

estrecho contacto con asociaciones de ganaderos, cooperativas etc.. que eventualmente la deberían tomar a su cargo.

- Un adecuado sistema de recolección de información referente al tipo de animales, peso y precios de venta debería completar la instalación de estas subastas.
- Los remates de carne es otra medida que sería recomendable establecer a nivel de grandes ciudades. A través de este sistema el ganadero envía su ganado directamente al rastro quien remata el producto y subproducto entre los interesados percibiendo el ganadero la totalidad de los ingresos obtenidos menos el costo del servicio y utilidad del rastro. Este sistema beneficia en especial al ganadero, eliminando los intermediarios. Las medidas propuestas deben ser tomadas en conjunto, pues en definitiva el objetivo es aproximar, con la menor cantidad de interferencias posibles a los oferentes y demandantes.
- Es necesario fomentar el consumo interno de carnes, aunque el mismo está ligado estrechamente al poder adquisitivo de la población. Un sistema de ventas basado en precios y cortes diferenciales, beneficiaría a los sectores de más bajos ingresos, ya que pondría a su disposición cortes más económicos. El actual sistema de cortes responde a los gustos del consumidor hondureño, pero la escala de precios que rige para los distintos cortes, no valoriza los cortes de mayor demanda, lo que refeleja en precios poco diferenciados. La tipificación de cortes para que dentro del libre juego de la oferta y la demanda se establezcan precios diferenciales aparece como una medida recomendable.

- El peso de matanza de los animales debe ser incrementado a través de estímulos al ganadero vía precio. El objetivo final es tratar de producir novillos con 227 Kg. en canal, lo cual corresponde a la primera de las cinco clasificaciones del mercado de Estados Unidos. Dicho sistema deberá basarse en un sistema de clasificación de ganado y tipificación de carnes, a través del cual se premie al animal joven y pesado. Para que este sistema opere con la suficiente transparencia las empacadoras deben ligar el precio de la Yellow Sheet al precio de sus listas, el precio que se pagará al productor por Kilo de peso. Este tipo de listas deberán elaborarse tanto para la compra en canal como en pie.

- Es recomendable establecer precios índices de exportación sobre la base de los vigentes en los didtintos mercados importadores. de esta manera se asegurará el ingreso de divisas al país, evitando la eventual subfacturación de las importaciones.

- Es necesario buscar mecanismos que permitan otorgarle mayor poder de compra a las empacadoras, que se encuentran en desventaja frente a sus similares de países vecinos, que compiten en el mercado interno, alentando la salida ilegal de animales, lo que implica capacidad ociosa para las plantas, salarios no pagados y menor ingreso de divisas al país..

La industria empacadora reviste suma importancia para el desarrollo de la ganadería de Honduras y a ello se debe, sin lugar a dudas su despegue y modernización a partir de su instalación. Urge por ello tomar medidas que ordenen el proceso industrial vinculado al comercio interno de ganado y al comercio exterior de carnes y faciliten el apoyo a la industria para solucionar sus problemas cuyunturales. Gran

parte de las medidas referentes a los precios y de clasificación y tipificación ya se trataron, creyéndose oportuno adoptar las siguientes medidas:

- El gobierno debería analizar la posibilidad de acudir en ayuda de las empacadoras en lo que se refiere a su integración al mercado interno, de tal manera que garantice el funcionamiento de las plantas en 100% de su capacidad. Esta medida requiere de una agregación de la oferta y para ello se requiere incentivar empresas que se dediquen a la recolección del ganado.
 - Deberá, a través de los mecanismos que se estimen convenientes, recoger información referente a los precios de la carne vigentes en los principales destinos de las exportaciones hondureñas, para fijar los precios mínimos de exportación por tipo de corte producido.
4. Con respecto a la fijación de precios: Finalmente, los precios políticos de madera a través de COHDEFOR y de carne bovina a través de la canasta básica no han arrojado los resultados esperados y más bien han desincentivado la producción. En el futuro el Estado debería abstenerse de intervenir en la fijación del precio, sin embargo, la inmadurez del mercado hondureño caracterizado por una carencia de información, falta de canales adecuados y tecnología apropiada impiden el desarrollo de una economía de libre mercado, es por ello que el Estado deberá regular la acción del mercado a través de una acción de monitoreo tratando de conducir su evolución.

XI. RESUMEN

El precio es en definitiva el último indicador que permite la producción, por medio de la asignación de recursos, y la comercialización. Determina además el poder de compra de los consumidores en cualquier tipo de economía. Es el precio el que en última instancia determina la cantidad ofrecida en un período $(t+1)$, y la cantidad demandada en un período (t) , de un bien, en una economía de mercado. En la formación de los precios intervienen muchos factores, como ser la oferta y la demanda, las características de la comercialización y en muchos casos la intervención del Estado. Por la importancia que tienen en las exportaciones, la formación del PIB y la generación de empleo éstos productos han sido objeto de intervención estatal en la determinación de los precios internos, en el incentivo de su producción y a los términos de comercialización, por medio de políticas específicas a cada subsector. Los mercados para estos productos son en general anormales, presentan monopsonios u oligopsonios, una integración vertical hasta el nivel de importador extranjero del producto. Caracterizados principalmente por una falta de transparencia en las transacciones, una oferta atomizada para el caso del ganado en pie y una demanda altamente concentrada. El mercado de la madera presenta las mismas características. La intervención estatal en los primeros años del estudio fue pobre, la falta de fiscalización por parte del Estado provocó una sub-valoración y sub-facturación de los volúmenes producidos y exportados, todo esto en detrimento de la economía hondureña.

En este trabajo se trató de analizar la evolución de los precios de dos productos de exportación en Honduras: carne bovina y madera. Las series utilizadas para el análisis

corresponden al período 1970-1989. Se analizaron precios del mercado internacional, precios FOB pagados a Honduras y precios en el mercado interno, a nivel mayorista y a nivel consumidor.

Estas series se descompusieron en sus cuatro componentes: tendencia, estacionalidad, ciclo e irregularidades. Se utilizó el método del Census II. No se pudo, sin embargo, separar el ciclo, por lo que simplemente se procedió a probar estadísticamente su existencia y a estimar su duración y amplitud por medio de una variable ficticia (denominada como DUMMY en este estudio), que trató de ajustar el ciclo por medio de la variación en el intercepto.

En general, para carne y madera los precios internacionales y los precios FOB presentan un crecimiento relativo a lo largo de todo el período, el precio de la carne de res sufrió una dura disminución en los 7 primeros años de la década de los ochenta. Los precios reales de la madera en el mercado interno sufrieron un incremento sostenido durante el período de estudio. Los precios de carne bovina, sin embargo, no siguieron este comportamiento; el precio mayorista de carne en canal presenta una tendencia negativa a lo largo del período, a nivel consumidor, el precio del lomo de res y de carne molida presentan una tendencia creciente mientras que el precio de la costilla y el tajo tienen una tendencia negativa. Los precios al consumidor de los dos primeros han tenido una tendencia creciente, mientras que los otros dos han sufrido una disminución en términos reales. Los últimos dos precios están dentro de la canasta básica, mientras que los dos primeros se consideran como "de consumo secundario".

El precio internacional de carne presenta estacionalidad marcada por la estación invernal del norte. Los precios FOB y

los precios nacionales tanto para carne como para madera no presentan estacionalidad marcada. Sin embargo, la matanza de carne de res sí presenta estacionalidad, esto nos habla de una matanza clandestina capaz de satisfacer la demanda.

Las irregularidades fueron separadas de la serie original por medio del método Censur II. En general todos los precios presentan irregularidades marcadas principalmente por la variación de los precios en la serie original. Para la madera se nota el efecto de la creación de COHDEFOR y el huracán Fifi. En carne el efecto del huracán Fifi no es notorio, sin embargo para los precios nacionales se nota el efecto de los decretos 297 y 502.

Una vez determinado esto se procedió a tratar de determinar el efecto de las políticas, en una primera aproximación, en la variación de los precios. Se consideraron las políticas de precios, fiscales, cambiarias, de investigación, de crédito, para cada uno de los subsectores. En general el precio de la carne a nivel nacional responde a las políticas de precios, especialmente al decreto No. 297 y al decreto No. 582. El caso de la madera no es así ya que el Estado no interviene en la fijación del precio, y ésta está en función de las expectativas de los participantes en la comercialización. Para la carne bovina, y especialmente la ganadería, el Estado no ha impulsado programas de desarrollo, ya que ha atendido más a los sectores reformados.

El Estado, sin embargo, intervino en el sector de la madera, mediante la creación de COHDEFOR, tratando de racionalizar la producción y fiscalizar la comercialización. El resultado no ha sido el esperado y COHDEFOR lejos de influir positivamente en el sector se ha convertido en otro agente social inmerso de la economía dentro del modelo primario-exportador, adoptado por el sector en el pasado.

XII. LITERATURA CITADA

- BANCO CENTRAL DE HONDURAS., 1972. Segundo proyecto de desarrollo ganadero, Tegucigalpa, Honduras. 154 p.
- BENHAM, F., 1951. Curso superior de economía, México, trad. por Victor Urquidi, ED. Fondo de Cultura Económica, p.24-31; 43-56; 66-79.
- BRANDIS, R., 1962. Economía principios y política, México, trad. por Nelly W. de Espinoza, Ed. UTEHA, p.15-35; 65-77; 153-170.
- CALVO, F., 1978. Estadística aplicada, Bilbao, España, Deusto ed. 596 p
- CASTAÑEDA J., 1968. Lecciones de teoría económica, España, Ed. Aguilar, p. 143-154; 159-167; 170-180; 384-409.
- CHOU, YA-LUN, 1986. Análisis estadístico, trad por Armer, Vicente, 2ed. Mexico, interamericana. 792p
- COHEN, R., 1960. Economía de la agricultura, México, 4ta ed. en español, trad. por Manuel Mesa, Fondo de Cultura Económica, p.12-21; 80-95; 131-156.
- COSCIA, A., 1976. Economía agraria, Buenos Aires, Argentina, Ed. Hemisferio Sur S.R.L., p.17-32; 89-121; 139-146; 153-172.
- FAO, 1987. Políticas de precios agrícolas, Problemas y Propuestas. Colección Desarrollo económico y social, No. 42, Roma,FAO.
- ., 1985. Mapa forestal de Honduras, Proyecto de Inventario Forestal, Roma, Italia. sp.
- FRIEDRICH, D., 1990. Okonometrie, zeitreihe analyze u prognoserverfahren. TU. Berlín. Alemania. pp 231-256.
- GONZALEZ A., MAZA F., 1986. Tratado moderno de economía general, 2da ed., México, Grupo Editorial Iberoamericano S.A de C.V., p.99-221.
- GONZALES, L., et all., 1987. Agroindustria de la carne: estado actual y perspectivas. UNAH., Centro de Estudios Económicos y Sociales. Tegucigalpa, Honduras. pp 45-97.

- GUTHRIE, J., 1963. Economía, México, trad. por R. Irwin, 3ed edición, UTEHA, p. 327-360; 374-404; 404-436.
- JAAKKO POYRY, 1983, Refuerzos de los sistemas de exportación de madera aserrada. Helsinki.
- LATINCONSULT, CONSULTORES AGRICOLAS., 1984. Diagnóstico de la ganadería en Honduras. Tegucigalpa, Honduras. 880 p.
- MADDALA, G., 1977. Econometría, México, Mc Graw-Hill, México. 104p.
- MASON, E., 1963. Planificación económica en áreas subdesarrolladas, México, trad. por Ana de Mendizabal, Compañía General de Ediciones, p.1-35.
- OEA., Boletín trimestral de precios internacionales de productos básicos, Departamento de estudios económicos y sociales. Washington, USA. 1970- 1990.
- QUEZADA, A., 1986. Operación y mantenimiento de sierras y equipo de aserrío, Informe final del asesor en proceso y diseños industriales, FAO. Tegucigalpa, Honduras. p. 5
- ROSS, R., 1951. An Introduction to Agricultural Economics, New York, USA, The Maple Press Company, p.116-156; 377-397.
- SLUTZKY, D., 1977. La agroindustria de la carne en Honduras, UNAH. Centro de Estudios Económicos y Sociales, Tegucigalpa, Honduras, 98 p.
- SCHIKELE, R., 1962. Tratado de política agrícola, México, trad. por Carlos Fernández, Fondo de Cultura Económica, p.58-101; 178-390.
- SECRETARIA DE RECURSOS NATURALES., 1987. Situación actual de la ganadería en Honduras. [trab-ined.]. Dirección General de Operaciones. Tegucigalpa, Honduras. 200 p.
- SPIEGEL, M., 1961. Theory and problems of statistics, United States of América, by McGraw-Hill Book Company, p.283-313.
- VALADEZ, E., 1975, Los contratos del diablo, Editores asociados, México. p 21.

XIII. BIBLIOGRAFIA

- AID., 1984. Una estrategia para comercializar la madera hondureña, Tegucigalpa, Honduras, 125 p.
- ALBERTI, G., y otros., 1987. Agroindustria de la carne estado actual y perspectivas. Tesis Lic. en Economía. Facultad de Ciencias Económicas, UNAH. Tegucigalpa, Honduras. 125 p.
- ARIAS, R., y otros., 1984, Intervención estatal en la industria primaria de la madera. Tesis Lic. Economía. Facultad de Ciencias Económicas, UNAH. Tegucigalpa, Honduras. 209 p.
- AYRE-SMITH, L., 1985. La industria ganadera en Honduras: principales problemas para su desarrollo, Secretaría de Recursos Naturales. Tegucigalpa, Honduras. 45 p.
- BANADESA., Memorias 1980-1989. Departamento de Estudios Económicos.
- BANCO CENTRAL DE HONDURAS., 1989, Honduras en cifras 1981-1989. Tegucigalpa, Honduras.
- ., Lineas de crédito del Banco Central para el fomento de la producción nacional 1980-1989. Departamento de Estudios Económicos.
- ., Cuentas nacionales de Honduras. Departamento de Estudios Económicos. 1980-1989.
- ., Memorias 1974-1989. Departamento de Estudios Económicos.
- ., Boletín estadístico 1977-1979, 1979-1981,
1 9 8 1
1983, 1983-1985, 1985-1987, 1987-1989. Departamento de Balanzas de Pago.
- COLEGIO HONDUREÑO DE ECONOMISTAS., 1986. Empleo y subempleo en Honduras, estrategias para su desarrollo. Tegucigalpa, Honduras.
- COHDEFOR., 1985. Situación de los recursos forestales de Honduras, Departamento de Planificación (documento interno), Tegucigalpa, Honduras.
- ., 1978. Diagnóstico del sector forestal de

- Honduras 1974-1977, Tegucigalpa, Honduras.
- ., 1986. Diagnóstico del sector forestal de Honduras 1981-1985, Tegucigalpa, Honduras.
- ., 1988. Producto forestal por actividades económicas, Departamento de Planificación (documento interno), Tegucigalpa, Honduras.
- ., 1990. Situación de las empresas subsidiarias al 31 de diciembre de 1989, (borrador). Tegucigalpa, Honduras.
- ., 1986. Informe resumido de inventarios forestales, Inventario Forestal Nacional (INFONAC).. Tegucigalpa, Honduras.
- CRUZ, A., y otros., 1986. Importancia y necesidad de la promoción de exportaciones y el comercio exterior en Honduras. Tesis Lic. Economía. Facultad de Ciencias Económicas, UNAH. Tegucigalpa, Honduras. 320 p.
- DURON, A., 1984. Análisis de la producción y comercialización de la madera por la COHDEFOR durante 1974-1983. Costa Rica, Universidad de Costa Rica.
- EL CASO de la Bemis Handal. Industrialización y dependencia., Boletín del Instituto de Investigaciones Económicas y Sociales. UNAH. Tegucigalpa, Honduras. 1980.
- FACULTAD DE CIENCIAS ECONOMICAS., 1983. Evolución de la inversión extranjera en Honduras. UNAH, editorial., p. 7.
- FRIEDERICH EBERT STIFTUNG, 1984. Diagnóstico Agroindustrial. SECPLAN
- FUNEZ, M., 1981, El proceso tecnológico en el sector industrial como factor de desarrollo económico y social en Honduras. Tesis Lic. UNAH. Tegucigalpa, Honduras.
- HERNANDEZ, A., y otros., 1982. Desarrollo industrial e inversión extranjera, Caso: aserraderos, talleres de acepilladura y otros talleres para trabajar la madera. Tesis Lic. UNAH, Tegucigalpa, Honduras.
- HERNADEZ, C., y otros., 1986. Análisis de la producción y

comercialización de la madera. Tesis Lic. Economía. UNAH. Tegucigalpa, Honduras 278 p.

INSTITUTO DE INVESTIGACIONES ECONOMICAS Y SOCIALES., 1980. Corfino un caso de independencia, Boletines No. 91-92. Editorial Universitaria. Tegucigalpa, Honduras.

JAAKKO, POYRY., 1983. Refuerzo de los sistemas de exportación de la madera aserrada hondureña. Helsinki.

LA GACETA, Decreto No. 62, Ley de Bosques. Marzo, 1909.

-----., Decreto No. 20, Ley de Bosques. Febrero, 1939.

-----., Decreto No. 52, Ley de Bosques. Febrero, 1949.

-----., Decreto No. 184, Ley de Bosques. Diciembre, 1955.

-----., Decreto No. 57, Ley de Fomento Industrial. Abril 1958.

-----., Decreto No. 177, Ley de Bosques. Junio, 1961.

-----., Decreto No. 97, Enero, 1970.

-----., Decreto No. 129, Diciembre, 1971.

-----., Decreto No. 85, Ley Forestal. Enero de 1972.

-----., Decreto No. 49, Junio, 1973.

-----., Decreto No. 341, Noviembre, 1973.

-----., Decreto No. 103, Ley Forestal. Enero de 1974.

-----., Acuerdo No. 297. Septiembre, 1974.

-----., Decreto No. 681. Noviembre, 1978.

-----., Decreto No. 502. Diciembre, 1981.

-----., Decreto No. 263, Junio, 1983.

-----., Acuerdo No. 634, Reglamento General Forestal. Julio, 1984.

-----., Decreto No. 29-82. Marzo, 1985.

-----., Acuerdo No. 72-86. Enero, 1986.

-----., Acuerdo No. 74-86. Enero, 1986.

-----., Acuerdo No. 74-86. Enero, 1986.

-----., Acuerdo No. 114-86. Enero, 1986.

-----., Acuerdo No. 273-86. Enero, 1986.

-----., Decreto No. 66, Mayo, 1986.

Ministerio de Economía y Comercio. Incentivos a la producción industrial. Edición 1985. Dirección General de Industrias.

-----., 1989. Directorio industrial de empresas clasificadas, Dirección General de Industrias, edición 1989.

-----., Convenio centroamericano de incentivos fiscales a la producción industrial. Dirección General de Industrias.

POSAS, M., DEL CID, R., 1980. La construcción del sector público en Honduras, 1876-1979. UNAH. Tegucigalpa, Honduras.

ROMERO, M., 1982. Análisis jurídico de la COHDEFOR, UNAH. Tegucigalpa, Honduras.

ROJAS, R., y otros, 1986. Análisis del sector exportador de productos derivados de madera. Su ambiente y expectativas de exportación. Tesis de Lic. en Administración de empresas. UNAH. Tegucigalpa, Honduras. 223 p.

SANTOS DE MORAIS, C., 1979. El modelo hondureño de desarrollo, PROCCARA., Tegucigalpa, Honduras.

Secretaría de Hacienda y Crédito Público. Presupuesto por programas 1989. Departamento de Administración General.

Secretaría de Palnificación, Coordinación y Presupuesto, SECPLAN., Diagnóstico de la ganadería en Honduras, 1986, Tomo I, II, III. Departamento Agrícola.

-----., 1987. Comportamiento tecnológico del subsector de alimentos. Departamento de Ciencia y Tecnología.

-----., Plan nacional de desarrollo 1979-1985., Departamento de Ciencia y Tecnología.

SECRETARIA DE RECURSOS NATURALES., 1984. Breve análisis de la situación actual y perspectivas de comercialización exterior, azúcar, algodón, carne y madera en Honduras.

Tegucigalpa, Honduras. 68 p.

-----., 1984. Situación de la ganadería en Honduras, Dirección de Planificación Sectorial. Tegucigalapa, Honduras. 88 p.

-----., Diagnóstico de la ganadería en Honduras, Tomo I, Dirección General de Ganadería. Latin-consult S.A. marzo 1984.

-----., 1986, Reglamento de sanidad para la importación y exportación de animales, sus productos y subproductos.

WINROCK INTERNATIONAL., 1984, Employment of forest in Honduras. USA.

ZEPEDA, E., 1986. Estudio financiero y proyección económica de la Procesadora de Carnes Metropolitana (PROMDECA). Tesis Lic. en Contaduría Pública. UNAH. Tegucigalpa, Honduras 346 p.

XIV. ANEXOS

ANEXO 1. SERIE DE PRECIOS FOB DE MADERA: Cálculo del componente irregular e índices estacionales. Serie con componente cíclico y tendencia.

SEASON	/VARIABLES	FOBPT	/MOEEL	MULTIPLICATIVE	/MA	CENTERED	/PERIOD	12.
Case number	FOBPT	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component	
1	.265	.	.	100.599	.264	.254	1.038	
2	.271	.	.	97.608	.278	.257	1.080	
3	.235	.	.	102.063	.230	.264	.873	
4	.281	.	.	96.640	.291	.272	1.071	
5	.288	.	.	102.342	.282	.275	1.026	
6	.280	.	.	103.809	.270	.279	.966	
7	.278	.272	102.333	101.306	.274	.281	.977	
8	.303	.272	111.237	100.804	.300	.282	1.065	
9	.284	.275	102.975	100.592	.282	.275	1.024	
10	.256	.280	91.554	100.062	.256	.269	.952	
11	.249	.282	88.146	101.052	.246	.264	.933	
12	.273	.285	95.843	93.124	.293	.271	1.081	
13	.257	.288	89.073	100.599	.255	.276	.925	
14	.296	.292	101.407	97.608	.303	.291	1.043	
15	.286	.294	97.114	102.063	.280	.298	.940	
16	.330	.298	110.885	96.640	.342	.311	1.099	
17	.303	.303	100.093	102.342	.296	.311	.953	
18	.329	.305	108.033	103.809	.317	.317	1.001	
19	.315	.307	102.387	101.306	.311	.316	.983	
20	.345	.311	111.129	100.804	.343	.321	1.067	
21	.299	.315	94.903	100.592	.297	.315	.942	
22	.329	.315	104.341	100.062	.329	.311	1.057	
23	.298	.314	94.749	101.052	.295	.304	.968	
24	.267	.319	83.448	93.124	.286	.305	.939	
25	.329	.325	101.319	100.599	.327	.315	1.036	
26	.306	.327	93.562	97.608	.314	.319	.984	
27	.371	.331	112.186	102.063	.364	.324	1.123	
28	.250	.336	74.239	96.640	.258	.323	.800	
29	.361	.341	105.904	102.342	.353	.341	1.034	
30	.399	.348	114.793	103.809	.384	.355	1.083	
31	.369	.353	104.490	101.306	.364	.366	.994	
32	.353	.357	98.996	100.804	.351	.366	.957	
33	.384	.357	107.640	100.592	.382	.368	1.038	
34	.367	.361	101.886	100.062	.367	.370	.992	
35	.372	.367	101.476	101.052	.368	.372	.990	
36	.352	.369	95.496	93.124	.378	.371	1.018	
37	.372	.367	101.481	100.599	.370	.365	1.014	

Case number	FOBPT	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
38	.355	.371	95.796	97.608	.364	.360	1.010
39	.329	.383	85.876	102.063	.322	.358	.901
40	.375	.396	94.748	96.640	.388	.370	1.050
41	.386	.411	94.024	102.342	.378	.370	1.019
42	.417	.417	99.954	103.809	.402	.384	1.045
43	.302	.425	70.967	101.306	.298	.402	.742
44	.519	.429	120.834	100.804	.514	.457	1.125
45	.514	.436	117.732	100.592	.511	.500	1.021
46	.553	.460	120.175	100.062	.553	.514	1.076
47	.542	.486	111.524	101.052	.536	.503	1.067
48	.335	.509	65.784	93.124	.360	.456	.789
49	.583	.535	109.008	100.599	.580	.454	1.278
50	.233	.556	41.877	97.608	.239	.460	.519
51	.625	.564	110.850	102.063	.613	.551	1.113
52	.655	.572	114.599	96.640	.678	.613	1.106
53	.721	.578	124.577	102.342	.704	.668	1.055
54	.633	.586	108.151	103.809	.610	.660	.925
55	.717	.591	121.452	101.306	.708	.651	1.087
56	.610	.600	101.671	100.804	.605	.632	.957
57	.605	.608	99.506	100.592	.602	.624	.964
58	.647	.601	107.624	100.062	.647	.603	1.072
59	.609	.586	104.031	101.052	.603	.583	1.035
60	.442	.570	77.468	93.124	.475	.546	.870
61	.596	.557	107.006	100.599	.593	.538	1.101
62	.439	.547	80.221	97.608	.450	.526	.855
63	.628	.532	118.044	102.063	.615	.538	1.143
64	.477	.526	90.759	96.640	.494	.515	.958
65	.529	.527	100.460	102.342	.517	.512	1.011
66	.457	.523	87.440	103.809	.440	.499	.883
67	.579	.518	111.722	101.306	.571	.495	1.155
68	.498	.517	96.400	100.804	.494	.502	.985
69	.353	.523	67.430	100.592	.351	.516	.679
70	.751	.526	142.664	100.062	.751	.551	1.363
71	.540	.535	101.029	101.052	.535	.539	.992
72	.411	.551	74.596	93.124	.441	.519	.850
73	.516	.557	92.588	100.599	.512	.518	.989
74	.491	.557	88.161	97.608	.503	.541	.929
75	.718	.571	125.716	102.063	.703	.592	1.188
76	.473	.580	81.518	96.640	.489	.602	.813
77	.738	.572	128.922	102.342	.721	.622	1.159

Case number	FOBPT	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
78	.623	.578	107.796	103.809	.600	.594	1.010
79	.564	.592	95.175	101.306	.556	.587	.948
80	.508	.604	84.185	100.804	.504	.581	.869
81	.685	.604	113.365	100.592	.681	.594	1.146
82	.638	.606	105.241	100.062	.638	.596	1.070
83	.469	.610	76.835	101.052	.464	.591	.785
84	.612	.611	100.248	93.124	.658	.610	1.078
85	.659	.618	106.575	100.599	.655	.623	1.051
86	.628	.629	99.838	97.608	.643	.637	1.011
87	.591	.635	93.069	102.063	.579	.629	.921
88	.650	.635	102.372	96.640	.673	.644	1.045
89	.652	.647	100.841	102.342	.637	.652	.977
90	.724	.659	109.796	103.809	.697	.666	1.048
91	.645	.662	97.508	101.306	.637	.661	.964
92	.682	.667	102.374	100.804	.677	.663	1.021
93	.654	.677	96.656	100.592	.651	.665	.978
94	.667	.684	97.508	100.062	.667	.680	.981
95	.719	.691	104.088	101.052	.712	.690	1.032
96	.667	.696	95.777	93.124	.716	.702	1.020
97	.659	.700	94.186	100.599	.655	.706	.928
98	.749	.708	105.705	97.608	.767	.717	1.070
99	.722	.716	100.829	102.063	.707	.722	.979
100	.684	.722	94.783	96.640	.708	.726	.976
101	.791	.728	108.690	102.342	.773	.727	1.064
102	.705	.734	96.133	103.809	.679	.727	.934
103	.748	.739	101.094	101.306	.738	.736	1.002
104	.784	.741	105.747	100.804	.777	.742	1.047
105	.732	.741	98.792	100.592	.728	.749	.972
106	.740	.747	99.023	100.062	.739	.756	.978
107	.790	.752	105.136	101.052	.782	.762	1.027
108	.735	.756	97.207	93.124	.790	.762	1.037
109	.730	.764	95.532	100.599	.725	.749	.968
110	.714	.766	93.239	97.608	.731	.748	.977
111	.760	.768	98.965	102.063	.744	.759	.980
112	.785	.773	101.448	96.640	.812	.779	1.043
113	.807	.775	104.152	102.342	.789	.789	1.000
114	.803	.776	103.410	103.809	.773	.787	.983
115	.829	.778	106.517	101.306	.818	.786	1.041
116	.741	.782	94.653	100.804	.735	.782	.939
117	.822	.786	104.549	100.592	.817	.788	1.037

Case number	FOBPT	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
118	.793	.783	101.252	100.062	.793	.791	1.002
119	.779	.780	99.892	101.052	.771	.790	.977
120	.770	.780	98.814	93.124	.827	.791	1.046
121	.741	.783	94.642	100.599	.737	.781	.943
122	.805	.786	102.418	97.608	.824	.778	1.059
123	.763	.788	96.730	102.063	.747	.765	.977
124	.712	.794	89.668	96.640	.736	.762	.966
125	.801	.801	100.055	102.342	.783	.779	1.005
126	.794	.814	97.554	103.809	.765	.791	.967
127	.926	.828	111.931	101.306	.914	.819	1.117
128	.700	.837	83.670	100.804	.695	.815	.853
129	.927	.848	109.282	100.592	.922	.847	1.088
130	.813	.863	94.231	100.062	.813	.870	.934
131	.938	.876	107.072	101.052	.928	.914	1.015
132	.930	.887	104.796	93.124	.998	.928	1.076
133	.903	.889	101.613	100.599	.898	.928	.968
134	.870	.900	96.751	97.608	.892	.918	.972
135	.966	.912	105.963	102.063	.947	.916	1.034
136	.866	.915	94.604	96.640	.896	.912	.982
137	.951	.919	103.484	102.342	.929	.903	1.029
138	.909	.922	98.615	103.809	.876	.899	.974
139	.864	.924	93.449	101.306	.853	.906	.941
140	1.012	.927	109.193	100.804	1.004	.924	1.087
141	.914	.929	98.319	100.592	.908	.925	.982
142	.906	.935	96.942	100.062	.906	.941	.963
143	.938	.939	99.844	101.052	.928	.948	.979
144	.998	.943	105.930	93.124	1.072	.968	1.107
145	.891	.950	93.753	100.599	.886	.955	.927
146	.943	.949	99.363	97.608	.966	.961	1.004
147	.954	.943	101.149	102.063	.935	.956	.978
148	1.008	.940	107.291	96.640	1.043	.972	1.074
149	.914	.943	96.992	102.342	.893	.956	.935
150	1.030	.945	108.989	103.809	.992	.949	1.046
151	.926	.943	98.181	101.306	.914	.922	.991
152	.912	.941	96.883	100.804	.904	.905	.999
153	.879	.940	93.415	100.592	.873	.901	.970
154	.868	.939	92.421	100.062	.867	.927	.936
155	1.041	.938	111.001	101.052	1.030	.958	1.076
156	.955	.938	101.811	93.124	1.025	.965	1.062
157	.877	.939	93.429	100.599	.872	.947	.921

Case number	FOBPT	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
158	.917	.944	97.176	97.608	.940	.941	.999
159	.965	.949	101.662	102.063	.945	.944	1.001
160	.957	.955	100.228	96.640	.990	.956	1.036
161	.950	.958	99.167	102.342	.928	.954	.972
162	.984	.958	102.734	103.809	.948	.957	.991
163	.996	.964	103.299	101.306	.983	.959	1.025
164	.962	.972	98.905	100.804	.954	.957	.997
165	.956	.970	98.553	100.592	.950	.960	.990
166	.932	.966	96.572	100.062	.932	.971	.960
167	1.041	.964	108.075	101.052	1.030	.999	1.032
168	.955	.966	98.869	93.124	1.025	1.012	1.013
169	1.040	.967	107.527	100.599	1.034	.998	1.036
170	.946	.966	97.949	97.608	.969	.966	1.004
171	.876	.970	90.262	102.063	.858	.932	.920
172	.941	.971	96.900	96.640	.974	.936	1.040
173	.917	.964	95.139	102.342	.896	.943	.950
174	1.066	.956	111.491	103.809	1.027	.966	1.063
175	.951	.959	99.143	101.306	.938	.971	.966
176	.980	.970	101.016	100.804	.972	.973	.999
177	1.036	.980	105.695	100.592	1.030	.960	1.073
178	.883	.983	89.858	100.062	.882	.938	.941
179	.913	.985	92.640	101.052	.903	.954	.947
180	.890	.988	90.083	93.124	.955	1.000	.956
181	1.177	.988	119.157	100.599	1.170	1.055	1.109
182	1.076	1.009	106.714	97.608	1.103	1.051	1.049
183	.987	1.025	96.308	102.063	.967	1.015	.953
184	.893	1.024	87.214	96.640	.924	.977	.945
185	1.030	1.043	98.774	102.342	1.007	.975	1.032
186	1.009	1.061	95.099	103.809	.972	1.028	.945
187	1.012	1.055	95.900	101.306	.999	1.082	.923
188	1.417	1.047	135.298	100.804	1.405	1.117	1.259
189	.984	1.049	93.873	100.592	.979	1.100	.889
190	.909	1.055	86.158	100.062	.908	1.078	.842
191	1.356	1.056	128.456	101.052	1.342	1.082	1.240
192	.869	1.050	82.710	93.124	.933	1.059	.881
193	1.061	1.047	101.405	100.599	1.055	1.056	.999
194	1.002	1.017	98.533	97.608	1.027	1.026	1.001
195	1.096	.985	111.221	102.063	1.073	1.028	1.044
196	.928	.990	93.710	96.640	.960	.989	.971
197	1.024	.977	104.895	102.342	1.001	.970	1.032

Case number	FOBPT	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
198	.878	.956	91.822	103.809	.846	.917	.922
199	1.057	.945	111.880	101.306	1.044	.900	1.159
200	.673	.931	72.234	100.804	.667	.876	.762
201	.951	.920	103.420	100.592	.946	.912	1.037
202	1.059	.913	116.047	100.062	1.059	.932	1.135
203	.884	.910	97.147	101.052	.875	.925	.946
204	.845	.914	92.398	93.124	.907	.900	1.008
205	.827	.913	90.550	100.599	.822	.879	.935
206	.904	.918	98.474	97.608	.926	.900	1.029
207	.923	.928	99.439	102.063	.904	.917	.986
208	.927	.923	100.364	96.640	.959	.944	1.016
209	.969	.927	104.539	102.342	.947	.946	1.001
210	1.032	.942	109.523	103.809	.994	.946	1.050
211	.872	.959	90.878	101.306	.860	.926	.929
212	.968	.974	99.414	100.804	.961	.932	1.031
213	.899	.981	91.728	100.592	.894	.943	.948
214	1.002	.987	101.574	100.062	1.002	.992	1.010
215	1.028	.995	103.266	101.052	1.017	1.027	.990
216	1.061	.998	106.326	93.124	1.139	1.064	1.070
217	1.022	1.004	101.778	100.599	1.016	1.048	.970
218	1.068	1.013	105.361	97.608	1.094	1.041	1.051
219	.915	1.024	89.359	102.063	.897	1.015	.884
220	1.085	1.028	105.515	96.640	1.123	1.027	1.093
221	1.018	1.023	99.416	102.342	.994	1.014	.980
222	1.042	1.019	102.277	103.809	1.004	1.018	.986
223	1.011	1.034	97.700	101.306	.998	1.016	.982
224	1.050	1.063	98.738	100.804	1.042	1.021	1.020
225	1.076	1.090	98.754	100.592	1.070	1.013	1.056
226	.924	1.105	83.644	100.062	.924	.998	.926
227	.993	1.102	90.134	101.052	.983	1.049	.936
228	.990	1.114	88.873	93.124	1.063	1.149	.925
229	1.463	1.130	129.491	100.599	1.455	1.272	1.144
230	1.318	1.130	116.652	97.608	1.351	1.297	1.041
231	1.297	1.145	113.302	102.063	1.271	1.235	1.029
232	1.073	1.164	92.182	96.640	1.110	1.158	.959
233	.945	1.171	80.756	102.342	.924	1.111	.832
234	1.401	1.181	118.624	103.809	1.349	1.121	1.204
235	1.050	.	.	101.306	1.036	1.132	.915
236	1.015	.	.	100.804	1.007	1.150	.876
237	1.455	.	.	100.592	1.446	1.163	1.243
238	1.013	.	.	100.062	1.012	1.143	.885
239	1.066	.	.	101.052	1.055	1.103	.957
240	1.156	.	.	93.124	1.241	1.082	1.147

ANEXO 2. SERIE DE PRECIOS FOB DE MADERA: Cálculo de tendencia lineal y residuos.

REGRESSION /VARIABLES STC#1 \$CASENUM /DEPENDENT STC#1 /METHOD ENTER
 /RESIDUALS
 DEFAULTS /SAVE RESID (err#2) ADJPRED (fit#2).

* * * * M U L T I P L E R E G R E S S I O N * * * *

Listwise Deletion of Missing Data

Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for FOBPT
 from

Beginning Block Number 1. Method: Enter
 Variable(s) Entered on Step Number
 1.. \$CASENUM

Multiple R .95899
 R Square .91966
 Adjusted R Square .91932
 Standard Error .07607

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	15.76413	15.76413
Residual	238	1.37716	.00579

F = 2724.35117 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig	T
\$CASENUM	3.699240E-03	7.08730E-05	.95899	52.195	.0000	
(Constant)	.30320	9.85114E-03		30.778	.0000	

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	.3069	1.1910	.7490	.2568	240
*ZPRED	-1.7213	1.7213	.0000	1.0000	240
*SEPRD	.0049	.0098	.0068	.0015	240
*ADJPRED	.3078	1.1928	.7491	.2568	240
*RESID	-.1825	.1684	.0000	.0759	240
*ZRESID	-2.3989	2.2141	.0000	.9979	240
*SRESID	-2.4115	2.2231	-.0012	1.0025	240
*DRESID	-.1844	.1698	-.0002	.0766	240
*SDRESID	-2.4363	2.2418	-.0015	1.0053	240
*MAHAL	.0001	2.9627	.9958	.8925	240
*COOK D	.0000	.0305	.0046	.0060	240
*LEVER	.0000	.0124	.0042	.0037	240

Total Cases = 240
 Durbin-Watson Test = .09368

ANEXO 3. SERIE PRECIOS FOB DE MADERA: Estimación de la duración y amplitud del ciclo por medio de la variable ficticia DUMMY. Análisis de residuos.

2/21/91 SPSS/PC+ The Statistical Package for IBM PC

REGRESSION /VARIABLES \$CASENUM DUMMY STC#1 /DEPENDENT STC#1 /METHOD
STEPWISE
/RESIDUALS DEFAULTS /SAVE ADJPRED (FIT#3) RESID (ERR#3).

***** MULTIPLE REGRESSION *****

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1
Beginning Block Number 1. Method: Stepwise

***** MULTIPLE REGRESSION *****

Equation Number 1 Dependent Variable.. STC#1

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .95899
R Square .91966
Adjusted R Square .91932
Standard Error .07607

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	15.76413	15.76413
Residual	238	1.37716	.00579

F = 2724.35117 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	3.699240E-03	7.08730E-05	.95899	52.195	.0000
(Constant)	.30320	9.85114E-03		30.778	.0000

----- Variables not in the Equation -----

Variable	Beta	In	Partial	Min Toler	T	Sig T
DUMMY	.10727		.37845	1.00000	6.294	.0000

Variable(s) Entered on Step Number
2.. DUMMY

Multiple R .96497
R Square .93117
Adjusted R Square .93058
Standard Error .07056

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	15.96137	7.98069
Residual	237	1.17992	.00498

F = 1603.01468 Signif F = .0000

Variables in the Equation

Variable	B	SE B	Beta	T	Sig	T
\$CASENUM	3.699240E-03	6.57399E-05	.95899	56.271	.0000	
DUMMY	.05852	9.29694E-03	.10727	6.294	.0000	
(Constant)	.27979	9.86539E-03		28.361	.0000	

End Block Number 1 POUT = .100 Limits reached.

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	.2835	1.1676	.7490	.2584	240
*ZPRED	-1.8012	1.6200	-.0000	1.0000	240
*SEPPRED	.0059	.0098	.0078	.0011	240
*ADJPPRED	.2841	1.1693	.7491	.2584	240
*RESID	-.1591	.1667	.0000	.0703	240
*ZRESID	-2.2545	2.3628	.0000	.9958	240
*SRESID	-2.2695	2.3835	-.0009	1.0016	240
*DRESID	-.1612	.1697	-.0001	.0711	240
*SDRESID	-2.2897	2.4075	-.0004	1.0046	240
*MAHAL	.6639	3.6266	1.9917	.8024	240
*COOK D	.0000	.0334	.0039	.0049	240
*LEVER	.0028	.0152	.0083	.0034	240

Total Cases = 240

Durbin-Watson Test = .12255

ANEXO 4. SERIE DE PRECIOS FOB DE MADERA: Análisis de varianza para los periodos 1970-1979 y 1980-1989.

ANEXO 5. SERIE DE PRECIOS NACIONALES DE MADERA: Cálculo del componente irregular, índice estacional. Serie con componente cíclico y tendencia.

SPSS/PC+ The Statistical Package for IBM PC

2/3/91

SEASON /VARIABLES PPNACDEF /MODEL MULTIPLICATIVE /MA CENTERED /PERIOD 12.

MODEL: MOD_1.

Results of SEASON procedure for variable PPNACDEF.

Multiplicative Model. Centered MA method. Period = 12.

Case number	PPNACDEF	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
1	.335	.	.	98.249	.341	.344	.993
2	.347	.	.	100.823	.344	.344	1.000
3	.348	.	.	100.003	.348	.346	1.005
4	.346	.	.	99.847	.347	.346	1.002
5	.345	.	.	99.645	.347	.345	1.003
6	.342	.	.	99.831	.343	.343	.998
7	.344	.347	98.981	100.483	.342	.342	.999
8	.338	.348	97.085	99.822	.338	.343	.985
9	.348	.347	100.207	99.983	.348	.347	1.003
10	.355	.347	102.351	100.546	.353	.351	1.006
11	.357	.347	102.860	100.523	.355	.353	1.004
12	.356	.347	102.569	100.245	.355	.353	1.006
13	.345	.348	98.890	98.249	.351	.350	1.002
14	.352	.350	100.570	100.823	.349	.347	1.005
15	.335	.351	95.577	100.003	.335	.344	.974
16	.348	.351	99.329	99.847	.349	.345	1.010
17	.344	.351	98.073	99.645	.345	.348	.992
18	.353	.351	100.559	99.831	.353	.352	1.005
19	.357	.350	101.841	100.483	.355	.353	1.005
20	.356	.349	101.850	99.822	.356	.354	1.006
21	.351	.349	100.746	99.983	.351	.354	.993
22	.355	.348	102.114	100.546	.353	.354	.997
23	.358	.347	103.263	100.523	.356	.353	1.009
24	.358	.346	103.580	100.245	.357	.349	1.022
25	.331	.344	96.384	98.249	.337	.343	.984
26	.337	.341	98.738	100.823	.334	.337	.992
27	.333	.339	98.401	100.003	.333	.334	.998
28	.331	.336	98.462	99.847	.332	.334	.993
29	.335	.335	100.242	99.645	.337	.334	1.007
30	.336	.333	100.951	99.831	.336	.333	1.012
31	.329	.331	99.328	100.483	.327	.329	.994
32	.324	.330	98.268	99.822	.325	.326	.994
33	.323	.328	98.508	99.983	.323	.326	.990
34	.329	.326	100.906	100.546	.327	.329	.995
35	.339	.324	104.528	100.523	.337	.330	1.019
36	.333	.322	103.646	100.245	.333	.328	1.012
37	.315	.320	98.386	98.249	.321	.323	.993

Case number	PPNACDEF	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend- cycle	Irregular component
38	.320	.320	99.930	100.823	.317	.317	1.001
39	.308	.320	96.284	100.003	.308	.312	.987
40	.309	.319	96.666	99.847	.309	.310	.997
41	.310	.318	97.343	99.645	.311	.311	1.000
42	.308	.316	97.355	99.831	.308	.313	.984
43	.323	.314	102.718	100.483	.321	.318	1.011
44	.322	.312	103.106	99.822	.323	.320	1.007
45	.323	.310	104.106	99.983	.323	.321	1.007
46	.320	.308	103.933	100.546	.318	.318	1.001
47	.315	.305	103.314	100.523	.314	.313	1.001
48	.312	.303	103.242	100.245	.312	.307	1.014
49	.291	.299	97.438	98.249	.297	.299	.992
50	.293	.295	99.158	100.823	.290	.292	.995
51	.285	.291	97.929	100.003	.285	.285	.999
52	.278	.287	96.943	99.847	.279	.281	.994
53	.277	.284	97.447	99.645	.278	.277	1.001
54	.273	.281	96.965	99.831	.273	.275	.992
55	.277	.279	99.315	100.483	.275	.274	1.004
56	.272	.276	98.498	99.822	.273	.274	.995
57	.274	.274	99.947	99.983	.274	.275	.998
58	.278	.273	101.775	100.546	.276	.276	1.001
59	.279	.272	102.637	100.523	.277	.276	1.004
60	.280	.271	103.538	100.245	.280	.275	1.018
61	.264	.270	97.936	98.249	.269	.271	.994
62	.266	.269	98.901	100.823	.264	.267	.988
63	.265	.268	98.954	100.003	.265	.264	1.001
64	.263	.266	98.567	99.847	.263	.264	.998
65	.262	.265	98.950	99.645	.263	.264	.998
66	.263	.264	99.847	99.831	.264	.263	1.002
67	.266	.266	99.893	100.483	.265	.263	1.008
68	.259	.274	94.514	99.822	.259	.261	.991
69	.261	.281	92.815	99.983	.261	.261	1.000
70	.262	.288	90.829	100.546	.261	.261	1.000
71	.262	.296	88.483	100.523	.261	.271	.960
72	.263	.304	86.446	100.245	.262	.292	.897
73	.348	.311	111.859	98.249	.355	.323	1.099
74	.353	.319	110.761	100.823	.350	.343	1.022
75	.354	.326	108.421	100.003	.354	.354	1.000
76	.354	.333	106.357	99.847	.355	.354	1.001
77	.354	.340	104.018	99.645	.355	.355	1.000

Case number	PPNACDEF	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
78	.357	.348	102.590	99.831	.357	.355	1.006
79	.356	.351	101.530	100.483	.354	.353	1.005
80	.348	.350	99.360	99.822	.348	.350	.996
81	.346	.349	99.290	99.983	.346	.347	.997
82	.347	.346	100.278	100.546	.345	.346	.998
83	.347	.344	101.008	100.523	.345	.346	.998
84	.349	.342	102.252	100.245	.348	.345	1.008
85	.339	.342	99.247	98.249	.345	.343	1.006
86	.341	.345	98.841	100.823	.338	.338	1.000
87	.334	.348	96.085	100.003	.334	.333	1.004
88	.320	.351	91.186	99.847	.320	.328	.976
89	.328	.354	92.663	99.645	.330	.334	.986
90	.328	.358	91.775	99.831	.329	.347	.947
91	.389	.361	107.841	100.483	.387	.367	1.055
92	.384	.363	105.956	99.822	.385	.379	1.016
93	.382	.365	104.713	99.983	.383	.385	.993
94	.389	.369	105.616	100.546	.387	.386	1.003
95	.389	.372	104.419	100.523	.387	.385	1.004
96	.390	.376	103.672	100.245	.389	.382	1.019
97	.366	.377	97.100	98.249	.373	.375	.994
98	.366	.376	97.456	100.823	.363	.370	.982
99	.366	.374	97.743	100.003	.366	.368	.995
100	.370	.373	99.212	99.847	.371	.369	1.005
101	.370	.372	99.633	99.645	.372	.370	1.003
102	.370	.370	100.063	99.831	.371	.370	1.001
103	.370	.368	100.504	100.483	.368	.370	.996
104	.370	.367	100.818	99.822	.371	.370	1.003
105	.370	.367	101.008	99.983	.370	.370	1.002
106	.370	.365	101.294	100.546	.368	.369	.998
107	.370	.364	101.675	100.523	.368	.367	1.004
108	.370	.362	102.128	100.245	.369	.364	1.015
109	.347	.360	96.231	98.249	.353	.359	.982
110	.358	.357	100.139	100.823	.355	.357	.995
111	.358	.354	100.949	100.003	.358	.355	1.006
112	.354	.351	100.938	99.847	.354	.355	.999
113	.354	.347	101.993	99.645	.355	.352	1.009
114	.348	.342	101.751	99.831	.349	.346	1.007
115	.338	.338	99.783	100.483	.336	.340	.988
116	.335	.336	99.495	99.822	.335	.334	1.003
117	.329	.335	98.215	99.983	.329	.329	1.000

Case number	PPNACDEF	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
118	.326	.333	97.737	100.546	.324	.324	1.001
119	.320	.332	96.385	100.523	.318	.319	.996
120	.311	.330	94.215	100.245	.310	.319	.973
121	.316	.332	95.299	98.249	.322	.324	.992
122	.341	.336	101.493	100.823	.338	.331	1.020
123	.339	.340	99.716	100.003	.339	.336	1.009
124	.336	.345	97.485	99.847	.336	.337	1.000
125	.334	.349	95.739	99.645	.336	.341	.985
126	.332	.354	93.625	99.831	.332	.351	.948
127	.385	.361	106.663	100.483	.383	.367	1.043
128	.385	.368	104.407	99.822	.385	.378	1.020
129	.384	.377	101.820	99.983	.384	.382	1.005
130	.380	.386	98.500	100.546	.378	.379	.996
131	.378	.394	95.809	100.523	.376	.381	.986
132	.377	.402	93.684	100.245	.376	.390	.963
133	.402	.408	98.383	98.249	.409	.408	1.002
134	.442	.412	107.353	100.823	.438	.426	1.030
135	.442	.415	106.412	100.003	.442	.436	1.012
136	.440	.419	104.993	99.847	.440	.438	1.004
137	.434	.422	102.716	99.645	.435	.436	.999
138	.432	.426	101.591	99.831	.433	.432	1.003
139	.427	.428	99.861	100.483	.425	.428	.994
140	.424	.429	98.998	99.822	.425	.426	.999
141	.424	.429	98.908	99.983	.425	.423	1.003
142	.424	.429	98.639	100.546	.421	.421	1.000
143	.420	.430	97.615	100.523	.417	.420	.995
144	.418	.430	97.233	100.245	.417	.422	.989
145	.415	.431	96.313	98.249	.422	.428	.987
146	.447	.432	103.568	100.823	.444	.436	1.016
147	.446	.433	103.118	100.003	.446	.442	1.010
148	.442	.433	102.072	99.847	.443	.443	.999
149	.440	.433	101.617	99.645	.442	.441	1.002
150	.438	.433	101.154	99.831	.439	.439	1.001
151	.437	.433	100.895	100.483	.435	.436	.996
152	.435	.431	100.977	99.822	.436	.434	1.004
153	.432	.427	101.249	99.983	.432	.430	1.005
154	.428	.423	101.096	100.546	.426	.426	1.000
155	.422	.420	100.416	100.523	.419	.421	.997
156	.417	.416	100.270	100.245	.416	.415	1.003
157	.403	.413	97.681	98.249	.410	.410	1.001

Case number	PPNACDEF	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
158	.405	.409	98.981	100.823	.402	.405	.991
159	.402	.405	99.329	100.003	.402	.402	1.000
160	.399	.401	99.465	99.847	.400	.400	.999
161	.399	.398	100.194	99.645	.400	.398	1.005
162	.395	.396	99.808	99.831	.396	.396	1.000
163	.393	.394	99.886	100.483	.391	.392	.998
164	.389	.393	98.979	99.822	.390	.389	1.001
165	.385	.393	97.949	99.983	.385	.387	.996
166	.387	.393	98.314	100.546	.385	.386	.997
167	.387	.394	98.318	100.523	.385	.386	.997
168	.388	.394	98.424	100.245	.387	.389	.994
169	.386	.395	97.912	98.249	.393	.394	.999
170	.404	.395	102.096	100.823	.400	.399	1.004
171	.405	.396	102.122	100.003	.405	.403	1.005
172	.405	.397	101.912	99.847	.406	.404	1.003
173	.404	.398	101.392	99.645	.405	.404	1.004
174	.402	.399	100.615	99.831	.402	.402	1.001
175	.398	.400	99.462	100.483	.396	.400	.990
176	.400	.400	99.842	99.822	.400	.399	1.004
177	.399	.400	99.757	99.983	.399	.398	1.003
178	.398	.399	99.569	100.546	.396	.397	.997
179	.398	.399	99.663	100.523	.396	.397	.997
180	.397	.399	99.525	100.245	.396	.398	.996
181	.397	.398	99.609	98.249	.404	.399	1.011
182	.400	.397	100.616	100.823	.397	.399	.993
183	.401	.397	100.895	100.003	.401	.400	1.001
184	.400	.398	100.674	99.847	.401	.400	1.002
185	.399	.398	100.211	99.645	.401	.399	1.005
186	.398	.399	99.714	99.831	.399	.396	1.008
187	.388	.400	97.033	100.483	.386	.393	.982
188	.388	.400	96.950	99.822	.389	.395	.985
189	.405	.401	101.115	99.983	.405	.399	1.015
190	.407	.401	101.556	100.546	.405	.403	1.005
191	.406	.401	101.267	100.523	.404	.405	.997
192	.404	.401	100.829	100.245	.403	.405	.995
193	.404	.402	100.648	98.249	.412	.406	1.014
194	.405	.403	100.616	100.823	.402	.405	.994
195	.403	.403	99.919	100.003	.403	.403	.999
196	.402	.403	99.686	99.847	.403	.402	1.000
197	.400	.403	99.156	99.645	.401	.402	.998

Case number	PPNACDEF	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
198	.404	.403	100.137	99.831	.404	.401	1.007
199	.400	.403	99.188	100.483	.398	.401	.992
200	.399	.403	99.009	99.822	.400	.401	.996
201	.405	.403	100.428	99.983	.405	.402	1.008
202	.404	.404	100.081	100.546	.402	.403	.998
203	.405	.404	100.118	100.523	.403	.404	.996
204	.406	.405	100.237	100.245	.405	.406	.998
205	.405	.405	99.920	98.249	.412	.407	1.013
206	.407	.406	100.231	100.823	.404	.407	.992
207	.407	.407	100.053	100.003	.407	.407	1.000
208	.407	.408	99.751	99.847	.407	.407	1.000
209	.406	.409	99.388	99.645	.408	.408	.999
210	.410	.410	100.061	99.831	.411	.409	1.005
211	.409	.411	99.453	100.483	.407	.409	.996
212	.408	.413	98.931	99.822	.409	.410	.998
213	.409	.414	98.750	99.983	.409	.412	.993
214	.420	.415	101.326	100.546	.418	.415	1.008
215	.419	.416	100.846	100.523	.417	.418	.998
216	.418	.417	100.383	100.245	.417	.420	.993
217	.423	.417	101.283	98.249	.430	.422	1.019
218	.422	.418	100.839	100.823	.418	.421	.992
219	.421	.419	100.487	100.003	.421	.421	1.000
220	.419	.419	100.063	99.847	.420	.420	1.000
221	.416	.419	99.319	99.645	.417	.419	.997
222	.421	.419	100.642	99.831	.422	.419	1.008
223	.415	.418	99.212	100.483	.413	.417	.990
224	.421	.418	100.695	99.822	.422	.417	1.011
225	.411	.419	98.007	99.983	.411	.416	.988
226	.420	.420	100.119	100.546	.418	.416	1.004
227	.419	.421	99.579	100.523	.417	.416	1.001
228	.416	.422	98.705	100.245	.415	.418	.993
229	.411	.423	97.157	98.249	.418	.421	.992
230	.432	.423	102.217	100.823	.429	.426	1.008
231	.432	.423	101.950	100.003	.432	.429	1.007
232	.430	.423	101.474	99.847	.430	.430	1.000
233	.426	.423	100.840	99.645	.428	.430	.996
234	.433	.422	102.608	99.831	.434	.429	1.012
235	.426	.	.	100.483	.424	.425	.996
236	.421	.	.	99.822	.422	.422	1.001
237	.418	.	.	99.983	.418	.417	1.003
238	.414	.	.	100.546	.411	.413	.996
239	.411	.	.	100.523	.408	.409	.999
240	.408	.	.	100.245	.407	.407	1.000

ANEXO 6. SERIE DE PRECIOS NACIONALES DE MADERA: Cálculo de la tendencia y análisis de residuos.

SPSS/PC+ The Statistical Package for IBM PC

REGRESSION /VARIABLES \$CASENUM STC#1 /DEPENDENT STC#1 /METHOD ENTER.

***** MULTIPLE REGRESSION *****

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1
Beginning Block Number 1. Method: Enter

***** MULTIPLE REGRESSION *****

Equation Number 1 Dependent Variable.. STC#1

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .76009
R Square .57774
Adjusted R Square .57597
Standard Error .03086

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	.31016	.31016
Residual	238	.22669	.00095

F = 325.63742 Signif F = .0000

***** MULTIPLE REGRESSION *****

Equation Number 1 Dependent Variable.. STC#1

Variables in the Equation

Variable	B	SE B	Beta	T	Sig	T
\$CASENUM	5.188840E-04	2.87543E-05	.76009	18.045	.0000	
(Constant)	.30607	3.99676E-03		76.580	.0000	

End Block Number 1 All requested variables entered.

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	.3066	.4306	.3686	.0360	240
*ZPRED	-1.7213	1.7213	.0000	1.0000	240
*SEPRE	.0020	.0040	.0027	.0006	240
*ADJPRED	.3060	.4310	.3686	.0361	240
*RESID	-.0818	.0618	.0000	.0308	240
*ZRESID	-2.6489	2.0035	.0000	.9979	240
*SRESID	-2.6574	2.0079	.0002	1.0016	240
*DRESID	-.0823	.0621	.0000	.0310	240
*SDRESID	-2.6920	2.0208	-.0009	1.0068	240
*MAHAL	.0001	2.9627	.9958	.8925	240
*COOK D	.0000	.0227	.0037	.0056	240
*LEVER	.0000	.0124	.0042	.0037	240

Total Cases = 240

ANEXO 7. SERIE DE PRECIOS NACIONALES DE MADERA: Estimación de la amplitud y duración del ciclo por medio de variable ficticia DUMMY. Análisis de residuos.

SPSS/PC+ The Statistical Package for IBM PC

2/21/91

REGRESSION /VARIABLES \$CASENUM DUMMY STC#1 /DEPENDENT STC#1 /METHOD
STEPWISE
/RESIDUALS DEFAULTS /SAVE RESID (ERR#3) ADJPRED (FIT#3).

***** MULTIPLE REGRESSION *****

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1
Beginning Block Number 1. Method: Stepwise

***** MULTIPLE REGRESSION *****

Equation Number 1 Dependent Variable.. STC#1

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .76009
R Square .57774
Adjusted R Square .57597
Standard Error .03086

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	.31016	.31016
Residual	238	.22669	.00095

F = 325.63742 Signif F = .0000

***** MULTIPLE REGRESSION *****

Equation Number 1 Dependent Variable.. STC#1

Variables in the Equation

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	5.188840E-04	2.87543E-05	.76009	18.045	.0000
(Constant)	.30607	3.99676E-03		76.580	.0000

Variables not in the Equation

Variable	Beta	In	Partial	Min Toler	T	Sig T
DUMMY	.31035	.47614	.99386	8.336	.0000	

***** MULTIPLE REGRESSION *****

Equation Number 1 Dependent Variable.. STC#1
 Variable(s) Entered on Step Number
 2.. DUMMY

Multiple R .82065
 R Square .67347
 Adjusted R Square .67071
 Standard Error .02720

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	.36155	.18078
Residual	237	.17530	.00074

F = 244.40744 Signif F = .0000

* * * * MULTIPLE REGRESSION * * * *

Equation Number 1 Dependent Variable.. STC#1

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	5.354805E-04	2.54171E-05	.78441	21.068	.0000
DUMMY	.02950	3.53961E-03	.31035	8.336	.0000
(Constant)	.28784	4.14567E-03		69.432	.0000

End Block Number 1 POUT = .100 Limits reached.

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	.3077	.4459	.3686	.0389	240
*ZPRED	-1.5668	1.9866	.0000	1.0000	240
*SEPPRED	.0024	.0039	.0030	.0004	240
*ADJPRED	.3074	.4467	.3686	.0389	240
*RESID	-.0647	.0778	.0000	.0271	240
*ZRESID	-2.3784	2.8607	.0000	.9958	240
*SRESID	-2.3929	2.8742	-.0002	1.0017	240
*DRESID	-.0655	.0785	-.0000	.0274	240
*SDRESID	-2.4172	2.9194	.0002	1.0071	240
*MAHAL	.8268	4.0457	1.9917	.8646	240
*COOK D	.0000	.0260	.0040	.0058	240
*LEVER	.0035	.0169	.0083	.0036	240

Total Cases = 240

 Durbin-Watson Test = .04851

ANEXO 8. PRECIOS NACIONALES DE MADERA: Análisis de varianza para los períodos 1970-1979 y 1980-1989.

ANEXO 9. TABLA DE CORRELACION DE PRECIOS DE MADERA Y CANTIDAD EXPORTADA.

SPSS/PC+ The Statistical Package for IBM PC

CORRELATIONS /VARIABLES CANTEXPP FOBPT IPPC PPTGDEF PPSPSDEF PPNACDEF
 /OPTIONS
 5 /STATISTICS 1.

Variable	Cases	Mean	Std Dev
CANTEXPP	240	12313.7400	69.4262
FOBPT	240	.5691	.2123
IPPC	240	129.6163	53.4506
PPTGDEF	240	.3727	.0458
PPSPSDEF	240	.3625	.0566
PPNACDEF	240	.3686	.0482

CORRELAC	CANTEXPP	FOBPT	IPPC	PPTGDEF	PPSPSDEF	PPNACDEF
CANTEXPP	1.0000 (240) P= .	.9194 (240) P= .000	.9861 (240) P= .000	.6844 (240) P= .000	.7647 (240) P= .000	.7494 (240) P= .000
FOBPT	.9194 (240) P= .000	1.0000 (240) P= .	.8980 (240) P= .000	.6256 (240) P= .000	.7338 (240) P= .000	.7013 (240) P= .000
IPPC	.9861 (240) P= .000	.8980 (240) P= .000	1.0000 (240) P= .	.7346 (240) P= .000	.7561 (240) P= .000	.7740 (240) P= .000
PPTGDEF	.6844 (240) P= .000	.6256 (240) P= .000	.7346 (240) P= .000	1.0000 (240) P= .	.8482 (240) P= .000	.9686 (240) P= .000
PPSPSDEF	.7647 (240) P= .000	.7338 (240) P= .000	.7561 (240) P= .000	.8482 (240) P= .000	1.0000 (240) P= .	.9533 (240) P= .000
PPNACDEF	.7494 (240) P= .000	.7013 (240) P= .000	.7740 (240) P= .000	.9686 (240) P= .000	.9533 (240) P= .000	1.0000 (240) P= .

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

ANEXO 10. CORRELACION DE INDICES DE ESTACIONALIDAD PARA MADERA: Precios FOB y precios nacionales.

SPSS/PC+ The Statistical Package for IBM PC

3/10/91

CORRELATIONS /VARIABLES FOB NAC /OPTIONS 5 /STATISTICS 1.

Variable	Cases	Mean	Std Dev
FOB	12	100.0001	2.9032
NAC	12	100.0000	.6618

Correlations:	FOB	NAC
FOB	1.0000 (12) P= .	-.2174 (12) P= .249
NAC	-.2174 (12) P= .249	1.0000 (12) P= .

(Coefficient / (Cases) / 1-tailed Significance)

" . " is printed if a coefficient cannot be computed

ANEXO 10. (continuación)...ANÁLISIS DE VARIANZA Y SEPARACIÓN DE MEDIAS PARA INDICES ESTACIONALES DE MADERA: Precios FOB y precios nacionales.

Function: ANOVA-2
Data case 1 to 24

Two-way Analysis of Variance over
variable 1 (bloque) with values from 1 to 2 and over
variable 2 (repet) with values from 1 to 12.

Variable 3: indice

A N A L Y S I S O F V A R I A N C E T A B L E

Source	Degrees of Freedom	Sum of Squares	Mean Square	F-value	Prob
tipo de indice	1	0.00	0.000	0.00	0.9954
mes	11	44.19	4.017	0.83	0.6183
Error	11	53.21	4.837		
Non-additivity	1	43.75	43.748	46.24	
Residual	10	9.46	0.946		
Total	23	97.40			

Grand Mean= 99.999 Grand Sum= 2399.986 Total Count= 24

Coefficient of Variation= 2.20%

Means for variable 3 (indice)
for each level of variable 1 (bloque):

Var 1 Value	Var 3 Mean
1	99.997
2	100.002

Means for variable 3 (indice)
for each level of variable 2 (repet):

Var 2 Value	Var 3 Mean
1	99.417
2	99.215
3	101.033
4	98.243
5	100.993
6	101.820
7	100.895
8	100.313
9	100.288
10	100.304
11	100.788
12	96.685

Error Mean Square = 4.837
 Error Degrees of Freedom = 11
 No. of observations to calculate a mean = 2

Duncan's Multiple Range Test
 LSD value = 6.831
 $s_x = 1.555$ at $\alpha = 0.010$

Original				Ranked			
	Order				Order		
Mean	1 =	99.42	A	Mean	6 =	101.8	A
Mean	2 =	99.22	A	Mean	3 =	101.0	A
Mean	3 =	101.0	A	Mean	5 =	101.0	A
Mean	4 =	98.25	A	Mean	7 =	100.9	A
Mean	5 =	101.0	A	Mean	11 =	100.8	A
Mean	6 =	101.8	A	Mean	8 =	100.3	A
Mean	7 =	100.9	A	Mean	10 =	100.3	A
Mean	8 =	100.3	A	Mean	9 =	100.3	A
Mean	9 =	100.3	A	Mean	1 =	99.42	A
Mean	10 =	100.3	A	Mean	2 =	99.22	A
Mean	11 =	100.8	A	Mean	4 =	98.25	A
Mean	12 =	96.69	A	Mean	12 =	96.69	A

ANEXO 11. SERIE DE PRECIOS INTERNACIONALES DE CARNE: Componente
 irregular, índices estacionales y serie con componente cíclico

SPSS/PC+ The Statistical Package for IBM PC

DESCRIPTIVES /VARIABLES PPINTKG /STATISTICS ALL.

Number of Valid Observations (Listwise) = 240.00

Variable PPINTKG

Mean	3.896	S.E. Mean	.083
Std Dev	1.288	Variance	1.659
Kurtosis	-1.263	S.E. Kurt	.313
Skewness	-.252	S.E. Skew	.157
Range	4.632	Minimum	1.660
Maximum	6.292	Sum	934.945

Valid Observations - 240 Missing Observations - 0

SEASON	/VARIABLES	PPINTKG	/MODEL	MULTIPLICATIVE	/MA	CENTERED	/PERIOD	12.
Case number	PPINTKG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component	
1	1.902	.	.	101.702	1.870	1.831	1.022	
2	1.878	.	.	105.417	1.781	1.834	.971	
3	1.951	.	.	105.514	1.849	1.840	1.005	
4	1.951	.	.	103.454	1.886	1.849	1.020	
5	1.819	.	.	100.719	1.806	1.853	.975	
6	1.833	.	.	96.788	1.893	1.855	1.021	
7	1.786	1.814	98.500	96.402	1.853	1.847	1.003	
8	1.757	1.808	97.169	96.989	1.811	1.841	.984	
9	1.819	1.806	100.710	98.413	1.848	1.823	1.014	
10	1.799	1.801	99.896	97.775	1.840	1.790	1.028	
11	1.660	1.801	92.177	97.199	1.708	1.750	.976	
12	1.665	1.804	92.274	99.627	1.671	1.728	.967	
13	1.789	1.808	98.922	101.702	1.759	1.741	1.010	
14	1.859	1.814	102.497	105.417	1.764	1.769	.997	
15	1.912	1.822	104.979	105.514	1.812	1.802	1.006	
16	1.878	1.830	102.622	103.454	1.815	1.833	.991	
17	1.881	1.843	102.033	100.719	1.867	1.868	1.000	
18	1.863	1.861	100.129	96.788	1.925	1.895	1.016	
19	1.845	1.879	98.163	96.402	1.914	1.911	1.001	
20	1.844	1.907	96.657	96.989	1.901	1.921	.989	
21	1.910	1.937	98.570	98.413	1.940	1.929	1.006	
22	1.910	1.957	97.601	97.775	1.953	1.931	1.012	
23	1.865	1.977	94.325	97.199	1.918	1.930	.994	
24	1.890	2.004	94.313	99.627	1.897	1.958	.969	
25	2.006	2.035	98.611	101.702	1.973	2.009	.982	
26	2.312	2.069	111.747	105.417	2.193	2.062	1.064	
27	2.178	2.103	103.604	105.514	2.065	2.080	.993	
28	2.073	2.130	97.321	103.454	2.004	2.104	.952	
29	2.174	2.154	100.933	100.719	2.159	2.160	.999	
30	2.214	2.178	101.625	96.788	2.287	2.240	1.021	
31	2.236	2.204	101.436	96.402	2.320	2.301	1.008	
32	2.271	2.235	101.622	96.989	2.341	2.317	1.010	
33	2.296	2.281	100.661	98.413	2.333	2.300	1.014	
34	2.187	2.347	93.189	97.775	2.237	2.260	.990	
35	2.164	2.407	89.883	97.199	2.226	2.239	.994	
36	2.163	2.455	88.122	99.627	2.171	2.266	.958	
37	2.361	2.504	94.313	101.702	2.322	2.377	.977	

Case number	PPINTKG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
38	2.681	2.558	104.785	105.417	2.543	2.534	1.004
39	2.930	2.624	111.649	105.514	2.776	2.680	1.036
40	2.902	2.689	107.925	103.454	2.805	2.764	1.015
41	2.795	2.733	102.259	100.719	2.775	2.817	.985
42	2.724	2.772	98.270	96.788	2.814	2.870	.980
43	2.909	2.816	103.302	96.402	3.017	2.970	1.016
44	2.909	2.853	101.974	96.989	2.999	3.032	.989
45	3.227	2.861	112.788	98.413	3.279	3.032	1.082
46	2.822	2.845	99.190	97.775	2.886	2.912	.991
47	2.585	2.821	91.647	97.199	2.660	2.806	.948
48	2.664	2.784	95.674	99.627	2.674	2.758	.969
49	2.924	2.735	106.897	101.702	2.875	2.778	1.035
50	2.999	2.682	111.816	105.417	2.845	2.760	1.031
51	2.826	2.606	108.465	105.514	2.678	2.682	.999
52	2.615	2.523	103.656	103.454	2.528	2.551	.991
53	2.504	2.477	101.070	100.719	2.486	2.445	1.017
54	2.130	2.466	86.344	96.788	2.200	2.357	.934
55	2.326	2.459	94.599	96.402	2.413	2.313	1.043
56	2.218	2.447	90.648	96.989	2.287	2.238	1.022
57	2.080	2.440	85.260	98.413	2.114	2.198	.962
58	1.980	2.432	81.421	97.775	2.025	2.229	.909
59	2.333	2.423	96.269	97.199	2.400	2.378	1.009
60	2.660	2.421	109.843	99.627	2.670	2.554	1.045
61	2.741	2.420	113.260	101.702	2.695	2.660	1.013
62	2.911	2.412	120.678	105.417	2.761	2.663	1.037
63	2.737	2.407	113.712	105.514	2.594	2.582	1.005
64	2.521	2.403	104.909	103.454	2.437	2.474	.985
65	2.380	2.402	99.118	100.719	2.363	2.380	.993
66	2.209	2.402	91.967	96.788	2.282	2.312	.987
67	2.218	2.411	91.989	96.402	2.301	2.255	1.020
68	2.134	2.431	87.757	96.989	2.200	2.178	1.010
69	2.034	2.470	82.359	98.413	2.067	2.141	.965
70	1.941	2.543	76.351	97.775	1.985	2.196	.904
71	2.333	2.636	88.505	97.199	2.400	2.389	1.005
72	2.663	2.725	97.712	99.627	2.673	2.627	1.018
73	2.966	2.801	105.879	101.702	2.916	2.859	1.020
74	3.167	2.878	110.041	105.417	3.004	3.050	.985
75	3.407	2.964	114.931	105.514	3.229	3.232	.999
76	3.597	3.046	118.088	103.454	3.477	3.358	1.035
77	3.544	3.104	114.174	100.719	3.519	3.389	1.038

Case number	PPINTKG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
78	3.190	3.138	101.642	96.788	3.295	3.332	.989
79	3.054	3.159	96.673	96.402	3.168	3.250	.975
80	3.150	3.171	99.351	96.989	3.248	3.174	1.023
81	3.086	3.168	97.398	98.413	3.135	3.089	1.015
82	2.851	3.140	90.784	97.775	2.916	3.007	.969
83	2.820	3.096	91.079	97.199	2.901	2.974	.976
84	2.988	3.062	97.581	99.627	2.999	3.001	.999
85	3.147	3.041	103.499	101.702	3.095	3.050	1.015
86	3.269	3.016	108.401	105.417	3.101	3.069	1.011
87	3.237	2.989	108.294	105.514	3.068	3.050	1.006
88	3.095	2.981	103.833	103.454	2.992	3.018	.991
89	2.990	2.990	100.000	100.719	2.968	2.991	.992
90	2.916	3.003	97.103	96.788	3.013	2.966	1.016
91	2.830	3.022	93.659	96.402	2.936	2.932	1.001
92	2.772	3.056	90.703	96.989	2.858	2.909	.982
93	2.824	3.110	90.788	98.413	2.869	2.920	.983
94	2.920	3.199	91.288	97.775	2.987	2.980	1.002
95	2.958	3.319	89.135	97.199	3.043	3.077	.989
96	3.163	3.425	92.351	99.627	3.175	3.217	.987
97	3.424	3.514	97.440	101.702	3.366	3.391	.993
98	3.819	3.611	105.763	105.417	3.623	3.629	.998
99	3.991	3.733	106.913	105.514	3.782	3.895	.971
100	4.466	3.879	115.132	103.454	4.317	4.129	1.046
101	4.492	4.031	111.456	100.719	4.460	4.227	1.055
102	3.969	4.182	94.908	96.788	4.101	4.200	.976
103	3.900	4.360	89.437	96.402	4.045	4.186	.966
104	4.042	4.555	88.740	96.989	4.167	4.297	.970
105	4.474	4.743	94.329	98.413	4.547	4.519	1.006
106	4.781	4.903	97.498	97.775	4.889	4.745	1.030
107	4.736	5.011	94.517	97.199	4.873	4.974	.980
108	5.011	5.099	98.277	99.627	5.030	5.221	.963
109	5.862	5.195	112.829	101.702	5.764	5.517	1.045
110	6.046	5.318	113.681	105.417	5.735	5.721	1.002
111	6.292	5.441	115.631	105.514	5.963	5.803	1.028
112	6.003	5.545	108.250	103.454	5.803	5.697	1.019
113	5.538	5.658	97.879	100.719	5.499	5.534	.994
114	5.038	5.766	87.377	96.788	5.205	5.446	.956
115	5.138	5.819	88.304	96.402	5.330	5.509	.968
116	5.761	5.819	99.003	96.989	5.940	5.718	1.039
117	5.707	5.784	98.666	98.413	5.799	5.926	.979

Case number	PPINTKG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
118	6.044	5.714	105.778	97.775	6.181	6.108	1.012
119	6.182	5.645	109.506	97.199	6.360	6.164	1.032
120	6.145	5.616	109.427	99.627	6.168	6.091	1.013
121	6.002	5.630	106.600	101.702	5.901	5.879	1.004
122	5.918	5.648	104.781	105.417	5.614	5.582	1.006
123	5.570	5.650	98.593	105.514	5.279	5.282	1.000
124	5.038	5.635	89.404	103.454	4.870	5.068	.961
125	4.862	5.608	86.700	100.719	4.827	5.062	.954
126	5.012	5.567	90.020	96.788	5.178	5.276	.981
127	5.500	5.513	99.764	96.402	5.705	5.566	1.025
128	5.830	5.453	106.905	96.989	6.011	5.780	1.040
129	5.685	5.412	105.044	98.413	5.777	5.863	.985
130	5.711	5.416	105.450	97.775	5.841	5.851	.998
131	5.861	5.434	107.847	97.199	6.030	5.760	1.047
132	5.491	5.433	101.066	99.627	5.512	5.537	.995
133	5.355	5.399	99.182	101.702	5.265	5.296	.994
134	5.135	5.332	96.294	105.417	4.871	5.109	.953
135	5.355	5.263	101.745	105.514	5.075	5.059	1.003
136	5.355	5.200	102.979	103.454	5.176	5.052	1.024
137	4.985	5.129	97.187	100.719	4.950	5.037	.983
138	4.862	5.068	95.931	96.788	5.023	5.024	1.000
139	4.827	5.028	95.996	96.402	5.007	5.017	.998
140	4.906	5.003	98.065	96.989	5.058	5.034	1.005
141	4.941	4.970	99.428	98.413	5.021	5.042	.996
142	4.941	4.921	100.406	97.775	5.054	5.043	1.002
143	4.941	4.891	101.027	97.199	5.084	5.017	1.013
144	4.941	4.879	101.266	99.627	4.960	4.945	1.003
145	4.941	4.859	101.694	101.702	4.858	4.829	1.006
146	4.941	4.825	102.409	105.417	4.687	4.709	.995
147	4.752	4.803	98.939	105.514	4.504	4.644	.970
148	4.796	4.799	99.931	103.454	4.636	4.675	.992
149	4.818	4.800	100.374	100.719	4.784	4.728	1.012
150	4.752	4.801	98.984	96.788	4.910	4.752	1.033
151	4.444	4.785	92.870	96.402	4.610	4.731	.974
152	4.475	4.761	93.982	96.989	4.614	4.764	.968
153	4.844	4.763	101.713	98.413	4.923	4.869	1.011
154	4.950	4.784	103.472	97.775	5.063	4.978	1.017
155	4.950	4.800	103.124	97.199	5.093	4.972	1.024
156	4.950	4.811	102.892	99.627	4.969	4.847	1.025
157	4.558	4.838	94.214	101.702	4.482	4.690	.956

Case number	PPINTKG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
158	4.752	4.878	97.418	105.417	4.508	4.644	.971
159	4.976	4.898	101.591	105.514	4.716	4.706	1.002
160	5.078	4.894	103.742	103.454	4.908	4.834	1.015
161	4.924	4.874	101.016	100.719	4.888	4.941	.989
162	4.906	4.846	101.249	96.788	5.069	5.026	1.009
163	4.950	4.829	102.498	96.402	5.135	5.061	1.015
164	4.919	4.824	101.972	96.989	5.072	5.046	1.005
165	4.893	4.811	101.696	98.413	4.972	4.973	1.000
166	4.805	4.796	100.191	97.775	4.914	4.873	1.008
167	4.607	4.783	96.309	97.199	4.740	4.745	.999
168	4.607	4.767	96.642	99.627	4.624	4.619	1.001
169	4.514	4.736	95.324	101.702	4.439	4.518	.982
170	4.668	4.698	99.372	105.417	4.428	4.506	.983
171	4.752	4.658	102.011	105.514	4.504	4.564	.987
172	4.928	4.611	106.874	103.454	4.763	4.669	1.020
173	4.778	4.569	104.591	100.719	4.744	4.723	1.005
174	4.655	4.544	102.449	96.788	4.810	4.730	1.017
175	4.457	4.537	98.242	96.402	4.624	4.661	.992
176	4.501	4.535	99.244	96.989	4.641	4.571	1.015
177	4.360	4.523	96.413	98.413	4.431	4.456	.994
178	4.202	4.484	93.716	97.775	4.298	4.385	.980
179	4.193	4.431	94.641	97.199	4.314	4.367	.988
180	4.426	4.386	100.928	99.627	4.443	4.393	1.011
181	4.528	4.351	104.066	101.702	4.452	4.398	1.012
182	4.620	4.320	106.952	105.417	4.383	4.347	1.008
183	4.492	4.294	104.619	105.514	4.258	4.262	.999
184	4.255	4.287	99.250	103.454	4.113	4.205	.978
185	4.176	4.293	97.269	100.719	4.146	4.200	.987
186	4.180	4.297	97.285	96.788	4.319	4.233	1.020
187	4.092	4.290	95.379	96.402	4.245	4.245	1.000
188	4.123	4.270	96.547	96.989	4.251	4.256	.999
189	4.124	4.252	96.971	98.413	4.190	4.271	.981
190	4.268	4.242	100.615	97.775	4.365	4.330	1.008
191	4.268	4.234	100.803	97.199	4.391	4.366	1.006
192	4.444	4.225	105.173	99.627	4.461	4.354	1.025
193	4.356	4.209	103.495	101.702	4.283	4.276	1.002
194	4.312	4.193	102.836	105.417	4.090	4.174	.980
195	4.374	4.190	104.392	105.514	4.145	4.106	1.009
196	4.119	4.189	98.332	103.454	3.982	4.075	.977
197	4.122	4.187	98.455	100.719	4.093	4.078	1.004

Case number	PPINTKG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
198	4.028	4.183	96.290	96.788	4.161	4.083	1.019
199	3.847	4.179	92.058	96.402	3.991	4.095	.975
200	3.988	4.189	95.206	96.989	4.112	4.141	.993
201	4.175	4.210	99.163	98.413	4.242	4.215	1.006
202	4.206	4.249	99.001	97.775	4.302	4.295	1.002
203	4.268	4.305	99.151	97.199	4.391	4.339	1.012
204	4.356	4.358	99.966	99.627	4.372	4.342	1.007
205	4.356	4.416	98.642	101.702	4.283	4.334	.988
206	4.545	4.474	101.581	105.417	4.311	4.366	.987
207	4.645	4.533	102.462	105.514	4.402	4.458	.988
208	4.782	4.601	103.926	103.454	4.622	4.587	1.008
209	4.796	4.671	102.686	100.719	4.762	4.702	1.013
210	4.624	4.734	97.694	96.788	4.778	4.761	1.003
211	4.653	4.787	97.216	96.402	4.827	4.813	1.003
212	4.576	4.840	94.538	96.989	4.718	4.876	.968
213	5.003	4.890	102.301	98.413	5.083	5.005	1.016
214	5.016	4.920	101.950	97.775	5.130	5.094	1.007
215	5.122	4.930	103.890	97.199	5.269	5.123	1.029
216	5.015	4.940	101.502	99.627	5.033	5.055	.996
217	4.972	4.959	100.272	101.702	4.889	4.978	.982
218	5.217	4.986	104.637	105.417	4.949	4.918	1.006
219	5.170	5.004	103.309	105.514	4.900	4.878	1.004
220	4.972	5.009	99.254	103.454	4.806	4.864	.988
221	4.840	5.014	96.527	100.719	4.805	4.886	.983
222	4.836	5.019	96.347	96.788	4.996	4.965	1.006
223	4.875	5.019	97.134	96.402	5.057	5.044	1.003
224	5.012	5.004	100.150	96.989	5.167	5.115	1.010
225	5.012	4.981	100.611	98.413	5.092	5.159	.987
226	5.126	4.965	103.246	97.775	5.243	5.197	1.009
227	5.126	4.961	103.316	97.199	5.274	5.163	1.021
228	5.126	4.963	103.285	99.627	5.145	5.056	1.018
229	4.862	4.968	97.872	101.702	4.781	4.883	.979
230	4.968	4.975	99.852	105.417	4.713	4.755	.991
231	4.869	4.990	97.579	105.514	4.615	4.700	.982
232	4.881	5.016	97.319	103.454	4.718	4.750	.993
233	4.850	5.052	95.999	100.719	4.815	4.856	.992
234	4.861	5.099	95.340	96.788	5.022	4.998	1.005
235	4.975	.	.	96.402	5.161	5.133	1.005
236	5.086	.	.	96.989	5.243	5.268	.995
237	5.284	.	.	98.413	5.369	5.418	.991
238	5.478	.	.	97.775	5.603	5.572	1.005
239	5.636	.	.	97.199	5.799	5.722	1.013
240	5.742	.	.	99.627	5.763	5.796	.994

ANEXO 12. SERIE DE PRECIOS INTERNACIONALES DE CARNE: Cálculo de la
tendencia y análisis de residuos.

REGRESSION /VARIABLES : STC#1 \$CASENUM /DEPENDENT STC#1 /METHOD ENTER
/RESIDUALS
DEFAULTS /SAVE ADJPRED (fit#2) RESID (err#2).

* * * * M U L T I P L E R E G R E S S I O N * * * * *

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for
PPINTKG fro
Beginning Block Number 1. Method: Enter

* * * * M U L T I P L E R E G R E S S I O N * * * * *

Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for
PPINTKG fro

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .80149
R Square .64239
Adjusted R Square .64089
Standard Error .76756

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	251.87851	251.87851
Residual	238	140.21887	.58915

F = 427.52509 Signif F = .0000

Variables in the Equation

Variable	B	SE B	Beta	T	Sig	T
\$CASENUM	.01479	7.15142E-04	.80149	20.677	.0000	
(Constant)	2.11579	.09940		21.285	.0000	

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	2.1306	5.6646	3.8976	1.0266	240
*ZPRED	-1.7213	1.7213	.0000	1.0000	240
*SEPRE	.0495	.0988	.0684	.0153	240
*ADJPRED	2.1356	5.6624	3.8992	1.0268	240
*RESID	-.9947	2.2890	-.0000	.7660	240
*ZRESID	-1.2959	2.9822	-.0000	.9979	240
*SRESID	-1.3002	2.9884	-.0011	1.0009	240
*DRESID	-1.0012	2.2986	-.0017	.7705	240
*SDRESID	-1.3021	3.0397	.0016	1.0069	240
*MAHAL	.0001	2.9627	.9958	.8925	240
*COOK D	.0000	.0187	.0030	.0036	240
*LEVER	.0000	.0124	.0042	.0037	240

Total Cases = 240
 Durbin-Watson Test = .01819

ANEXO 13. SERIE DE PRECIOS INTERNACIONALES: Estimación de duración y amplitud del ciclo con variable ficticia DUMMY y análisis de residuos.

REGRESSION /VARIABLES STC#1 DUMMY \$CASENUM /DEPENDENT STC#1 /METHOD
 STEPWISE
 /RESIDUALS DEFAULTS /SAVE RESID (ERR#3) ADJPRED (FIT#3).

* * * * * M U L T I P L E R E G R E S S I O N * * * * *

Listwise Deletion of Missing Data
 Equation Number 1 Dependent Variable.. STC#1
 Beginning Block Number 1. Method: Stepwise

* * * * * M U L T I P L E R E G R E S S I O N * * * * *

Equation Number 1 Dependent Variable.. STC#1

Variable(s) Entered on Step Number
 1.. \$CASENUM

Multiple R .80149
 R Square .64239
 Adjusted R Square .64089
 Standard Error .76756

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	251.87851	251.87851
Residual	238	140.21887	.58915

F = 427.52509 Signif F = .0000

Variables in the Equation

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	.01479	7.15142E-04	.80149	20.677	.0000
(Constant)	2.11579	.09940		21.285	.0000

Variables not in the Equation

Variable	Beta In	Partial	Min Toler	T	Sig T
DUMMY	.45080	.74889	.98694	17.397	.0000

Variable(s)	Entered	on Step	Number
2..	DUMMY		
Multiple R		.91812	
R Square		.84295	
Adjusted R Square		.84163	
Standard Error		.50973	

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	330.51930	165.25965
Residual	237	61.57808	.25982

F = 636.04674 Signif F = .0000

Variables in the Equation

Variable	B	SE B	Beta	T	Sig	T
\$CASENUM	.01384	4.78048E-04	.74997	28.943	.0000	
DUMMY	1.19861	.06890	.45080	17.397	.0000	
(Constant)	1.79583	.06853		26.206	.0000	

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	1.8097	5.4020	3.8976	1.1760	240
*ZPRED	-1.7755	1.2792	.0000	1.0000	240
*SEPPRED	.0433	.0728	.0566	.0064	240
*ADJPRED	1.8093	5.4109	3.8977	1.1759	240
*RESID	-1.3615	1.5235	-.0000	.5076	240
*ZRESID	-2.6711	2.9888	-.0000	.9958	240
*SRESID	-2.6883	3.0063	-.0001	1.0019	240
*DRESID	-1.3791	1.5414	-.0001	.5138	240
*SDRESID	-2.7245	3.0589	.0005	1.0090	240
*MAHAL	.7256	3.8756	1.9917	.6734	240
*COOK D	.0000	.0354	.0041	.0074	240
*LEVER	.0030	.0162	.0083	.0028	240

Total Cases = 240
 Durbin-Watson Test = .08667

ANEXO 14. PRECIOS INTERNACIONALES
períodos 1970-1979 y 1980-1989.

DE CARNE: Análisis de varianza para los

ANEXO 15. SERIE DE PRECIOS FOB DE CARNE: Componente irregular, índices
de estacionalidad. Serie con componente cíclico y
estacionalidad.

SPSS/PC+ The Statistical Package for IBM PC

DESCRIPTIVES /VARIABLES FOBKG /STATISTICS ALL.

Number of Valid Observations (Listwise) = 240.00

Variable FOBKG

Mean	3.324	S.E. Mean	.071
Std Dev	1.103	Variance	1.217
Kurtosis	-1.323	S.E. Kurt	.313
Skewness	-.300	S.E. Skew	.157
Range	4.240	Minimum	1.29
Maximum	5.53	Sum	797.641

Valid Observations - 240 Missing Observations - 0

SEASON /VARIABLES FOBKG /MODEL MULTIPLICATIVE /MA CENTERED /PERIOD 12.

MODEL: MOD_1.

Results of SEASON procedure for variable FOBKG.

Multiplicative Model. Centered MA method. Period = 12.

Case number	FOBKG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
1	1.430	.	.	100.625	1.421	1.499	.948
2	1.540	.	.	102.401	1.504	1.494	1.007
3	1.570	.	.	100.844	1.557	1.484	1.049
4	1.470	.	.	100.525	1.462	1.484	.985
5	1.320	.	.	98.880	1.335	1.483	.900
6	1.650	.	.	98.211	1.680	1.547	1.086
7	1.430	1.582	90.387	95.260	1.501	1.598	.939
8	1.720	1.593	108.006	98.550	1.745	1.649	1.059
9	1.710	1.601	106.819	101.034	1.693	1.652	1.025
10	1.570	1.612	97.415	102.276	1.535	1.660	.925
11	1.710	1.629	104.988	99.004	1.727	1.668	1.036
12	1.790	1.637	109.341	102.389	1.748	1.664	1.051
13	1.580	1.644	96.122	100.625	1.570	1.644	.955
14	1.640	1.643	99.848	102.401	1.602	1.625	.985
15	1.670	1.627	102.638	100.844	1.656	1.619	1.023
16	1.630	1.635	99.720	100.525	1.621	1.620	1.001
17	1.570	1.645	95.441	98.880	1.588	1.627	.976
18	1.600	1.641	97.511	98.211	1.629	1.625	1.002
19	1.640	1.638	100.153	95.260	1.722	1.620	1.063
20	1.480	1.638	90.382	98.550	1.502	1.616	.929
21	1.580	1.636	96.587	101.034	1.564	1.640	.954
22	1.880	1.626	115.603	102.276	1.838	1.687	1.089
23	1.650	1.622	101.721	99.004	1.667	1.688	.988
24	1.750	1.626	107.637	102.389	1.709	1.667	1.025
25	1.540	1.638	94.022	100.625	1.530	1.615	.948
26	1.680	1.663	101.053	102.401	1.641	1.591	1.031
27	1.590	1.694	93.851	100.844	1.577	1.569	1.005
28	1.480	1.721	85.984	100.525	1.472	1.573	.936
29	1.620	1.716	94.415	98.880	1.638	1.640	.999
30	1.640	1.708	96.023	98.211	1.670	1.730	.965
31	1.890	1.731	109.196	95.260	1.984	1.845	1.075
32	1.820	1.752	103.901	98.550	1.847	1.911	.966
33	2.000	1.777	112.570	101.034	1.980	1.894	1.045
34	2.110	1.815	116.253	102.276	2.063	1.831	1.127
35	1.290	1.847	69.840	99.004	1.303	1.741	.748
36	1.920	1.877	102.309	102.389	1.875	1.763	1.064
37	1.920	1.892	101.475	100.625	1.908	1.816	1.051

Case number	F08KG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend- cycle	Irregular component
38	1.800	1.906	94.447	102.401	1.758	1.887	.932
39	2.070	1.925	107.532	100.844	2.053	1.930	1.063
40	1.920	1.949	98.525	100.525	1.910	1.955	.977
41	1.950	2.041	95.530	98.880	1.972	1.986	.993
42	2.020	2.167	93.231	98.211	2.057	2.018	1.019
43	1.880	2.272	82.759	95.260	1.974	2.054	.961
44	2.160	2.378	90.820	98.550	2.192	2.142	1.023
45	2.120	2.457	86.281	101.034	2.098	2.305	.910
46	2.560	2.520	101.571	102.276	2.503	2.574	.972
47	3.060	2.583	118.490	99.004	3.091	2.859	1.081
48	3.160	2.628	120.228	102.389	3.086	3.035	1.017
49	3.200	2.667	120.000	100.625	3.180	3.053	1.042
50	3.080	2.688	114.605	102.401	3.008	2.956	1.018
51	2.680	2.696	99.413	100.844	2.658	2.817	.943
52	2.830	2.690	105.221	100.525	2.815	2.719	1.035
53	2.530	2.642	95.758	98.880	2.559	2.614	.979
54	2.540	2.563	99.090	98.211	2.586	2.530	1.022
55	2.280	2.470	92.295	95.260	2.393	2.411	.993
56	2.260	2.374	95.181	98.550	2.293	2.323	.987
57	2.220	2.298	96.599	101.034	2.197	2.253	.975
58	2.310	2.237	103.248	102.276	2.259	2.217	1.019
59	2.170	2.191	99.038	99.004	2.192	2.163	1.013
60	2.160	2.161	99.950	102.389	2.110	2.094	1.007
61	1.968	2.130	92.402	100.625	1.956	2.012	.972
62	2.010	2.103	95.589	102.401	1.963	1.982	.990
63	1.920	2.093	91.727	100.844	1.904	1.997	.953
64	2.130	2.097	101.598	100.525	2.119	2.076	1.021
65	2.120	2.104	100.780	98.880	2.144	2.116	1.013
66	2.230	2.120	105.176	98.211	2.271	2.129	1.066
67	1.840	2.151	85.535	95.260	1.932	2.091	.924
68	2.050	2.190	93.625	98.550	2.080	2.121	.981
69	2.200	2.241	98.178	101.034	2.177	2.178	1.000
70	2.410	2.291	105.202	102.276	2.356	2.273	1.036
71	2.240	2.328	96.223	99.004	2.263	2.323	.974
72	2.490	2.367	105.193	102.389	2.432	2.374	1.024
73	2.380	2.400	99.149	100.625	2.365	2.418	.978
74	2.520	2.430	103.721	102.401	2.461	2.486	.990
75	2.640	2.465	107.081	100.844	2.618	2.544	1.029
76	2.610	2.486	104.995	100.525	2.596	2.601	.998
77	2.530	2.484	101.862	98.880	2.559	2.591	.987

Case number	FOBKG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
78	2.760	2.472	111.647	98.211	2.810	2.566	1.095
79	2.110	2.468	85.483	95.260	2.215	2.496	.888
80	2.480	2.469	100.439	98.550	2.516	2.490	1.011
81	2.630	2.459	106.954	101.034	2.603	2.449	1.063
82	2.470	2.445	101.019	102.276	2.415	2.393	1.009
83	2.130	2.436	87.441	99.004	2.151	2.318	.928
84	2.320	2.421	95.848	102.389	2.266	2.312	.980
85	2.460	2.423	101.544	100.625	2.445	2.362	1.035
86	2.460	2.436	100.971	102.401	2.402	2.409	.997
87	2.456	2.428	101.136	100.844	2.435	2.438	.999
88	2.460	2.421	101.614	100.525	2.447	2.455	.997
89	2.460	2.434	101.058	98.880	2.488	2.487	1.000
90	2.460	2.454	100.251	98.211	2.505	2.511	.998
91	2.460	2.471	99.541	95.260	2.582	2.519	1.025
92	2.460	2.510	98.005	98.550	2.496	2.493	1.001
93	2.460	2.571	95.695	101.034	2.435	2.464	.988
94	2.460	2.639	93.211	102.276	2.405	2.439	.986
95	2.460	2.710	90.761	99.004	2.485	2.470	1.006
96	2.460	2.791	88.146	102.389	2.403	2.563	.937
97	2.740	2.853	96.028	100.625	2.723	2.752	.990
98	3.110	2.913	106.781	102.401	3.037	2.968	1.023
99	3.260	2.993	108.924	100.844	3.233	3.159	1.023
100	3.300	3.099	106.495	100.525	3.283	3.297	.996
101	3.330	3.224	103.283	98.880	3.368	3.346	1.006
102	3.520	3.328	105.759	98.211	3.584	3.372	1.063
103	2.900	3.438	84.343	95.260	3.044	3.336	.913
104	3.440	3.546	97.015	98.550	3.491	3.428	1.018
105	3.410	3.612	94.405	101.034	3.375	3.554	.950
106	4.050	3.678	110.104	102.276	3.960	3.713	1.067
107	3.880	3.755	103.340	99.004	3.919	3.804	1.030
108	3.540	3.796	93.250	102.389	3.457	3.861	.895
109	4.300	3.839	112.016	100.625	4.273	3.946	1.083
110	4.130	3.869	106.741	102.401	4.033	4.000	1.008
111	3.830	3.893	98.373	100.844	3.798	4.057	.936
112	4.320	3.924	110.087	100.525	4.297	4.075	1.055
113	4.140	3.935	105.221	98.880	4.187	4.047	1.035
114	3.710	4.001	92.721	98.211	3.778	3.914	.965
115	3.730	4.056	91.966	95.260	3.916	3.813	1.027
116	3.340	4.065	82.173	98.550	3.389	3.766	.900
117	4.090	4.094	99.898	101.034	4.048	3.887	1.041

Case number	FOBKG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
118	4.110	4.083	100.663	102.276	4.019	4.066	.988
119	4.070	4.032	100.940	99.004	4.111	4.251	.967
120	4.950	4.005	123.583	102.389	4.834	4.381	1.104
121	4.200	4.023	104.391	100.625	4.174	4.352	.959
122	4.440	4.084	108.724	102.401	4.336	4.246	1.021
123	4.230	4.138	102.225	100.844	4.195	4.036	1.039
124	3.650	4.160	87.740	100.525	3.631	3.841	.945
125	3.590	4.188	85.731	98.880	3.631	3.798	.956
126	3.620	4.189	86.413	98.211	3.686	3.912	.942
127	4.250	4.170	101.908	95.260	4.461	4.163	1.072
128	4.270	4.155	102.757	98.550	4.333	4.290	1.010
129	4.460	4.098	108.825	101.034	4.414	4.371	1.010
130	4.270	4.074	104.817	102.276	4.175	4.367	.956
131	4.570	4.108	111.260	99.004	4.616	4.396	1.050
132	4.490	4.096	109.612	102.389	4.385	4.323	1.014
133	4.210	4.052	103.908	100.625	4.184	4.121	1.015
134	4.070	4.038	100.795	102.401	3.975	3.902	1.019
135	3.230	4.032	80.107	100.844	3.203	3.762	.851
136	4.060	4.020	101.005	100.525	4.039	3.730	1.083
137	3.990	3.993	99.937	98.880	4.035	3.715	1.086
138	2.950	3.934	74.984	98.211	3.004	3.734	.804
139	3.850	3.892	98.929	95.260	4.042	3.909	1.034
140	4.340	3.888	111.628	98.550	4.404	4.089	1.077
141	4.250	3.925	108.280	101.034	4.207	4.188	1.004
142	4.180	3.959	105.578	102.276	4.087	4.083	1.001
143	4.010	3.946	101.615	99.004	4.050	3.963	1.022
144	3.650	3.988	91.517	102.389	3.565	3.884	.918
145	4.030	4.060	99.251	100.625	4.005	3.924	1.021
146	4.160	4.073	102.128	102.401	4.062	3.979	1.021
147	4.030	4.069	99.048	100.844	3.996	3.993	1.001
148	4.080	4.065	100.379	100.525	4.059	4.000	1.015
149	3.660	4.056	90.231	98.880	3.701	4.045	.915
150	4.290	4.066	105.503	98.211	4.368	4.199	1.040
151	4.240	4.077	103.996	95.260	4.451	4.290	1.037
152	4.260	4.070	104.679	98.550	4.323	4.290	1.008
153	4.220	4.052	104.144	101.034	4.177	4.176	1.000
154	4.110	4.023	102.165	102.276	4.019	4.055	.991
155	3.880	4.027	96.358	99.004	3.919	3.969	.987
156	4.020	4.038	99.546	102.389	3.926	3.936	.998
157	3.920	4.031	97.250	100.625	3.896	3.900	.999

Case number	F08KG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
158	4.090	4.032	101.436	102.401	3.994	3.857	1.036
159	3.680	4.036	91.183	100.844	3.649	3.822	.955
160	3.730	4.032	92.508	100.525	3.711	3.880	.956
161	4.100	4.027	101.821	98.880	4.146	4.039	1.027
162	4.130	4.027	102.566	98.211	4.205	4.206	1.000
163	4.220	4.048	104.240	95.260	4.430	4.312	1.027
164	4.310	4.087	105.454	98.550	4.373	4.279	1.022
165	4.260	4.153	102.589	101.034	4.216	4.170	1.011
166	3.980	4.245	93.757	102.276	3.891	4.027	.966
167	3.880	4.311	89.997	99.004	3.919	4.002	.979
168	4.020	4.350	92.405	102.389	3.926	4.081	.962
169	4.440	4.375	101.476	100.625	4.412	4.289	1.029
170	4.500	4.387	102.574	102.401	4.394	4.478	.981
171	4.840	4.390	110.240	100.844	4.799	4.646	1.033
172	4.790	4.396	108.956	100.525	4.765	4.697	1.014
173	4.630	4.414	104.899	98.880	4.682	4.695	.997
174	4.540	4.439	102.281	98.211	4.623	4.636	.997
175	4.410	4.450	99.110	95.260	4.629	4.550	1.017
176	4.400	4.448	98.932	98.550	4.465	4.414	1.011
177	4.250	4.432	95.901	101.034	4.207	4.272	.985
178	4.130	4.390	94.077	102.276	4.038	4.180	.966
179	4.150	4.344	95.540	99.004	4.192	4.189	1.001
180	4.350	4.297	101.241	102.389	4.248	4.252	.999
181	4.370	4.250	102.834	100.625	4.343	4.328	1.004
182	4.520	4.210	107.353	102.401	4.414	4.350	1.015
183	4.440	4.183	106.157	100.844	4.403	4.320	1.019
184	4.190	4.173	100.419	100.525	4.168	4.228	.986
185	4.120	4.168	98.840	98.880	4.167	4.146	1.005
186	3.920	4.168	94.042	98.211	3.991	4.077	.979
187	3.900	4.163	93.684	95.260	4.094	4.051	1.011
188	3.970	4.136	95.990	98.550	4.028	4.027	1.000
189	4.010	4.107	97.641	101.034	3.969	4.025	.986
190	4.130	4.083	101.143	102.276	4.038	4.068	.993
191	4.050	4.063	99.682	99.004	4.091	4.125	.992
192	4.450	4.050	109.877	102.389	4.346	4.166	1.043
193	4.140	4.034	102.623	100.625	4.114	4.140	.994
194	4.100	4.015	102.128	102.401	4.004	4.081	.981
195	4.165	4.004	104.013	100.844	4.130	4.026	1.026
196	3.900	3.997	97.585	100.525	3.880	3.968	.978
197	3.920	3.991	98.229	98.880	3.964	3.928	1.009

Case number	FOBKG	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
198	3.810	3.978	95.783	98.211	3.879	3.877	1.001
199	3.630	3.966	91.526	95.260	3.811	3.859	.988
200	3.770	3.967	95.036	98.550	3.825	3.858	.992
201	3.963	3.978	99.635	101.034	3.922	3.902	1.005
202	3.990	4.017	99.340	102.276	3.901	3.955	.986
203	4.050	4.072	99.462	99.004	4.091	4.025	1.016
204	4.140	4.124	100.378	102.389	4.043	4.055	.997
205	4.170	4.183	99.685	100.625	4.144	4.110	1.008
206	4.090	4.242	96.428	102.401	3.994	4.183	.955
207	4.430	4.301	103.010	100.844	4.393	4.337	1.013
208	4.570	4.369	104.607	100.525	4.546	4.464	1.018
209	4.580	4.437	103.211	98.880	4.632	4.558	1.016
210	4.410	4.500	98.000	98.211	4.490	4.559	.985
211	4.440	4.523	98.158	95.260	4.661	4.576	1.019
212	4.360	4.526	96.336	98.550	4.424	4.584	.965
213	4.790	4.519	106.003	101.034	4.741	4.673	1.015
214	4.800	4.485	107.013	102.276	4.693	4.728	.993
215	4.890	4.445	110.011	99.004	4.939	4.707	1.049
216	4.800	4.411	108.824	102.389	4.688	4.542	1.032
217	4.070	4.380	92.915	100.625	4.045	4.313	.938
218	4.250	4.352	97.647	102.401	4.150	4.160	.998
219	4.100	4.316	95.001	100.844	4.066	4.092	.994
220	4.100	4.260	96.255	100.525	4.079	4.104	.994
221	4.080	4.195	97.270	98.880	4.126	4.129	.999
222	4.089	4.129	99.041	98.211	4.164	4.160	1.001
223	4.030	4.122	97.778	95.260	4.231	4.177	1.013
224	4.100	4.167	98.392	98.550	4.160	4.149	1.003
225	4.170	4.212	99.012	101.034	4.127	4.110	1.004
226	4.070	4.259	95.570	102.276	3.979	4.057	.981
227	4.060	4.306	94.292	99.004	4.101	4.102	1.000
228	4.050	4.352	93.051	102.389	3.955	4.215	.938
229	4.650	4.407	105.522	100.625	4.621	4.421	1.045
230	4.760	4.470	106.488	102.401	4.648	4.559	1.020
231	4.660	4.540	102.634	100.844	4.621	4.641	.996
232	4.670	4.628	100.900	100.525	4.646	4.661	.997
233	4.640	4.735	97.985	98.880	4.693	4.719	.995
234	4.650	4.854	95.794	98.211	4.735	4.800	.986
235	4.770	.	.	95.260	5.007	4.902	1.022
236	4.880	.	.	98.550	4.952	4.979	.994
237	5.080	.	.	101.034	5.028	5.087	.988
238	5.270	.	.	102.276	5.153	5.204	.990
239	5.430	.	.	99.004	5.485	5.346	1.026
240	5.530	.	.	102.389	5.401	5.417	.997

ANEXO 16. SERIE DE PRECIOS FOB DE CARNE: Cálculo de la tendencia
Análisis de residuos.

REGRESSION /VARIABLES STC#1 \$CASENUM /DEPENDENT STC#1 /METHOD ENTER
/RESIDUALS
DEFAULTS /SAVE RESID (ERR#2) PRED (FIT#2).

* * * * M U L T I P L E R E G R E S S I O N * * * *

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for FOBKG
from

Beginning Block Number 1. Method: Enter

Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for FOBKG
from

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .92152
R Square .84920
Adjusted R Square .84857
Standard Error .42249

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	239.23317	239.23317
Residual	238	42.48210	.17850

F = 1340.27038 Signif F = .0000

Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for FOBKG
from

Variables in the Equation

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	.01441	3.93633E-04	.92152	36.610	.0000
(Constant)	1.58735	.05471		29.012	.0000

Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for FOBKG
from

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	1.6018	5.0459	3.3238	1.0005	240
*RESID	-.7875	1.0642	.0000	.4216	240
*ZPRED	-1.7213	1.7213	.0000	1.0000	240
*ZRESID	-1.8639	2.5189	-.0000	.9979	240

Total Cases = 240
Durbin-Watson Test = .04546

ANEXO 17. SERIE DE PRECIOS FOB DE CARNE: Estimacio n de la duracio n y
 amplitud del ciclo por variable ficticia DUMMY. Analisis de
 residuos.

REGRESSION /VARIABLES STC#1 \$CASENUM DUMMY /DEPENDENT STC#1 /METHOD
 STEPWISE
 /RESIDUALS DEFAULTS /SAVE RESID (err#3) ADJPRED (fit#3).

* * * * M U L T I P L E R E G R E S S I O N * * * * *

Listwise Deletion of Missing Data
 Equation Number 1 Dependent Variable.. STC#1
 Beginning Block Number 1. Method: Stepwise

* * * * M U L T I P L E R E G R E S S I O N * * * * *

Equation Number 1 Dependent Variable.. STC#1

Variable(s) Entered on Step Number
 1.. \$CASENUM

Multiple R .92152
 R Square .84920
 Adjusted R Square .84857
 Standard Error .42249

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	239.23317	239.23317
Residual	238	42.48210	.17850

F = 1340.27038 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	.01441	3.93633E-04	.92152	36.610	.0000
(Constant)	1.58735	.05471		29.012	.0000

----- Variables not in the Equation -----

Variable	Beta In	Partial	Min Toler	T	Sig T
DUMMY	.32134	.79543	.92398	20.205	.0000

Variable(s) Entered on Step Number
2.. DUMMY

Multiple R .97191
R Square .94461
Adjusted R Square .94415
Standard Error .25659

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	266.11176	133.05588
Residual	237	15.60350	.06584

F = 2020.97223 Signif F = .0000

Variables in the Equation

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	.01303	2.48705E-04	.83292	52.372	.0000
DUMMY	.72077	.03567	.32134	20.205	.0000
(Constant)	1.48702	.03360		44.259	.0000

End Block Number 1 POUT = .100 Limits reached.

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	1.5000	5.3338	3.3238	1.0552	240
*ZPRED	-1.7284	1.9049	-.0000	1.0000	240
*SEPPRED	.0210	.0385	.0284	.0041	240
*ADJPPRED	1.5001	5.3322	3.3238	1.0552	240
*RESID	-.4567	.9277	.0000	.2555	240
*ZRESID	-1.7799	3.6156	.0000	.9958	240
*SRESID	-1.7902	3.6332	.0001	1.0019	240
*DRESID	-.4620	.9368	.0001	.2586	240
*SDRESID	-1.7986	3.7309	.0023	1.0084	240
*MAHAL	.6007	4.3913	1.9917	.8739	240
*COOK D	.0000	.0429	.0041	.0063	240
*LEVER	.0025	.0184	.0083	.0037	240

Total Cases = 240

Durbin-Watson Test = .18877

ANEXO 18. SERIE DE PRECIOS FOB DE CARNE: Análisis de varianza para los
períodos 1970-1979 y 1980-1989.

ANEXO 19. SERIE DE PRECIOS MAYORISTA: Componente irregular, índices de
 precios y serie con componente cíclico y estacional.

Number of Valid Observations (Listwise) = 132.00
 Variable PPMAYDEF

Mean	2.735	S.E. Mean	.019
Std Dev	.221	Variance	.049
Kurtosis	.696	S.E. Kurt	.419
Skewness	.081	S.E. Skew	.211
Range	1.082	Minimum	2.13
Maximum	3.22	Sum	360.977

Valid Observations	-	132	Missing Observations	-	0
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SEASON /VARIABLES PPMAYDEF /MODEL MULTIPLICATIVE /MA CENTERED /PERIOD 12.

MODEL: MOD_2.

Results of SEASON procedure for variable PPMAYDEF.
 Multiplicative Model. Centered MA method. Period = 12.

Case number	PPMAYDEF	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
1	2.838	.	.	101.466	2.797	2.768	1.010
2	2.838	.	.	101.716	2.790	2.791	.999
3	2.838	.	.	101.808	2.787	2.838	.982
4	2.929	.	.	99.768	2.936	2.886	1.017
5	2.929	.	.	99.804	2.935	2.916	1.007
6	2.929	.	.	99.821	2.934	2.926	1.003
7	2.835	2.828	100.230	97.446	2.909	2.918	.997
8	2.835	2.816	100.671	97.437	2.909	2.890	1.007
9	2.835	2.804	101.112	97.407	2.910	2.843	1.024
10	2.737	2.780	98.450	101.006	2.709	2.775	.976
11	2.737	2.744	99.730	101.082	2.707	2.723	.994
12	2.737	2.708	101.044	101.239	2.703	2.686	1.006
13	2.689	2.678	100.414	101.466	2.650	2.666	.994
14	2.689	2.653	101.352	101.716	2.644	2.636	1.003
15	2.691	2.628	102.381	101.808	2.643	2.598	1.017
16	2.501	2.620	95.443	99.768	2.506	2.552	.982
17	2.501	2.628	95.156	99.804	2.506	2.532	.990
18	2.501	2.636	94.870	99.821	2.505	2.538	.987
19	2.537	2.658	95.458	97.446	2.604	2.571	1.013
20	2.537	2.694	94.166	97.437	2.604	2.615	.996
21	2.537	2.731	92.911	97.407	2.605	2.670	.975
22	2.831	2.777	101.954	101.006	2.803	2.736	1.025
23	2.831	2.834	99.927	101.082	2.801	2.810	.997
24	2.831	2.890	97.980	101.239	2.797	2.893	.967
25	3.127	2.946	106.152	101.466	3.082	2.984	1.033
26	3.127	3.001	104.206	101.716	3.074	3.056	1.006
27	3.127	3.056	102.329	101.808	3.071	3.110	.987
28	3.177	3.099	102.499	99.768	3.184	3.146	1.012
29	3.177	3.131	101.452	99.804	3.183	3.181	1.000
30	3.177	3.163	100.425	99.821	3.182	3.216	.990
31	3.198	3.177	100.641	97.446	3.281	3.249	1.010
32	3.198	3.174	100.757	97.437	3.282	3.260	1.007
33	3.198	3.170	100.873	97.407	3.283	3.249	1.010
34	3.216	3.160	101.759	101.006	3.183	3.215	.990
35	3.216	3.144	102.289	101.082	3.181	3.176	1.002
36	3.216	3.127	102.824	101.239	3.176	3.131	1.014
37	3.083	3.103	99.345	101.466	3.038	3.082	.986

Case number	PPMAYDEF	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
38	3.083	3.071	100.372	101.716	3.031	3.043	.996
39	3.083	3.040	101.420	101.808	3.028	3.016	1.004
40	2.980	3.012	98.937	99.768	2.987	3.001	.995
41	2.980	2.989	99.712	99.804	2.986	2.980	1.002
42	2.980	2.965	100.499	99.821	2.985	2.954	1.011
43	2.817	2.941	95.776	97.446	2.891	2.922	.989
44	2.817	2.916	96.609	97.437	2.891	2.903	.996
45	2.817	2.890	97.455	97.407	2.892	2.896	.999
46	2.935	2.867	102.375	101.006	2.906	2.900	1.002
47	2.935	2.845	103.161	101.082	2.903	2.883	1.007
48	2.935	2.823	103.959	101.239	2.899	2.846	1.018
49	2.779	2.790	99.593	101.466	2.739	2.790	.982
50	2.779	2.746	101.182	101.716	2.732	2.751	.993
51	2.779	2.703	102.823	101.808	2.729	2.729	1.000
52	2.718	2.672	101.734	99.768	2.724	2.726	.999
53	2.718	2.654	102.409	99.804	2.723	2.683	1.015
54	2.718	2.636	103.093	99.821	2.723	2.599	1.048
55	2.291	2.628	87.185	97.446	2.351	2.475	.950
56	2.291	2.628	87.187	97.437	2.351	2.431	.967
57	2.291	2.627	87.188	97.407	2.352	2.466	.954
58	2.721	2.629	103.489	101.006	2.694	2.580	1.044
59	2.726	2.633	103.518	101.082	2.697	2.660	1.014
60	2.721	2.637	103.196	101.239	2.688	2.706	.993
61	2.778	2.659	104.478	101.466	2.738	2.720	1.007
62	2.778	2.700	102.886	101.716	2.731	2.732	1.000
63	2.778	2.741	101.341	101.808	2.729	2.744	.994
64	2.765	2.764	100.032	99.768	2.771	2.756	1.005
65	2.765	2.767	99.920	99.804	2.770	2.774	.999
66	2.758	2.770	99.564	99.821	2.763	2.797	.988
67	2.785	2.769	100.562	97.446	2.858	2.827	1.011
68	2.785	2.765	100.722	97.437	2.858	2.834	1.009
69	2.785	2.760	100.883	97.407	2.859	2.816	1.015
70	2.761	2.756	100.168	101.006	2.733	2.774	.985
71	2.761	2.752	100.331	101.082	2.731	2.740	.997
72	2.761	2.747	100.484	101.239	2.727	2.714	1.005
73	2.725	2.738	99.532	101.466	2.686	2.698	.996
74	2.725	2.724	100.064	101.716	2.679	2.690	.996
75	2.725	2.709	100.602	101.808	2.677	2.692	.994
76	2.711	2.692	100.710	99.768	2.717	2.704	1.005
77	2.711	2.672	101.465	99.804	2.716	2.708	1.003

Case number	PPMAYDEF	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
78	2.711	2.652	102.231	99.821	2.716	2.704	1.004
79	2.610	2.633	99.115	97.446	2.679	2.691	.995
80	2.610	2.617	99.739	97.437	2.679	2.663	1.006
81	2.610	2.600	100.370	97.407	2.680	2.618	1.024
82	2.520	2.584	97.547	101.006	2.495	2.556	.976
83	2.520	2.567	98.194	101.082	2.493	2.513	.992
84	2.520	2.550	98.850	101.239	2.489	2.491	.999
85	2.528	2.538	99.598	101.466	2.491	2.489	1.001
86	2.528	2.532	99.849	101.716	2.485	2.489	.998
87	2.528	2.525	100.102	101.808	2.483	2.494	.996
88	2.506	2.534	98.919	99.768	2.512	2.502	1.004
89	2.506	2.557	98.005	99.804	2.511	2.518	.997
90	2.506	2.581	97.109	99.821	2.511	2.541	.988
91	2.533	2.599	97.469	97.446	2.600	2.570	1.011
92	2.533	2.612	96.993	97.437	2.600	2.610	.996
93	2.533	2.625	96.521	97.407	2.601	2.659	.978
94	2.804	2.637	106.339	101.006	2.776	2.716	1.022
95	2.804	2.648	105.900	101.082	2.774	2.739	1.013
96	2.804	2.658	105.465	101.239	2.769	2.728	1.015
97	2.681	2.663	100.686	101.466	2.642	2.683	.985
98	2.681	2.660	100.778	101.716	2.636	2.652	.994
99	2.681	2.658	100.870	101.808	2.633	2.638	.998
100	2.638	2.647	99.649	99.768	2.644	2.640	1.001
101	2.638	2.627	100.389	99.804	2.643	2.634	1.003
102	2.638	2.608	101.140	99.821	2.642	2.618	1.009
103	2.504	2.600	96.324	97.446	2.570	2.594	.991
104	2.504	2.603	96.204	97.437	2.570	2.575	.998
105	2.504	2.606	96.083	97.407	2.571	2.561	1.004
106	2.570	2.604	98.681	101.006	2.544	2.552	.997
107	2.570	2.596	98.971	101.082	2.542	2.560	.993
108	2.570	2.589	99.262	101.239	2.538	2.587	.981
109	2.720	2.587	105.132	101.466	2.681	2.631	1.019
110	2.720	2.592	104.948	101.716	2.674	2.646	1.010
111	2.720	2.596	104.765	101.808	2.672	2.633	1.015
112	2.546	2.606	97.684	99.768	2.552	2.592	.985
113	2.546	2.622	97.105	99.804	2.551	2.573	.992
114	2.546	2.638	96.532	99.821	2.551	2.576	.990
115	2.559	2.649	96.606	97.446	2.626	2.601	1.010
116	2.559	2.655	96.370	97.437	2.626	2.629	.999
117	2.559	2.662	96.135	97.407	2.627	2.660	.987

Case number	PPMAYDEF	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend- cycle	Irregular component
118	2.756	2.670	103.219	101.006	2.729	2.694	1.013
119	2.756	2.682	102.779	101.082	2.727	2.719	1.003
120	2.756	2.693	102.343	101.239	2.723	2.735	.995
121	2.798	2.681	104.349	101.466	2.758	2.744	1.005
122	2.798	2.646	105.747	101.716	2.751	2.742	1.003
123	2.798	2.610	107.183	101.808	2.748	2.730	1.007
124	2.683	2.593	103.457	99.768	2.689	2.709	.993
125	2.683	2.595	103.393	99.804	2.688	2.640	1.018
126	2.683	2.597	103.330	99.821	2.688	2.522	1.066
127	2.133	.	.	97.446	2.189	2.356	.929
128	2.133	.	.	97.437	2.189	2.307	.949
129	2.133	.	.	97.407	2.190	2.376	.922
130	2.776	.	.	101.006	2.748	2.561	1.073
131	2.776	.	.	101.082	2.746	2.745	1.000
132	2.776	.	.	101.239	2.742	2.837	.966

ANEXO 20. SERIE DE PRECIOS MAYORISTA: Cálculo de la tendencia.

REGRESSION /VARIABLES STC#1 \$CASENUM /DEPENDENT STC#1 /METHOD ENTER
/RESIDUALS DEFAULTS /SAVE RESID (ERR#2) PRED (FIT#2).

* * * * MULTIPLE REGRESSION * * * *

Listwise Deletion of Missing Data

Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for
PPMAYDEF fr

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .52008
R Square .27049
Adjusted R Square .26487
Standard Error .16882

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	1.37374	1.37374
Residual	130	3.70504	.02850

F = 48.20087 Signif. F = .0000

Variables in the Equation						
Variable	B	SE B	Beta	T	Sig	T
\$CASENUM	-2.67728E-03	3.85627E-04	-.52008	-6.943	.0000	
(Constant)	2.91316	.02956		98.565	.0000	

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	2.5598	2.9105	2.7351	.1024	132
*RESID	-.3358	.4324	-.0000	.1682	132
*ZPRED	-1.7125	1.7125	-.0000	1.0000	132
*ZRESID	-1.9890	2.5616	-.0000	.9962	132

Total Cases = 132

Durbin-Watson Test = .08300

ANEXO 21. SERIE DE PRECIOS MAYORISTA: Estimación de la duración y
 amplitud del ciclo con variable ficticia. Análisis de
 residuos.

REGRESSION /VARIABLES \$CASENUM STC#1 DUMMY /DEPENDENT STC#1 /METHOD
 STEPWISE/RESIDUALS DEFAULTS /SAVE RESID (err#3) ADJPRED (fit#3).

***** MULTIPLE REGRESSION *****

Listwise Deletion of Missing Data
 Equation Number 1 Dependent Variable.. STC#1
 Beginning Block Number 1. Method: Stepwise

***** MULTIPLE REGRESSION *****

Equation Number 1 Dependent Variable.. STC#1

Variable(s) Entered on Step Number
 1.. \$CASENUM

Multiple R .52008
 R Square .27049
 Adjusted R Square .26487
 Standard Error .16882

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	1.37374	1.37374
Residual	130	3.70504	.02850

F = 48.20087 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	-2.67728E-03	3.85627E-04	-.52008	-6.943	.0000
(Constant)	2.91316	.02956		98.565	.0000

----- Variables not in the Equation -----

Variable	Beta In	Partial	Min Toler	T	Sig T
DUMMY	.38374	.43687	.94550	5.516	.0000

Variable(s) Entered on Step Number
 2.. DUMMY

Multiple R .64009
 R Square .40972
 Adjusted R Square .40056
 Standard Error .15245

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	2.08085	1.04043
Residual	129	2.99792	.02324

F = 44.76935 Signif F = .0000

----- Variables in the Equation -----						
Variable	B	SE B	Beta	T	Sig	T
\$CASENUM	-3.13845E-03	3.58119E-04	-.60967	-8.764	.0000	
DUMMY	.15070	.02732	.38374	5.516	.0000	
(Constant)	2.87191	.02772		103.615	.0000	

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	2.5110	2.9473	2.7351	.1260	132
*ZPRED	-1.7784	1.6833	.0000	1.0000	132
*SEPRE	.0184	.0278	.0228	.0031	132
*ADJPRED	2.5080	2.9490	2.7349	.1260	132
*RESID	-.3140	.3378	-.0000	.1513	132
*ZRESID	-2.0594	2.2156	-.0000	.9923	132
*SRESID	-2.0920	2.2455	.0008	1.0038	132
*DRESID	-.3240	.3469	.0002	.1548	132
*SDRESID	-2.1202	2.2818	.0001	1.0098	132
*MAHAL	.9061	3.3695	1.9848	.7838	132
*COOK D	.0000	.0465	.0078	.0105	132
*LEVER	.0069	.0257	.0152	.0060	132

Total Cases = 132
 Durbin-Watson Test = .13669

ANEXO 22. SERIE DE PRECIOMAYORISTA DE CARNE DE RES EN CANAL: Análisis
de varianza para los períodos 1979-1983 y 1984-1989.

ANEXO 23. SERIE DE PRECIOS DE LOMO DE RES AL CONSUMIDOR: Componente
 irregular, índice de estacionalidad y serie con componente
 cíclico y tendencia.

DESCRIPTIVES	/VARIABLES	LOMNACDE	/STATISTICS	ALL.
Number of Valid Observations			(Listwise) =	132.00
Variable	LOMNACDE			
Mean	4.550		S.E. Mean	.036
Std Dev	.416		Variance	.173
Kurtosis	.122		S.E. Kurt	.419
Skewness	-.688		S.E. Skew	.211
Range	1.907		Minimum	3.47
Maximum	5.38		Sum	600.542
Valid Observations	-	132	Missing Observations	-

				0

SEASON /VARIABLES LOMNACDE /MODEL MULTIPLICATIVE /MA CENTERED /PERIOD 12.

MODEL: MOD_3.

Results of SEASON procedure for variable LOMNACDE.
 Multiplicative Model. Centered MA method. Period = 12.

Case number	LOMNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
1	3.509	.	.	96.934	3.620	3.549	1.020
2	3.507	.	.	99.090	3.539	3.570	.991
3	3.534	.	.	99.519	3.552	3.613	.983
4	3.667	.	.	99.839	3.673	3.659	1.004
5	3.798	.	.	99.381	3.822	3.704	1.032
6	3.662	.	.	100.927	3.628	3.681	.986
7	3.751	3.705	101.240	101.011	3.713	3.647	1.018
8	3.468	3.738	92.779	99.119	3.499	3.604	.971
9	3.598	3.774	95.327	99.685	3.609	3.641	.991
10	3.671	3.810	96.345	100.044	3.669	3.735	.982
11	3.970	3.845	103.270	101.972	3.894	3.856	1.010
12	4.208	3.881	108.415	102.479	4.106	3.956	1.038
13	3.745	3.930	95.294	96.934	3.863	3.974	.972
14	4.062	3.990	101.807	99.090	4.099	4.010	1.022
15	3.852	4.046	95.190	99.519	3.870	4.024	.962
16	4.212	4.089	102.994	99.839	4.219	4.102	1.028
17	4.076	4.130	98.705	99.381	4.102	4.148	.989
18	4.259	4.152	102.566	100.927	4.220	4.224	.999
19	4.321	4.169	103.645	101.011	4.278	4.248	1.007
20	4.343	4.185	103.783	99.119	4.382	4.258	1.029
21	4.077	4.218	96.659	99.685	4.090	4.229	.967
22	4.222	4.267	98.952	100.044	4.220	4.228	.998
23	4.393	4.298	102.216	101.972	4.308	4.229	1.019
24	4.321	4.316	100.121	102.479	4.217	4.222	.999
25	4.046	4.320	93.638	96.934	4.174	4.243	.984
26	4.128	4.319	95.579	99.090	4.166	4.326	.963
27	4.575	4.336	105.501	99.519	4.597	4.448	1.033
28	4.674	4.354	107.363	99.839	4.682	4.505	1.039
29	4.349	4.362	99.703	99.381	4.376	4.453	.983
30	4.427	4.378	101.126	100.927	4.386	4.382	1.001
31	4.261	4.393	96.981	101.011	4.218	4.345	.971
32	4.367	4.407	99.102	99.119	4.406	4.361	1.010
33	4.472	4.399	101.662	99.685	4.486	4.382	1.024
34	4.241	4.368	97.081	100.044	4.239	4.386	.966
35	4.564	4.356	104.778	101.972	4.476	4.398	1.018
36	4.541	4.358	104.208	102.479	4.431	4.387	1.010
37	4.197	4.355	96.369	96.934	4.329	4.359	.993

Case number	LOMNAEDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
38	4.303	4.339	99.168	99.090	4.343	4.321	1.005
39	4.201	4.315	97.369	99.519	4.221	4.307	.980
40	4.319	4.299	100.462	99.839	4.326	4.334	.998
41	4.406	4.279	102.971	99.381	4.434	4.342	1.021
42	4.419	4.245	104.096	100.927	4.378	4.303	1.017
43	4.191	4.224	99.228	101.011	4.149	4.227	.982
44	4.069	4.229	96.196	99.119	4.105	4.170	.984
45	4.178	4.254	98.225	99.685	4.192	4.148	1.010
46	4.161	4.286	97.091	100.044	4.159	4.128	1.008
47	4.164	4.311	96.591	101.972	4.084	4.117	.992
48	4.116	4.330	95.071	102.479	4.017	4.159	.966
49	4.124	4.357	94.641	96.934	4.254	4.287	.992
50	4.506	4.400	102.420	99.090	4.548	4.454	1.021
51	4.584	4.464	102.682	99.519	4.606	4.584	1.005
52	4.698	4.556	103.124	99.839	4.705	4.645	1.013
53	4.646	4.653	99.833	99.381	4.675	4.644	1.007
54	4.620	4.750	97.262	100.927	4.578	4.630	.989
55	4.646	4.835	96.091	101.011	4.599	4.685	.982
56	4.642	4.890	94.924	99.119	4.683	4.837	.968
57	5.153	4.927	104.579	99.685	5.169	5.046	1.024
58	5.375	4.955	108.478	100.044	5.373	5.190	1.035
59	5.300	4.979	106.459	101.972	5.198	5.220	.996
60	5.299	5.008	105.813	102.479	5.171	5.174	.999
61	4.971	5.040	98.630	96.934	5.128	5.112	1.003
62	4.985	5.062	98.479	99.090	5.031	5.059	.994
63	4.999	5.056	98.868	99.519	5.023	5.019	1.001
64	4.957	5.022	98.702	99.839	4.965	4.990	.995
65	4.951	4.988	99.252	99.381	4.981	4.978	1.001
66	5.022	4.958	101.286	100.927	4.976	4.958	1.004
67	5.002	4.928	101.505	101.011	4.952	4.929	1.005
68	4.818	4.906	98.202	99.119	4.860	4.893	.993
69	4.837	4.889	98.943	99.685	4.852	4.874	.996
70	4.871	4.868	100.050	100.044	4.869	4.859	1.002
71	4.992	4.839	103.159	101.972	4.896	4.846	1.010
72	4.888	4.802	101.786	102.479	4.769	4.821	.989
73	4.651	4.772	97.460	96.934	4.798	4.810	.998
74	4.782	4.760	100.467	99.090	4.826	4.795	1.006
75	4.787	4.751	100.764	99.519	4.811	4.758	1.011
76	4.681	4.740	98.752	99.839	4.689	4.682	1.001
77	4.535	4.724	95.997	99.381	4.563	4.622	.987

Case number	LOMNAEDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
78	4.539	4.710	96.372	100.927	4.497	4.616	.974
79	4.775	4.701	101.565	101.011	4.727	4.670	1.012
80	4.740	4.689	101.102	99.119	4.782	4.720	1.013
81	4.709	4.673	100.777	99.685	4.724	4.731	.999
82	4.735	4.654	101.750	100.044	4.733	4.712	1.005
83	4.735	4.648	101.880	101.972	4.644	4.686	.991
84	4.803	4.658	103.098	102.479	4.687	4.675	1.002
85	4.534	4.664	97.207	96.934	4.677	4.661	1.004
86	4.597	4.661	98.627	99.090	4.639	4.624	1.003
87	4.598	4.657	98.727	99.519	4.620	4.594	1.006
88	4.414	4.659	94.742	99.839	4.421	4.571	.967
89	4.659	4.662	99.936	99.381	4.688	4.612	1.017
90	4.664	4.665	99.972	100.927	4.621	4.648	.994
91	4.788	4.668	102.564	101.011	4.740	4.695	1.010
92	4.650	4.672	99.523	99.119	4.691	4.710	.996
93	4.708	4.679	100.628	99.685	4.723	4.725	1.000
94	4.770	4.689	101.716	100.044	4.768	4.727	1.009
95	4.793	4.689	102.215	101.972	4.700	4.722	.995
96	4.817	4.682	102.885	102.479	4.701	4.712	.998
97	4.594	4.674	98.275	96.934	4.739	4.712	1.006
98	4.620	4.669	98.960	99.090	4.662	4.692	.994
99	4.739	4.665	101.579	99.519	4.762	4.665	1.021
100	4.528	4.657	97.224	99.839	4.535	4.611	.984
101	4.536	4.644	97.683	99.381	4.565	4.587	.995
102	4.620	4.632	99.732	100.927	4.578	4.588	.998
103	4.646	4.629	100.380	101.011	4.600	4.616	.996
104	4.655	4.627	100.601	99.119	4.697	4.644	1.011
105	4.620	4.625	99.891	99.685	4.635	4.635	1.000
106	4.660	4.637	100.496	100.044	4.658	4.619	1.008
107	4.594	4.669	98.377	101.972	4.505	4.605	.978
108	4.739	4.707	100.668	102.479	4.624	4.626	1.000
109	4.585	4.744	96.650	96.934	4.730	4.661	1.015
110	4.594	4.779	96.123	99.090	4.636	4.700	.986
111	4.709	4.807	97.958	99.519	4.731	4.770	.992
112	4.836	4.835	100.021	99.839	4.844	4.859	.997
113	5.015	4.862	103.147	99.381	5.046	4.958	1.018
114	5.053	4.880	103.556	100.927	5.007	5.014	.998
115	5.100	4.897	104.128	101.011	5.049	5.032	1.003
116	5.032	4.917	102.336	99.119	5.077	5.026	1.010
117	4.915	4.929	99.725	99.685	4.931	4.981	.990

Case number	LOMNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
118	5.038	4.927	102.237	100.044	5.035	4.929	1.022
119	4.857	4.911	98.887	101.972	4.763	4.874	.977
120	4.909	4.896	100.256	102.479	4.790	4.864	.985
121	4.842	4.894	98.940	96.934	4.996	4.870	1.026
122	4.806	4.898	98.126	99.090	4.850	4.853	.999
123	4.773	4.909	97.233	99.519	4.796	4.815	.996
124	4.745	4.919	96.458	99.839	4.753	4.793	.992
125	4.717	4.930	95.668	99.381	4.746	4.833	.982
126	4.991	4.945	100.936	100.927	4.946	4.928	1.004
127	5.115	.	.	101.011	5.064	5.028	1.007
128	5.099	.	.	99.119	5.144	5.094	1.010
129	5.114	.	.	99.685	5.130	5.099	1.006
130	5.086	.	.	100.044	5.084	5.059	1.005
131	5.076	.	.	101.972	4.978	4.995	.997
132	5.045	.	.	102.479	4.923	4.963	.992

ANEXO 24. SERIE DE PRECIOS DE LOMO DE RES A NIVEL CONSUMIDOR: Cálculo de la tendencia.

REGRESSION /VARIABLES STC#1 \$CASENUM /DEPENDENT STC#1 /METHOD ENTER
/RESIDUALS DEFAULTS /SAVE RESID (ERR#2) PRED (FIT#2).

***** MULTIPLE REGRESSION *****

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for
LOMNACDE fr
Beginning Block Number 1. Method: Enter

Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for
LOMNACDE fr

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .78846
R Square .62168
Adjusted R Square .61877
Standard Error .24452

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	12.77231	12.77231
Residual	130	7.77264	.05979

F = 213.62121 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	8.163510E-03	5.58541E-04	.78846	14.616	.0000
(Constant)	4.00596	.04281		93.579	.0000

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	4.0141	5.0835	4.5488	.3122	132
*RESID	-.4668	.7322	.0000	.2436	132
*ZPRED	-1.7125	1.7125	-.0000	1.0000	132
*ZRESID	-1.9089	2.9944	.0000	.9962	132

Total Cases = 132

Durbin-Watson Test = .04838

ANEXO 25. SERIE DE PRECIOS DE LOMO DE RES AL CONSUMIDOR: Estimación de la duración y la amplitud del ciclo con variable ficticia DUMMY. Análisis de residuos.

REGRESSION /VARIABLES STC#1 \$CASENUM DUMMY /DEPENDENT STC#1 /METHOD
STEPWISE/RESIDUALS DEFAULTS /SAVE RESID (err#3) ADJPRED (fit#3).

***** MULTIPLE REGRESSION *****

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1
Beginning Block Number 1. Method: Stepwise

***** MULTIPLE REGRESSION *****

Equation Number 1 Dependent Variable.. STC#1

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .78846
R Square .62168
Adjusted R Square .61877
Standard Error .24452

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	12.77231	12.77231
Residual	130	7.77264	.05979

F = 213.62121 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	8.163510E-03	5.58541E-04	.78846	14.616	.0000
(Constant)	4.00596	.04281		93.579	.0000

----- Variables not in the Equation -----

Variable	Beta In	Partial	Min Toler	T	Sig T
DUMMY	.44300	.66377	.84934	10.080	.0000

Variable(s) Entered on Step Number
2.. DUMMY

Multiple R .88790
R Square .78836
Adjusted R Square .78508
Standard Error .18359

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	16.19682	8.09841
Residual	129	4.34814	.03371

F = 240.26261 Signif F = .0000

----- Variables in the Equation -----					
Variable	B	SE B	Beta	T	Sig T
\$CASENUM	9.943855E-03	4.55050E-04	.96042	21.852	.0000
DUMMY	.35450	.03517	.44300	10.080	.0000
(Constant)	3.73986	.04159		89.913	.0000

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	3.7498	5.0524	4.5488	.3516	132
*ZPRED	-2.2724	1.4322	.0000	1.0000	132
*SEPPRED	.0209	.0412	.0272	.0051	132
*ADJPRED	3.7605	5.0552	4.5489	.3515	132
*RESID	-.4452	.5387	.0000	.1822	132
*ZRESID	-2.4248	2.9344	.0000	.9923	132
*SRESID	-2.4472	2.9624	-.0003	1.0037	132
*DRESID	-.4534	.5491	-.0001	.1864	132
*SDRESID	-2.4963	3.0567	.0013	1.0145	132
*MAHAL	.7089	5.6051	1.9848	1.2083	132
*COOK D	.0000	.0560	.0077	.0116	132
*LEVER	.0054	.0428	.0152	.0092	132

Total Cases = 132
 Durbin-Watson Test = .13442

ANEXO 26. SERIE DE PRECIOS DE LOMO DE RES AL CONSUMIDOR: Análisis de
varianzas para los períodos 1970-1975 y 1976-1980.

ANEXO 27. SERIE DE PRECIOS DE CARNE MOLIDA DE RES AL CONSUMIDOR:
 Componente irregular, índices de estacionalidad y serie con
 componente cíclico y tendencia.

DESCRIPTIVES /VARIABLES MOLNACDE /STATISTICS ALL.

Number of Valid Observations (Listwise) = 132.00

Variable MOLNACDE

Mean	2.833	S.E. Mean	.019
Std Dev	.214	Variance	.046
Kurtosis	-.171	S.E. Kurt	.419
Skewness	.319	S.E. Skew	.211
Range	1.012	Minimum	2.35
Maximum	3.37	Sum	373.900

Valid Observations - 132 Missing Observations - 0

SEASON /VARIABLES MOLNACDE /MODEL MULTIPLICATIVE /MA CENTERED /PERIOD 12.

MODEL: MOD_6.

Results of SEASON procedure for variable MOLNACDE.
 Multiplicative Model. Centered MA method. Period = 12.

Case number	MOLNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
1	2.561	.	.	95.054	2.695	2.657	1.014
2	2.448	.	.	97.114	2.521	2.685	.939
3	2.766	.	.	97.378	2.840	2.742	1.036
4	2.897	.	.	97.712	2.965	2.715	1.092
5	2.494	.	.	100.149	2.490	2.586	.963
6	2.427	.	.	103.082	2.355	2.452	.960
7	2.353	2.606	90.295	101.381	2.321	2.375	.977
8	2.438	2.633	92.616	101.024	2.413	2.399	1.006
9	2.413	2.656	90.862	101.066	2.388	2.472	.966
10	2.602	2.654	98.046	100.977	2.576	2.598	.992
11	2.852	2.662	107.148	102.451	2.784	2.721	1.023
12	2.973	2.699	110.130	102.611	2.897	2.834	1.022
13	2.662	2.751	96.775	95.054	2.801	2.887	.970
14	2.981	2.796	106.619	97.114	3.069	2.924	1.050
15	2.790	2.835	98.419	97.378	2.866	2.896	.989
16	2.817	2.867	98.273	97.712	2.883	2.883	1.000
17	2.768	2.881	96.065	100.149	2.764	2.864	.965
18	3.058	2.884	106.032	103.082	2.967	2.892	1.026
19	2.957	2.885	102.508	101.381	2.917	2.897	1.007
20	2.912	2.877	101.220	101.024	2.882	2.891	.997
21	2.889	2.868	100.729	101.066	2.858	2.869	.996
22	2.879	2.865	100.491	100.977	2.851	2.862	.996
23	2.931	2.867	102.242	102.451	2.861	2.860	1.000
24	2.958	2.870	103.056	102.611	2.883	2.859	1.008
25	2.692	2.859	94.167	95.054	2.832	2.853	.993
26	2.761	2.839	97.258	97.114	2.843	2.846	.999
27	2.795	2.821	99.058	97.378	2.870	2.847	1.008
28	2.738	2.806	97.574	97.712	2.802	2.855	.981
29	2.893	2.791	103.664	100.149	2.889	2.854	1.012
30	3.024	2.774	109.010	103.082	2.933	2.820	1.040
31	2.714	2.759	98.394	101.381	2.677	2.751	.973
32	2.674	2.746	97.369	101.024	2.647	2.694	.983
33	2.705	2.729	99.110	101.066	2.677	2.669	1.003
34	2.688	2.718	98.894	100.977	2.662	2.670	.997
35	2.767	2.710	102.117	102.451	2.701	2.677	1.009
36	2.711	2.695	100.622	102.611	2.642	2.674	.988
37	2.575	2.679	96.113	95.054	2.709	2.674	1.013

Case number	MOLNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
38	2.581	2.671	96.601	97.114	2.657	2.673	.994
39	2.573	2.668	96.451	97.378	2.642	2.688	.983
40	2.680	2.661	100.728	97.712	2.743	2.710	1.012
41	2.756	2.650	103.990	100.149	2.752	2.706	1.017
42	2.797	2.644	105.753	103.082	2.713	2.674	1.015
43	2.575	2.641	97.485	101.381	2.540	2.625	.967
44	2.626	2.641	99.418	101.024	2.599	2.599	1.000
45	2.660	2.648	100.418	101.066	2.631	2.589	1.017
46	2.565	2.658	96.488	100.977	2.540	2.586	.982
47	2.649	2.678	98.928	102.451	2.586	2.595	.996
48	2.685	2.712	99.028	102.611	2.617	2.620	.999
49	2.524	2.755	91.612	95.054	2.655	2.664	.997
50	2.628	2.803	93.764	97.114	2.706	2.717	.996
51	2.703	2.856	94.646	97.378	2.776	2.801	.991
52	2.787	2.917	95.544	97.712	2.852	2.910	.980
53	3.110	2.978	104.423	100.149	3.106	3.025	1.027
54	3.262	3.035	107.458	103.082	3.164	3.104	1.019
55	3.138	3.084	101.765	101.381	3.095	3.156	.981
56	3.224	3.121	103.319	101.024	3.192	3.206	.996
57	3.337	3.152	105.887	101.066	3.302	3.253	1.015
58	3.352	3.174	105.599	100.977	3.319	3.282	1.011
59	3.331	3.177	104.853	102.451	3.251	3.269	.995
60	3.365	3.155	106.656	102.611	3.279	3.235	1.014
61	3.008	3.130	96.117	95.054	3.165	3.186	.993
62	3.037	3.102	97.904	97.114	3.127	3.143	.995
63	3.037	3.061	99.205	97.378	3.118	3.096	1.007
64	2.990	3.016	99.142	97.712	3.060	3.030	1.010
65	2.970	2.972	99.931	100.149	2.966	2.955	1.004
66	2.880	2.929	98.332	103.082	2.794	2.875	.972
67	2.906	2.889	100.618	101.381	2.867	2.827	1.014
68	2.798	2.860	97.827	101.024	2.769	2.792	.992
69	2.779	2.836	97.996	101.066	2.750	2.778	.990
70	2.824	2.808	100.557	100.977	2.797	2.769	1.010
71	2.819	2.779	101.444	102.451	2.751	2.758	.997
72	2.836	2.757	102.869	102.611	2.764	2.762	1.001
73	2.567	2.751	93.315	95.054	2.700	2.767	.976
74	2.786	2.751	101.242	97.114	2.868	2.784	1.030
75	2.712	2.754	98.500	97.378	2.785	2.757	1.010
76	2.657	2.755	96.452	97.712	2.720	2.714	1.002
77	2.588	2.757	93.863	100.149	2.584	2.683	.963

Case number	MOLNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
78	2.745	2.759	99.505	103.082	2.663	2.709	.983
79	2.885	2.765	104.351	101.381	2.846	2.759	1.032
80	2.841	2.768	102.663	101.024	2.813	2.792	1.007
81	2.789	2.762	100.978	101.066	2.759	2.796	.987
82	2.848	2.754	103.411	100.977	2.821	2.791	1.011
83	2.843	2.759	103.070	102.451	2.775	2.792	.994
84	2.844	2.768	102.755	102.611	2.772	2.798	.991
85	2.717	2.763	98.335	95.054	2.858	2.797	1.022
86	2.700	2.754	98.037	97.114	2.780	2.764	1.006
87	2.652	2.749	96.482	97.378	2.724	2.732	.997
88	2.541	2.746	92.523	97.712	2.600	2.701	.963
89	2.807	2.743	102.337	100.149	2.803	2.709	1.035
90	2.756	2.735	100.767	103.082	2.673	2.708	.987
91	2.740	2.720	100.734	101.381	2.703	2.718	.994
92	2.773	2.704	102.543	101.024	2.745	2.727	1.007
93	2.745	2.694	101.879	101.066	2.716	2.739	.992
94	2.823	2.694	104.773	100.977	2.795	2.739	1.021
95	2.787	2.691	103.568	102.451	2.720	2.709	1.004
96	2.713	2.687	100.988	102.611	2.644	2.671	.990
97	2.495	2.694	92.598	95.054	2.625	2.639	.994
98	2.543	2.706	93.972	97.114	2.619	2.634	.994
99	2.565	2.720	94.306	97.378	2.634	2.642	.997
100	2.622	2.728	96.145	97.712	2.684	2.662	1.008
101	2.649	2.732	96.956	100.149	2.645	2.691	.983
102	2.812	2.748	102.318	103.082	2.728	2.747	.993
103	2.869	2.766	103.698	101.381	2.830	2.809	1.007
104	2.935	2.782	105.493	101.024	2.905	2.852	1.018
105	2.913	2.802	103.937	101.066	2.882	2.857	1.009
106	2.834	2.836	99.920	100.977	2.806	2.849	.985
107	2.882	2.874	100.271	102.451	2.813	2.842	.990
108	3.001	2.902	103.398	102.611	2.924	2.847	1.027
109	2.653	2.926	90.674	95.054	2.791	2.848	.980
110	2.756	2.945	93.573	97.114	2.838	2.898	.979
111	2.844	2.960	96.077	97.378	2.921	2.968	.984
112	3.145	2.977	105.656	97.712	3.219	3.046	1.057
113	3.046	2.992	101.818	100.149	3.042	3.066	.992
114	3.086	2.996	102.975	103.082	2.993	3.067	.976
115	3.168	3.010	105.259	101.381	3.125	3.068	1.019
116	3.102	3.030	102.347	101.024	3.070	3.067	1.001
117	3.101	3.041	101.994	101.066	3.068	3.051	1.006

Case number	MOLNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend- cycle	Irregular component
118	3.042	3.035	100.241	100.977	3.013	3.006	1.002
119	3.034	3.018	100.532	102.451	2.961	2.990	.990
120	2.960	3.007	98.435	102.611	2.884	2.990	.965
121	3.009	3.001	100.285	95.054	3.166	3.025	1.047
122	2.901	3.000	96.700	97.114	2.987	3.022	.988
123	2.943	3.004	97.953	97.378	3.022	3.004	1.006
124	2.908	3.017	96.398	97.712	2.976	2.956	1.007
125	2.878	3.031	94.952	100.149	2.873	2.941	.977
126	2.984	3.044	98.037	103.082	2.895	2.963	.977
127	3.130	.	.	101.381	3.088	3.027	1.020
128	3.117	.	.	101.024	3.085	3.096	.997
129	3.184	.	.	101.066	3.150	3.138	1.004
130	3.269	.	.	100.977	3.238	3.146	1.029
131	3.138	.	.	102.451	3.063	3.130	.979
132	3.169	.	.	102.611	3.089	3.122	.989

ANEXO 28. SERIE DE PRECIOS DE CARNE MOLIDA DE RES AL CONSUMIDOR: Cálculo de la tendencia lineal.

REGRESSION * /VARIABLES STC#1 \$CASENUM /DEPENDENT STC#1 /METHOD ENTER
/RESIDUALS DEFAULTS /SAVE RESID (ERR#2) PRED (FIT#2).

* * * * M U L T I P L E R E G R E S S I O N * * * * *

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for
MOLNACDE fr

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .40414
R Square .16333
Adjusted R Square .15689
Standard Error .16856

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	.72105	.72105
Residual	130	3.69366	.02841

F = 25.37766 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	1.939655E-03	3.85034E-04	.40414	5.038	.0000
(Constant)	2.70375	.02951		91.621	.0000

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	2.7057	2.9598	2.8327	.0742	132
*RESID	-.3420	.4656	-.0000	.1679	132
*ZPRED	-1.7125	1.7125	-.0000	1.0000	132
*ZRESID	-2.0292	2.7619	-.0000	.9962	132

Total Cases = 132
Durbin-Watson Test = .06849

ANEXO 29. SERIE DE PRECIOS DE CARNE MOLIDA DE RES AL CONSUMIDOR:
 Estimación de la amplitud y duración del ciclo con variable
 ficticia DUMMY. Análisis de residuos.

REGRESSION /VARIABLES STC#1 \$CASENUM DUMMY /DEPENDENT STC#1 /METHOD
 STEPWISE/RESIDUALS DEFAULTS /SAVE RESID (err#3) ADJPRED (fit#3).

***** MULTIPLE REGRESSION *****

Listwise Deletion of Missing Data
 Equation Number 1 Dependent Variable.. STC#1

Variable(s) Entered on Step Number
 1.. DUMMY

Multiple R .45570
 R Square .20766
 Adjusted R Square .20157
 Standard Error .16403

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	.91677	.91677
Residual	130	3.49793	.02691

F = 34.07171 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
DUMMY	.16668	.02855	.45570	5.837	.0000
(Constant)	2.74940	.02019		136.168	.0000

----- Variables not in the Equation -----

Variable	Beta In	Partial	Min Toler	T	Sig T
\$CASENUM	.36366	.40665	.99074	5.055	.0000

Variable(s) Entered on Step Number
 2.. \$CASENUM

Multiple R .58197
 R Square .33868
 Adjusted R Square .32843
 Standard Error .15044

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	1.49519	.74760
Residual	129	2.91951	.02263

F = 33.03288 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
DUMMY	.15388	.02631	.42071	5.849	.0000
\$CASENUM	1.745355E-03	3.45241E-04	.36366	5.055	.0000
(Constant)	2.63973	.02852		92.552	.0000

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	2.6415	3.0240	2.8327	.1068	132
*ZPRED	-1.7902	1.7902	.0000	1.0000	132
*SEPRE	.0186	.0283	.0225	.0029	132
*ADJPRED	2.6409	3.0204	2.8327	.1069	132
*RESID	-.2882	.3870	-.0000	.1493	132
*ZRESID	-1.9160	2.5722	-.0000	.9923	132
*SRESID	-1.9337	2.5930	.0001	1.0029	132
*DRESID	-.2936	.3932	.0000	.1525	132
*SDRESID	-1.9547	2.6529	.0014	1.0106	132
*MAHAL	1.0044	3.6302	1.9848	.7599	132
*COOK D	.0000	.0379	.0071	.0092	132
*LEVER	.0077	.0277	.0152	.0058	132

Total Cases = 132
 Durbin-Watson Test = .09894

ANEXO 30. SERIE DE PRECIOS DE CARNE MOLIDA DE RES AL CONSUMIDOR:
Análisis de varianza para los períodos 1970-1975 y 1976-1980.

ANEXO 31. SERIE DE PRECIOS DE COSTILLA AL CONSUMIDOR: Componente
irregular, índices de estacionalidad y serie con componente
cíclico y tendencia.

DESCRIPTIVES /VARIABLES COSTNACD /STATISTICS ALL.

Number of Valid Observations (Listwise) = 240.00

Variable COSTNACD

Mean	2.228	S.E. Mean	.012
Std Dev	.180	Variance	.032
Kurtosis	.279	S.E. Kurt	.313
Skewness	.693	S.E. Skew	.157
Range	1.015	Minimum	1.82
Maximum	2.84	Sum	534.627

Valid Observations - 240 Missing Observations - 0

SEASON /VARIABLES COSTNACD /MODEL MULTIPLICATIVE /MA CENTERED /PERIOD 12.

MODEL: MOD_4.

Results of SEASON procedure for variable COSTNACD.
 Multiplicative Model. Centered MA method. Period = 12.

Case number	COSTNACD	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
1	1.825	.	.	99.786	1.828	2.014	.908
2	2.160	.	.	99.238	2.177	2.134	1.020
3	2.380	.	.	99.303	2.397	2.375	1.009
4	2.840	.	.	99.696	2.849	2.477	1.150
5	2.300	.	.	99.748	2.306	2.396	.962
6	2.200	.	.	101.829	2.160	2.278	.949
7	2.253	2.260	99.710	100.898	2.233	2.189	1.021
8	2.081	2.282	91.204	99.614	2.089	2.168	.963
9	2.167	2.286	94.823	98.905	2.191	2.206	.993
10	2.241	2.264	98.974	100.215	2.236	2.227	1.004
11	2.407	2.244	107.301	100.353	2.399	2.245	1.069
12	2.071	2.254	91.851	100.416	2.062	2.218	.930
13	2.214	2.269	97.551	99.786	2.219	2.240	.990
14	2.288	2.289	99.968	99.238	2.306	2.278	1.012
15	2.355	2.305	102.134	99.303	2.371	2.328	1.018
16	2.336	2.315	100.906	99.696	2.343	2.347	.998
17	2.321	2.318	100.087	99.748	2.326	2.353	.989
18	2.437	2.327	104.707	101.829	2.393	2.369	1.010
19	2.379	2.336	101.830	100.898	2.357	2.366	.996
20	2.421	2.329	103.932	99.614	2.430	2.368	1.026
21	2.228	2.321	96.003	98.905	2.253	2.344	.961
22	2.410	2.311	104.287	100.215	2.405	2.348	1.024
23	2.322	2.295	101.187	100.353	2.314	2.316	.999
24	2.362	2.280	103.601	100.416	2.352	2.288	1.028
25	2.133	2.270	93.987	99.786	2.138	2.237	.956
26	2.207	2.245	98.338	99.238	2.224	2.225	1.000
27	2.238	2.217	100.932	99.303	2.253	2.205	1.022
28	2.207	2.191	100.731	99.696	2.213	2.201	1.006
29	2.065	2.164	95.426	99.748	2.070	2.188	.946
30	2.339	2.146	108.975	101.829	2.297	2.183	1.052
31	2.230	2.142	104.123	100.898	2.210	2.143	1.031
32	1.974	2.143	92.136	99.614	1.982	2.080	.953
33	2.008	2.138	93.908	98.905	2.030	2.036	.997
34	1.998	2.133	93.663	100.215	1.993	2.039	.978
35	2.084	2.137	97.522	100.353	2.077	2.089	.994
36	2.187	2.143	102.039	100.416	2.177	2.141	1.017
37	2.194	2.144	102.338	99.786	2.198	2.176	1.010

Case number	COSTNACD	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
38	2.181	2.153	101.295	99.238	2.197	2.185	1.006
39	2.144	2.169	98.834	99.303	2.159	2.181	.990
40	2.175	2.187	99.436	99.696	2.182	2.197	.993
41	2.194	2.205	99.491	99.748	2.199	2.217	.992
42	2.355	2.218	106.212	101.829	2.313	2.238	1.033
43	2.229	2.235	99.748	100.898	2.209	2.230	.991
44	2.197	2.261	97.149	99.614	2.205	2.224	.992
45	2.184	2.297	95.065	98.905	2.208	2.220	.994
46	2.255	2.336	96.520	100.215	2.250	2.241	1.004
47	2.248	2.375	94.662	100.353	2.240	2.282	.982
48	2.326	2.409	96.542	100.416	2.316	2.354	.984
49	2.471	2.443	101.129	99.786	2.476	2.453	1.009
50	2.534	2.482	102.065	99.238	2.553	2.543	1.004
51	2.652	2.523	105.104	99.303	2.670	2.612	1.022
52	2.607	2.561	101.810	99.696	2.615	2.641	.990
53	2.680	2.594	103.338	99.748	2.687	2.660	1.010
54	2.706	2.623	103.180	101.829	2.657	2.665	.997
55	2.686	2.643	101.632	100.898	2.662	2.675	.995
56	2.686	2.647	101.470	99.614	2.697	2.683	1.005
57	2.662	2.638	100.921	98.905	2.692	2.677	1.006
58	2.696	2.622	102.811	100.215	2.690	2.664	1.010
59	2.588	2.606	99.318	100.353	2.579	2.639	.977
60	2.681	2.586	103.671	100.416	2.670	2.622	1.018
61	2.597	2.568	101.161	99.786	2.603	2.584	1.007
62	2.517	2.546	98.841	99.238	2.536	2.539	.999
63	2.443	2.519	96.988	99.303	2.460	2.491	.988
64	2.444	2.492	98.070	99.696	2.451	2.459	.997
65	2.452	2.468	99.327	99.748	2.458	2.448	1.004
66	2.450	2.446	100.162	101.829	2.406	2.434	.988
67	2.504	2.423	103.315	100.898	2.481	2.424	1.024
68	2.354	2.402	97.997	99.614	2.363	2.395	.987
69	2.347	2.382	98.553	98.905	2.373	2.376	.999
70	2.359	2.364	99.761	100.215	2.354	2.359	.998
71	2.353	2.346	100.307	100.353	2.345	2.357	.995
72	2.380	2.329	102.184	100.416	2.370	2.349	1.009
73	2.356	2.308	102.051	99.786	2.361	2.327	1.015
74	2.251	2.288	98.393	99.238	2.268	2.292	.990
75	2.223	2.274	97.740	99.303	2.239	2.259	.991
76	2.243	2.260	99.264	99.696	2.250	2.242	1.004
77	2.216	2.246	98.687	99.748	2.222	2.226	.998

Case number	COSTNACD	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
78	2.282	2.233	102.221	101.829	2.241	2.213	1.013
79	2.167	2.220	97.591	100.898	2.147	2.196	.978
80	2.195	2.214	99.119	99.614	2.203	2.193	1.005
81	2.186	2.218	98.578	98.905	2.210	2.191	1.009
82	2.177	2.220	98.104	100.215	2.173	2.192	.991
83	2.192	2.222	98.692	100.353	2.185	2.195	.995
84	2.225	2.229	99.836	100.416	2.216	2.211	1.002
85	2.210	2.242	98.553	99.786	2.214	2.236	.990
86	2.262	2.252	100.443	99.238	2.280	2.258	1.010
87	2.285	2.255	101.326	99.303	2.301	2.270	1.013
88	2.229	2.260	98.634	99.696	2.236	2.279	.981
89	2.279	2.265	100.620	99.748	2.284	2.298	.994
90	2.395	2.262	105.859	101.829	2.352	2.312	1.017
91	2.371	2.255	105.126	100.898	2.350	2.307	1.019
92	2.242	2.244	99.893	99.614	2.250	2.282	.986
93	2.198	2.228	98.638	98.905	2.222	2.252	.987
94	2.294	2.213	103.620	100.215	2.289	2.230	1.026
95	2.184	2.201	99.190	100.353	2.176	2.195	.991
96	2.170	2.184	99.328	100.416	2.161	2.161	1.000
97	2.099	2.169	96.755	99.786	2.103	2.125	.990
98	2.108	2.161	97.542	99.238	2.124	2.111	1.006
99	2.057	2.154	95.475	99.303	2.071	2.101	.986
100	2.108	2.146	98.214	99.696	2.114	2.106	1.004
101	2.112	2.141	98.652	99.748	2.117	2.123	.997
102	2.147	2.143	100.205	101.829	2.109	2.145	.983
103	2.257	2.145	105.238	100.898	2.237	2.170	1.031
104	2.152	2.146	100.259	99.614	2.160	2.170	.995
105	2.138	2.149	99.527	98.905	2.162	2.170	.996
106	2.147	2.153	99.723	100.215	2.143	2.166	.989
107	2.209	2.160	102.248	100.353	2.201	2.172	1.014
108	2.191	2.171	100.951	100.416	2.182	2.164	1.008
109	2.126	2.173	97.827	99.786	2.130	2.149	.991
110	2.109	2.173	97.093	99.238	2.126	2.138	.994
111	2.116	2.185	96.804	99.303	2.130	2.149	.991
112	2.159	2.209	97.748	99.696	2.166	2.177	.995
113	2.231	2.229	100.083	99.748	2.236	2.201	1.016
114	2.276	2.240	101.627	101.829	2.235	2.211	1.011
115	2.188	2.256	97.019	100.898	2.169	2.229	.973
116	2.208	2.274	97.076	99.614	2.216	2.279	.972
117	2.393	2.289	104.562	98.905	2.420	2.347	1.031

Case number	COSTWACD	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
118	2.457	2.302	106.748	100.215	2.452	2.380	1.030
119	2.371	2.310	102.636	100.353	2.363	2.377	.994
120	2.293	2.318	98.928	100.416	2.284	2.349	.972
121	2.405	2.335	103.017	99.786	2.411	2.340	1.030
122	2.276	2.360	96.462	99.238	2.294	2.323	.987
123	2.297	2.374	96.747	99.303	2.313	2.316	.999
124	2.289	2.377	96.304	99.696	2.296	2.309	.995
125	2.309	2.384	96.841	99.748	2.315	2.333	.992
126	2.382	2.400	99.274	101.829	2.340	2.377	.984
127	2.489	2.409	103.311	100.898	2.467	2.432	1.014
128	2.504	2.414	103.743	99.614	2.514	2.469	1.018
129	2.435	2.423	100.522	98.905	2.462	2.484	.991
130	2.483	2.433	102.087	100.215	2.478	2.490	.995
131	2.525	2.443	103.346	100.353	2.516	2.487	1.012
132	2.514	2.450	102.628	100.416	2.504	2.472	1.013
133	2.405	2.448	98.234	99.786	2.410	2.442	.987
134	2.386	2.444	97.622	99.238	2.404	2.423	.992
135	2.403	2.442	98.407	99.303	2.420	2.418	1.001
136	2.425	2.436	99.575	99.696	2.433	2.421	1.005
137	2.417	2.426	99.636	99.748	2.423	2.413	1.004
138	2.442	2.416	101.070	101.829	2.398	2.413	.994
139	2.389	2.410	99.132	100.898	2.367	2.417	.979
140	2.499	2.403	103.984	99.614	2.509	2.430	1.032
141	2.390	2.394	99.839	98.905	2.417	2.420	.999
142	2.382	2.384	99.918	100.215	2.377	2.404	.989
143	2.399	2.375	101.001	100.353	2.390	2.388	1.001
144	2.392	2.365	101.147	100.416	2.382	2.372	1.004
145	2.376	2.357	100.825	99.786	2.381	2.354	1.012
146	2.267	2.346	96.639	99.238	2.284	2.326	.982
147	2.301	2.333	98.608	99.303	2.317	2.314	1.001
148	2.292	2.324	98.602	99.696	2.299	2.303	.998
149	2.322	2.313	100.410	99.748	2.328	2.302	1.011
150	2.301	2.299	100.057	101.829	2.259	2.295	.984
151	2.325	2.286	101.709	100.898	2.305	2.300	1.002
152	2.307	2.279	101.217	99.614	2.316	2.299	1.007
153	2.285	2.272	100.596	98.905	2.311	2.291	1.009
154	2.263	2.262	100.041	100.215	2.258	2.267	.996
155	2.244	2.252	99.654	100.353	2.236	2.245	.996
156	2.227	2.239	99.459	100.416	2.218	2.234	.993
157	2.227	2.227	99.998	99.786	2.232	2.228	1.001

Case number	COSTNACD	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
158	2.243	2.215	101.254	99.238	2.260	2.223	1.017
159	2.155	2.203	97.805	99.303	2.170	2.205	.984
160	2.196	2.193	100.142	99.696	2.203	2.186	1.007
161	2.171	2.185	99.384	99.748	2.177	2.166	1.005
162	2.155	2.176	99.030	101.829	2.116	2.155	.982
163	2.174	2.168	100.289	100.898	2.155	2.155	1.000
164	2.171	2.161	100.450	99.614	2.179	2.161	1.008
165	2.143	2.157	99.361	98.905	2.167	2.162	1.002
166	2.156	2.154	100.117	100.215	2.152	2.151	1.000
167	2.148	2.148	100.007	100.353	2.141	2.140	1.000
168	2.118	2.146	98.697	100.416	2.109	2.137	.987
169	2.146	2.144	100.082	99.786	2.150	2.147	1.002
170	2.155	2.139	100.734	99.238	2.172	2.153	1.008
171	2.151	2.134	100.788	99.303	2.166	2.151	1.007
172	2.117	2.130	99.404	99.696	2.124	2.136	.994
173	2.111	2.126	99.304	99.748	2.117	2.124	.997
174	2.157	2.124	101.538	101.829	2.118	2.117	1.001
175	2.136	2.121	100.689	100.898	2.117	2.115	1.001
176	2.096	2.117	99.006	99.614	2.104	2.111	.997
177	2.098	2.113	99.262	98.905	2.121	2.109	1.006
178	2.099	2.111	99.419	100.215	2.095	2.103	.996
179	2.112	2.111	100.023	100.353	2.104	2.102	1.001
180	2.099	2.109	99.565	100.416	2.091	2.101	.995
181	2.106	2.103	100.141	99.786	2.110	2.108	1.001
182	2.096	2.097	99.958	99.238	2.112	2.114	.999
183	2.113	2.094	100.932	99.303	2.128	2.118	1.004
184	2.112	2.089	101.072	99.696	2.118	2.112	1.003
185	2.106	2.086	100.968	99.748	2.111	2.095	1.008
186	2.104	2.084	100.937	101.829	2.066	2.073	.997
187	2.046	2.081	98.322	100.898	2.028	2.059	.985
188	2.052	2.075	98.882	99.614	2.060	2.056	1.002
189	2.059	2.069	99.509	98.905	2.081	2.060	1.010
190	2.041	2.061	99.023	100.215	2.037	2.063	.987
191	2.082	2.053	101.435	100.353	2.075	2.064	1.005
192	2.093	2.045	102.388	100.416	2.085	2.061	1.011
193	2.026	2.038	99.413	99.786	2.030	2.053	.989
194	2.035	2.032	100.154	99.238	2.051	2.044	1.003
195	2.024	2.027	99.849	99.303	2.038	2.034	1.002
196	2.018	2.021	99.885	99.696	2.024	2.021	1.002
197	2.007	2.013	99.663	99.748	2.012	2.001	1.005

Case number	COSTNACD	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
198	2.002	2.004	99.881	101.829	1.966	1.985	.990
199	1.977	1.998	98.938	100.898	1.959	1.981	.989
200	1.996	1.994	100.123	99.614	2.004	1.985	1.009
201	1.979	1.990	99.489	98.905	2.001	1.987	1.007
202	1.974	1.987	99.383	100.215	1.970	1.981	.994
203	1.977	1.984	99.647	100.353	1.970	1.976	.997
204	1.982	1.983	99.966	100.416	1.974	1.977	.999
205	1.979	1.983	99.807	99.786	1.984	1.984	1.000
206	1.978	1.983	99.755	99.238	1.994	1.990	1.002
207	1.984	1.984	100.002	99.303	1.998	1.993	1.002
208	1.987	1.987	99.983	99.696	1.993	1.990	1.002
209	1.986	1.990	99.757	99.748	1.991	1.982	1.004
210	1.993	1.995	99.932	101.829	1.958	1.975	.991
211	1.987	2.000	99.369	100.898	1.970	1.981	.994
212	1.983	2.005	98.908	99.614	1.991	1.994	.999
213	2.012	2.011	100.059	98.905	2.034	2.009	1.012
214	2.010	2.017	99.659	100.215	2.006	2.016	.995
215	2.025	2.022	100.172	100.353	2.018	2.024	.997
216	2.042	2.024	100.878	100.416	2.034	2.033	1.000
217	2.044	2.026	100.916	99.786	2.049	2.046	1.001
218	2.039	2.028	100.563	99.238	2.055	2.056	.999
219	2.062	2.029	101.631	99.303	2.076	2.060	1.008
220	2.053	2.026	101.327	99.696	2.060	2.048	1.005
221	2.029	2.023	100.302	99.748	2.034	2.026	1.004
222	2.017	2.018	99.955	101.829	1.981	2.006	.987
223	1.994	2.013	99.054	100.898	1.977	2.000	.988
224	2.024	2.010	100.711	99.614	2.032	2.004	1.014
225	1.991	2.005	99.286	98.905	2.013	2.000	1.006
226	1.981	2.005	98.832	100.215	1.977	1.988	.995
227	1.975	2.010	98.239	100.353	1.968	1.978	.995
228	1.972	2.021	97.560	100.416	1.964	1.980	.992
229	2.001	2.037	98.213	99.786	2.005	1.994	1.005
230	1.992	2.052	97.096	99.238	2.007	2.015	.996
231	2.009	2.065	97.273	99.303	2.023	2.045	.989
232	2.090	2.080	100.473	99.696	2.097	2.084	1.006
233	2.122	2.098	101.137	99.748	2.127	2.120	1.003
234	2.195	2.133	102.888	101.829	2.156	2.150	1.003
235	2.193	.	.	100.898	2.174	2.168	1.003
236	2.173	.	.	99.614	2.181	2.177	1.002
237	2.162	.	.	98.905	2.186	2.182	1.002
238	2.179	.	.	100.215	2.175	2.228	.976
239	2.205	.	.	100.353	2.197	2.317	.948
240	2.589	.	.	100.416	2.579	2.361	1.092

ANEXO 32. SERIE DE PRECIOS DE COSTILLA AL CONSUMIDOR: Cálculo de la
tendencia lineal.

REGRESSION /VARIABLES STC#1 \$CASENUM /DEPENDENT STC#1 /METHOD ENTER
/RESIDUALS
DEFAULTS /SAVE RESID (ERR#2) PRED (FIT#2).

* * * * M U L T I P L E R E G R E S S I O N * * * *

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1 Trend-cycle for
COSTNACD fr

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .52712
R Square .27786
Adjusted R Square .27483
Standard Error .14194

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	1.84488	1.84488
Residual	238	4.79470	.02015

F = 91.57614 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	-1.26550E-03	1.32242E-04	-.52712	-9.570	.0000
(Constant)	2.37973	.01838		129.465	.0000

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	2.0760	2.3785	2.2272	.0879	240
*RESID	-.3648	.3738	-.0000	.1416	240
*ZPRED	-1.7213	1.7213	-.0000	1.0000	240
*ZRESID	-2.5703	2.6339	-.0000	.9979	240

Total Cases = 240
Durbín-Watson Test = .05119

ANEXO 33. SERIE DE PRECIOS DE COSTILLA AL CONSUMIDOR: Estimación de la duración y la amplitud del ciclo con variable ficticia DUMMY. Análisis de residuos.

REGRESSION /VARIABLES STC#1 \$CASENUM DUMMY /DEPENDENT STC#1 /METHOD
STEPWISE/RESIDUALS DEFAULTS /SAVE RESID (err#3) ADJPRED (fit#3).

* * * * M U L T I P L E R E G R E S S I O N * * * *

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1

Variable(s) Entered on Step Number
1.. DUMMY

Multiple R .45570
R Square .20766
Adjusted R Square .20157
Standard Error .16403

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	.91677	.91677
Residual	130	3.49793	.02691

F = 34.07171 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
DUMMY	.16668	.02855	.45570	5.837	.0000
(Constant)	2.74940	.02019		136.168	.0000

----- Variables not in the Equation -----

Variable	Beta In	Partial	Min Toler	T	Sig T
\$CASENUM	.36366	.40665	.99074	5.055	.0000

Variable(s) Entered on Step Number
2.. \$CASENUM

Multiple R .58197
R Square .33868
Adjusted R Square .32843
Standard Error .15044

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	1.49519	.74760
Residual	129	2.91951	.02263

F = 33.03288 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
DUMMY	.15388	.02631	.42071	5.849	.0000
\$CASENUM	1.745355E-03	3.45241E-04	.36366	5.055	.0000
(Constant)	2.63973	.02852		92.552	.0000

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	2.6415	3.0240	2.8327	.1068	132
*ZPRED	-1.7902	1.7902	.0000	1.0000	132
*SEPPRED	.0186	.0283	.0225	.0029	132
*ADJPRED	2.6409	3.0204	2.8327	.1069	132
*RESID	-.2882	.3870	-.0000	.1493	132
*ZRESID	-1.9160	2.5722	-.0000	.9923	132
*SRESID	-1.9337	2.5930	.0001	1.0029	132
*DRESID	-.2936	.3932	.0000	.1525	132
*SDRESID	-1.9547	2.6529	.0014	1.0106	132
*MAHAL	1.0044	3.6302	1.9848	.7599	132
*COOK D	.0000	.0379	.0071	.0092	132
*LEVER	.0077	.0277	.0152	.0058	132

Total Cases = 132
 Durbin-Watson Test = .09894

ANEXO 34. SERIE DE PRECIOS DE COSTILLA DE RES AL CONSUMIDOR: Análisis de
varianza para los períodos 1970-1979 y 1980-1989.

ANEXO 35. SERIE DE PRECIOS DE TAJO DE RES AL CONSUMIDOR: Componente
irregular, índices de estacionalidad y serie con componente
cíclico y tendencia.

SEASON /VARIABLES TAJNACDE /MODEL MULTIPLICATIVE /MA CENTERED /PERIOD 12.

MODEL: MOD_5.

Results of SEASON procedure for variable TAJNACDE.

Multiplicative Model. Centered MA method. Period = 12.

Case number	TAJNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend- cycle	Irregular component
1	3.158	.	.	98.454	3.207	3.229	.993
2	3.205	.	.	99.317	3.227	3.244	.995
3	3.278	.	.	99.390	3.298	3.275	1.007
4	3.264	.	.	99.637	3.276	3.280	.999
5	3.368	.	.	100.084	3.365	3.268	1.030
6	3.179	.	.	101.231	3.141	3.213	.977
7	3.209	3.335	96.236	100.722	3.186	3.193	.998
8	3.118	3.361	92.761	99.987	3.118	3.218	.969
9	3.277	3.395	96.523	99.447	3.295	3.334	.988
10	3.508	3.427	102.371	100.086	3.505	3.470	1.010
11	3.719	3.457	107.576	100.791	3.689	3.554	1.038
12	3.653	3.494	104.539	100.855	3.622	3.577	1.013
13	3.317	3.554	93.349	98.454	3.369	3.566	.945
14	3.682	3.614	101.866	99.317	3.707	3.607	1.028
15	3.620	3.657	98.985	99.390	3.642	3.640	1.001
16	3.682	3.683	99.970	99.637	3.695	3.683	1.003
17	3.663	3.703	98.935	100.084	3.660	3.721	.984
18	3.793	3.717	102.048	101.231	3.747	3.778	.992
19	4.014	3.733	107.546	100.722	3.986	3.813	1.045
20	3.773	3.739	100.928	99.987	3.774	3.792	.995
21	3.641	3.743	97.276	99.447	3.661	3.772	.971
22	3.767	3.757	100.266	100.086	3.764	3.770	.998
23	3.934	3.770	104.369	100.791	3.903	3.780	1.033
24	3.769	3.781	99.699	100.855	3.737	3.739	.999
25	3.588	3.776	95.025	98.454	3.645	3.705	.984
26	3.558	3.775	94.265	99.317	3.583	3.703	.967
27	3.842	3.786	101.474	99.390	3.865	3.764	1.027
28	3.809	3.792	100.437	99.637	3.823	3.809	1.004
29	3.827	3.803	100.642	100.084	3.824	3.828	.999
30	3.898	3.824	101.943	101.231	3.851	3.835	1.004
31	3.796	3.853	98.517	100.722	3.769	3.833	.983
32	3.955	3.884	101.827	99.987	3.956	3.843	1.029
33	3.729	3.900	95.601	99.447	3.749	3.854	.973
34	3.836	3.908	98.145	100.086	3.833	3.909	.980
35	4.120	3.922	105.038	100.791	4.088	3.980	1.027
36	4.091	3.942	103.779	100.855	4.056	4.021	1.009
37	3.968	3.961	100.158	98.454	4.030	4.008	1.005

Case number	TAJNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
38	3.929	3.966	99.067	99.317	3.956	3.971	.996
39	3.847	3.972	96.841	99.390	3.871	3.950	.980
40	4.001	3.985	100.393	99.637	4.016	3.983	1.008
41	3.969	3.984	99.617	100.084	3.965	4.006	.990
42	4.220	3.972	106.241	101.231	4.168	4.023	1.036
43	3.950	3.965	99.632	100.722	3.922	3.982	.985
44	3.913	3.971	98.540	99.987	3.913	3.955	.989
45	3.924	3.991	98.323	99.447	3.946	3.936	1.003
46	3.954	4.014	98.518	100.086	3.951	3.939	1.003
47	3.967	4.032	98.385	100.791	3.936	3.943	.998
48	3.952	4.042	97.787	100.855	3.919	3.967	.988
49	3.935	4.058	96.965	98.454	3.997	4.024	.993
50	4.099	4.087	100.295	99.317	4.127	4.102	1.006
51	4.170	4.112	101.399	99.390	4.196	4.167	1.007
52	4.220	4.137	102.008	99.637	4.236	4.198	1.009
53	4.193	4.158	100.850	100.084	4.190	4.211	.995
54	4.230	4.185	101.060	101.231	4.178	4.219	.990
55	4.339	4.207	103.115	100.722	4.307	4.239	1.016
56	4.202	4.210	99.811	99.987	4.203	4.241	.991
57	4.251	4.201	101.183	99.447	4.274	4.238	1.009
58	4.221	4.184	100.864	100.086	4.217	4.230	.997
59	4.203	4.169	100.812	100.791	4.170	4.222	.988
60	4.366	4.154	105.106	100.855	4.329	4.206	1.029
61	4.059	4.131	98.251	98.454	4.122	4.151	.993
62	4.040	4.102	98.498	99.317	4.068	4.094	.994
63	4.004	4.069	98.407	99.390	4.029	4.046	.996
64	3.992	4.036	98.909	99.637	4.006	4.023	.996
65	4.056	4.006	101.235	100.084	4.052	4.010	1.011
66	4.001	3.973	100.717	101.231	3.953	3.975	.994
67	4.013	3.938	101.917	100.722	3.984	3.937	1.012
68	3.836	3.909	98.141	99.987	3.837	3.885	.987
69	3.826	3.884	98.511	99.447	3.848	3.858	.997
70	3.845	3.863	99.532	100.086	3.841	3.845	.999
71	3.871	3.841	100.787	100.791	3.841	3.835	1.001
72	3.896	3.822	101.948	100.855	3.863	3.816	1.012
73	3.682	3.809	96.646	98.454	3.740	3.782	.989
74	3.728	3.802	98.058	99.317	3.753	3.763	.997
75	3.722	3.796	98.051	99.390	3.745	3.754	.997
76	3.761	3.794	99.147	99.637	3.775	3.764	1.003
77	3.762	3.795	99.120	100.084	3.759	3.778	.995

Case number	TAJNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
78	3.840	3.795	101.176	101.231	3.793	3.795	1.000
79	3.876	3.793	102.189	100.722	3.849	3.802	1.012
80	3.784	3.796	99.665	99.987	3.784	3.804	.995
81	3.741	3.803	98.371	99.447	3.762	3.811	.987
82	3.874	3.803	101.870	100.086	3.871	3.830	1.011
83	3.884	3.811	101.927	100.791	3.854	3.830	1.006
84	3.876	3.828	101.278	100.855	3.844	3.821	1.006
85	3.659	3.841	95.252	98.454	3.716	3.801	.978
86	3.824	3.860	99.058	99.317	3.850	3.796	1.014
87	3.797	3.884	97.759	99.390	3.820	3.810	1.003
88	3.682	3.909	94.208	99.637	3.696	3.839	.963
89	4.025	3.931	102.382	100.084	4.021	3.907	1.029
90	3.974	3.956	100.463	101.231	3.926	3.960	.991
91	4.068	3.981	102.190	100.722	4.039	4.018	1.005
92	4.044	3.998	101.150	99.987	4.045	4.050	.999
93	4.060	4.008	101.281	99.447	4.082	4.087	.999
94	4.152	4.020	103.272	100.086	4.148	4.116	1.008
95	4.143	4.021	103.030	100.791	4.110	4.116	.999
96	4.203	4.014	104.703	100.855	4.168	4.095	1.018
97	3.938	4.013	98.122	98.454	4.000	4.039	.990
98	3.960	4.010	98.759	99.317	3.987	3.985	1.001
99	3.907	4.000	97.687	99.390	3.931	3.930	1.000
100	3.859	3.983	96.892	99.637	3.873	3.902	.993
101	3.863	3.966	97.411	100.084	3.860	3.903	.989
102	3.978	3.955	100.574	101.231	3.929	3.932	.999
103	4.039	3.949	102.280	100.722	4.010	3.958	1.013
104	3.986	3.948	100.965	99.987	3.987	3.959	1.007
105	3.876	3.955	98.024	99.447	3.898	3.940	.989
106	3.925	3.972	98.811	100.086	3.921	3.945	.994
107	3.969	4.004	99.116	100.791	3.938	3.962	.994
108	4.114	4.051	101.547	100.855	4.079	3.994	1.021
109	3.889	4.098	94.907	98.454	3.950	4.004	.987
110	3.988	4.138	96.383	99.317	4.015	4.034	.995
111	4.030	4.180	96.395	99.390	4.054	4.091	.991
112	4.156	4.216	98.556	99.637	4.171	4.209	.991
113	4.339	4.238	102.394	100.084	4.335	4.336	1.000
114	4.632	4.247	109.073	101.231	4.576	4.443	1.030
115	4.501	4.262	105.606	100.722	4.469	4.476	.998
116	4.481	4.284	104.597	99.987	4.482	4.453	1.006
117	4.404	4.300	102.407	99.447	4.428	4.371	1.013

Case number	TAJNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
118	4.265	4.307	99.015	100.086	4.261	4.274	.997
119	4.135	4.301	96.128	100.791	4.102	4.199	.977
120	4.178	4.285	97.494	100.855	4.142	4.182	.990
121	4.186	4.273	97.965	98.454	4.252	4.206	1.011
122	4.216	4.269	98.756	99.317	4.245	4.222	1.006
123	4.193	4.271	98.159	99.390	4.219	4.215	1.001
124	4.163	4.283	97.205	99.637	4.178	4.214	.991
125	4.189	4.300	97.426	100.084	4.185	4.247	.986
126	4.393	4.318	101.754	101.231	4.340	4.316	1.006
127	4.440	4.338	102.366	100.722	4.408	4.390	1.004
128	4.457	4.357	102.287	99.987	4.458	4.444	1.003
129	4.480	4.376	102.393	99.447	4.505	4.451	1.012
130	4.456	4.395	101.393	100.086	4.453	4.424	1.006
131	4.351	4.411	98.624	100.791	4.316	4.400	.981
132	4.393	4.416	99.487	100.855	4.356	4.406	.989
133	4.454	4.408	101.058	98.454	4.524	4.440	1.019
134	4.422	4.395	100.623	99.317	4.452	4.453	1.000
135	4.425	4.379	101.063	99.390	4.452	4.439	1.003
136	4.397	4.365	100.725	99.637	4.413	4.397	1.004
137	4.341	4.364	99.476	100.084	4.338	4.350	.997
138	4.357	4.367	99.780	101.231	4.304	4.311	.998
139	4.278	4.358	98.161	100.722	4.248	4.285	.991
140	4.303	4.341	99.123	99.987	4.304	4.291	1.003
141	4.249	4.322	98.301	99.447	4.273	4.309	.992
142	4.367	4.303	101.486	100.086	4.363	4.339	1.006
143	4.415	4.287	102.977	100.791	4.380	4.352	1.006
144	4.385	4.276	102.551	100.855	4.348	4.341	1.002
145	4.269	4.270	99.975	98.454	4.336	4.306	1.007
146	4.198	4.264	98.438	99.317	4.226	4.257	.993
147	4.192	4.260	98.419	99.390	4.218	4.222	.999
148	4.163	4.253	97.886	99.637	4.178	4.196	.996
149	4.201	4.236	99.176	100.084	4.197	4.195	1.000
150	4.227	4.214	100.304	101.231	4.175	4.194	.996
151	4.269	4.198	101.693	100.722	4.239	4.211	1.006
152	4.167	4.191	99.438	99.987	4.168	4.215	.989
153	4.279	4.182	102.302	99.447	4.303	4.220	1.020
154	4.179	4.174	100.118	100.086	4.175	4.184	.998
155	4.181	4.163	100.424	100.791	4.148	4.163	.996
156	4.099	4.145	98.890	100.855	4.065	4.143	.981
157	4.175	4.120	101.333	98.454	4.240	4.154	1.021

Case number	TAJNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
158	4.115	4.094	100.495	99.317	4.143	4.141	1.000
159	4.077	4.066	100.262	99.390	4.102	4.116	.996
160	4.077	4.037	100.989	99.637	4.091	4.066	1.006
161	4.035	4.012	100.567	100.084	4.031	4.011	1.005
162	3.957	3.992	99.122	101.231	3.909	3.953	.989
163	3.933	3.973	98.978	100.722	3.905	3.915	.997
164	3.889	3.957	98.272	99.987	3.890	3.895	.999
165	3.875	3.944	98.238	99.447	3.896	3.887	1.002
166	3.877	3.928	98.721	100.086	3.874	3.877	.999
167	3.889	3.911	99.458	100.791	3.859	3.884	.993
168	3.906	3.901	100.118	100.855	3.873	3.911	.990
169	3.929	3.896	100.848	98.454	3.991	3.946	1.011
170	3.978	3.891	102.239	99.317	4.006	3.954	1.013
171	3.897	3.888	100.229	99.390	3.921	3.928	.998
172	3.857	3.883	99.332	99.637	3.871	3.891	.995
173	3.846	3.877	99.209	100.084	3.843	3.861	.995
174	3.924	3.869	101.403	101.231	3.876	3.853	1.006
175	3.835	3.861	99.309	100.722	3.807	3.845	.990
176	3.876	3.851	100.632	99.987	3.876	3.844	1.008
177	3.816	3.842	99.312	99.447	3.837	3.829	1.002
178	3.805	3.839	99.129	100.086	3.802	3.811	.998
179	3.813	3.837	99.373	100.791	3.783	3.804	.994
180	3.806	3.831	99.366	100.855	3.774	3.816	.989
181	3.839	3.821	100.465	98.454	3.899	3.843	1.014
182	3.826	3.811	100.383	99.317	3.852	3.855	.999
183	3.834	3.804	100.805	99.390	3.858	3.854	1.001
184	3.832	3.798	100.902	99.637	3.846	3.834	1.003
185	3.822	3.792	100.791	100.084	3.818	3.802	1.004
186	3.809	3.785	100.645	101.231	3.763	3.768	.999
187	3.713	3.776	98.316	100.722	3.686	3.745	.984
188	3.767	3.766	100.010	99.987	3.767	3.745	1.006
189	3.744	3.756	99.701	99.447	3.765	3.743	1.006
190	3.738	3.744	99.835	100.086	3.735	3.732	1.001
191	3.728	3.731	99.903	100.791	3.699	3.721	.994
192	3.721	3.718	100.076	100.855	3.689	3.721	.991
193	3.721	3.708	100.349	98.454	3.779	3.734	1.012
194	3.709	3.699	100.275	99.317	3.735	3.732	1.001
195	3.697	3.688	100.234	99.390	3.720	3.719	1.000
196	3.687	3.678	100.241	99.637	3.701	3.689	1.003
197	3.666	3.669	99.920	100.084	3.663	3.658	1.001

Case number	TAJNACDE	Moving averages	Ratios (* 100)	Seasonal factors (* 100)	Seasonally adjusted series	Smoothed trend-cycle	Irregular component
198	3.645	3.661	99.568	101.231	3.601	3.630	.992
199	3.634	3.653	99.471	100.722	3.608	3.621	.996
200	3.628	3.645	99.540	99.987	3.629	3.623	1.002
201	3.626	3.637	99.708	99.447	3.647	3.625	1.006
202	3.617	3.630	99.653	100.086	3.614	3.617	.999
203	3.623	3.624	99.971	100.791	3.594	3.616	.994
204	3.632	3.620	100.342	100.855	3.601	3.623	.994
205	3.626	3.616	100.279	98.454	3.683	3.638	1.013
206	3.608	3.613	99.859	99.317	3.633	3.637	.999
207	3.606	3.610	99.896	99.390	3.628	3.630	1.000
208	3.602	3.607	99.862	99.637	3.615	3.612	1.001
209	3.607	3.605	100.069	100.084	3.604	3.596	1.002
210	3.605	3.601	100.126	101.231	3.561	3.581	.994
211	3.594	3.597	99.938	100.722	3.569	3.580	.997
212	3.587	3.594	99.818	99.987	3.587	3.586	1.000
213	3.591	3.591	99.982	99.447	3.611	3.590	1.006
214	3.594	3.589	100.125	100.086	3.591	3.582	1.002
215	3.585	3.586	99.956	100.791	3.556	3.577	.994
216	3.577	3.582	99.861	100.855	3.547	3.580	.991
217	3.579	3.576	100.097	98.454	3.635	3.597	1.011
218	3.583	3.569	100.404	99.317	3.608	3.604	1.001
219	3.576	3.566	100.296	99.390	3.598	3.599	1.000
220	3.582	3.562	100.552	99.637	3.595	3.578	1.005
221	3.555	3.556	99.964	100.084	3.552	3.549	1.001
222	3.554	3.550	100.101	101.231	3.510	3.522	.997
223	3.498	3.541	98.779	100.722	3.473	3.515	.988
224	3.524	3.531	99.808	99.987	3.524	3.526	.999
225	3.573	3.526	101.341	99.447	3.593	3.537	1.016
226	3.525	3.528	99.932	100.086	3.522	3.524	1.000
227	3.514	3.532	99.482	100.791	3.486	3.504	.995
228	3.495	3.539	98.743	100.855	3.465	3.487	.994
229	3.456	3.543	97.536	98.454	3.510	3.501	1.003
230	3.451	3.545	97.347	99.317	3.474	3.529	.984
231	3.590	3.543	101.315	99.390	3.612	3.575	1.010
232	3.618	3.540	102.215	99.637	3.631	3.605	1.007
233	3.620	3.541	102.225	100.084	3.617	3.602	1.004
234	3.661	3.547	103.203	101.231	3.617	3.579	1.011
235	3.485	.	.	100.722	3.460	3.543	.976
236	3.574	.	.	99.987	3.574	3.533	1.012
237	3.495	.	.	99.447	3.515	3.523	.998
238	3.509	.	.	100.086	3.506	3.529	.993
239	3.570	.	.	100.791	3.542	3.535	1.002
240	3.588	.	.	100.855	3.558	3.538	1.005

ANEXO 36. SERIE DE PRECIOS DE TAJO DE RES AL CONSUMIDOR: Cálculo de la
tendencia lineal.

REGRESSION /VARIABLES STC#1 \$CASENUM /DEPENDENT STC#1 /METHOD ENTER
/RESIDUALS DEFAULTS /SAVE RESID (ERR#2) PRED (FIT#2).

* * * * M U L T I P L E R E G R E S S I O N * * * *

Listwise Deletion of Missing Data

Variable(s) Entered on Step Number
1.. \$CASENUM

Multiple R .11846
R Square .01403
Adjusted R Square .00989
Standard Error .28570

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	.27646	.27646
Residual	238	19.42629	.08162

F = 3.38709 Signif F = .0670

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
\$CASENUM	-4.89889E-04	2.66185E-04	-.11846	-1.840	.0670
(Constant)	3.95152	.03700		106.801	.0000

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	3.8339	3.9510	3.8925	.0340	240
*RESID	-.7551	.5810	-.0000	.2851	240
*ZPRED	-1.7213	1.7213	.0000	1.0000	240
*ZRESID	-2.6430	2.0334	-.0000	.9979	240

Total Cases = 240

Durbin-Watson Test = .01469

ANEXO 37. SERIE DE PRECIOS DE TAJO DE RES AL CONSUMIDOR: Estimación de la duración y amplitud del ciclo con variable ficticia DUMMY. Análisis de residuos.

REGRESSION /VARIABLES DUMMY \$CASENUM STC#1 /DEPENDENT STC#1 /METHOD STEPWISE/RESIDUALS DEFAULTS /SAVE RESID (ERR#3) PRED (FIT#3).

***** MULTIPLE REGRESSION *****

Listwise Deletion of Missing Data
Equation Number 1 Dependent Variable.. STC#1

Variable(s) Entered on Step Number
1.. DUMMY

Multiple R .81215
R Square .65959
Adjusted R Square .65816
Standard Error .16787

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	1	12.99571	12.99571
Residual	238	6.70704	.02818

F = 461.15430 Signif F = .0000

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
DUMMY	.46566	.02168	.81215	21.475	.0000
(Constant)	3.66742	.01508		243.273	.0000

----- Variables not in the Equation -----

Variable	Beta In	Partial	Min Toler	T	Sig T
\$CASENUM	.02115	.03572	.97071	.550	.5827

End Block Number 1 PIN = .050 Limits reached.

Residuals Statistics:

	Min	Max	Mean	Std Dev	N
*PRED	3.6674	4.1331	3.8925	.2332	240
*RESID	-.4744	.3431	-.0000	.1675	240
*ZPRED	-.9652	1.0318	.0000	1.0000	240
*ZRESID	-2.8262	2.0436	-.0000	.9979	240

Total Cases = 240
Durbin-Watson Test = .14338

ANEXO 38. SERIE DE PRECIOS DE TAJOS DE RES AL CONSUMIDOR: Análisis de
varianzas para los períodos 1970-1979 y 1980-1989.

ANEXO 39. TABLA DE CORRELACIONES DE LOS PRECIOS DE CARNE.

SPSS/PC+ The Statistical Package for IBM PC

CORRELATIONS /VARIABLES CANTEXPM FOBKG PPMAYDEF LOMTEGDE TAJTEGDE MOLTEGDE
 COSTTEGD LOMSPSDE TAJSPSDE MOLSPSDE COSTSPSD LOMNACDE TAJNACDE MOLNACDE
 COSTNACD /OPTIONS 2 5 /STATISTICS 1.

Variable	Cases	Mean	Std Dev
CANTEXPM	216	1396.0505	693.7962
FOBKG	240	3.3235	1.1034
PPMAYDEF	132	2.7347	.2205
LOMTEGDE	132	4.5056	.4521
TAJTEGDE	240	3.9711	.3418
MOLTEGDE	132	2.6106	.3398
COSTTEGD	240	2.2952	.2231
LOMSPSDE	132	4.6155	.4688
TAJSPSDE	240	3.7747	.2649
MOLSPSDE	132	3.1655	.2450
COSTSPSD	240	2.1263	.2444
LOMNACDE	132	4.5496	.4165
TAJNACDE	240	3.8925	.2971
MOLNACDE	132	2.8326	.2142
COSTNACD	240	2.2276	.1798

Correlations:	CANTEXPM	FOBK	PPMAYDEF	LOMTEGDE	TAJTEGDE	MOLTEGDE
CANTEXPM	1.0000 (216) P= .	.0162 (216) P= .406	.3731 (108) P= .000	.4112 (132) P= .000	.4472 (216) P= .000	.2463 (132) P= .002
FOBK	.0162 (216) P= .406	1.0000 (240) P= .	-.2557 (132) P= .002	.6835 (132) P= .000	.1365 (240) P= .017	.5729 (132) P= .000
PPMAYDEF	.3731 (108) P= .000	-.2557 (132) P= .002	1.0000 (132) P= .	-.1932 (24) P= .183	.6002 (132) P= .000	.0444 (24) P= .418
LOMTEGDE	.4112 (132) P= .000	.6835 (132) P= .000	-.1932 (24) P= .183	1.0000 (132) P= .	.8275 (132) P= .000	.7100 (132) P= .000
TAJTEGDE	.4472 (216) P= .000	.1365 (240) P= .017	.6002 (132) P= .000	.8275 (132) P= .000	1.0000 (240) P= .	.6250 (132) P= .000
MOLTEGDE	.2463 (132) P= .002	.5729 (132) P= .000	.0444 (24) P= .418	.7100 (132) P= .000	.6250 (132) P= .000	1.0000 (132) P= .
COSTTEGD	.2196 (216) P= .001	.0754 (240) P= .122	.5217 (132) P= .000	.5001 (132) P= .000	.6546 (240) P= .000	.6019 (132) P= .000
LOMSPSDE	.2233 (132) P= .005	.2554 (132) P= .002	.2832 (24) P= .090	.6358 (132) P= .000	.5424 (132) P= .000	.4735 (132) P= .000

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

Correlations:	CANTEXPM	FOBKG	PPMAYDEF	LOMTEGDE	TAJTEGDE	MOLTEGDE
TAJSPSDE	.5010 (216) P= .000	.0264 (240) P= .342	.4569 (132) P= .000	.7480 (132) P= .000	.8048 (240) P= .000	.5993 (132) P= .000
MOLSPSDE	-.2277 (132) P= .004	-.4307 (132) P= .000	.1074 (24) P= .309	-.0607 (132) P= .244	.0847 (132) P= .167	-.1324 (132) P= .065
COSTSPSD	.1327 (216) P= .026	-.6993 (240) P= .000	.1954 (132) P= .012	-.1214 (132) P= .083	.0764 (240) P= .119	-.0226 (132) P= .399
LOMNACDE	.3684 (132) P= .000	.5602 (132) P= .000	-.0265 (24) P= .451	.9377 (132) P= .000	.7833 (132) P= .000	.6757 (132) P= .000

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

Correlations:	CANTEXPM	FOBKG	PPMAYDEF	LOMTEGDE	TAJTEGDE	MOLTEGDE
TAJNACDE	.4883 (216) P= .000	.1036 (240) P= .055	.5756 (132) P= .000	.8321 (132) P= .000	.9773 (240) P= .000	.6420 (132) P= .000
MOLNACDE	.1302 (132) P= .068	.3482 (132) P= .000	.0888 (24) P= .340	.6480 (132) P= .000	.6336 (132) P= .000	.8912 (132) P= .000
COSTNACD	.2341 (216) P= .000	-.3240 (240) P= .000	.4852 (132) P= .000	.3410 (132) P= .000	.5288 (240) P= .000	.4735 (132) P= .000

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

Correlations:	COSTTEGD	LOMSPSDE	TAJSPSDE	MOLSPSDE	COSTSPSD	LOMNACDE
CANTEXPM	.2196 (216) P= .001	.2233 (132) P= .005	.5010 (216) P= .000	-.2277 (132) P= .004	.1327 (216) P= .026	.3684 (132) P= .000
FOBKG	.0754 (240) P= .122	.2554 (132) P= .002	.0264 (240) P= .342	-.4307 (132) P= .000	-.6993 (240) P= .000	.5602 (132) P= .000
PPMAYDEF	.5217 (132) P= .000	.2832 (24) P= .090	.4569 (132) P= .000	.1074 (24) P= .309	.1954 (132) P= .012	-.0265 (24) P= .451
LOMTEGDE	.5001 (132) P= .000	.6358 (132) P= .000	.7480 (132) P= .000	-.0607 (132) P= .244	-.1214 (132) P= .083	.9377 (132) P= .000

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

Correlations:	COSTTEGD	LOMSPSDE	TAJSPSDE	MOLSPSDE	COSTSPSD	LOMNACDE
TAJTEGDE	.6546 (240) P= .000	.5424 (132) P= .000	.8048 (240) P= .000	.0847 (132) P= .167	.0764 (240) P= .119	.7833 (132) P= .000
MOLTEGDE	.6019 (132) P= .000	.4735 (132) P= .000	.5993 (132) P= .000	-.1324 (132) P= .065	-.0226 (132) P= .399	.6757 (132) P= .000
COSTTEGD	1.0000 (240) P= .	.2348 (132) P= .003	.4811 (240) P= .000	-.0266 (132) P= .381	.1860 (240) P= .002	.4315 (132) P= .000
LOMSPSDE	.2348 (132) P= .003	1.0000 (132) P= .	.6559 (132) P= .000	.1803 (132) P= .019	.1490 (132) P= .044	.8644 (132) P= .000

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

Correlations:	COSTTEGD	LOMSPSDE	TAJSPSDE	MOLSPSDE	COSTSPSD	LOMNACDE
TAJSPSDE	.4811 (240) P= .000	.6559 (132) P= .000	1.0000 (240) P= .	.1923 (132) P= .014	.3366 (240) P= .000	.7825 (132) P= .000
MOLSPSDE	-.0266 (132) P= .381	.1803 (132) P= .019	.1923 (132) P= .014	1.0000 (132) P= .	.6382 (132) P= .000	.0416 (132) P= .318
COSTSPSD	.1860 (240) P= .002	.1490 (132) P= .044	.3366 (240) P= .000	.6382 (132) P= .000	1.0000 (240) P= .	-.0120 (132) P= .446
LOMNACDE	.4315 (132) P= .000	.8644 (132) P= .000	.7825 (132) P= .000	.0416 (132) P= .318	-.0120 (132) P= .446	1.0000 (132) P= .

(Coefficient / (Cases) / 1-tailed Significance)
 ". " is printed if a coefficient cannot be computed

Correlations:	COSTTEGD	LOMSPSDE	TAJSPSDE	MOLSPSDE	COSTSPSD	LOMNACDE
TAJNACDE	.6235 (240) P= .000	.6106 (132) P= .000	.9122 (240) P= .000	.1308 (132) P= .068	.1728 (240) P= .004	.8170 (132) P= .000
MOLNACDE	.5607 (132) P= .000	.5331 (132) P= .000	.6584 (132) P= .000	.3316 (132) P= .000	.2705 (132) P= .001	.6621 (132) P= .000
COSTNACD	.8454 (240) P= .000	.2652 (132) P= .001	.5410 (240) P= .000	.3044 (132) P= .000	.6820 (240) P= .000	.3415 (132) P= .000

(Coefficient / (Cases) / 1-tailed Significance)
 ". " is printed if a coefficient cannot be computed

Correlations:	TAJNACDE	MOLNACDE	COSTNACD
CANTEXPM	.4883 (216) P= .000	.1302 (132) P= .068	.2341 (216) P= .000
FOBKG	.1036 (240) P= .055	.3482 (132) P= .000	-.3240 (240) P= .000
PPMAYDEF	.5756 (132) P= .000	.0888 (24) P= .340	.4852 (132) P= .000
LOMTEGDE	.8321 (132) P= .000	.6480 (132) P= .000	.3410 (132) P= .000

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

Correlations:	TAJNACDE	MOLNACDE	COSTNACD
TAJTEGDE	.9773 (240) P= .000	.6336 (132) P= .000	.5288 (240) P= .000
MOLTEGDE	.6420 (132) P= .000	.8912 (132) P= .000	.4735 (132) P= .000
COSTTEGD	.6235 (240) P= .000	.5607 (132) P= .000	.8454 (240) P= .000
LOMSPSDE	.6106 (132) P= .000	.5331 (132) P= .000	.2652 (132) P= .001

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

Correlations:	TAJNACDE	MOLNACDE	COSTNACD
TAJSPSDE	.9122 (240) P= .000	.6584 (132) P= .000	.5410 (240) P= .000
MOLSPSDE	.1308 (132) P= .068	.3316 (132) P= .000	.3044 (132) P= .000
COSTSPSD	.1728 (240) P= .004	.2705 (132) P= .001	.6820 (240) P= .000
LOMNACDE	.8170 (132) P= .000	.6621 (132) P= .000	.3415 (132) P= .000

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

Correlations:	TAJNACDE	MOLNACDE	COSTNACD
TAJNACDE	1.0000 (240) P= .	.6709 (132) P= .000	.5580 (240) P= .000
MOLNACDE	.6709 (132) P= .000	1.0000 (132) P= .	.5899 (132) P= .000
COSTNACD	.5580 (240) P= .000	.5899 (132) P= .000	1.0000 (240) P= .

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

ANEXO 40. CORRELACIONES Y ANALISIS DE VARIANZA PARA LOS INDICES ESTACIONALES DE SERIES DE PRECIOS DE CARNE.

CORRELATIONS /VARIABLES FOB MAY LOMO MOL COST TAJ /OPTIONS 5 /STATISTICS 1.

Variable	Cases	Mean	Std Dev
FOB	12	99.9999	2.1131
MAY	12	100.0000	1.7061
LOMO	12	100.0000	1.4667
MOL	12	99.9999	2.5636
COST	12	100.0001	.8041
TAJ	12	100.0001	.8019

Correlations:

	FOB	MAY	LOMO	MOL	COST	TAJ
FOB	1.0000 (12) P= .	.6126 (12) P= .017	-.1566 (12) P= .313	-.3360 (12) P= .143	-.5029 (12) P= .048	-.4363 (12) P= .078
MAY	.6126 (12) P= .017	1.0000 (12) P= .	-.0433 (12) P= .447	-.3957 (12) P= .101	-.0292 (12) P= .464	-.2039 (12) P= .262
LOMO	-.1566 (12) P= .313	-.0433 (12) P= .447	1.0000 (12) P= .	.8146 (12) P= .001	.5331 (12) P= .037	.8812 (12) P= .000
MOL	-.3360 (12) P= .143	-.3957 (12) P= .101	.8146 (12) P= .001	1.0000 (12) P= .	.5830 (12) P= .023	.9066 (12) P= .000
COST	-.5029 (12) P= .048	-.0292 (12) P= .464	.5331 (12) P= .037	.5830 (12) P= .023	1.0000 (12) P= .	.7796 (12) P= .001
TAJ	-.4363 (12) P= .078	-.2039 (12) P= .262	.8812 (12) P= .000	.9066 (12) P= .000	.7796 (12) P= .001	1.0000 (12) P= .

(Coefficient / (Cases) / 1-tailed Significance)
 " . " is printed if a coefficient cannot be computed

Function: ANOVA-2
 Data case 1 to 72

Two-way Analysis of Variance over
 variable 3 (rep) with values from 1 to 6 and over
 variable 1 (mes) with values from 1 to 12.

Variable 2: Indice

A N A L Y S I S O F V A R I A N C E T A B L E

Source	Degrees of Freedom	Sum of Squares	Mean Square	F-value	Prob
rep	5	0.78	0.156	0.05	0.9984
mes	11	30.50	2.773	0.89	0.5547
Error	55	171.21	3.113		
Non-additivity	1	5.13	5.131	1.67	
Residual	54	166.08	3.076		
Total	71	202.50			

Grand Mean= 99.996 Grand Sum= 7199.678 Total Count= 72

Coefficient of Variation= 1.76%

Means for variable 2 (Indice)
 for each level of variable 3 (rep):

Var 3 Value	Var 2 Mean
1	100.000
2	100.167
3	100.000
4	99.806
5	100.000
6	100.000

Means for variable 2 (Indices) for each level of variable 1 (mes):

Var 1 Value	Var 2 Mean
1	98.720
2	99.813
3	99.763
4	99.936
5	100.163
6	100.567
7	99.394
8	99.296
9	99.909
10	101.013
11	100.969
12	100.405

Error Mean Square = 3.113
 Error Degrees of Freedom = 55
 No. of observations to calculate a mean = 6

Duncan's Multiple Range Test
 LSD value = 2.718
 s_x = 0.7203 at alpha = 0.010

Original	Order	Mean	Ranked	Order	Mean		
Mean	1 =	98.73	A	Mean	10 =	101.0	A
Mean	2 =	99.82	A	Mean	11 =	101.0	A
Mean	3 =	99.77	A	Mean	6 =	100.6	A
Mean	4 =	99.94	A	Mean	12 =	100.4	A
Mean	5 =	100.2	A	Mean	5 =	100.2	A
Mean	6 =	100.6	A	Mean	4 =	99.94	A
Mean	7 =	99.40	A	Mean	9 =	99.91	A
Mean	8 =	99.30	A	Mean	2 =	99.82	A
Mean	9 =	99.91	A	Mean	3 =	99.77	A
Mean	10 =	101.0	A	Mean	7 =	99.40	A
Mean	11 =	101.0	A	Mean	8 =	99.30	A
Mean	12 =	100.4	A	Mean	1 =	98.73	A