALI    | .0007   | .0010  | .0007   | .0015   | .0001  | .0016   | .0015   | .0010   | .0006  | .0010   | .0019   | .0371   | .0008   | .0017   | .0007   |
| 17 ALIANI    | .0000   | .0001  | .0002   | .0002   | .0001  | .0001   | .0001   | .0001   | .0001  | .0001   | .0005   | .0017   | .0001   | .0002   | .0001   |
| 18 BERIDAS   | .0001   | .0002  | .0015   | .0003   | .0002  | .0002   | .0002   | .0002   | .0002  | .0002   | .0008   | .0003   | .0002   | .0003   | .0002   |
| 19 TABACO    | .0000   | .0000  | .0000   | .0000   | .0000  | .0000   | .0000   | .0000   | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   |
| 20 TEXTIL    | .0008   | .0168  | .0315   | .0020   | .0007  | .0008   | .0020   | .0012   | .0031  | .0043   | .0170   | .1634   | .0024   | .0032   | .0011   |
| 21 ROPA      | .0003   | .0001  | .0002   | .0004   | .0003  | .0004   | .0002   | .0002   | .0002  | .0003   | .0004   | .0004   | .0003   | .0004   | .0004   |
| 22 CUERO     | .0000   | .0002  | .0002   | .0001   | .0001  | .0001   | .0010   | .0005   | .0010  | .0013   | .0016   | .0361   | .0002   | .0005   | .0001   |
| 23 CALZADO   | .0000   | .0005  | .0001   | .0000   | .0000  | .0000   | .0000   | .0000   | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   |
| 24 MADERA    | .0005   | .0004  | .0016   | .0010   | .0000  | .0023   | .0030   | .0013   | .0040  | .0033   | .0037   | .0540   | .0007   | .0259   | .0011   |
| 25 MUEBLES   | .0000   | .0000  | .0000   | .0000   | .0005  | .0000   | .0002   | .0004   | .0156  | .0017   | .0001   | .0000   | .0002   | .0004   | .0001   |
| 26 PAPELES   | .0027   | .0061  | .0156   | .0426   | .0041  | .0034   | .0133   | .0053   | .0204  | .0058   | .0190   | .0050   | .0044   | .0141   | .0131   |
| 27 IMPRENT   | .0012   | .0011  | .0007   | .0030   | .0024  | .0028   | .0023   | .0024   | .0122  | .0025   | .0039   | .0015   | .0072   | .0043   | .0046   |
| 28 QUIMICA   | .0058   | .0096  | .0102   | .0078   | .0046  | .0082   | .0053   | .0049   | .0032  | .0053   | .0059   | .0043   | .0058   | .0033   | .0012   |
| 29 FIBRART   | .0002   | .0053  | .0023   | .0015   | .0005  | .0004   | .0016   | .0017   | .0059  | .0019   | .0091   | .0074   | .0004   | .0017   | .0003   |
| 30 OTRQUIM   | .0028   | .0157  | .0197   | .0039   | .0036  | .0147   | .0110   | .0114   | .0057  | .0127   | .0099   | .0130   | .0030   | .0106   | .0024   |
| 31 REFIPET   | 1.0143  | .0064  | .0061   | .0054   | .0230  | .0304   | .0109   | .0079   | .0063  | .0072   | .0080   | .0143   | .0063   | .0227   | .0168   |
| 32 CAUCHO    | .0018   | 1.0128 | .0017   | .0020   | .0030  | .0044   | .0029   | .0055   | .0029  | .0049   | .0036   | .0014   | .0017   | .0022   | .0064   |
| 33 PLASTIC   | .0008   | .0033  | 1.0141  | .0017   | .0015  | .0013   | .0038   | .0055   | .0117  | .0170   | .0092   | .0023   | .0023   | .0108   | .0025   |
| 34 CEMENTO   | .0010   | .0006  | .0011   | 1.1095  | .0124  | .0025   | .0052   | .0081   | .0029  | .0129   | .0021   | .0010   | .0063   | .1712   | .0008   |
| 35 ACERO     | .0034   | .0017  | .0020   | .0064   | 1.1971 | .0116   | .1312   | .1018   | .0294  | .0366   | .0094   | .0281   | .0035   | .0567   | .0009   |
| 36 BASNOFE   | .0016   | .0021  | .0013   | .0014   | .0338  | 1.0596  | .0866   | .0240   | .0488  | .0109   | .1097   | .0451   | .0029   | .0094   | .0006   |
| 37 PRODNET   | .0136   | .0062  | .0048   | .0067   | .0271  | .0036   | 1.0487  | .0378   | .0373  | .0238   | .0052   | .0205   | .0074   | .0003   | .0013   |
| 38 MAGNOEL   | .0125   | .0044  | .0048   | .0083   | .0503  | .0064   | .0120   | 1.0196  | .0050  | .0119   | .0039   | .0052   | .0025   | .0065   | .0021   |
| 39 MAQUEL    | .0016   | .0011  | .0018   | .0033   | .0378  | .0027   | .0080   | .0233   | 1.0070 | .0190   | .0059   | .0029   | .0154   | .0172   | .0032   |
| 40 MAGTRAN   | .0014   | .0014  | .0016   | .0010   | .0016  | .0030   | .0022   | .0026   | .0016  | 1.0856  | .0017   | .0017   | .0051   | .0025   | .0110   |

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NACIONALES

|            | 31      | 32     | 33      | 34      | 35     | 36      | 37      | 38      | 39     | 40      | 41      | 42      | 43      | 44      | 45      |
|------------|---------|--------|---------|---------|--------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
|            | REFIPET | CAUCHO | PLASTIC | CEMENTO | ACERO  | BASNOFE | PRODNET | MAGNOEL | MAQUEL | MAQTRAN | OTRIMAN | ARTESAN | ELEAGUA | CONSTRU | COMERCI |
| 41 OTRIMAN | .0005   | .0005  | .0017   | .0015   | .0008  | .0019   | .0010   | .0007   | .0010  | .0008   | 1.0029  | .0042   | .0018   | .0022   | .0019   |
| 42 ARTESAN | .0000   | .0000  | .0000   | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 1.0388  | .0002   | .0116   | 3.8000  |
| 43 ELEAGUA | .0050   | .0100  | .0117   | .0235   | .0252  | .0037   | .0096   | .0081   | .0051  | .0079   | .0063   | .0043   | 1.0127  | .0072   | .0048   |
| 44 CONSTRU | .0041   | .0004  | .0005   | .0007   | .0008  | .0018   | .0006   | .0004   | .0004  | .0025   | .0005   | .0005   | .0140   | 1.0005  | .0021   |
| 45 COMERCI | .0425   | .1251  | .1354   | .0613   | .1032  | .0586   | .1380   | .1180   | .1176  | .1634   | .1163   | .1385   | .0347   | .1353   | 1.0338  |
| 46 TRANSPD | .0229   | .0257  | .0289   | .0151   | .0254  | .0514   | .0320   | .0258   | .0264  | .0344   | .0295   | .0314   | .0132   | .0450   | .2369   |
| 47 BANCOS  | .0072   | .0099  | .0170   | .0141   | .0092  | .0137   | .0172   | .0150   | .0138  | .0123   | .0202   | .0118   | .0197   | .0124   | .0351   |
| 48 VIVIEND | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  |
| 49 EDUCACI | .0005   | .0000  | .0000   | .0001   | .0002  | .0026   | .0003   | .0001   | .0002  | .0001   | .0003   | .0001   | .0018   | .0001   | .0001   |
| 50 SALUD   | .0006   | .0000  | .0000   | .0001   | .0002  | .0024   | .0002   | .0001   | .0001  | .0001   | .0003   | .0001   | .0009   | .0001   | .0001   |
| 51 ADMIDEF | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  |
| 52 SERVDIV | .0209   | .0223  | .0734   | .0981   | .0584  | .0529   | .0491   | .0551   | .0443  | .0511   | .1070   | .0276   | .0520   | .0919   | .0565   |
| 53 CINTNAC | 1.4965  | 1.3046 | 1.4907  | 1.5973  | 1.7064 | 2.1122  | 1.6781  | 1.5118  | 1.5521 | 1.5980  | 1.6171  | 1.8276  | 1.2795  | 1.7760  | 1.4219  |

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NACIONALES

|            | 46      | 47     | 48      | 49      | 50     | 51      | 52     | 53      |
|------------|---------|--------|---------|---------|--------|---------|--------|---------|
|            | TRANSPC | BANCOS | VIVIEND | EDUCACI | SALUD  | ARMIDEF | SEPVIV | CINTNAC |
| 1 CULTIND  | .0003   | .0003  | .0012   | .0003   | .0035  | .0005   | .0015  | 1.9435  |
| 2 CULTALI  | .0012   | .0009  | .0005   | .0036   | .0167  | .0054   | .0154  | 2.7884  |
| 3 CULTPER  | .0003   | .0001  | .0001   | .0005   | .0023  | .0003   | .0021  | 1.1160  |
| 4 GANCAPN  | .0007   | .0006  | .0002   | .0021   | .0174  | .0011   | .0096  | 1.1100  |
| 5 FROGAN   | .0004   | .0003  | .0001   | .0005   | .0047  | .0007   | .0043  | 1.5300  |
| 6 SERAGRO  | .0001   | .0001  | .0001   | .0002   | .0013  | .0004   | .0010  | 1.3656  |
| 7 SICAMAD  | .0002   | .0001  | .0001   | .0000   | .0002  | .0004   | .0004  | 1.3681  |
| 8 PESCA    | .0004   | .0003  | .0002   | .0013   | .0060  | .0004   | .0056  | 1.8472  |
| 9 PETROL   | .0241   | .0005  | .0007   | .0106   | .0024  | .0038   | .0023  | 1.5842  |
| 10 MINMET  | .0013   | .0003  | .0009   | .0004   | .0024  | .0017   | .0013  | 2.1298  |
| 11 MINOMET | .0004   | .0001  | .0007   | .0002   | .0004  | .0010   | .0006  | 1.2347  |
| 12 PRODLAG | .0005   | .0004  | .0002   | .0014   | .0008  | .0003   | .0003  | 1.0649  |
| 13 FRODPCS | .0003   | .0004  | .0001   | .0000   | .0002  | .0000   | .0002  | 1.0000  |
| 14 HARIPES | .0001   | .0001  | .0001   | .0002   | .0007  | .0001   | .0000  | 1.2247  |
| 15 AZUCAR  | .0001   | .0002  | .0001   | .0003   | .0013  | .0002   | .0015  | 1.1230  |
| 16 OTRALI  | .0001   | .0000  | .0004   | .0009   | .0139  | .0013   | .0131  | 1.5525  |
| 17 ALIANI  | .0002   | .0001  | .0001   | .0013   | .0024  | .0003   | .0022  | 1.3876  |
| 18 BEBIDAS | .0003   | .0002  | .0001   | .0001   | .0003  | .0003   | .0032  | 1.0726  |
| 19 TABACO  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000 | 1.0000  |
| 20 TEXTIL  | .0014   | .0010  | .0070   | .0012   | .0009  | .0021   | .0048  | 2.1217  |
| 21 ROPA    | .0007   | .0012  | .0001   | .0013   | .0051  | .0024   | .0031  | 1.0316  |
| 22 CUERO   | .0001   | .0001  | .0001   | .0001   | .0003  | .0005   | .0006  | 1.5220  |
| 23 CALZADO | 0.0000  | 0.0000 | .0000   | 0.0000  | 0.0000 | .0012   | 0.0000 | 1.0118  |
| 24 MADERA  | .0004   | .0001  | .0019   | .0001   | .0002  | .0008   | .0014  | 1.3182  |
| 25 MUEBLES | .0003   | .0000  | .0001   | .0000   | .0001  | .0012   | .0001  | 1.0586  |
| 26 PAPELES | .0055   | .0165  | .0139   | .0079   | .0061  | .0113   | .0245  | 2.1339  |
| 27 IMPRENT | .0065   | .0054  | .0013   | .0047   | .0177  | .0147   | .0265  | 1.2278  |
| 28 QUIMICA | .0027   | .0011  | .0017   | .0005   | .0020  | .0030   | .0130  | 1.4341  |
| 29 FIBRART | .0005   | .0001  | .0005   | .0002   | .0011  | .0005   | .0010  | 1.2658  |
| 30 OTRQUIM | .0043   | .0016  | .0054   | .0020   | .0393  | .0131   | .0217  | 1.4650  |
| 31 REFIPET | .0764   | .0015  | .0022   | .0018   | .0076  | .0121   | .0074  | 1.8545  |
| 32 CAUCHO  | .0320   | .0005  | .0003   | .0007   | .0018  | .0020   | .0040  | 1.1970  |
| 33 PLASTIC | .0023   | .0004  | .0013   | .0002   | .0014  | .0014   | .0049  | 1.3261  |
| 34 CEMENTO | .0013   | .0003  | .0021   | .0010   | .0004  | .0046   | .0034  | 1.4548  |
| 35 ACERO   | .0028   | .0007  | .0041   | .0003   | .0013  | .0025   | .0010  | 1.7228  |
| 36 BASNOFE | .0016   | .0004  | .0011   | .0006   | .0032  | .0012   | .0017  | 1.5021  |
| 37 PPOOMET | .0036   | .0029  | .0028   | .0010   | .0074  | .0049   | .0027  | 1.6657  |
| 38 MAGHOEL | .0031   | .0024  | .0008   | .0003   | .0007  | .0019   | .0020  | 1.3414  |
| 39 MAGUEL  | .0127   | .0007  | .0027   | .0007   | .0047  | .0025   | .0000  | 1.3422  |
| 40 MAGTRAN | .0567   | .0006  | .0007   | .0003   | .0010  | .0068   | .0025  | 1.2568  |

A

MATRIZ INSUMO PRODUCTO PERU 1973

NACIONALES

|            | 46     | 47     | 48      | 49      | 50     | 51     | 52     | 53      |
|------------|--------|--------|---------|---------|--------|--------|--------|---------|
|            | TRANSP | BANCOS | VIVIEND | EDUCACI | SALUD  | ADMIDF | SERVIV | CINTNAC |
| 41 OTRINAN | .0019  | .0017  | .0053   | .0038   | .0026  | .0041  | .0092  | 1.0916  |
| 42 ARTESAN | 0.0000 | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 1.0626  |
| 43 ELEAGUA | .0045  | .0055  | .0012   | .0036   | .0003  | .0113  | .0083  | 1.4154  |
| 44 CONSTRU | .0014  | .0001  | .0098   | .0013   | .0002  | .0222  | .0003  | 1.1508  |
| 45 COMERCI | .0740  | .1124  | .0150   | .0149   | .0446  | .0259  | .0519  | 5.3920  |
| 46 TRANSP  | 1.0039 | .0095  | .0050   | .0033   | .0164  | .0095  | .0315  | 2.6501  |
| 47 BANCOS  | .0466  | 1.0566 | .0041   | .0199   | .0171  | .0345  | .0260  | 1.8854  |
| 48 VIVIEND | 0.0000 | 0.0000 | 1.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 1.0000  |
| 49 EDUCACI | .0002  | .0001  | 0.0000  | 1.0000  | 0.0000 | 0.0000 | .0002  | 1.0130  |
| 50 SALUD   | .0002  | 0.0000 | 0.0000  | 0.0000  | 1.0000 | 0.0000 | .0001  | 1.0113  |
| 51 ADMIDF  | 0.0000 | 0.0000 | 0.0000  | 0.0000  | 1.0000 | 1.0000 | 0.0000 | 1.0000  |
| 52 SERVIV  | .0822  | .0656  | .0291   | .0169   | .0382  | .0559  | 1.1341 | 3.6260  |
| 53 CINTNAC | 1.5407 | 1.1933 | 1.1481  | 1.1109  | 1.3204 | 1.2717 | 1.4682 | 3.0000  |

A



MATRIZ DE COEFICIENTES DIRECTOS E INDIRECTOS

PARA EL CASO B

MATRIZ INSUMO PRODUCTO PERU 1972

INVERSA (I-A) NACIONALES  
 MATRIZ DE REQUERIMIENTOS DIRECTOS E INDIRECTOS

|             | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8      | 9      | 10      | 11      | 12      | 13      | 14      | 15     |
|-------------|---------|---------|---------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|---------|--------|
|             | CULTIND | CULTALI | CULTPER | GANCARN | FRDDGAN | SERAGRO | SICAMAD | PESCA  | PETROL | MIMETAL | MINOMET | PRODLAC | FRDDPES | PARIPES | AZUCAR |
| 1 CULTIND   | 1.0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 2 CULTALI   | .0016   | 1.0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 3 CULTPER   | .0000   | .0000   | 1.0000  | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 4 GANCARN   | .0000   | .0000   | .0000   | 1.0000  | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 5 FRDDGAN   | .0000   | .0000   | .0000   | .0000   | 1.0000  | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 6 SERAGRO   | .0000   | .0000   | .0000   | .0000   | .0000   | 1.0000  | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 7 SICAMAD   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | 1.0000  | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 8 PESCA     | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | 1.0000 | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 9 PETROL    | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | 1.0000 | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 10 MIMETAL  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | 1.0000  | .0000   | .0000   | .0000   | .0000   | .0000  |
| 11 MINOMET  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | 1.0000  | .0000   | .0000   | .0000   | .0000  |
| 12 PRODLAC  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | 1.0000  | .0000   | .0000   | .0000  |
| 13 FRDDPES  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | 1.0000  | .0000   | .0000  |
| 14 PARIPES  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | 1.0000  | .0000  |
| 15 AZUCAR   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | 1.0000 |
| 16 GTRALI   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 17 ALIANI   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 18 BERTIDAS | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 19 TABACO   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 20 TEXTIL   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 21 POPA     | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 22 CUERO    | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 23 CALZADO  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 24 MADERA   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 25 MUEBLES  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 26 FAFELES  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 27 IMPRENT  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 28 QUIMICA  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 29 FIBRAT   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 30 QTRQUIM  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 31 PLFIPET  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 32 CAUCHO   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 33 PLASTIC  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 34 CEMENTO  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 35 ACEPO    | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 36 BASHOFF  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 37 PRODMET  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 38 MAGNOCL  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 39 MAGOFL   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |
| 40 MAGTRAN  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000  |



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 MATRIZ INSUMO PRODUCTO PERU 1973  
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NACIONALES

|            | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8      | 9      | 10       | 11      | 12      | 13      | 14      | 15     |
|------------|---------|---------|---------|---------|---------|---------|---------|--------|--------|----------|---------|---------|---------|---------|--------|
|            | CULTIND | CULTALI | CULTPER | GANCARN | PRODDGA | SERAGRO | SICAMAD | PESCA  | PETROL | MINMETAL | MINOMET | PRODLAC | PRODPES | HARIPES | AZUCAR |
| 41 OTRIMAN | .0001   | .0001   | .0001   | .0006   | .0003   | .0001   | .0001   | .0003  | .0013  | .0024    | .0007   | .0008   | .0004   | .0005   | .0001  |
| 42 ARTESAN | 1.0000  | 1.0000  | .7111   | 0.0000  | 0.0000  | 1.0000  | 0.0000  | 0.0000 | .7001  | 0.0000   | 0.0000  | .0001   | 0.0000  | 0.0000  | .0001  |
| 43 ELEAGUA | .001    | .0018   | .0007   | .0046   | .0021   | .0007   | .0005   | .0013  | .0064  | .0042    | .0110   | .0064   | .0035   | .0182   | .0021  |
| 44 CONSTRU | .0001   | .0001   | .0001   | .0002   | .0002   | .0004   | .0001   | .0003  | .0127  | .0022    | .0003   | .0004   | .0006   | .0011   | .0002  |
| 45 COMERCI | .0023   | .00178  | .00224  | .0657   | .0477   | .0242   | .0173   | .0605  | .0397  | .0446    | .0204   | .1526   | .0694   | .0498   | .0273  |
| 46 TRANSPO | .0365   | .0091   | .0067   | .0192   | .0128   | .0094   | .0401   | .0455  | .0527  | .0592    | .0061   | .0326   | .0353   | .0491   | .0182  |
| 47 BANCOS  | .0041   | .0012   | .0013   | .0060   | .0037   | .0016   | .0055   | .0235  | .0146  | .0148    | .0048   | .0104   | .0185   | .0608   | .0038  |
| 48 VIVIEND | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 49 EDUCACI | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | .0016  | .0134    | 0.0000  | 0.0000  | 0.0000  | .0001   | .0001  |
| 50 SALUD   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | .0019  | .0029    | 0.0000  | 0.0000  | 0.0000  | .0001   | .0000  |
| 51 ADMIDEF | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 52 SERVDIR | .0005   | .0029   | .0038   | .0651   | .0205   | .0437   | .0351   | .0121  | .0424  | .0651    | .0813   | .0562   | .0255   | .0360   | .0200  |
| 53 CIENMAC | 1.2446  | 1.2447  | 1.1167  | 1.8594  | 1.6537  | 1.3607  | 1.1557  | 1.3163 | 1.2476 | 1.3287   | 1.2130  | 1.8779  | 1.7730  | 1.7543  | 1.5877 |

B

MATRIZ INSUMO PRODUCTO PERU 1973

NACIONALES

|             | 16     | 17     | 18      | 19     | 20     | 21     | 22     | 23      | 24     | 25      | 26      | 27      | 28      | 29      | 30       |
|-------------|--------|--------|---------|--------|--------|--------|--------|---------|--------|---------|---------|---------|---------|---------|----------|
|             | OTRALI | ALIANI | BEBIDAS | TABACO | TEXTIL | ROPA   | CUERO  | CALZADO | MADERA | MUEBLES | PAPELES | IMPRESA | QUIMICA | FIBRART | OTROQUIM |
| 1 CULTIVO   | .0084  | .0051  | .0378   | .0924  | .2041  | .0601  | .0012  | .0038   | .0034  | .0122   | .0043   | .0006   | .0050   | .0016   | .0016    |
| 2 CULTALI   | .1706  | .2522  | .0100   | .0017  | .0121  | .0069  | .0633  | .0165   | .0029  | .0026   | .0014   | .0013   | .0042   | .0019   | .0022    |
| 3 CULTPER   | .0625  | .0051  | .0090   | 0.0000 | .0004  | .0003  | .0016  | .0005   | .0003  | .0003   | .0003   | .0003   | .0013   | .0010   | .0008    |
| 4 GANCARN   | .0155  | .0017  | .0007   | .0001  | .0009  | .0008  | .0026  | .0010   | .0006  | .0010   | .0005   | .0007   | .0007   | .0006   | .0006    |
| 5 PRODGAN   | .0054  | .0017  | .0005   | .0004  | .0019  | .0035  | .1649  | .0017   | .0003  | .0023   | .0003   | .0004   | .0005   | .0004   | .0015    |
| 6 SERAGRO   | .0104  | .0151  | .0036   | .0073  | .0166  | .0052  | .0056  | .0018   | .0081  | .0018   | .0004   | .0001   | .0016   | .0002   | .0003    |
| 7 SICAMAD   | .0009  | .0003  | .0005   | .0000  | .0002  | .0023  | .0528  | .0144   | .2256  | .0003   | .0003   | .0002   | .0002   | .0003   | .0002    |
| 8 PESCA     | .0091  | .0453  | .0004   | .0001  | .0007  | .0006  | .0025  | .0008   | .0004  | .0006   | .0003   | .0004   | .0015   | .0007   | .0013    |
| 9 PETROL    | .0034  | .0035  | .0030   | .0007  | .0028  | .0021  | .0025  | .0017   | .0043  | .0025   | .0056   | .0016   | .0111   | .0008   | .0003    |
| 10 MINMETAL | .0017  | .0005  | .0015   | .0005  | .0007  | .0015  | .0009  | .0020   | .0025  | .0052   | .0013   | .0002   | .0002   | .0005   | .0022    |
| 11 MINOMET  | .0031  | .0033  | .0022   | .0002  | .0008  | .0005  | .0036  | .0010   | .0002  | .0019   | .0003   | .0002   | .0028   | .0002   | .0016    |
| 12 PRODLAC  | .0015  | .0005  | .0004   | .0001  | .0004  | .0004  | .0003  | .0003   | .0004  | .0006   | .0003   | .0005   | .0003   | .0004   | .0006    |
| 13 PRODPES  | 1.0000 | 1.0000 | .0000   | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000   |
| 14 HARIPES  | .0245  | .1247  | .0005   | 0.0000 | .0011  | .0006  | .0063  | .0017   | .0002  | .0003   | .0002   | .0001   | .0016   | .0012   | .0005    |
| 15 AZUCAR   | .0126  | .0056  | .0035   | .0002  | .0003  | .0003  | .0008  | .0004   | .0002  | .0002   | .0002   | .0000   | .0000   | .0000   | .0013    |
| 16 OTRALI   | 1.1689 | .0931  | .0244   | .0003  | .0051  | .0034  | .0295  | .0077   | .0044  | .0021   | .0049   | .0019   | .0235   | .0066   | .0041    |
| 17 ALIANI   | .0034  | 1.0022 | .0000   | .0001  | .0029  | .0018  | .0007  | .0053   | .0002  | .0005   | .0001   | .0002   | .0002   | .0002   | .0003    |
| 18 BEBIDAS  | .0000  | .0003  | 1.0027  | .0000  | .0011  | .0007  | .0003  | .0004   | .0003  | .0006   | .0003   | .0004   | .0003   | .0172   | .0044    |
| 19 TABACO   | 0.0000 | 0.0000 | .0000   | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000   |
| 20 TEXTIL   | .0186  | .0063  | .0011   | .0004  | 1.2331 | .3628  | .0051  | .0220   | .0018  | .0734   | .0030   | .0014   | .0000   | .0000   | .0047    |
| 21 ROPA     | .0002  | .0003  | .0000   | .0001  | .0003  | 1.0011 | .0002  | .0003   | .0003  | .0006   | .0003   | .0003   | .0004   | .0003   | .0004    |
| 22 CUERO    | .0001  | .0001  | .0001   | 0.0000 | .0001  | .0456  | 1.1634 | .2623   | .0001  | .0043   | .0001   | .0001   | .0001   | .0001   | .0002    |
| 23 CALZADO  | 0.0000 | 0.0000 | .0000   | 0.0000 | 0.0000 | .0000  | .0006  | 1.0003  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000   |
| 24 MADERA   | .0016  | .0005  | .0011   | .0001  | .0003  | .0005  | .0019  | .0109   | 1.0672 | .0945   | .0010   | .0004   | .0003   | .0003   | .0006    |
| 25 MUEBLES  | .0006  | .0000  | .0000   | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 1.0356  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000   |
| 26 PAPELES  | .0344  | .0400  | .0230   | .0115  | .0674  | .0121  | .0063  | .0235   | .0053  | .0075   | 1.3976  | .1312   | .0052   | .0073   | .0388    |
| 27 IMPRESA  | .0031  | .0028  | .0007   | .0041  | .0031  | .0032  | .0017  | .0022   | .0024  | .0035   | .0048   | 1.0072  | .0025   | .0026   | .0067    |
| 28 QUIMICA  | .0124  | .0105  | .0045   | .0021  | .0109  | .0059  | .0337  | .0104   | .0053  | .0045   | .0276   | .0052   | 1.0543  | .0155   | .0231    |
| 29 FIBRART  | .0124  | .0008  | .0007   | .0001  | .0003  | .0265  | .0077  | .0092   | .0028  | .0136   | .0015   | .0015   | .0043   | 1.0008  | .0129    |
| 30 OTROQUIM | .0036  | .0180  | .0018   | .0030  | .0059  | .0047  | .0076  | .0229   | .0149  | .0137   | .0145   | .0234   | .0075   | .0081   | 1.0300   |
| 31 PEFIPET  | .0115  | .0112  | .0094   | .0023  | .0090  | .0066  | .0079  | .0055   | .0135  | .0080   | .0178   | .0052   | .0321   | .0151   | .0072    |
| 32 CAUCHO   | .0018  | .0021  | .0011   | .0006  | .0019  | .0017  | .0014  | .0107   | .0021  | .0018   | .0030   | .0015   | .0021   | .0017   | .0018    |
| 33 PLASTIC  | .0042  | .0020  | .0008   | .0004  | .0035  | .0003  | .0071  | .0276   | .0013  | .0045   | .0033   | .0021   | .0485   | .0008   | .0032    |
| 34 CEMENTO  | .0023  | .0021  | .0023   | .0003  | .0006  | .0006  | .0013  | .0010   | .0013  | .0191   | .0011   | .0008   | .0078   | .0010   | .0125    |
| 35 ACERO    | .0022  | .0013  | .0032   | .0023  | .0016  | .0021  | .0019  | .0031   | .0042  | .0064   | .0041   | .0037   | .0025   | .0010   | .0048    |
| 36 BASNOFE  | .0013  | .0007  | .0026   | .0006  | .0009  | .0020  | .0012  | .0023   | .0033  | .0070   | .0016   | .0034   | .0027   | .0006   | .0027    |
| 37 PRODMET  | .0107  | .0033  | .0019   | .0013  | .0054  | .0114  | .0067  | .0183   | .0104  | .0424   | .0116   | .0104   | .0001   | .0037   | .0121    |
| 38 MAGNOEL  | .0050  | .0058  | .0046   | .0015  | .0056  | .0037  | .0042  | .0041   | .0056  | .0066   | .0097   | .0048   | .0098   | .0036   | .0036    |
| 39 MAGUEL   | .0018  | .0029  | .0012   | .0009  | .0019  | .0015  | .0012  | .0013   | .0019  | .0021   | .0029   | .0016   | .0023   | .0018   | .0018    |
| 40 MAGTRAN  | .0022  | .0031  | .0009   | .0006  | .0017  | .0020  | .0016  | .0018   | .0022  | .0018   | .0015   | .0015   | .0016   | .0016   | .0018    |

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NACIONALES

|            | 16<br>ALUMINIO | 17<br>ALUMINIO | 18<br>BEBIDAS | 19<br>TABACO | 20<br>TEXTIL | 21<br>ROPA | 22<br>CUERO | 23<br>CALZADO | 24<br>MADERA | 25<br>MUEBLES | 26<br>PAPELES | 27<br>IMPRESION | 28<br>QUIMICA | 29<br>FIBRA | 30<br>OTROS |
|------------|----------------|----------------|---------------|--------------|--------------|------------|-------------|---------------|--------------|---------------|---------------|-----------------|---------------|-------------|-------------|
| 41 OTRIMAN | .0011          | .0009          | .0005         | .0002        | .0014        | .0062      | .0018       | .0027         | .0008        | .0017         | .0012         | .0001           | .0007         | .0009       | .0004       |
| 42 ARTESAN | .0005          | .0001          | .0001         | 0.0000       | 0.0000       | .0000      | 0.0000      | 0.0000        | 0.0000       | 0.0000        | 0.0000        | 0.0000          | 0.0000        | 0.0000      | .0000       |
| 43 ELEAGUA | .0005          | .0002          | .0001         | .0013        | .0009        | .0007      | .0003       | .0004         | .0004        | .0007         | .0220         | .0001           | .0016         | .0165       | .0005       |
| 44 CONSTRU | .0005          | .0006          | .0002         | .0001        | .0004        | .0005      | .0004       | .0004         | .0004        | .0004         | .0006         | .0004           | .0006         | .0005       | .0001       |
| 45 COMERCI | .1775          | .2037          | .0676         | .0361        | .1104        | .1575      | .1226       | .1501         | .1431        | .1325         | .1242         | .0200           | .1225         | .1286       | .154        |
| 46 TRANSPD | .0384          | .1479          | .0154         | .0104        | .0302        | .0352      | .0281       | .0311         | .0364        | .0393         | .0263         | .0001           | .0264         | .0278       | .032        |
| 47 BANCOS  | .018           | .197           | .0000         | .0045        | .0016        | .0005      | .0120       | .0113         | .0191        | .0389         | .0151         | .0001           | .0146         | .0145       | .015        |
| 48 VIVIEND | 0.000          | 0.000          | .0000         | 0.0000       | 0.0000       | 0.0000     | 0.0000      | 0.0000        | 0.0000       | 0.0000        | 0.0000        | 0.0000          | 0.0000        | 0.0000      | .0000       |
| 49 EDUCACI | 0.000          | 0.000          | .0000         | 0.0000       | 0.0000       | 0.0000     | 0.0000      | 0.0000        | 0.0000       | 0.0001        | .0001         | .0001           | .0001         | .0000       | .0000       |
| 50 SALUD   | 0.000          | 0.000          | .0000         | 0.0000       | 0.0000       | 0.0000     | 0.0000      | 0.0000        | 0.0000       | 0.0000        | 0.0000        | 0.0000          | .0001         | .0000       | .0000       |
| 51 ADMIDEF | 0.000          | 0.000          | .0000         | 0.0000       | 0.0000       | 0.0000     | 0.0000      | 0.0000        | 0.0000       | 0.0000        | 0.0000        | 0.0000          | 0.0000        | 0.0000      | .0000       |
| 52 SERVDIR | .0463          | .0555          | .0419         | .0162        | .0734        | .0723      | .0449       | .0503         | .0696        | .1116         | .0495         | .0000           | .0520         | .0672       | .091        |
| 53 CINTRAC | 1.9150         | 2.0172         | 1.4100        | 1.2261       | 1.6803       | 1.9274     | 1.6407      | 1.8079        | 1.6751       | 1.7899        | 1.7771        | 1.4000          | 1.5260        | 1.3949      | 1.503       |

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NACIONALES

|            | 31      | 32     | 33      | 34      | 35     | 36      | 37      | 38      | 39     | 40      | 41      | 42      | 43      | 44      | 45     |
|------------|---------|--------|---------|---------|--------|---------|---------|---------|--------|---------|---------|---------|---------|---------|--------|
|            | REFIPET | CAUCHO | PLASTIC | CEMENTO | ACERO  | BASNOFE | PRODMET | MAGNOEL | MAQUEL | MASTRAN | OTRIMAN | ARTESAN | ELEAGUA | CONSTRU | COMERC |
| 1 CULTIND  | .0002   | .0028  | .0054   | .0007   | .0002  | .0004   | .0004   | .0003   | .0006  | .0008   | .0033   | .0278   | .0005   | .0007   | .0003  |
| 2 CULTALT  | .0004   | .0036  | .0015   | .0015   | .0009  | .0010   | .0009   | .0009   | .0007  | .0009   | .0062   | .0125   | .0008   | .0015   | .0008  |
| 3 CULTPER  | .0001   | .0033  | .0003   | .0002   | .0001  | .0002   | .0002   | .0001   | .0001  | .0003   | .0003   | .0028   | .0001   | .0002   | .0001  |
| 4 GANCARN  | .0002   | .0002  | .0007   | .0008   | .0005  | .0005   | .0004   | .0005   | .0004  | .0004   | .0010   | .0009   | .0005   | .0008   | .0005  |
| 5 PRODGAN  | .0001   | .0004  | .0009   | .0004   | .0003  | .0003   | .0004   | .0003   | .0004  | .0005   | .0028   | .0126   | .0003   | .0005   | .0002  |
| 6 SERAGNO  | .0002   | .0003  | .0005   | .0002   | .0001  | .0002   | .0001   | .0001   | .0001  | .0002   | .0007   | .0034   | .0001   | .0005   | .0001  |
| 7 SICAMAD  | .0002   | .0017  | .0005   | .0006   | .0005  | .0019   | .0011   | .0006   | .0011  | .0019   | .0017   | .0132   | .0004   | .0105   | .0007  |
| 8 PESCA    | .0001   | .0002  | .0007   | .0005   | .0004  | .0003   | .0003   | .0003   | .0003  | .0003   | .0006   | .0006   | .0003   | .0005   | .0003  |
| 9 PETROL   | .0195   | .0020  | .0019   | .0181   | .0063  | .0096   | .0034   | .0025   | .0028  | .0023   | .0025   | .0045   | .0121   | .0072   | .0053  |
| 10 MIMETAL | .0013   | .0015  | .0010   | .0012   | .0080  | .0469   | .0661   | .0209   | .0398  | .0091   | .0786   | .0328   | .0022   | .0088   | .0005  |
| 11 MINOMET | .0023   | .0003  | .0004   | .0008   | .0018  | .0007   | .0029   | .0011   | .0006  | .0014   | .0015   | .0013   | .0016   | .0036   | .0002  |
| 12 PRODLAC | .0001   | .0001  | .0004   | .0005   | .0003  | .0003   | .0003   | .0003   | .0003  | .0003   | .0006   | .0002   | .0003   | .0005   | .0003  |
| 13 PRODPES | .0001   | .0001  | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001   | .0001   | .0001  |
| 14 HARIPES | .0001   | .0001  | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001   | .0001   | .0001  |
| 15 AZUCAR  | .0001   | .0002  | .0003   | .0005   | .0001  | .0002   | .0002   | .0002   | .0002  | .0002   | .0002   | .0002   | .0001   | .0002   | .0002  |
| 16 OTRALI  | .0007   | .0015  | .0020   | .0015   | .0009  | .0016   | .0015   | .0010   | .0008  | .0010   | .0019   | .0037   | .0008   | .0017   | .0007  |
| 17 ALLIANI | .0001   | .0001  | .0002   | .0002   | .0001  | .0001   | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001   | .0001   | .0001  |
| 18 PERIDAS | .0001   | .0002  | .0015   | .0003   | .0002  | .0002   | .0002   | .0002   | .0002  | .0002   | .0002   | .0002   | .0002   | .0002   | .0002  |
| 19 TABACO  | .0001   | .0001  | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001   | .0001   | .0001  |
| 20 TEXTIL  | .0001   | .0001  | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001   | .0001   | .0001  |
| 21 KOPA    | .0003   | .0001  | .0002   | .0004   | .0003  | .0004   | .0003   | .0003   | .0002  | .0003   | .0004   | .0004   | .0004   | .0004   | .0004  |
| 22 CUERO   | .0001   | .0002  | .0002   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001   | .0001   | .0001  |
| 23 CALZADO | .0001   | .0001  | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001   | .0001   | .0001  |
| 24 MADERA  | .0005   | .0004  | .0016   | .0010   | .0008  | .0023   | .0030   | .0013   | .0004  | .0003   | .0037   | .0540   | .0007   | .0259   | .0011  |
| 25 MUEBLES | .0001   | .0001  | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001   | .0001   | .0001  |
| 26 PAPELES | .0001   | .0001  | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001  | .0001   | .0001   | .0001   | .0001   | .0001   | .0001  |
| 27 IMPRENT | .0012   | .0012  | .0016   | .0031   | .0042  | .0036   | .0136   | .0055   | .0206  | .0060   | .0293   | .0051   | .0047   | .0143   | .0136  |
| 28 QUIMICA | .0058   | .0096  | .0102   | .0078   | .0046  | .0082   | .0053   | .0049   | .0032  | .0054   | .0059   | .0043   | .0059   | .0033   | .0013  |
| 29 FERRART | .0002   | .0003  | .0023   | .0015   | .0005  | .0004   | .0016   | .0017   | .0059  | .0019   | .0091   | .0074   | .0004   | .0017   | .0003  |
| 30 OTRGUM  | .0025   | .0017  | .0017   | .0039   | .0036  | .0147   | .0110   | .0114   | .0057  | .0127   | .0099   | .0131   | .0031   | .0106   | .0025  |
| 31 REFIPET | 1.0014  | .0064  | .0062   | .0574   | .0200  | .0305   | .0109   | .0079   | .0063  | .0072   | .0080   | .0143   | .0303   | .0227   | .0168  |
| 32 CAUCHO  | .0014   | 1.0012 | .0017   | .0028   | .0030  | .0044   | .0030   | .0055   | .0029  | .0049   | .0036   | .0014   | .0017   | .0022   | .0065  |
| 33 PLASTIC | .0004   | .0033  | 1.0014  | .0018   | .0015  | .0013   | .0030   | .0055   | .0117  | .0170   | .0092   | .0023   | .0023   | .0140   | .0025  |
| 34 CEMENTO | .0011   | .0006  | .0011   | 1.0095  | .0124  | .0025   | .0052   | .0081   | .0029  | .0129   | .0021   | .0010   | .0063   | .0172   | .0009  |
| 35 ACEPO   | .0034   | .0017  | .0020   | .0065   | 1.0071 | .0016   | .0312   | .0018   | .0024  | .0036   | .0094   | .0281   | .0035   | .0567   | .0009  |
| 36 BASNOFE | .0014   | .0021  | .0013   | .0014   | .0038  | 1.0096  | .0660   | .0240   | .0488  | .0109   | .0197   | .0451   | .0029   | .0095   | .0006  |
| 37 PRODMET | .0037   | .0002  | .0009   | .0067   | .0272  | .0037   | 1.0087  | .0308   | .0374  | .0238   | .0053   | .0205   | .0079   | .0003   | .0014  |
| 38 MAGNOEL | .0025   | .0004  | .0009   | .0003   | .0003  | .0004   | .0120   | 1.00196 | .0050  | .0019   | .0040   | .0052   | .0026   | .0065   | .0021  |
| 39 MAQUEL  | .0014   | .0011  | .0003   | .0003   | .0003  | .0003   | .0003   | .0003   | 1.0070 | .0018   | .0059   | .0029   | .0014   | .0013   | .0032  |
| 40 MASTRAN | .0014   | .0014  | .0017   | .0010   | .0016  | .0030   | .0022   | .0026   | .0016  | 1.0856  | .0017   | .0017   | .0052   | .0025   | .0110  |

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 PATRIZ INSUMO PRODUCTO PERU 1973  
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NACIONALES

|            | 31      | 32     | 33      | 34      | 35     | 36      | 37      | 38      | 39     | 40      | 41      | 42      | 43      | 44      | 45      |
|------------|---------|--------|---------|---------|--------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
|            | REFIPEY | CAUCHO | PLASTIC | CEMENTO | ACERO  | BASNOFE | PRODNET | MAQNOEL | MAQUEL | MAOTRAN | OTRIMAN | ARTESAN | ELEAGUA | CONSTRU | COMERCI |
| 41 OTRIMAN | .0085   | .0095  | .0017   | .0015   | .0008  | .0020   | .0010   | .0007   | .0010  | .0008   | 1.0029  | .0042   | .0016   | .0022   | .0019   |
| 42 ARTESAN | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 1.0380  | .0002   | .0116   | 0.0000  |
| 43 ELEAGUA | .0051   | .0100  | .0117   | .0235   | .0252  | .0037   | .0096   | .0081   | .0052  | .0080   | .0064   | .0043   | 1.0128  | .0073   | .0050   |
| 44 CONSTRU | .0041   | .0004  | .0005   | .0007   | .0008  | .0018   | .0006   | .0004   | .0004  | .0025   | .0005   | .0005   | .0140   | 1.0005  | .0222   |
| 45 COMERCI | .0426   | .1252  | .1356   | .0615   | .1023  | .0589   | .1381   | .1182   | .1177  | .1636   | .1165   | .1386   | .0349   | .1355   | 1.0341  |
| 46 TRANSP  | .0229   | .0258  | .0291   | .0152   | .1255  | .0515   | .0321   | .0259   | .0265  | .0345   | .0297   | .0315   | .0154   | .0451   | .0272   |
| 47 BANCOS  | .0075   | .0104  | .0177   | .0148   | .0096  | .0143   | .0100   | .0165   | .0144  | .0129   | .0211   | .0173   | .0206   | .0129   | .0367   |
| 48 VIVIEND | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  |
| 49 EDUCACI | .0005   | .0000  | .0000   | .0001   | .0003  | .0026   | .0003   | .0001   | .0002  | .0001   | .0003   | .0001   | .0001   | .0001   | .0001   |
| 50 SALUD   | .0006   | .0000  | .0000   | .0001   | .0002  | .0024   | .0002   | .0001   | .0001  | .0001   | .0003   | .0001   | .0001   | .0001   | .0001   |
| 51 ADMIDF  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  |
| 52 SERVIV  | .0213   | .0228  | .0803   | .0986   | .0589  | .0536   | .0500   | .0559   | .0450  | .0518   | .1089   | .0283   | .0530   | .0926   | .0584   |
| 53 CINTRAC | 1.4976  | 1.3764 | 1.4934  | 1.5995  | 1.7000 | 2.1143  | 1.6800  | 1.5142  | 1.5543 | 1.6001  | 1.6203  | 1.8295  | 1.2825  | 1.7779  | 1.4274  |

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NACIONALES

|             | 46     | 47     | 48      | 49      | 50    | 51      | 52      | 53      |
|-------------|--------|--------|---------|---------|-------|---------|---------|---------|
|             | TRANSP | BARCOS | VIVIENE | EDUCACT | SALLE | ADMIDER | SERVDIV | CINTNAC |
| 1 CULTIND   | .0002  | .0001  | .0001   | .0003   | .0009 | .0005   | .0015   | 1.9439  |
| 2 CULTALI   | .0012  | .0017  | .0005   | .0036   | .0167 | .0054   | .0154   | 2.7896  |
| 3 CULTPEN   | .0002  | .0002  | .0001   | .0005   | .0023 | .0003   | .0021   | 1.1162  |
| 4 GANCARN   | .0007  | .0010  | .0002   | .0021   | .0034 | .0011   | .0096   | 1.1108  |
| 5 FRODGAN   | .0004  | .0005  | .0003   | .0009   | .0047 | .0007   | .0043   | 1.5354  |
| 6 SERACRO   | .0001  | .0001  | .0001   | .0002   | .0013 | .0004   | .0010   | 1.3650  |
| 7 SICAMAG   | .0002  | .0003  | .0002   | .0003   | .0022 | .0004   | .0004   | 1.3682  |
| 8 PESCA     | .0004  | .0006  | .0002   | .0013   | .0061 | .0004   | .0056   | 1.0476  |
| 9 PETPOL    | .0001  | .0001  | .0001   | .0006   | .0024 | .0003   | .0023   | 1.5849  |
| 10 MINETAL  | .0003  | .0004  | .0002   | .0004   | .0024 | .0013   | .0013   | 2.1302  |
| 11 MINOMET  | .0004  | .0007  | .0002   | .0012   | .0034 | .0013   | .0006   | 1.2348  |
| 12 FRODLAC  | .0002  | .0003  | .0002   | .0004   | .0026 | .0003   | .0003   | 1.0655  |
| 13 FRODRES  | .0001  | .0001  | .0001   | .0001   | .0002 | .0001   | .0002   | 1.0009  |
| 14 HARIDES  | .0001  | .0001  | .0001   | .0002   | .0007 | .0001   | .0006   | 1.2247  |
| 15 AZUCAR   | .0002  | .0004  | .0001   | .0003   | .0013 | .0002   | .0015   | 1.1233  |
| 16 CTRALI   | .0011  | .0015  | .0005   | .0029   | .0179 | .0013   | .0131   | 2.5537  |
| 17 ALIAMI   | .0002  | .0002  | .0001   | .0013   | .0024 | .0002   | .0022   | 1.3878  |
| 18 BULFIDAS | .0001  | .0001  | .0001   | .0001   | .0003 | .0003   | .0003   | 1.0729  |
| 19 TABACO   | .0001  | .0001  | .0001   | .0001   | .0001 | .0001   | .0001   | 1.0000  |
| 20 TEXTIL   | .0014  | .0019  | .0007   | .0012   | .0085 | .0021   | .0049   | 2.1233  |
| 21 KOPA     | .0001  | .0002  | .0001   | .0003   | .0001 | .0004   | .0002   | 1.0334  |
| 22 CUERO    | .0002  | .0002  | .0001   | .0001   | .0003 | .0005   | .0006   | 1.5222  |
| 23 CALZADO  | .0001  | .0001  | .0001   | .0001   | .0001 | .0002   | .0001   | 1.0110  |
| 24 MADERA   | .0004  | .0007  | .0003   | .0001   | .0002 | .0000   | .0014   | 1.3184  |
| 25 MUEBLES  | .0001  | .0001  | .0001   | .0001   | .0001 | .0002   | .0001   | 1.0580  |
| 26 PAPELES  | .0002  | .0003  | .0001   | .0001   | .0003 | .0016   | .0049   | 2.1592  |
| 27 IMPRENT  | .0007  | .0010  | .0003   | .0004   | .0018 | .0049   | .0066   | 1.2360  |
| 28 QUIMICA  | .0001  | .0001  | .0001   | .0005   | .0020 | .0001   | .0013   | 1.4358  |
| 29 FIBRART  | .0005  | .0007  | .0003   | .0002   | .0011 | .0005   | .0011   | 1.2661  |
| 30 OTROGUI  | .0004  | .0003  | .0004   | .0021   | .0023 | .0032   | .0017   | 1.4675  |
| 31 REFRIFET | .0004  | .0007  | .0002   | .0018   | .0076 | .0021   | .0074   | 1.0568  |
| 32 CAUCHO   | .0002  | .0003  | .0001   | .0007   | .0016 | .0021   | .0040   | 1.1978  |
| 33 PLASTICO | .0001  | .0001  | .0001   | .0002   | .0014 | .0014   | .0049   | 1.3267  |
| 34 CEMENTO  | .0003  | .0005  | .0002   | .0010   | .0036 | .0046   | .0034   | 1.4553  |
| 35 ACEHO    | .0002  | .0002  | .0001   | .0003   | .0013 | .0025   | .0010   | 1.7230  |
| 36 PASNOFE  | .0001  | .0001  | .0001   | .0006   | .0032 | .0012   | .0016   | 1.5027  |
| 37 FRODMET  | .0007  | .0004  | .0002   | .0011   | .0075 | .0005   | .0027   | 1.6702  |
| 38 MAGNCEL  | .0002  | .0003  | .0001   | .0003   | .0008 | .0002   | .0021   | 1.3451  |
| 39 MAGUEL   | .0002  | .0004  | .0001   | .0007   | .0047 | .0025   | .0001   | 1.3433  |
| 40 MAGTRIN  | .0001  | .0001  | .0001   | .0003   | .0010 | .0008   | .0026   | 1.2576  |



PATRIZ INSUMO PRODUCTO PERU 1973

NACIONALES

|            | 46     | 47     | 48      | 49      | 5      | 51     | 52      | 53      |
|------------|--------|--------|---------|---------|--------|--------|---------|---------|
|            | TRANSP | BANCOS | VIVIEND | EDUCACI | SALUD  | ADMIDF | SERVDIV | CINTNAC |
| 41 OTFIMAN | .0019  | .0013  | .0033   | .0038   | .0086  | .0041  | .0092   | 1.0927  |
| 42 ARTESAN | 0.0000 | 0.0000 | 0.0000  | 0.0000  | 0.0000 | .0003  | 0.0000  | 1.0626  |
| 43 ELEAGUA | .0047  | .0112  | .0012   | .0037   | .0004  | .0114  | .0085   | 1.4237  |
| 44 CONSTRU | .0014  | .0002  | .0098   | .0013   | .0002  | .0222  | .0003   | 1.1510  |
| 45 COMERCI | .0749  | .0230  | .0160   | .0111   | .0448  | .0263  | .0521   | 5.4139  |
| 46 TRANSP  | 1.0843 | .0176  | .006    | .0035   | .0165  | .0097  | .0317   | 2.6646  |
| 47 BANCOS  | .0481  | 1.1051 | .0043   | .0208   | .0179  | .0361  | .0272   | 1.9718  |
| 48 VIVIEND | 0.0000 | .0000  | 1.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000  | 1.0000  |
| 49 EDUCACI | .0002  | .0002  | .0000   | 1.0000  | 0.0000 | 0.0000 | .0002   | 1.0131  |
| 50 SALUD   | .0000  | .0000  | .0000   | 0.0000  | 1.0000 | 0.0000 | .0001   | 1.0113  |
| 51 ADMIDF  | 0.0000 | 0.0000 | .0000   | 0.0000  | 0.0000 | 1.0000 | 0.0000  | 1.0000  |
| 52 SERVDIV | .0047  | .1218  | .0293   | .0179   | .0391  | .0578  | 1.1354  | 5.7262  |
| 53 CINTNAC | 1.5461 | 1.3506 | 1.1867  | 1.1040  | 1.3231 | 1.2771 | 1.4723  | 0.0000  |

B

MATRIZ DE COEFICIENTES DIRECTOS E INDIRECTOS

PARA EL CASO C

MATRIZ INSUMOS PRODUCTO PERU 1977

INVERSA (I-A)<sup>-1</sup> NACIONALES  
MATRIZ DE REQUERIMIENTOS DIRECTOS E INDIRECTOS

|             | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8      | 9      | 10       | 11      | 12      | 13      | 14      | 15     |
|-------------|---------|---------|---------|---------|---------|---------|---------|--------|--------|----------|---------|---------|---------|---------|--------|
|             | CULTIND | CULTALI | CULTFER | GANCARN | PRODGAN | SERAGRO | SICAMAD | PESCA  | PETROL | MINMETAL | MINOMET | PRODLAG | PRODPES | HARIPES | AZUCAR |
| 1 CULTIND   | 1.0391  | .0007   | .0003   | .0012   | .0009   | .0001   | .0000   | .0007  | .0007  | .0005    | .0003   | .0019   | .0024   | .0039   | .0020  |
| 2 CULTALI   | .0161   | 1.1044  | .0035   | .0326   | .0367   | .1823   | .0064   | .0067  | .0008  | .0012    | .0012   | .0074   | .0061   | .0030   | .0064  |
| 3 CULTPER   | 0.0000  | 0.0000  | 1.0025  | .0011   | .0008   | 0.0000  | 0.0000  | .0006  | .0001  | .0002    | .0002   | .0116   | .0014   | .0003   | .0000  |
| 4 GANCARN   | .0001   | .0001   | .0001   | 1.0010  | .0010   | 0.0000  | 0.0000  | .0002  | .0004  | .0006    | .0007   | .0030   | .0035   | .0004   | .0001  |
| 5 PRODGAN   | .0035   | .0046   | .0074   | .0020   | 1.0018  | .0008   | .0001   | .0013  | .0002  | .0003    | .0003   | .0173   | .0007   | .0008   | .0014  |
| 6 SERAGRO   | .0012   | .0043   | .0041   | .0237   | .0208   | 1.0006  | .0352   | .0009  | .0001  | .0002    | .0001   | .0146   | .0006   | .0005   | .0310  |
| 7 SICAMAD   | 0.0000  | .0001   | .0040   | .0004   | .0001   | 0.0000  | 1.0002  | .0001  | .0004  | .0025    | .0010   | .0013   | .0002   | .0001   | .0001  |
| 8 PESCA     | 0.0000  | 0.0000  | .0001   | .0005   | .0057   | 0.0000  | 0.0000  | 1.0001 | .0002  | .0004    | .0004   | .0015   | .0015   | .0011   | .0001  |
| 9 PETROL    | .0000   | .0000   | .0005   | .0026   | .0015   | .0252   | .0018   | .00134 | 1.0053 | .0086    | .0089   | .0027   | .0079   | .0002   | .0000  |
| 10 MINMETAL | .0002   | .0001   | .0005   | .0002   | .0002   | .0003   | .0014   | .0009  | .0008  | 1.0017   | .0006   | .0050   | .0051   | .0018   | .0003  |
| 11 MINOMET  | .0014   | .0055   | .0069   | .0045   | .0065   | .0011   | .0001   | .0002  | .0012  | .0008    | 1.0023  | .0057   | .0004   | .0003   | .0000  |
| 12 PRODLAG  | 0.0000  | 0.0000  | .0000   | .0004   | .0001   | 0.0000  | 0.0000  | .0027  | .0003  | .0004    | .0005   | 1.0005  | .0012   | .0010   | .0001  |
| 13 PRODPES  | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 1.0000  | 0.0000  | .0000  |
| 14 HARIPES  | .0001   | .0001   | .0001   | .0028   | .0157   | 0.0000  | 0.0000  | .0002  | .0001  | .0001    | .0001   | .0035   | .0006   | 1.0001  | .0000  |
| 15 AZUCAR   | .0002   | .0001   | .0001   | .0011   | .0008   | 0.0000  | 0.0000  | .0004  | .0001  | .0002    | .0002   | .0041   | .0005   | .0002   | 1.0000 |
| 16 CTRALI   | .0005   | .0004   | .0008   | .0186   | .0147   | .0002   | .0001   | .0005  | .0014  | .0002    | .0012   | .0074   | .0047   | .0039   | .0002  |
| 17 ALIARI   | .0005   | .0006   | .0009   | .1637   | .1252   | .0001   | 1.0000  | .0002  | .0001  | .0001    | .0002   | .0073   | .0002   | .0002   | .0000  |
| 18 BEBIDAS  | 0.0000  | 0.0000  | .0000   | .0002   | .0001   | 0.0000  | 0.0000  | .0006  | .0002  | .0003    | .0003   | .0002   | .0003   | .0003   | .0000  |
| 19 TABACO   | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | .0000  |
| 20 TEXTIL   | .0024   | .0039   | .0018   | .0026   | .0021   | .0007   | .0001   | .0392  | .0017  | .0009    | .0014   | .0012   | .0156   | .0231   | .0011  |
| 21 ROPA     | 0.0000  | 0.0000  | .0000   | .0002   | .0001   | 0.0000  | 0.0000  | .0001  | .0006  | .0005    | .0003   | .0002   | .0005   | .0005   | .0001  |
| 22 CUERO    | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | .0001  | .0001    | 0.0000  | .0001   | .0001   | .0001   | 0.0000 |
| 23 CALZADO  | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | .0000  |
| 24 MADERA   | .0001   | .0004   | .0018   | .0015   | .0004   | .0001   | .0007   | .0002  | .0013  | .0000    | .0008   | .0007   | .0004   | .0003   | .0001  |
| 25 PUEBLES  | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | .0003  | 0.0000 | .0001    | 0.0000  | 0.0000  | .0002   | .0002   | .0000  |
| 26 PAPELES  | .0007   | .0004   | .0005   | .0004   | .0005   | .0006   | .0008   | .0025  | .0032  | .0035    | .0024   | .0061   | .0146   | .0070   | .0064  |
| 27 IMPRENT  | .0004   | .0002   | .0002   | .0019   | .0008   | .0002   | .0004   | .0011  | .0028  | .0034    | .0021   | .0053   | .0065   | .0032   | .0004  |
| 28 QUIMICA  | .0165   | .0152   | .0101   | .0074   | .0062   | .0030   | .0003   | .0010  | .0013  | .0104    | .0131   | .0041   | .0015   | .0020   | .0074  |
| 29 FIBPART  | .0002   | .0002   | .0002   | .0003   | .0002   | .0001   | .0001   | .0018  | .0003  | .0004    | .0002   | .0004   | .0001   | .0002   | .0001  |
| 30 OTRQUIM  | .0004   | .0003   | .0006   | .0045   | .0045   | .0014   | .0025   | .0002  | .0073  | .0169    | .0071   | .0043   | .0019   | .0062   | .0005  |
| 31 REFIPET  | .0095   | .0063   | .0016   | .0090   | .0049   | .0001   | .0058   | .0427  | .0170  | .0273    | .0284   | .0086   | .0252   | .0328   | .0179  |
| 32 CAUCHO   | .0011   | .0003   | .0002   | .0009   | .0005   | .0004   | .0013   | .0018  | .0035  | .0054    | .0005   | .0017   | .0022   | .0042   | .0014  |
| 33 PLASTIC  | .0009   | .0008   | .0006   | .0009   | .0006   | .0003   | .0002   | .0007  | .0008  | .0016    | .0011   | .0019   | .0016   | .0010   | .0005  |
| 34 CEMENTO  | .0002   | .0002   | .0001   | .0001   | .0004   | .0002   | .0002   | .0004  | .0029  | .0032    | .0013   | .0067   | .0008   | .0008   | .0001  |
| 35 ACERO    | .0004   | .0002   | .0006   | .0004   | .0005   | .0011   | .0028   | .0010  | .0025  | .0148    | .0070   | .0008   | .0101   | .0047   | .0006  |
| 36 PASNOFE  | .0002   | .0001   | .0006   | .0003   | .0002   | .0002   | .0018   | .0011  | .0019  | .0016    | .0004   | .0057   | .0066   | .0022   | .0002  |
| 37 PPODMET  | .0015   | .0003   | .0016   | .0009   | .0007   | .0014   | .0010   | .0020  | .0046  | .0034    | .0010   | .0058   | .0019   | .0007   | .0002  |
| 38 MAGNDEL  | .0011   | .0008   | .0003   | .0015   | .0024   | .0005   | .0007   | .0012  | .0054  | .0066    | .0010   | .0034   | .0001   | .0000   | .0002  |
| 39 MAGUFL   | .0005   | .0002   | .0002   | .0011   | .0006   | .0004   | .0006   | .0197  | .0025  | .0033    | .0012   | .0018   | .0102   | .0135   | .0011  |
| 40 MAGTRAN  | .0014   | .0005   | .0004   | .0012   | .0008   | .0005   | .0021   | .0102  | .0034  | .0035    | .0004   | .0018   | .0053   | .0065   | .0010  |

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MATRIZ INSUMO PRODUCTO PERU 1973

NACIONALES

|             | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8      | 9      | 10       | 11      | 12      | 13      | 14      | 15     |
|-------------|---------|---------|---------|---------|---------|---------|---------|--------|--------|----------|---------|---------|---------|---------|--------|
|             | CULTIND | CULTALI | CULTFER | CANCARN | PRODEAN | SERACRO | SICAMAD | PESCA  | PETROL | MINMETAL | MINOMET | PROULAC | PRODPES | MARIPES | AZUCAR |
| 41 OTRIMAN  | .0091   | .0001   | .0001   | .0006   | .0003   | .0001   | .0001   | .0003  | .0013  | .0024    | .0007   | .0008   | .0004   | .0005   | .0001  |
| 42 ARTESAN  | 0.0000  | 0.0000  | .0181   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | .0001  | 0.0000   | 0.0000  | .0001   | 0.0000  | 0.0000  | .0000  |
| 43 ELEAGUA  | .0010   | .0000   | .0007   | .0046   | .0021   | .0007   | .0005   | .0013  | .0064  | .0042    | .0110   | .0064   | .0035   | .0182   | .0021  |
| 44 CONSTRU  | .0001   | .0001   | .0001   | .0002   | .0002   | .0004   | .0001   | .0003  | .0127  | .0022    | .0003   | .0104   | .0016   | .0011   | .0002  |
| 45 COMERCI  | .0230   | .0176   | .0224   | .0657   | .0477   | .0242   | .0173   | .0605  | .0397  | .0446    | .0294   | .0528   | .0694   | .0492   | .0072  |
| 46 TRANSPO  | .0365   | .0091   | .0067   | .0192   | .0128   | .0094   | .0461   | .0455  | .0527  | .0592    | .0061   | .0326   | .0353   | .0491   | .0003  |
| 47 BANCOS   | .0072   | .0021   | .0024   | .0107   | .0066   | .0029   | .0097   | .0417  | .0259  | .0263    | .0086   | .0165   | .0329   | .0078   | .0000  |
| 48 VIVIEND  | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 49 EDUCACI  | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | .0016  | .0034    | 0.0000  | 0.0000  | 0.0000  | .0001   | .0000  |
| 50 SALUD    | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | .0019  | .0029    | 0.0000  | 0.0000  | 0.0000  | .0001   | .0000  |
| 51 ADMIDEF  | 0.0000  | 0.0000  | .0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000   | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 52 SERVICIV | .0050   | .0029   | .0034   | .0651   | .0205   | .0037   | .0051   | .0121  | .0424  | .0650    | .0013   | .0562   | .0255   | .0360   | .0090  |
| 53 CINTNAC  | 1.2477  | 1.2457  | 1.1171  | 1.9940  | 1.6566  | 1.3620  | 1.1599  | 1.3345 | 1.2589 | 1.3461   | 1.2167  | 1.0459  | 1.7873  | 1.8014  | 1.0000 |



MATRIZ PRODUCTO FEBO 1973

NACIONALES

|            | 16     | 17     | 18      | 19     | 20     | 21     | 22     | 23      | 24     | 25      | 26      | 27     | 28      | 29      | 30     |
|------------|--------|--------|---------|--------|--------|--------|--------|---------|--------|---------|---------|--------|---------|---------|--------|
|            | OTRALI | ALIANI | BEHIDAS | TABACO | TEXTIL | ROPA   | CUERO  | CALZADO | MADERA | MUEBLES | PAPELES | IMPRES | QUIMICA | FIERART | OTRO   |
| 1 CULTIND  | .0064  | .0051  | .0376   | .0924  | .2041  | .0611  | .0012  | .0038   | .0004  | .0122   | .0043   | .0001  | .0005   | .0016   | .0001  |
| 2 CULTALI  | .1708  | .0222  | .0100   | .0017  | .0121  | .0000  | .0633  | .0165   | .0024  | .0026   | .0014   | .0013  | .0042   | .0019   | .0022  |
| 3 CULTPER  | .0625  | .0051  | .0090   | 0.0000 | .0000  | .0003  | .0016  | .0005   | .0003  | .0003   | .0003   | .0003  | .0013   | .0010   | .0000  |
| 4 GANCAEN  | .0155  | .0017  | .0007   | .0001  | .0009  | .0000  | .0026  | .0011   | .0006  | .0010   | .0005   | .0007  | .0007   | .0006   | .0000  |
| 5 PRODGAN  | .0054  | .0017  | .0005   | .0004  | .0219  | .0135  | .1609  | .0417   | .0003  | .0023   | .0003   | .0004  | .0005   | .0004   | .0015  |
| 6 SERAGRO  | .0169  | .0151  | .0036   | .0073  | .0166  | .0152  | .0256  | .0718   | .0001  | .0018   | .0004   | .0001  | .0006   | .0002   | .0003  |
| 7 SICAMAD  | .0009  | .0003  | .0005   | 0.0000 | .0002  | .0023  | .0528  | .0144   | .2250  | .0203   | .0003   | .0002  | .0002   | .0003   | .0002  |
| 8 PESCA    | .0091  | .0453  | .0004   | .0001  | .0007  | .0004  | .0025  | .0000   | .0004  | .0006   | .0003   | .0004  | .0005   | .0047   | .0013  |
| 9 PETROL   | .0036  | .0005  | .0031   | .0007  | .0000  | .0021  | .0025  | .0017   | .0043  | .0025   | .0056   | .0010  | .0011   | .0046   | .0023  |
| 10 MINERAL | .0001  | .0005  | .0015   | .0005  | .0007  | .0015  | .0009  | .0000   | .0025  | .0052   | .0013   | .0026  | .0002   | .0005   | .0022  |
| 11 MINOMET | .0031  | .0033  | .0022   | .0002  | .0000  | .0005  | .0036  | .0010   | .0002  | .0019   | .0003   | .0002  | .0002   | .0002   | .0016  |
| 12 FOODLAC | .0015  | .0005  | .0004   | .0001  | .0004  | .0004  | .0003  | .0003   | .0004  | .0006   | .0003   | .0005  | .0003   | .0004   | .0006  |
| 13 FOODPE  | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 |
| 14 HARIPES | .0245  | .1047  | .0005   | 0.0000 | .0011  | .0000  | .0063  | .0017   | .0002  | .0002   | .0002   | .0001  | .0006   | .0122   | .0025  |
| 15 AZUCAR  | .0126  | .0056  | .0335   | .0002  | .0003  | .0003  | .0008  | .0004   | .0002  | .0002   | .0002   | .0010  | .0001   | .0009   | .0013  |
| 16 OTRALI  | 1.1665 | .0031  | .0244   | .0003  | .0051  | .0034  | .0295  | .0077   | .0044  | .0021   | .0049   | .0019  | .0235   | .0066   | .0041  |
| 17 ALIANI  | .0034  | 1.0022 | .0002   | .0001  | .0029  | .0018  | .0207  | .0053   | .0002  | .0005   | .0001   | .0002  | .0002   | .0002   | .0002  |
| 18 BEHIDAS | .0009  | .0003  | 1.0327  | .0000  | .0011  | .0007  | .0003  | .0004   | .0003  | .0006   | .0003   | .0004  | .0003   | .0172   | .0004  |
| 19 TABACO  | 0.0000 | 0.0000 | 0.0000  | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 |
| 20 TEXTIL  | .0186  | .0063  | .0011   | .0004  | 1.2331 | .3628  | .0051  | .0220   | .0016  | .0734   | .0030   | .0014  | .0009   | .0652   | .0047  |
| 21 ROPA    | .0002  | .0003  | .0002   | .0001  | .0003  | 1.0011 | .0002  | .0003   | .0003  | .0006   | .0003   | .0003  | .0004   | .0003   | .0004  |
| 22 CUERO   | .0001  | .0001  | .0001   | 0.0000 | .0001  | .0001  | 1.1634 | .2623   | .0001  | .0003   | .0001   | .0001  | .0001   | .0001   | .0002  |
| 23 CALZADO | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | .0000  | .0006  | 1.0083  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 |
| 24 MADERA  | .0016  | .0005  | .0011   | .0001  | .0003  | .0005  | .0019  | .0109   | 1.0672 | .0945   | .0010   | .0004  | .0003   | .0003   | .0003  |
| 25 MUEBLES | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 1.0356  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 |
| 26 PAPELES | .0344  | .0405  | .0230   | .0115  | .0074  | .0121  | .0063  | .0235   | .0053  | .0075   | 1.3976  | .1312  | .0092   | .0073   | .0088  |
| 27 IMPRES  | .0031  | .0026  | .0037   | .0041  | .0031  | .0032  | .0017  | .0022   | .0024  | .0035   | .0048   | 1.0072 | .0025   | .0026   | .0067  |
| 28 QUIMICA | .0124  | .0105  | .0145   | .0021  | .0109  | .0059  | .0337  | .0104   | .0053  | .0045   | .0026   | .0052  | 1.0543  | .0155   | .0031  |
| 29 FIBPART | .0024  | .0000  | .0007   | .0001  | .0003  | .0005  | .0077  | .0092   | .0026  | .0136   | .0015   | .0015  | .0043   | 1.0088  | .0129  |
| 30 OTRQUIM | .0036  | .0160  | .0018   | .0030  | .0055  | .0047  | .0076  | .0229   | .0149  | .0137   | .0149   | .0234  | .0075   | .0061   | 1.0000 |
| 31 REFIPET | .0115  | .0112  | .0094   | .0023  | .0090  | .0066  | .0079  | .0055   | .0135  | .0000   | .0178   | .0052  | .0021   | .0017   | .0018  |
| 32 CAUCHO  | .0010  | .0021  | .0011   | .0006  | .0019  | .0017  | .0014  | .0107   | .0021  | .0016   | .0030   | .0015  | .0021   | .0017   | .0018  |
| 33 PLASTIC | .0042  | .0020  | .0006   | .0004  | .0035  | .0003  | .0076  | .0276   | .0013  | .0045   | .0033   | .0021  | .0085   | .0060   | .0022  |
| 34 CEMENTO | .0023  | .0021  | .0023   | .0003  | .0006  | .0006  | .0013  | .0010   | .0013  | .0191   | .0011   | .0008  | .0070   | .0010   | .0020  |
| 35 ACERO   | .0022  | .0013  | .0032   | .0023  | .0016  | .0021  | .0019  | .0031   | .0042  | .0064   | .0041   | .0037  | .0025   | .0010   | .0040  |
| 36 EASNOFE | .0013  | .0007  | .0020   | .0006  | .0009  | .0023  | .0012  | .0023   | .0033  | .0071   | .0016   | .0034  | .0027   | .0006   | .0027  |
| 37 FOODMET | .0107  | .0033  | .0209   | .0013  | .0054  | .0114  | .0067  | .0183   | .0104  | .0424   | .0116   | .0104  | .0081   | .0037   | .0020  |
| 38 MAGNDEL | .0050  | .0056  | .0046   | .0215  | .0056  | .0037  | .0042  | .0041   | .0050  | .0065   | .0097   | .0048  | .0098   | .0036   | .0020  |
| 39 MAGUEL  | .0010  | .0029  | .0012   | .0009  | .0019  | .0015  | .0012  | .0013   | .0019  | .0021   | .0029   | .0016  | .0023   | .0018   | .0010  |
| 40 MAGTRAN | .0022  | .0031  | .0009   | .0006  | .0017  | .0020  | .0016  | .0016   | .0022  | .0018   | .0015   | .0015  | .0016   | .0016   | .0010  |

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MATRIZ INSUMO PRODUCTO PERU 1973

NACIONALES

|            | 16     | 17     | 18      | 19     | 20     | 21     | 22            | 23     | 24      | 25      | 26     | 27      | 28      | 29      | 30     |
|------------|--------|--------|---------|--------|--------|--------|---------------|--------|---------|---------|--------|---------|---------|---------|--------|
|            | OTRALI | ALIANI | BERICAS | TABACO | TEXTIL | ROPA   | CUERO CALZADO | MADERA | MUEBLES | PAPELES | IMPRES | QUIMICA | FABRART | OTFCUIM |        |
| 41 OTRIMAN | .0011  | .0019  | .0025   | .0002  | .0014  | .0082  | .0018         | .0027  | .0008   | .0017   | .0012  | .0027   | .0007   | .0009   | .0045  |
| 42 ARTESAN | .0008  | .0031  | .0001   | .0000  | .0000  | .0000  | .0000         | .0000  | .0000   | .0000   | .0000  | .0000   | .0000   | .0000   | .0000  |
| 43 ELEAGUA | .0095  | .0082  | .0051   | .0013  | .0109  | .0087  | .0083         | .0064  | .0064   | .0087   | .0220  | .0167   | .0416   | .0165   | .0056  |
| 44 CONSTRU | .0005  | .0006  | .0002   | .0001  | .0004  | .0005  | .0004         | .0004  | .0004   | .0004   | .0006  | .0004   | .0008   | .0005   | .0024  |
| 45 COMERCI | .1775  | .2037  | .0878   | .0361  | .1104  | .1575  | .1226         | .1511  | .1431   | .1325   | .1242  | .1235   | .1225   | .1288   | .1543  |
| 46 TRANSPD | .0388  | .0479  | .0156   | .0164  | .0302  | .0352  | .0281         | .0321  | .0384   | .0303   | .0263  | .0265   | .0264   | .0278   | .0229  |
| 47 BANCOS  | .0319  | .0337  | .0156   | .0001  | .0738  | .0683  | .0213         | .0289  | .0339   | .0590   | .0266  | .0365   | .0258   | .0258   | .0275  |
| 48 VIVIEND | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 49 EDUCACI | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 50 SALUD   | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 51 ADMIDF  | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000 |
| 52 SERVIV  | .0463  | .0565  | .0419   | .0162  | .0734  | .0723  | .0449         | .0503  | .0696   | .1116   | .0495  | .0440   | .0520   | .0672   | .0912  |
| 53 CINTNAC | 1.9294 | 2.0249 | 1.4168  | 1.2296 | 1.9165 | 1.9572 | 1.8499        | 1.8205 | 1.6899  | 1.8200  | 1.7888 | 1.5169  | 1.5373  | 1.4061  | 1.5357 |



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NACIONALES

|             | 31      | 32     | 33      | 34      | 35      | 36      | 37      | 38      | 39      | 40      | 41      | 42      | 43    | 44      | 45       |
|-------------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|---------|----------|
|             | REFIPET | CAUCHO | PLASTIC | CEMENTO | ACERO   | BASNOFE | PRODNET | MAGNOEL | MAQUEL  | MAGRAN  | OPTIMAN | APTESAN | LAGUA | CONSTRU | COMERCIO |
| 1 CULTIND   | .0002   | .0028  | .0054   | .0007   | .0002   | .0004   | .0004   | .0003   | .0006   | .0008   | .0033   | .0078   | .0005 | .0007   | .0003    |
| 2 CULTALI   | .0004   | .0006  | .0015   | .0015   | .0009   | .0016   | .0009   | .0009   | .0007   | .0009   | .0062   | .0025   | .0006 | .0015   | .0002    |
| 3 CULTPER   | .0001   | .0033  | .0003   | .0002   | .0001   | .0002   | .0002   | .0001   | .0001   | .0003   | .0003   | .0021   | .0001 | .0002   | .0001    |
| 4 GANCARN   | .0002   | .0002  | .0007   | .0008   | .0005   | .0005   | .0004   | .0005   | .0004   | .0004   | .0010   | .0009   | .0005 | .0008   | .0005    |
| 5 PROGGAN   | .0001   | .0004  | .0009   | .0004   | .0003   | .0003   | .0004   | .0003   | .0004   | .0005   | .0028   | .0006   | .0003 | .0005   | .0002    |
| 6 SERAGRO   | .0000   | .0003  | .0005   | .0002   | .0001   | .0002   | .0001   | .0001   | .0001   | .0002   | .0007   | .0034   | .0001 | .0005   | .0001    |
| 7 SICAMAD   | .0002   | .0017  | .0005   | .0006   | .0005   | .0005   | .0011   | .0006   | .0011   | .0019   | .0017   | .0032   | .0004 | .0005   | .0007    |
| 8 PESCA     | .0001   | .0002  | .0007   | .0005   | .0004   | .0002   | .0003   | .0003   | .0003   | .0003   | .0006   | .0006   | .0003 | .0005   | .0003    |
| 9 PETROL    | .3195   | .0020  | .0019   | .0081   | .0063   | .0096   | .0034   | .0025   | .0021   | .0023   | .0025   | .0045   | .0021 | .0072   | .0053    |
| 10 MINMETAL | .0013   | .0015  | .0010   | .0012   | .0000   | .7469   | .0061   | .0020   | .0096   | .0091   | .0086   | .0028   | .0022 | .0088   | .0005    |
| 11 MINOMET  | .0023   | .0003  | .0004   | .0046   | .0018   | .0007   | .0029   | .0011   | .0006   | .0014   | .0015   | .0013   | .0016 | .0076   | .0002    |
| 12 PRODLAC  | .0001   | .0001  | .0004   | .0005   | .0002   | .0003   | .0003   | .0003   | .0003   | .0003   | .0006   | .0002   | .0003 | .0005   | .0003    |
| 13 FROGPES  | .0000   | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000 | .0000   | .0000    |
| 14 HARIPES  | .0000   | .0001  | .0001   | .0001   | .0001   | .0001   | .0001   | .0001   | .0001   | .0001   | .0002   | .0012   | .0001 | .0001   | .0001    |
| 15 AZUCAR   | .0001   | .0002  | .0003   | .0005   | .0001   | .0002   | .0002   | .0002   | .0002   | .0002   | .0003   | .0002   | .0001 | .0003   | .0002    |
| 16 GTRALI   | .0007   | .0010  | .0020   | .0015   | .0009   | .0016   | .0015   | .0010   | .0008   | .0010   | .0019   | .0070   | .0008 | .0017   | .0007    |
| 17 ALIANI   | .0000   | .0001  | .0002   | .0002   | .0001   | .0001   | .0001   | .0001   | .0001   | .0001   | .0005   | .0017   | .0001 | .0002   | .0001    |
| 18 PERIDAS  | .0001   | .0002  | .0015   | .0003   | .0002   | .0002   | .0002   | .0002   | .0002   | .0002   | .0006   | .0003   | .0002 | .0003   | .0002    |
| 19 TABACC   | .0000   | .0000  | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000 | .0000   | .0000    |
| 20 TEXTIL   | .0008   | .0066  | .0015   | .0020   | .0007   | .0006   | .0020   | .0012   | .0031   | .0043   | .0070   | .0034   | .0024 | .0032   | .0011    |
| 21 ROPA     | .0003   | .0001  | .0025   | .0004   | .0003   | .0004   | .0003   | .0003   | .0002   | .0003   | .0004   | .0002   | .0003 | .0004   | .0004    |
| 22 CUERO    | .0000   | .0002  | .0002   | .0001   | .0001   | .0001   | .0010   | .0005   | .0010   | .0013   | .0016   | .0061   | .0002 | .0005   | .0001    |
| 23 CALZADO  | .0000   | .0005  | .0001   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000   | .0000 | .0000   | .0000    |
| 24 MADERA   | .0005   | .0004  | .0016   | .0010   | .0008   | .0023   | .0030   | .0013   | .0040   | .0033   | .0037   | .0040   | .0007 | .0029   | .0011    |
| 25 MUEBLES  | .0000   | .0000  | .0000   | .0000   | .0005   | .0000   | .0002   | .0004   | .0015   | .0017   | .0001   | .0000   | .0002 | .0004   | .0001    |
| 26 PAPELES  | .0026   | .0003  | .0008   | .0026   | .0042   | .0036   | .0036   | .0055   | .0026   | .0060   | .0093   | .0051   | .0047 | .0043   | .0036    |
| 27 IPPRENT  | .0012   | .0012  | .0008   | .0003   | .0024   | .0028   | .0024   | .0025   | .0023   | .0026   | .0040   | .0015   | .0073 | .0044   | .0005    |
| 28 QUIMICA  | .0058   | .0096  | .0042   | .0078   | .0046   | .0002   | .0053   | .0049   | .0032   | .0054   | .0059   | .0043   | .0059 | .0033   | .0013    |
| 29 FERRART  | .0002   | .0053  | .0023   | .0015   | .0005   | .0004   | .0016   | .0017   | .0059   | .0019   | .0091   | .0074   | .0004 | .0017   | .0002    |
| 30 OTRQUIM  | .0028   | .0057  | .0037   | .0039   | .0036   | .0047   | .0010   | .0014   | .0057   | .0027   | .0059   | .0013   | .0031 | .0006   | .0025    |
| 31 REFIPET  | 1.0143  | .0004  | .0002   | .00574  | .0020   | .0005   | .0005   | .0079   | .0063   | .0072   | .0080   | .0043   | .0083 | .0027   | .0068    |
| 32 CAUCHO   | .0018   | 1.0128 | .0017   | .0026   | .0030   | .0044   | .0030   | .0055   | .0029   | .0009   | .0036   | .0014   | .0017 | .0022   | .0005    |
| 33 PLASTIC  | .0006   | .0033  | 1.0041  | .0016   | .0015   | .0013   | .0038   | .0055   | .0017   | .0070   | .0092   | .0023   | .0023 | .0048   | .0025    |
| 34 CEMENTO  | .0016   | .0006  | .0011   | 1.01095 | .00124  | .0025   | .0052   | .0061   | .0029   | .0029   | .0021   | .0010   | .0063 | .0012   | .0009    |
| 35 ACERO    | .0034   | .0017  | .0020   | .0005   | 1.01971 | .0016   | .0012   | .0018   | .0024   | .0066   | .0094   | .0021   | .0035 | .0067   | .0009    |
| 36 BASNOFE  | .0016   | .0021  | .0013   | .0014   | .0038   | 1.00596 | .0066   | .0040   | .0086   | .0009   | .0097   | .0051   | .0029 | .0095   | .0006    |
| 37 PRODNET  | .0037   | .0062  | .0049   | .0067   | .0022   | .0037   | 1.00487 | .0068   | .0074   | .0038   | .0053   | .0020   | .0075 | .0063   | .0014    |
| 38 MAGNOEL  | .0125   | .0044  | .0045   | .0003   | .0003   | .0004   | .0020   | 1.00196 | .0050   | .0019   | .0040   | .0052   | .0026 | .0065   | .0021    |
| 39 MAQUEL   | .0016   | .0011  | .0018   | .0033   | .0078   | .0002   | .0000   | .0033   | 1.00070 | .00198  | .0059   | .0029   | .0004 | .0073   | .0032    |
| 40 MAGTRAN  | .0014   | .0014  | .0017   | .0010   | .0016   | .0030   | .0022   | .0026   | .0016   | 1.00556 | .0017   | .0017   | .0052 | .0025   | .0010    |



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NACIONALES

|            | 31      | 32     | 33      | 34      | 35     | 36     | 37      | 38      | 39     | 40      | 41      | 42      | 43      | 44      | 45      |
|------------|---------|--------|---------|---------|--------|--------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
|            | REFIJET | CAUCHO | PLASTIC | CEMENTO | ACERO  | BASOFE | PRODMET | MAGNOEL | MAGUEL | MAGTRAN | OTRIMAN | ARTESAN | ELEAGUA | CONSTRU | COMERCI |
| 41 OTRIMAN | .0005   | .0005  | .0017   | .0015   | .0008  | .0020  | .0010   | .0007   | .0010  | .0006   | 1.0029  | .0042   | .0018   | .0022   | .0019   |
| 42 ARTESAN | 0.0000  | 0.0000 | .0000   | 0.0000  | 0.0000 | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 1.0038  | .0002   | .0116   | 0.0000  |
| 43 ELEAGUA | .0051   | .0100  | .0117   | .0235   | .0252  | .0037  | .0096   | .0081   | .0052  | .0060   | .0064   | .0043   | 1.0126  | .0073   | .0050   |
| 44 CONSTRU | .0041   | .0034  | .0055   | .0007   | .0008  | .0018  | .0006   | .0004   | .0004  | .0025   | .0005   | .0005   | .0140   | 1.0005  | .0022   |
| 45 COMERCI | .0426   | .1252  | .1356   | .0615   | .1033  | .0589  | .1381   | .1182   | .1177  | .1535   | .1165   | .1386   | .0349   | .1355   | 1.0341  |
| 46 TRANSP  | .0229   | .0258  | .0297   | .0152   | .0255  | .0515  | .0321   | .0259   | .0265  | .0345   | .0297   | .0315   | .0134   | .0451   | .0272   |
| 47 BANCOS  | .0134   | .0165  | .0315   | .0262   | .0171  | .0254  | .0320   | .0292   | .0255  | .0226   | .0374   | .0218   | .0365   | .0229   | .0652   |
| 48 VIVIEND | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  |
| 49 EDUCACI | .0005   | .0000  | .0000   | .0001   | .0003  | .0026  | .0003   | .0001   | .0002  | .0001   | .0003   | .0001   | .0016   | .0001   | .0001   |
| 50 SALUD   | .0000   | .0000  | .0000   | .0001   | .0002  | .0024  | .0002   | .0001   | .0001  | .0001   | .0003   | .0001   | .0009   | .0001   | .0001   |
| 51 ADMIDEF | 0.0000  | 0.0000 | .0000   | 0.0000  | 0.0000 | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000  |
| 52 SERVIV  | .0213   | .0228  | .0443   | .0588   | .0589  | .0536  | .0500   | .0559   | .0450  | .0518   | .1089   | .0283   | .0530   | .0926   | .0584   |
| 53 CINTNAC | 1.5034  | 1.3144 | 1.5071  | 1.6109  | 1.7157 | 2.1254 | 1.6948  | 1.5270  | 1.5654 | 1.6101  | 1.6366  | 1.8397  | 1.2985  | 1.7875  | 1.4559  |



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NACIONALES

|            | 46     | 47     | 48      | 49      | 50     | 51      | 52     | 53      |
|------------|--------|--------|---------|---------|--------|---------|--------|---------|
|            | TRANSP | BANCOS | VIVIEND | EDUCACI | SALUD  | ADMIDFF | SERVIV | CINTNAC |
| 1 CULTIND  | .0003  | .0005  | .0012   | .0003   | .0039  | .0005   | .0015  | 1.9439  |
| 2 CULTALI  | .0012  | .0017  | .0005   | .0026   | .0167  | .0054   | .0154  | 2.7896  |
| 3 CULTFER  | .0003  | .0002  | .0001   | .0005   | .0023  | .0003   | .0021  | 1.1162  |
| 4 GANCARN  | .0007  | .0015  | .0002   | .0021   | .0104  | .0011   | .0096  | 1.1108  |
| 5 PFOGGAN  | .0004  | .0005  | .0003   | .0009   | .0047  | .0007   | .0043  | 1.5304  |
| 6 SERAGRO  | .0001  | .0001  | .0001   | .0002   | .0013  | .0004   | .0010  | 1.3658  |
| 7 SICAMAD  | .0002  | .0001  | .0000   | 0.0000  | .0002  | .0004   | .0004  | 1.3662  |
| 8 PESCA    | .0004  | .0004  | .0002   | .0013   | .0061  | .0014   | .0056  | 1.8476  |
| 9 PETROL   | .0241  | .0005  | .0007   | .0006   | .0024  | .0024   | .0023  | 1.5849  |
| 10 MIPETAL | .0013  | .0006  | .0009   | .0004   | .0024  | .0014   | .0013  | 2.1302  |
| 11 MINOMET | .0004  | .0001  | .0027   | .0002   | .0004  | .0010   | .0006  | 1.2348  |
| 12 PPODLAC | .0005  | .0007  | .0002   | .0014   | .0068  | .0003   | .0063  | 1.0655  |
| 13 PPODPE  | 0.0000 | 0.0000 | 0.0000  | 0.0000  | .0002  | 0.0000  | .0002  | 1.0000  |
| 14 HARIPES | .0001  | .0001  | .0000   | .0002   | .0007  | .0001   | .0006  | 1.2247  |
| 15 AZUCAR  | .0002  | .0004  | .0001   | .0003   | .0013  | .0002   | .0015  | 1.1233  |
| 16 OTRALI  | .0011  | .0015  | .0005   | .0029   | .0125  | .0013   | .0131  | 1.5537  |
| 17 ALIANI  | .0002  | .0002  | .0001   | .0013   | .0024  | .0003   | .0022  | 1.3678  |
| 18 PERIDAS | .0003  | .0004  | .0001   | .0001   | .0003  | .0003   | .0032  | 1.8729  |
| 19 TABACO  | 0.0000 | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000 | 1.0000  |
| 20 TEXTIL  | .0014  | .0019  | .0070   | .0012   | .0089  | .0021   | .0049  | 2.1233  |
| 21 ROPA    | .0008  | .0022  | .0001   | .0013   | .0051  | .0024   | .0032  | 1.8334  |
| 22 CUERO   | .0002  | .0002  | .0001   | .0001   | .0003  | .0003   | .0006  | 1.5222  |
| 23 CALZADO | 0.0000 | 0.0000 | 0.0000  | 0.0000  | 0.0000 | .0002   | 0.0000 | 1.0118  |
| 24 MADERA  | .0004  | .0002  | .0019   | .0001   | .0002  | .0008   | .0014  | 1.3184  |
| 25 MUEBLES | .0003  | 0.0000 | 0.0000  | 0.0000  | .0001  | .0012   | .0001  | 1.0580  |
| 26 FAFELES | .0062  | .0307  | .0540   | .0061   | .0063  | .0116   | .0249  | 2.1592  |
| 27 IMPRENT | .0067  | .0100  | .0013   | .0048   | .0176  | .0149   | .0266  | 1.2360  |
| 28 QUIMICA | .0021  | .0021  | .0017   | .0005   | .0020  | .0030   | .0131  | 1.4358  |
| 29 FIBRART | .0005  | .0003  | .0005   | .0002   | .0011  | .0005   | .0010  | 1.2601  |
| 30 OTRQUIM | .0044  | .0030  | .0054   | .0021   | .0093  | .0132   | .0217  | 1.4675  |
| 31 REFIPET | .0764  | .0027  | .0022   | .0018   | .0076  | .0121   | .0074  | 1.8566  |
| 32 CAUCHO  | .0329  | .0009  | .0003   | .0007   | .0018  | .0021   | .0040  | 1.1978  |
| 33 PLASTIC | .0021  | .0007  | .0013   | .0002   | .0014  | .0014   | .0049  | 1.3267  |
| 34 CEMENTO | .0013  | .0005  | .0021   | .0019   | .0006  | .0046   | .0034  | 1.4553  |
| 35 ACERO   | .0020  | .0012  | .0041   | .0003   | .0013  | .0025   | .0018  | 1.7238  |
| 36 BASHOFE | .0016  | .0006  | .0011   | .0006   | .0032  | .0012   | .0018  | 1.5027  |
| 37 PRODMET | .0037  | .0054  | .0029   | .0011   | .0075  | .0051   | .0027  | 1.6702  |
| 38 MAGNOEL | .0032  | .0045  | .0006   | .0003   | .0008  | .0021   | .0021  | 1.3451  |
| 39 MAQUEL  | .0127  | .0014  | .0020   | .0007   | .0047  | .0025   | .0099  | 1.3433  |
| 40 MAGTRAN | .0560  | .0011  | .0003   | .0003   | .0010  | .0068   | .0026  | 1.2576  |



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NACIONALES

|            | 46     | 47     | 48      | 49      | 50     | 51      | 52      | 53      |
|------------|--------|--------|---------|---------|--------|---------|---------|---------|
|            | TRANSP | BANCOS | VIVIEND | EDUCACI | SALUD  | ADMIDEF | SERVDIV | CINTNAC |
| 41 OTRIPAN | .0019  | .0013  | .0033   | .0036   | .0086  | .0041   | .0092   | 1.0927  |
| 42 ARTESAN | 0.0000 | 0.0000 | .0000   | 0.0000  | 0.0000 | .0003   | 0.0000  | 1.0626  |
| 43 ELEAGUA | .0047  | .0102  | .0012   | .0037   | .0084  | .0114   | .0065   | 1.4237  |
| 44 CONSTRU | .0014  | .0002  | .0098   | .0013   | .0002  | .0222   | .0003   | 1.1511  |
| 45 COMERCI | .0745  | .0230  | .0166   | .0111   | .0448  | .0263   | .0521   | 5.4100  |
| 46 TRANSP  | 1.0843 | .0176  | .0060   | .0035   | .0165  | .0097   | .0317   | 2.6646  |
| 47 BANCOS  | .0665  | 1.9696 | .0077   | .0370   | .0317  | .0641   | .0483   | 3.4984  |
| 48 VIVIEND | 0.0000 | 0.0000 | 1.0000  | 0.0000  | 0.0000 | 0.0000  | 0.0000  | 1.0000  |
| 49 EDUCACI | .0002  | .0002  | 1.0000  | 1.0000  | 0.0000 | 0.0000  | .0002   | 1.0131  |
| 50 SALUD   | .0000  | 0.0000 | .0000   | 0.0000  | 1.0000 | 0.0000  | .0001   | 1.0113  |
| 51 ADMIDEF | 0.0000 | 0.0000 | 1.0000  | 0.0000  | 0.0000 | 1.0000  | 0.0000  | 1.0000  |
| 52 SERVDIV | .0847  | .1216  | .0293   | .0179   | .0391  | .0576   | 1.1354  | 3.7262  |
| 53 CINTNAC | 1.5850 | 2.2142 | 1.1521  | 1.1201  | 1.3369 | 1.3451  | 1.4933  | 1.0000  |

