

33348

VI

ESTUDIO DEL SISTEMA ELECTRICO PROVINCIAL  
PROVINCIA DE LA PAMPA

Informe n.º 2 - Anexo - Tomo II

Análisis del Mercado Eléctrico - Demanda



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ANIO	TOTAL	PRED	L95	U95	RESID
1972	40560	49377	41820	50299	-817
1973	51638	54627	46622	64476	-3189
1974	57213	60379	51941	71355	-3666
1975	76326	67593	57827	79022	-1272
1976	76621	75750	64333	87576	1561
1977	37972	83345	71516	97130	4557
1978	59862	92545	79441	107809	7023
1979	113631	102759	86176	119755	10272
1980	127728	114102	97795	133128	13226
1981	123357	126696	106581	143107	-3339
1982	135515	146661	120027	164850	-7065
1983	145764	155209	132831	183702	-10445
1984	165011	173452	146506	204195	-3441
1985	.	192597	162375	228644	.
1986	.	213856	179372	254969	.
1987	.	237461	198047	284713	.
1988	.	263671	216565	318066	.
1989	.	292775	241108	355516	.
1990	.	325092	265875	397497	.
1991	.	360975	293096	444509	.
1992	.	406819	322933	497413	.
1993	.	445061	355831	556666	.
1994	.	494186	391923	623132	.
1995	.	548734	431510	697690	.
1996	.	609303	475154	781325	.
1997	.	676557	523034	875143	.
1998	.	751235	575644	980306	.
1999	.	834155	633453	1095447	.
2000	.	926223	696975	1230559	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=TOTAL PROVINCIAL

DEP VARIABLE: TOTAL

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.09915435	1.09915435	446.561	0.0001
ERROR	11	0.04914006	0.004467825		
C TOTAL	12	2.14830042			

ADJUSTED MEAN	0.056364179	R-SQUARE	0.9760
DEP MEAN	11.45345	ADJ R-SQ	0.9738
C.V.	1.765141		

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEPT	1	-195.66399	9.80030191	-19.965	0.0001
ANNO	1	0.1347014	0.0066954643	21.132	0.0001

YRS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	10.7908	10.8072	0.0350	10.7301	10.8343	10.6411	10.9733	-0.0167	0.0569
2	1973	10.5520	10.5115	0.1359	10.4430	10.5800	10.7495	11.0741	-0.0599	0.0592
3	1974	10.9545	11.0150	0.0271	10.9569	11.0764	10.8579	11.1754	-0.0621	0.0611
4	1975	11.1023	11.1213	0.0236	11.0690	11.1736	10.9652	11.2705	-0.0190	0.0625
5	1976	11.2469	11.2300	0.0210	11.1796	11.2723	11.0716	11.3803	-0.0200	0.0635
6	1977	11.3840	11.3307	0.0192	11.2835	11.4730	11.1777	11.4838	0.0532	0.0640
7	1978	11.5086	11.4354	0.0195	11.3946	11.4762	11.2928	11.5831	0.0732	0.0642
8	1979	11.6359	11.5401	0.0192	11.4979	11.5824	11.3871	11.6932	0.0953	0.0640
9	1980	11.7577	11.6443	0.0210	11.5986	11.6811	11.4906	11.7891	0.1113	0.0635
10	1981	11.7226	11.7495	0.0236	11.6973	11.8018	11.5934	11.9057	-0.0267	0.0625
11	1982	11.8027	11.8543	0.0271	11.7945	11.9140	11.6955	12.0130	-0.0515	0.0611
12	1983	11.8897	11.9590	0.0309	11.8928	12.0271	11.7962	12.1211	-0.0692	0.0592
13	1984	12.1136	12.0337	0.0350	11.9865	12.1408	11.8976	12.2298	-0.0499	0.0569
14	1985		12.1684	0.0393	12.0818	12.2545	11.9977	12.3390		
15	1986		12.2731	0.0438	12.1767	12.3694	12.0972	12.4469		
16	1987		12.3778	0.0483	12.2715	12.4840	12.1963	12.5593		
17	1988		12.4825	0.0529	12.3660	12.5969	12.2948	12.6701		
18	1989		12.5872	0.0576	12.4605	12.7139	12.3930	12.7813		
19	1990		12.6919	0.0623	12.5548	12.8289	12.4908	12.8929		

## ESTACION=TOTAL PROVINCIAL

035	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	12.7465	0.0570	12.6490	12.9441	12.5882	13.0049	.	.
21	1992	.	12.9013	0.0716	12.7432	13.0593	12.6656	13.1172	.	.
22	1993	.	13.0060	0.0766	12.8374	13.1746	12.7922	13.2297	.	.
23	1994	.	13.1197	0.0814	12.9315	13.2699	12.8768	13.3425	.	.
24	1995	.	13.2154	0.0962	13.0255	13.4052	12.9752	13.4555	.	.
25	1996	.	13.3201	0.0911	13.1196	13.5206	13.0714	13.5697	.	.
26	1997	.	13.4246	0.0959	13.2136	13.5359	13.1674	13.6821	.	.
27	1998	.	13.5275	0.1003	13.3676	13.7514	13.2632	13.7957	.	.
28	1999	.	13.6342	0.1057	13.4016	13.8668	13.3589	13.9094	.	.
29	2000	.	13.7389	0.1106	13.4955	13.9822	13.4545	14.0232	.	.
095	ID	STUDENT RESIDUAL	-2-1-0 1 2		COOK'S D					
1	1972	-0.2930			0.016					
2	1973	-1.0114			0.139					
3	1974	-1.0167			0.192					
4	1975	-0.3842			0.007					
5	1976	0.3244			0.006					
6	1977	0.2314			0.031					
7	1978	1.1391			0.054					
8	1979	1.4830			0.099					
9	1980	1.7779			0.173					
10	1981	-0.4275			0.013					
11	1982	-0.2436			0.072					
12	1983	-1.1581			0.155					
13	1984	-0.8764			0.145					
14	1985	.			.					
15	1986	.			.					
16	1987	.			.					
17	1988	.			.					
18	1989	.			.					
19	1990	.			.					
20	1991	.			.					
21	1992	.			.					
22	1993	.			.					
23	1994	.			.					
24	1995	.			.					
25	1996	.			.					
26	1997	.			.					
27	1998	.			.					
28	1999	.			.					
29	2000	.			.					

SUM OF SQUARED RESIDUALS

SUM OF SQUARED RESIDUALS

PREDICTED RESIDUALS (PRESS)

-3.26400E-13

0.04914605

0.00620129

CURBIN-MATSON D

(FOR NUMBER OF OBS.)

0.576

13

1ST ORDER AUTOCORRELATION 0.684

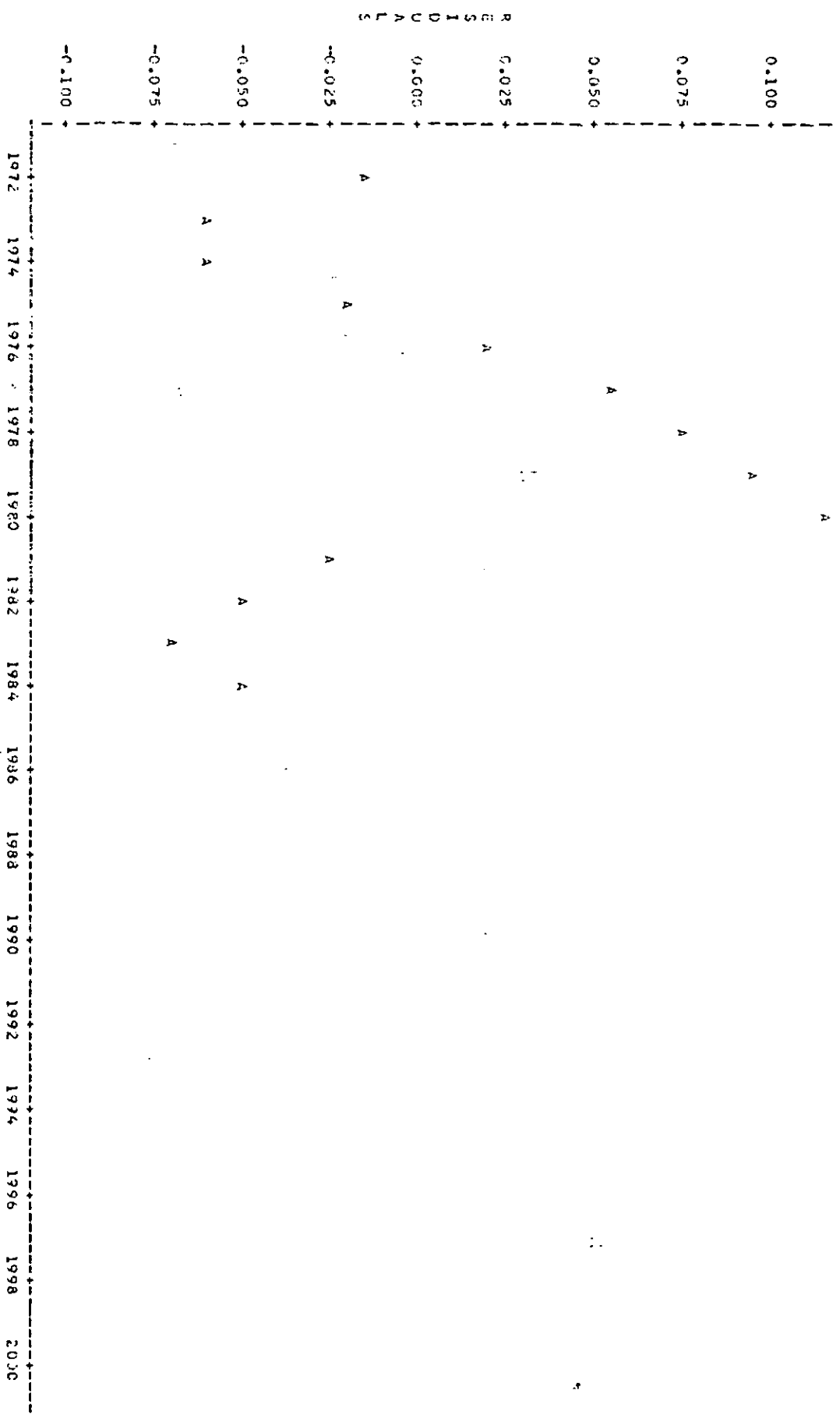
PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=TOTAL PROVINCIAL

PROVINCIA DE LA PAMPA  
 SERIE HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 TOTAL

ESTACION=TOTAL PROVINCIAL

PLOT OF RESIDUANTO      LEGEND: A = 1 085, B = 2 085, ETC.



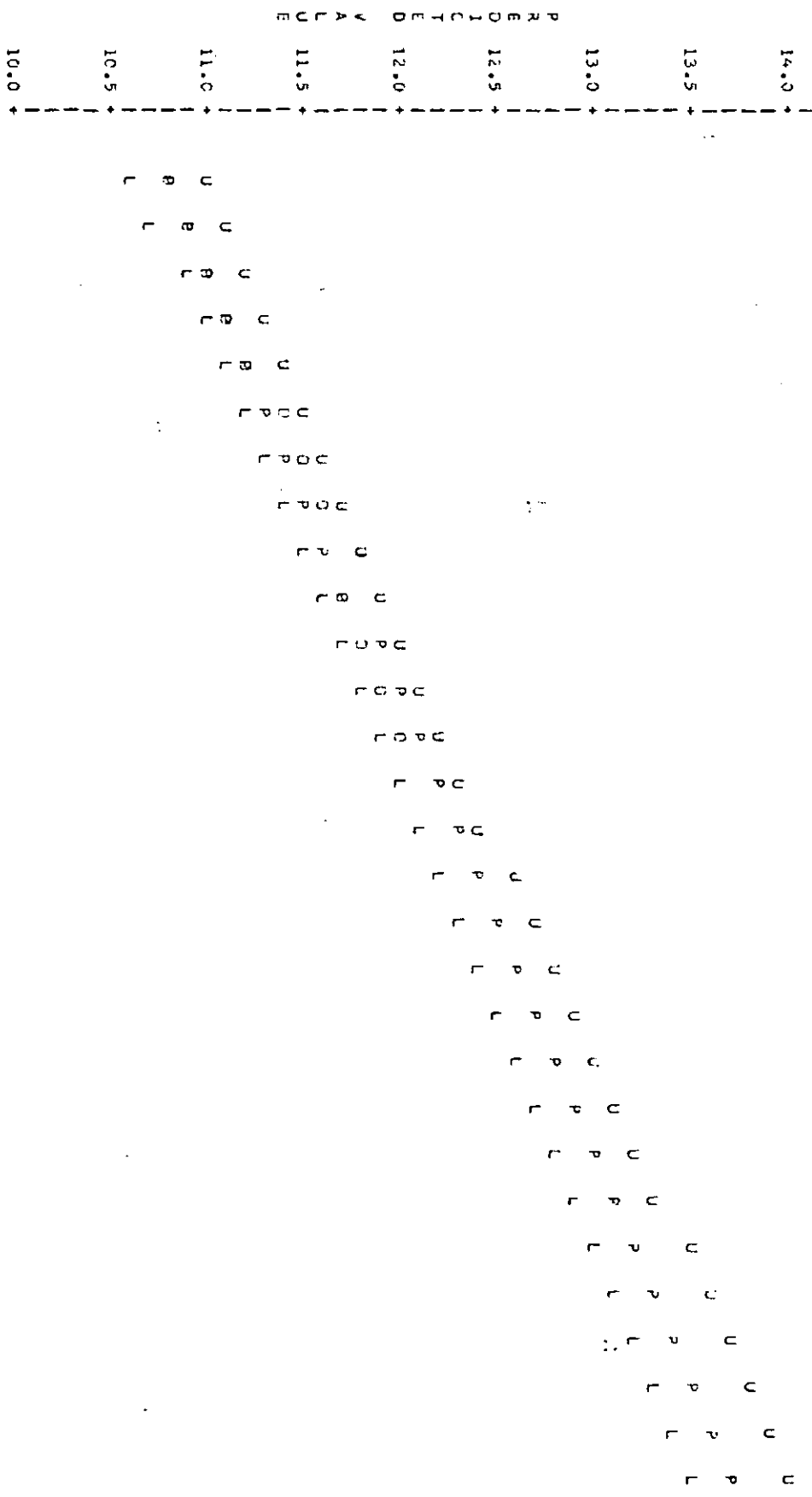
NOTE: 16 OBS HAD MISSING VALUES

AÑO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 TOTAL

ESTACION=TOTAL PROVINCIAL

PLOT OF TOTAL\*ANIO SYMBOL USED IS O  
 PLOT OF PRE\*ANIO SYMBOL USED IS P  
 PLOT OF LG\*ANIO SYMBOL USED IS L  
 PLOT OF UG\*ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=TOTAL PROVINCIAL

PLOT OF RESIDUANDO      LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

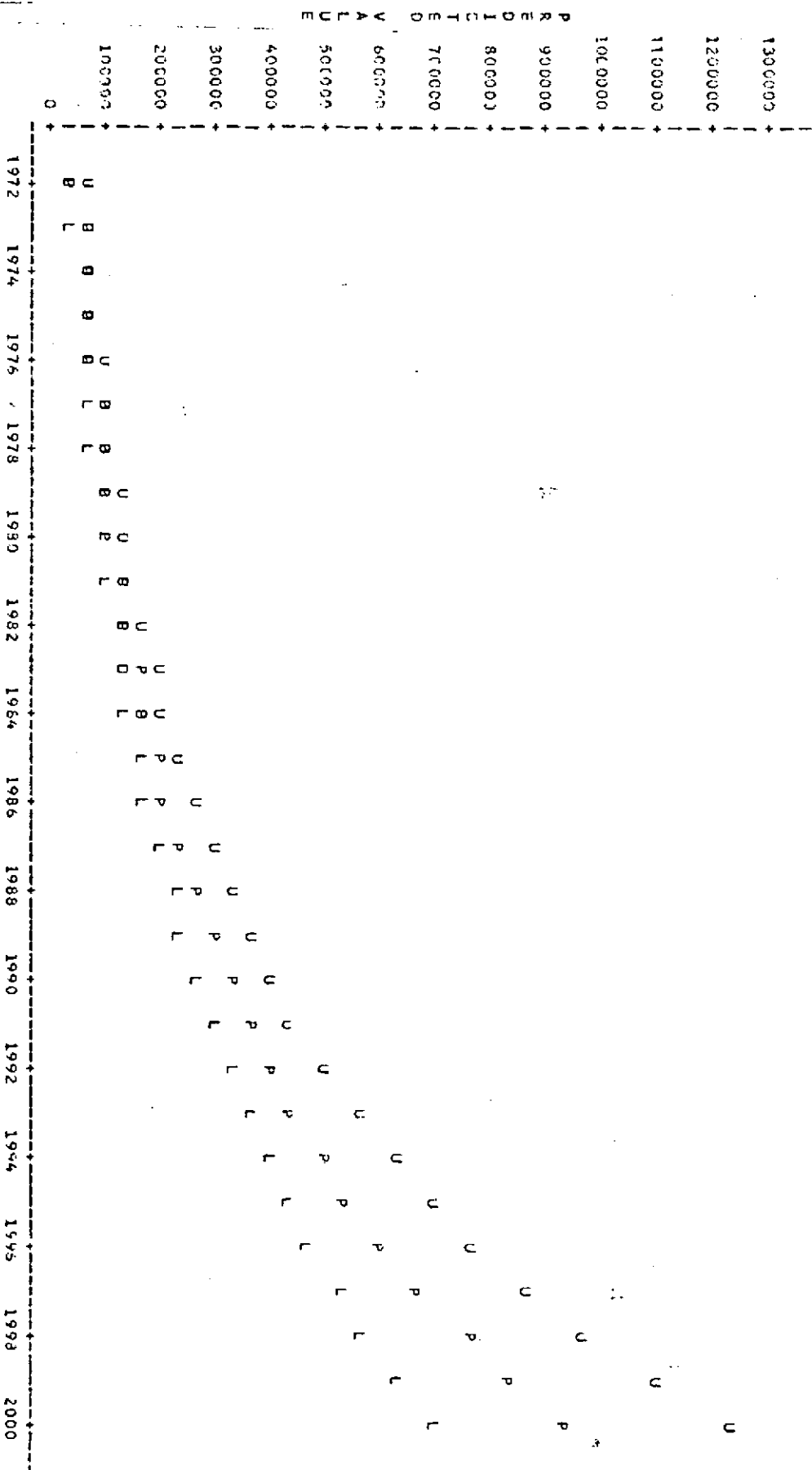
AÑO



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=TOTAL PROVINCIAL

PLOT OF TOTAL\*ANIO SYMBOL USED IS O  
PLOT OF PRED\*ANIO SYMBOL USED IS P  
PLOT OF L95\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U



NOTE:

16 OBS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACIONEALICO

ANIO	TOTAL	PRED	L95	U95	RESID
1972	3235	3363.7	2705.2	4194.9	-133.71
1973	3609	3735.1	3015.3	4626.7	-127.09
1974	3837	4161.3	3359.0	5107.4	-304.32
1975	4283	4591.7	3736.2	5543.1	-308.72
1976	5295	5091.1	4153.0	6241.1	204.39
1977	6490	5644.8	4611.8	6909.3	845.13
1978	6958	6253.7	5116.0	7656.8	729.26
1979	8676	6939.4	5669.5	8493.9	1130.56
1980	6990	7694.2	6276.5	9432.1	-704.17
1981	8549	8531.0	6641.5	10484.4	118.02
1982	9148	9459.8	7669.6	11665.4	-310.80
1983	10016	10487.5	8466.4	12991.2	-471.53
1984	10971	11629.1	9337.9	14480.1	-657.14
1985	.	12892.8	10290.9	16152.5	.
1986	.	14295.0	11332.9	18031.4	.
1987	.	15849.7	12471.9	20142.4	.
1988	.	17573.5	13717.0	22514.4	.
1989	.	19434.8	15078.0	25179.6	.
1990	.	21604.0	16565.8	28174.4	.
1991	.	23953.6	18192.2	31539.6	.
1992	.	26553.8	19970.2	35321.1	.
1993	.	29447.3	21913.9	39570.3	.
1994	.	32649.9	24039.0	44345.3	.
1995	.	36230.9	26362.5	49711.1	.
1996	.	40138.1	28962.8	55746.8	.
1997	.	44503.5	31630.4	62516.9	.
1998	.	49343.6	34717.4	70131.7	.
1999	.	54710.2	38039.3	78689.4	.
2000	.	60650.4	41669.4	88366.8	.

DEP VARIABLE: TOTAL

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=REALICO

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR>F
MODEL	1	1.43940223	1.43940223	248.987	0.0001
ERROR	11	0.08570292	0.007791174		
C TOTAL	12	2.02560515			
ROOT MSE		0.0886763	R-SQUARE	0.9577	
DEP MEAN		8.761735	ADJ R-SQ	0.9539	
C.V.		1.009727			

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PR> T
INTERCEP	1	-145.46992	12.94174460	-15.104	0.0001
ANNO	1	0.1032416	0.006542832	15.779	0.0001

ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	8.0918	0.0463	8.0205	8.2241	7.9039	8.3416	-0.0409	0.0752
2	1973	8.1929	0.0409	8.1356	8.3155	8.0114	8.4396	-0.1343	0.0782
3	1974	8.2824	0.0358	8.2499	8.4075	8.1191	8.5384	-0.1253	0.0807
4	1975	8.3524	0.0314	8.3629	8.5011	8.2258	8.6382	-0.0596	0.0825
5	1976	8.4747	0.0276	8.4742	8.5663	8.3116	8.7369	0.0035	0.0839
6	1977	8.7847	0.0253	8.5827	8.6943	8.4364	8.8406	0.1395	0.0846
7	1978	8.8619	0.0245	8.6879	8.7956	8.5401	8.9423	0.1102	0.0848
8	1979	8.9567	0.0253	8.7692	8.9007	8.6429	9.0471	0.1517	0.0846
9	1980	8.8522	0.0279	8.3871	8.9093	8.7446	9.1519	-0.0969	0.0838
10	1981	9.0515	0.0314	8.9824	9.1205	8.7446	9.2516	0.0137	0.0825
11	1982	9.1213	0.0358	9.0758	9.2336	8.9450	9.3544	-0.0334	0.0807
12	1983	9.2579	0.0409	9.1630	9.3479	9.0439	9.4720	-0.0460	0.0792
13	1984	9.4119	0.0463	9.2594	9.4630	9.1418	9.5805	-0.0582	0.0752
14	1985	9.3030	0.0519	9.3501	9.5787	9.2390	9.6898	-0.0582	0.0752
15	1986	9.4644	0.0577	9.4405	9.6949	9.3355	9.7997	-0.0582	0.0752
16	1987	9.5677	0.0638	9.5305	9.8113	9.4312	9.9106	-0.0582	0.0752
17	1988	9.7741	0.0699	9.6204	9.9279	9.5264	10.0219	-0.0582	0.0752
18	1989	9.8774	0.0760	9.7101	10.0447	9.6210	10.1338	-0.0582	0.0752
19	1990	9.9806	0.0822	9.7996	10.1616	9.7151	10.2462	-0.0582	0.0752

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=REALICU

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	10.0839	0.0885	9.8891	10.2787	9.8097	10.3590	.	.
21	1992	.	10.1871	0.0948	9.9784	10.3956	9.9020	10.4712	.	.
22	1993	.	10.2904	0.1011	10.0877	10.5130	9.9949	10.5858	.	.
23	1994	.	10.3938	0.1075	10.1570	10.6302	10.0874	10.6998	.	.
24	1995	.	10.4965	0.1139	10.2462	10.7475	10.1797	10.8140	.	.
25	1996	.	10.6001	0.1203	10.3353	10.8648	10.2717	10.9285	.	.
26	1997	.	10.7033	0.1267	10.4245	10.9822	10.3635	11.0432	.	.
27	1998	.	10.8069	0.1331	10.5136	11.0996	10.4550	11.1551	.	.
28	1999	.	10.9093	0.1396	10.6026	11.2170	10.5463	11.2733	.	.
29	2000	.	11.0137	0.1460	10.6917	11.3344	10.6375	11.3635	.	.

OBS ID STUDENT  
RESIDUAL -2-1-0 1 2  
CORR'S 0

1	1972	-0.5385	*	0.055
2	1973	-0.4425		0.027
3	1974	-0.9462		0.068
4	1975	-0.8436	*	0.051
5	1976	0.2739		0.012
6	1977	1.6504	***	0.142
7	1978	1.2996		0.070
8	1979	1.7939	**	0.145
9	1980	-1.1455		0.072
10	1981	0.1965		0.002
11	1982	-0.4144		0.017
12	1983	-0.5860	*	0.047
13	1984	-0.7739		0.013
14	1985	.	.	.
15	1986	.	.	.
16	1987	.	.	.
17	1988	.	.	.
18	1989	.	.	.
19	1990	.	.	.
20	1991	.	.	.
21	1992	.	.	.
22	1993	.	.	.
23	1994	.	.	.
24	1995	.	.	.
25	1996	.	.	.
26	1997	.	.	.
27	1998	.	.	.
28	1999	.	.	.
29	2000	.	.	.

SUM OF RESIDUALS -3.44391E-13  
SUM OF SQUARED RESIDUALS 0.08570292  
PREDICTED RESID SS (PRESS) 0.1094317

DURBIN-WATSON D 1.193  
(FOR NUMBER OF OBS.) 13

1ST ORDER AUTOCORRELATION 0.374

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL  
ESTACION=REALICO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=REALICO

PLOT OF RESIDU\*ANIO      LEGEND: A = 1 OBS, B = 2 OBS, ETC.

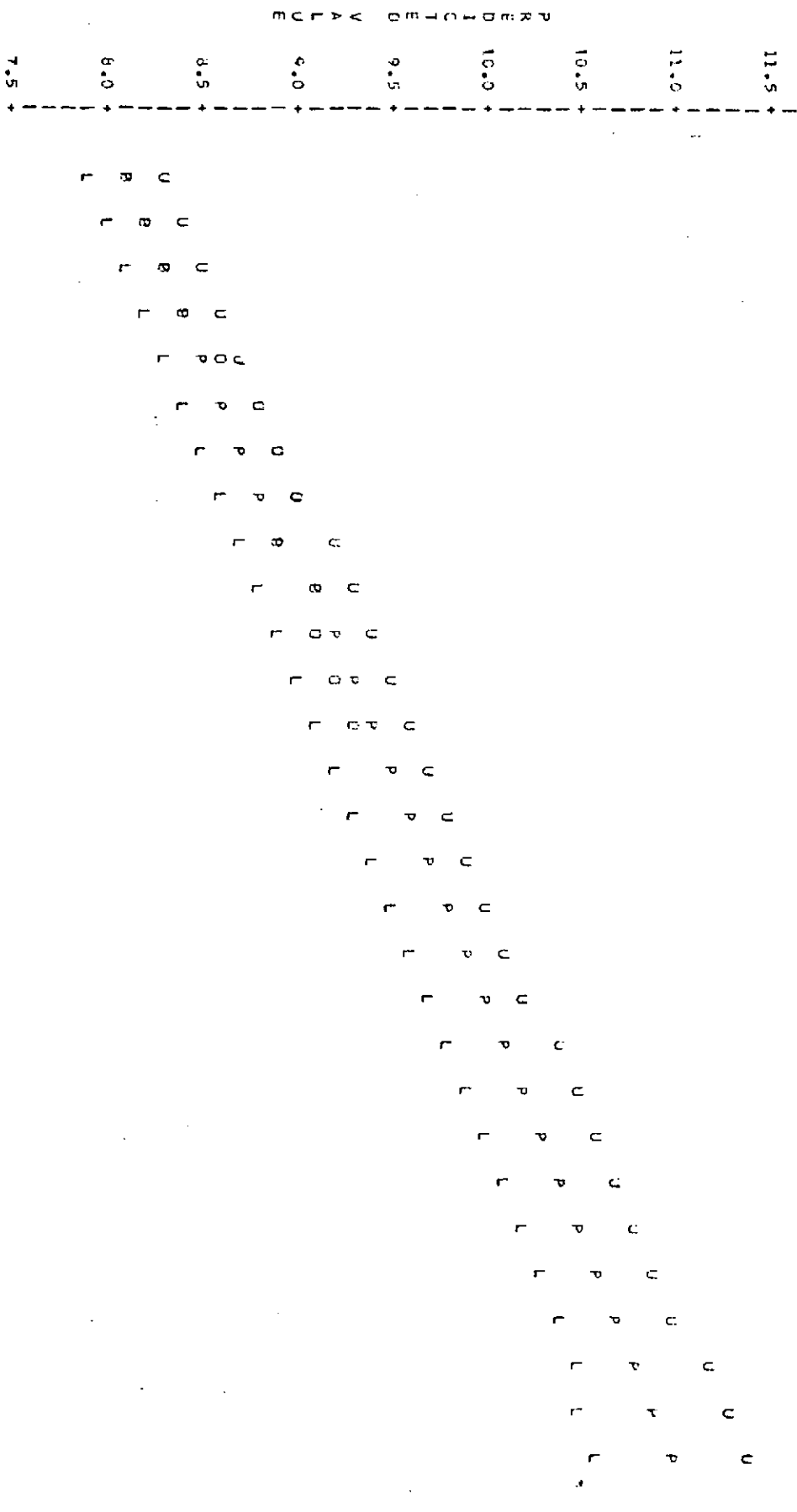


NOTE: 16 OBS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=REALICO

PLOT OF TOTAL ANIO SYMBOL USED IS U  
PLOT OF PRECIPITACION SYMBOL USED IS P  
PLOT OF LUGAR ANIO SYMBOL USED IS L  
PLOT OF OTRAS ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=REALICO

PLOT OF RESIDU\*ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.

A



NOTE: 16 OBS HAD MISSING VALUES

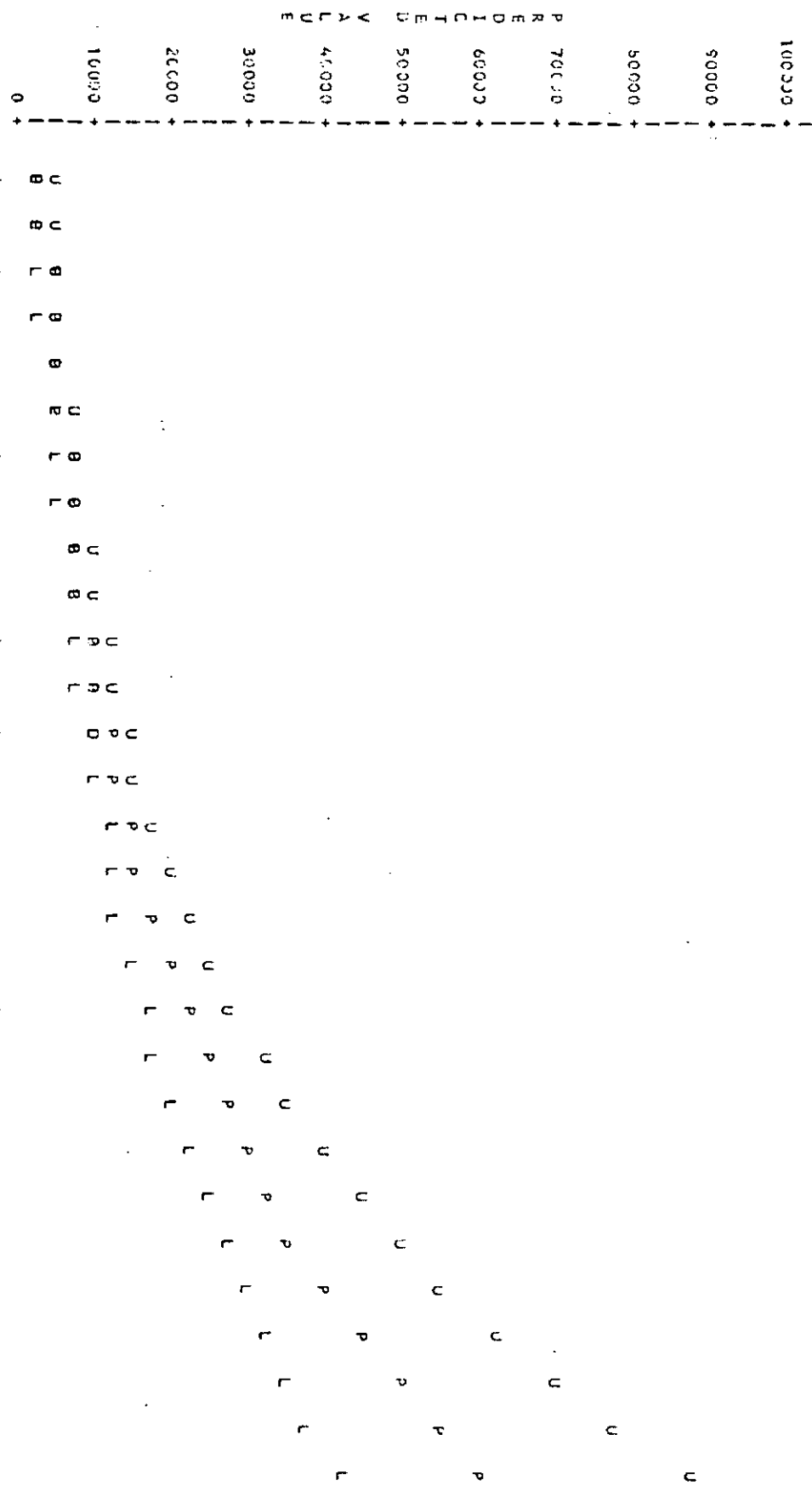
ANIO



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 TOTAL

ESTACION=REALICO

PLDT OF TOTAL\*ANIO SYMBOL USED IS 0  
 PLDT LE PREU\*ANIO SYMBOL USED IS P  
 PLDT OF 195\*ANIO SYMBOL USED IS L  
 PLDT OF 195\*ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
TOTAL

-----ESTIMACION=GRAL. PICO-----

ANIO	TOTAL	PRED	L95	U95	RESID
1972	15911	16403	12193	22059	-492.3
1973	16101	15197	13623	24297	-2095.6
1974	13254	20186	15208	26794	-1931.9
1975	21002	22893	16950	29593	-1390.7
1976	26739	24841	18897	32706	1698.2
1977	30534	27556	20973	36206	2977.5
1978	34910	30589	23282	40136	4340.9
1979	39570	33911	25910	44555	5759.0
1980	43190	37919	28572	49529	7571.7
1981	39702	41731	31590	55131	-2023.0
1982	44667	46293	34976	61448	-1646.2
1983	46613	51354	38459	65572	-4736.1
1984	49300	56968	42362	76611	-7668.4
1985	.	63195	46610	85656	.
1986	.	70105	51233	95930	.
1987	.	77770	56263	107496	.
1988	.	86372	61737	120557	.
1989	.	95703	67692	135307	.
1990	.	106106	74171	151963	.
1991	.	117773	81231	170774	.
1992	.	130649	89932	192018	.
1993	.	146731	97240	216012	.
1994	.	160776	106325	243110	.
1995	.	178352	116213	273717	.
1996	.	197851	125975	309287	.
1997	.	215480	135639	347336	.
1998	.	243475	151440	391443	.
1999	.	270093	165319	441268	.
2000	.	299620	180428	497553	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL. PICO

JEP VARIABLE: TOTAL

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.95910601	1.95910601	137.848	0.0001
ERROR	11	0.1263313	0.01148210		
C TOTAL	12	2.11543914			
ROOT MSE		0.1192145	R-SQUARE	0.9261	
DEP MEAN		10.32774	ADJ R-SQ	0.9194	
C.V.		1.154313			

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0:	PROB >  T
INTERCEP	1	-194.89220	17.47915933	-11.150	0.0001
ANIO	1	0.10375123	0.008836763	11.741	0.0001

ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	9.6748	9.7052	0.0925	9.5677	9.8426	9.4090	10.0015	-0.0305	0.1015
2	9.6365	9.6990	0.0552	9.6375	9.9305	9.3148	10.0991	-0.1224	0.1057
3	9.9121	9.9127	0.0464	9.9062	10.0193	9.6295	10.1959	-0.1006	0.1089
4	9.9524	10.0165	0.0424	9.9232	10.1098	9.7380	10.2950	-0.0641	0.1114
5	10.1939	10.1202	0.0375	10.0377	10.2028	9.8452	10.3953	-0.0730	0.1132
6	10.3266	10.2240	0.0342	10.1437	10.2993	9.9510	10.4970	-0.1020	0.1142
7	10.4605	10.3277	0.0331	10.2550	10.4005	10.0554	10.6000	-0.1328	0.1145
8	10.5484	10.4315	0.0342	10.3562	10.5068	10.1585	10.7045	-0.1559	0.1142
9	10.7186	10.5352	0.0375	10.4527	10.6178	10.2602	10.8103	-0.1834	0.1132
10	10.5993	10.6390	0.0424	10.5457	10.7323	10.3605	10.9175	-0.0497	0.1114
11	10.7021	10.7427	0.0454	10.6362	10.8493	10.4595	11.0259	-0.0407	0.1069
12	10.7457	10.8465	0.0552	10.7252	10.9680	10.5574	11.1356	-0.0966	0.1057
13	10.8057	10.9503	0.0525	10.8127	11.0678	10.6540	11.2465	-0.1440	0.1015
14		11.0540	0.0701	10.9860	11.1203	10.7496	11.3554		
15		11.1578	0.0763	10.9860	11.3295	10.8441	11.4714		
16		11.2015	0.0861	11.0719	11.4511	10.9378	11.5852		
17		11.3653	0.0944	11.1570	11.5729	11.0306	11.6999		
18		11.4090	0.1027	11.2430	11.6950	11.1227	11.8153		
19		11.5728	0.1111	11.3283	11.8172	11.2141	11.9314		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACIONEAL. PICO

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	11.6755	0.1195	11.4134	11.9395	11.3049	12.0481	.	.
21	1992	.	11.7803	0.1231	11.4934	12.0621	11.3952	12.1653	.	.
22	1993	.	11.8840	0.1366	11.5933	12.1847	11.4649	12.2831	.	.
23	1994	.	11.9672	0.1452	11.6682	12.3074	11.5743	12.4013	.	.
24	1995	.	12.0915	0.1538	11.7530	12.4301	11.6632	12.5199	.	.
25	1996	.	12.1955	0.1525	11.8377	12.5528	11.7517	12.6383	.	.
26	1997	.	12.2947	0.1711	11.9214	12.6757	11.8400	12.7580	.	.
27	1998	.	12.4026	0.1793	12.0070	12.7955	11.9219	12.8775	.	.
28	1999	.	12.5065	0.1885	12.0916	12.9214	12.0156	12.9974	.	.
29	2000	.	12.6103	0.1972	12.1762	13.0443	12.1031	13.1175	.	.

OBS ID STUDENT  
RESIDUAL

-2-1-0 1 2

COOK'S  
D

1	1972	-0.3601				0.017
2	1973	-1.1576				0.183
3	1974	-0.9234				0.064
4	1975	-0.5754				0.024
5	1976	0.6507				0.023
6	1977	0.6985				0.036
7	1978	1.1593				0.056
8	1979	1.3736				0.085
9	1980	1.6209				0.144
10	1981	-0.4459				0.014
11	1982	-0.3735				0.014
12	1983	-0.5157				0.114
13	1984	-1.4240				0.384
14	1985	.				.
15	1986	.				.
16	1987	.				.
17	1988	.				.
18	1989	.				.
19	1990	.				.
20	1991	.				.
21	1992	.				.
22	1993	.				.
23	1994	.				.
24	1995	.				.
25	1996	.				.
26	1997	.				.
27	1998	.				.
28	1999	.				.
29	2000	.				.

SUM OF RESIDUALS  
SUM OF SQUARED RESIDUALS  
PREDICTED RESIDU SS (PRESS)

-3.6148E-13  
0.1563331  
0.216932

DUKGIN-WATSON C  
(FOR NUMBER OF OBS.1

0.559  
13

1ST ORDER AUTOCORRELATION 0.636

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL. PICO

PROVINCIA DE LA PAPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL. PICO

PLOT OF RESID=ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



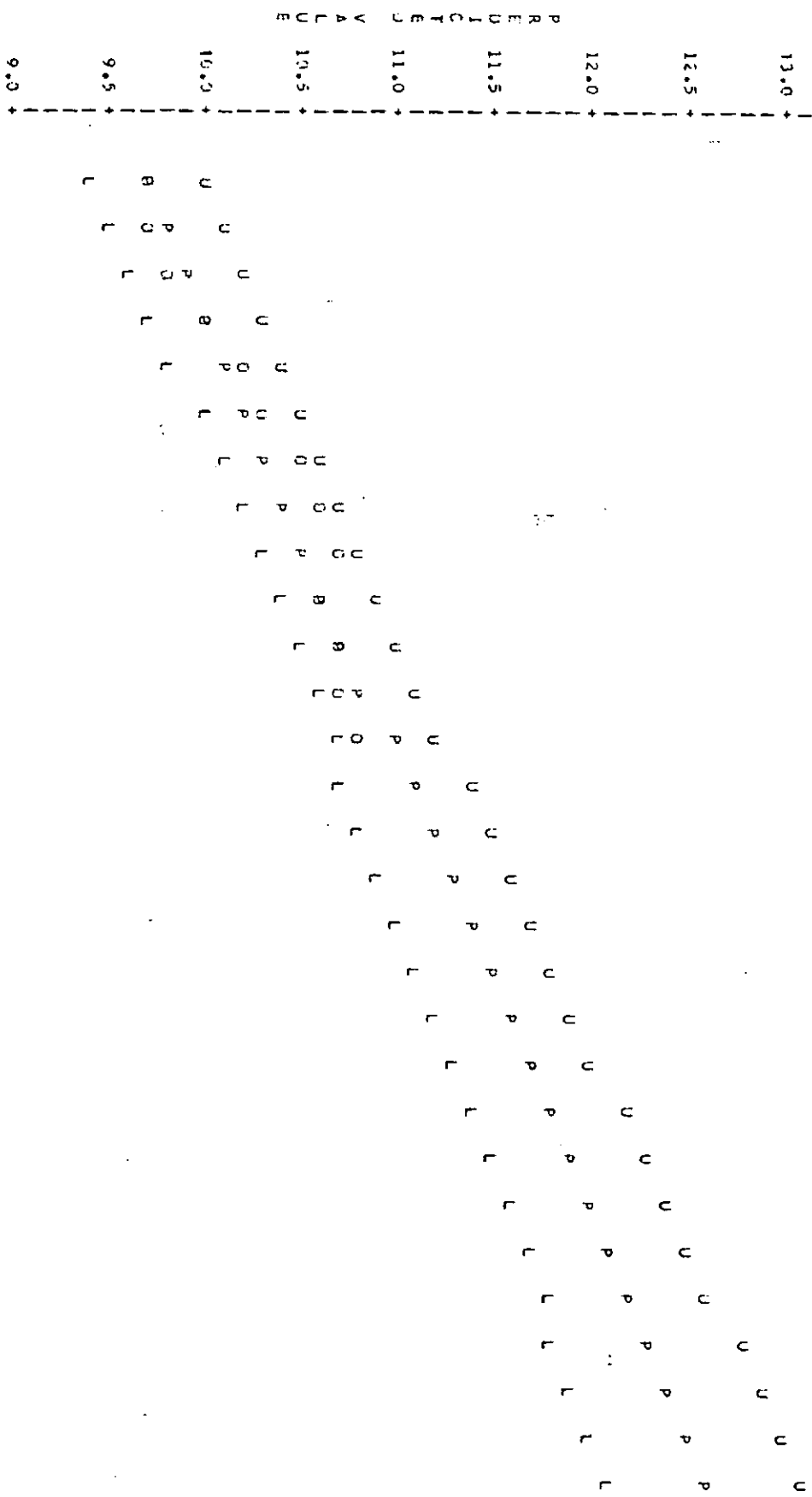
NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 TOTAL

ESTACION=GRAL. PICH

PLOT OF TOTAL\*ANIO SYMBOLO USED IS O  
 PLOT OF PRED\*ANIO SYMBOLO USED IS P  
 PLOT OF L95\*ANIO SYMBOLO USED IS L  
 PLOT OF U95\*ANIO SYMBOLO USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (KWH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL. PICO

PLOT OF RESID\*ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

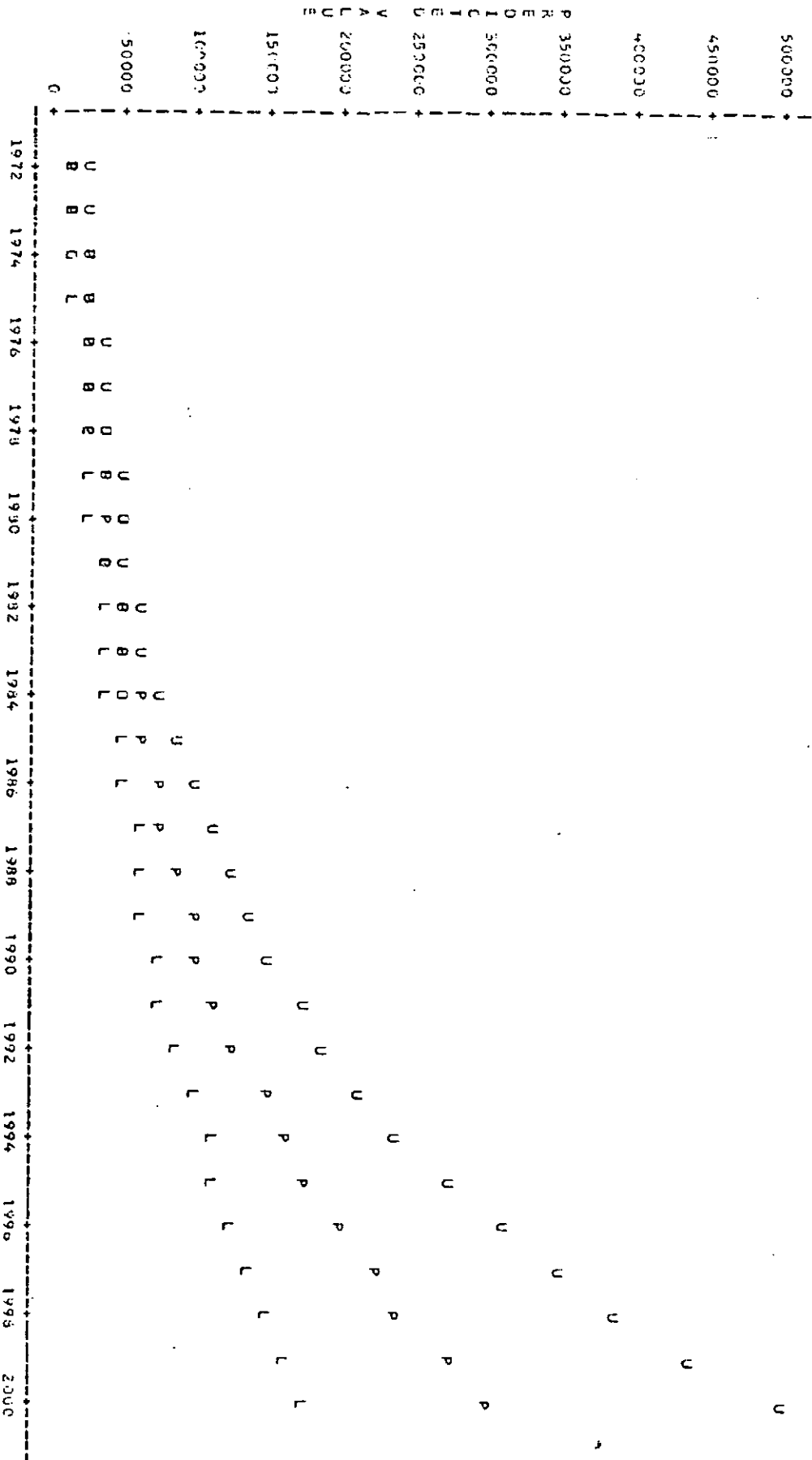
ANIO



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL. PICO

PLOT OF TOTAL\*ANIO SYMBOL USED IS O  
PLOT OF PREU\*ANIO SYMBOL USED IS P  
PLOT OF L95\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=SANTA ROSA

ANIO	TOTAL	PREO	L95	U95	RESID
1972	23521	23524	21663	25538	7.2
1973	25460	23845	23853	28003	-385.0
1974	27779	23395	26250	30715	-616.1
1975	32292	31197	27876	33702	1094.9
1976	35715	34275	31758	36392	740.6
1977	35230	37537	34912	40619	-1407.5
1978	40823	41373	33364	44619	-550.3
1979	45946	45456	42141	49031	493.2
1980	53531	49941	46273	53900	3589.9
1981	55272	54369	50791	59274	403.0
1982	53257	50233	55730	65208	-2003.1
1983	63653	66251	61129	71761	-2573.5
1984	74105	72767	67027	78998	1336.2
1985	.	77947	73474	86990	.
1986	.	97636	80519	95817	.
1987	.	94503	85217	105567	.
1988	.	103025	96429	116335	.
1989	.	116657	105021	128224	.
1990	.	127931	115865	141365	.
1991	.	140610	126841	155873	.
1992	.	154484	138337	171895	.
1993	.	169729	151946	189591	.
1994	.	184476	156272	209134	.
1995	.	204876	131929	230717	.
1996	.	225032	199041	254553	.
1997	.	247303	217742	280876	.
1998	.	271705	233152	309946	.
1999	.	298315	260521	342050	.
2000	.	327471	284937	377504	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=SANTA ROSA

DEP VARIABLE: TOTAL

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.51171372	1.51171372	1474.508	0.0001
ERROR	11	0.01202357	0.001093052		
C TOTAL	12	1.62373729			

R-SQUARE	0.93506133
DEP MEAN	10.63039
C.V.	0.3110077
ADJ R-SQ	0.9919

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HQ:	PROB >  T
INTERCEP	1	-175.50740	4.84763180	-36.206	0.0001
ANID	1	0.09410406	0.002450669	38.399	0.0001

DBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	10.0661	10.0653	0.0173	10.0276	10.1039	9.9836	10.1479	3.1E-34	0.0282
2	1973	10.1449	10.1599	0.0153	10.1262	10.1936	10.0797	10.2401	-0.0150	0.0293
3	1974	10.2320	10.2540	0.0154	10.2244	10.2835	10.1754	10.3325	-0.0219	0.0302
4	1975	10.3326	10.3461	0.0119	10.3222	10.3739	10.2708	10.4253	-0.0345	0.0309
5	1976	10.4636	10.4422	0.0106	10.4193	10.4681	10.3659	10.5195	0.0214	0.0314
6	1977	10.4952	10.5353	0.034914	10.5154	10.5572	10.4556	10.6123	-0.0331	0.0317
7	1978	10.6170	10.6304	0.0916935	10.6102	10.6505	10.5545	10.7059	-0.0134	0.0318
8	1979	10.7353	10.7245	0.0949714	10.7036	10.7454	10.6486	10.8002	0.0103	0.0317
9	1980	10.8880	10.8166	0.0104	10.7957	10.8415	10.7423	10.8949	0.0694	0.0314
10	1981	10.9220	10.9127	0.0118	10.8853	10.9386	10.8355	10.9897	0.0366	0.0309
11	1982	10.9730	11.0063	0.0134	10.9775	11.0364	10.9283	11.0953	-0.0333	0.0302
12	1983	11.0612	11.1009	0.0153	11.0672	11.1345	11.0207	11.1811	-0.0397	0.0293
13	1984	11.2132	11.1950	0.0173	11.1569	11.2332	11.1129	11.2772	0.0192	0.0292
14	1985		11.2891	0.0193	11.2463	11.3319	11.2047	11.3735		
15	1986		11.3832	0.0216	11.3350	11.4339	11.2962	11.4702		
16	1987		11.4773	0.0239	11.4248	11.5299	11.3976	11.5671		
17	1988		11.5714	0.0262	11.5136	11.6280	11.4785	11.6642		
18	1989		11.6655	0.0285	11.6029	11.7282	11.5695	11.7615		
19	1990		11.7596	0.0308	11.6918	11.8274	11.6602	11.8591		

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MWh)  
MODELO EXPONENCIAL  
TOTAL

ESTADÍSTICAS DE LA PAMPA

OBS	ID	ACTUAL	PREDICT VALU	STD ERR PREDICT	LOWERSX MFW	UPPER95X MFW	LOWERSX PREDICT	UPPER95X PREDICT	STD ERR RESIDUAL
10	1991	.	11.6537	0.0332	11.7806	11.9267	11.7507	11.9503	.
21	1992	.	11.9476	0.0385	11.8597	12.0360	11.6411	12.0545	.
22	1993	.	12.0420	0.0379	11.9535	12.1253	11.9313	12.1530	.
23	1994	.	12.1361	0.0403	12.0474	12.2247	12.0214	12.2507	.
24	1995	.	12.2302	0.0427	12.1363	12.3241	12.1114	12.3469	.
25	1996	.	12.3243	0.0451	12.2251	12.4234	12.2013	12.4473	.
26	1997	.	12.4184	0.0475	12.3139	12.5223	12.2911	12.5457	.
27	1998	.	12.5125	0.0499	12.4027	12.6222	12.3808	12.6442	.
28	1999	.	12.6065	0.0523	12.4915	12.7216	12.4704	12.7427	.
29	2000	.	12.7007	0.0547	12.5803	12.8210	12.5600	12.8413	.
1	1972	0.0109	-2-1-0 1 2		0.000				
2	1973	-0.5121			0.036				
3	1974	-0.7261			0.052				
4	1975	1.1103			0.090				
5	1976	0.6812			0.025				
6	1977	-1.2920			0.065				
7	1978	-0.4215			0.007				
8	1979	0.3408			0.005				
9	1980	2.2119			0.460				
10	1981	0.2360			0.064				
11	1982	-1.1195			0.123				
12	1983	-1.3550			0.250				
13	1984	0.6472			0.079				
14	1985	.			.				
15	1986	.			.				
16	1987	.			.				
17	1988	.			.				
18	1989	.			.				
19	1990	.			.				
20	1991	.			.				
21	1992	.			.				
22	1993	.			.				
23	1994	.			.				
24	1995	.			.				
25	1996	.			.				
26	1997	.			.				
27	1998	.			.				
28	1999	.			.				
29	2000	.			.				

SUM OF RESIDUALS -3.33955E-13  
SUM OF SQUARED RESIDUALS 0.01202357  
PREDICTED RESID SS (PRESS) 0.01607664

DUPBIN-WATSON D 1.725  
(FOR NUMBER OF OBS.) 13

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

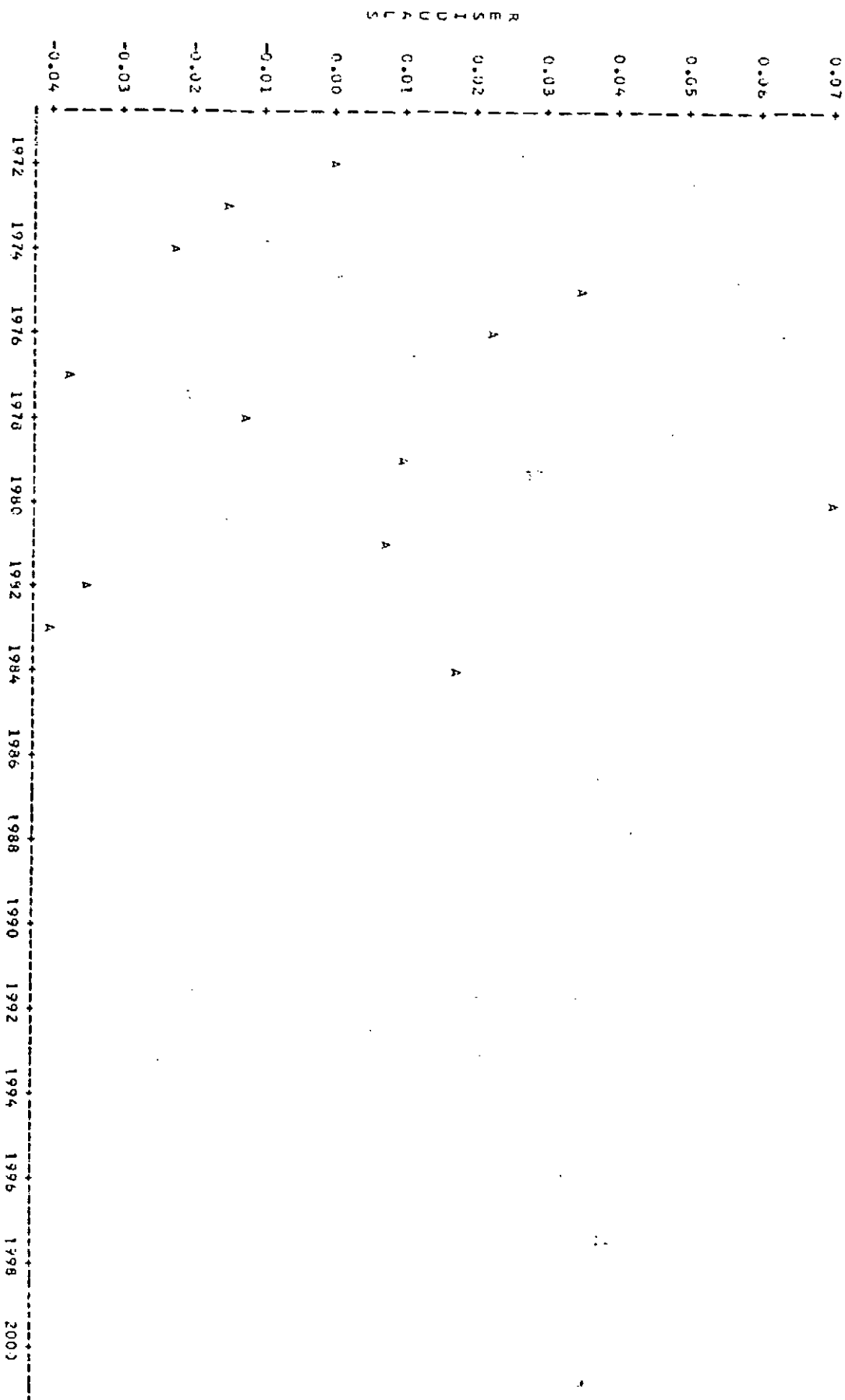
ESTACION=SANTA ROSA

1ST ORDER AUTOCORRELATION 0.123

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=SANTA ROSA

PLOT OF RESID=AMID LEGEND: A = 1 OBS, B = 2 OBS, ETC.



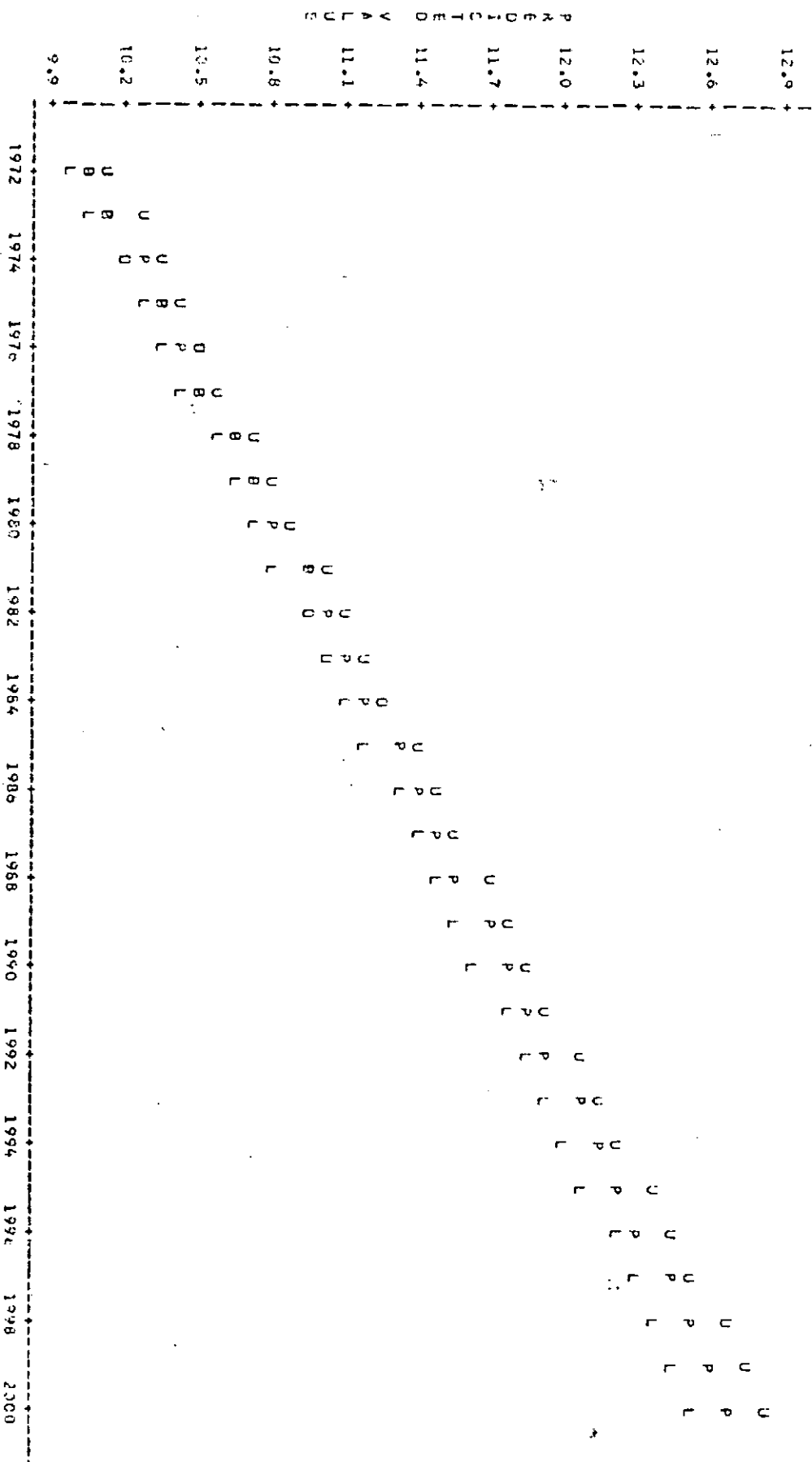
NOTE: 16 OBS HAD MISSING VALUES

AMID

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION= SANTA ROSA

PLOT OF TOTAL\*ANIO SYMBOL USED IS O  
PLOT OF PREC\*ANIO SYMBOL USED IS P  
PLOT OF L95\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U



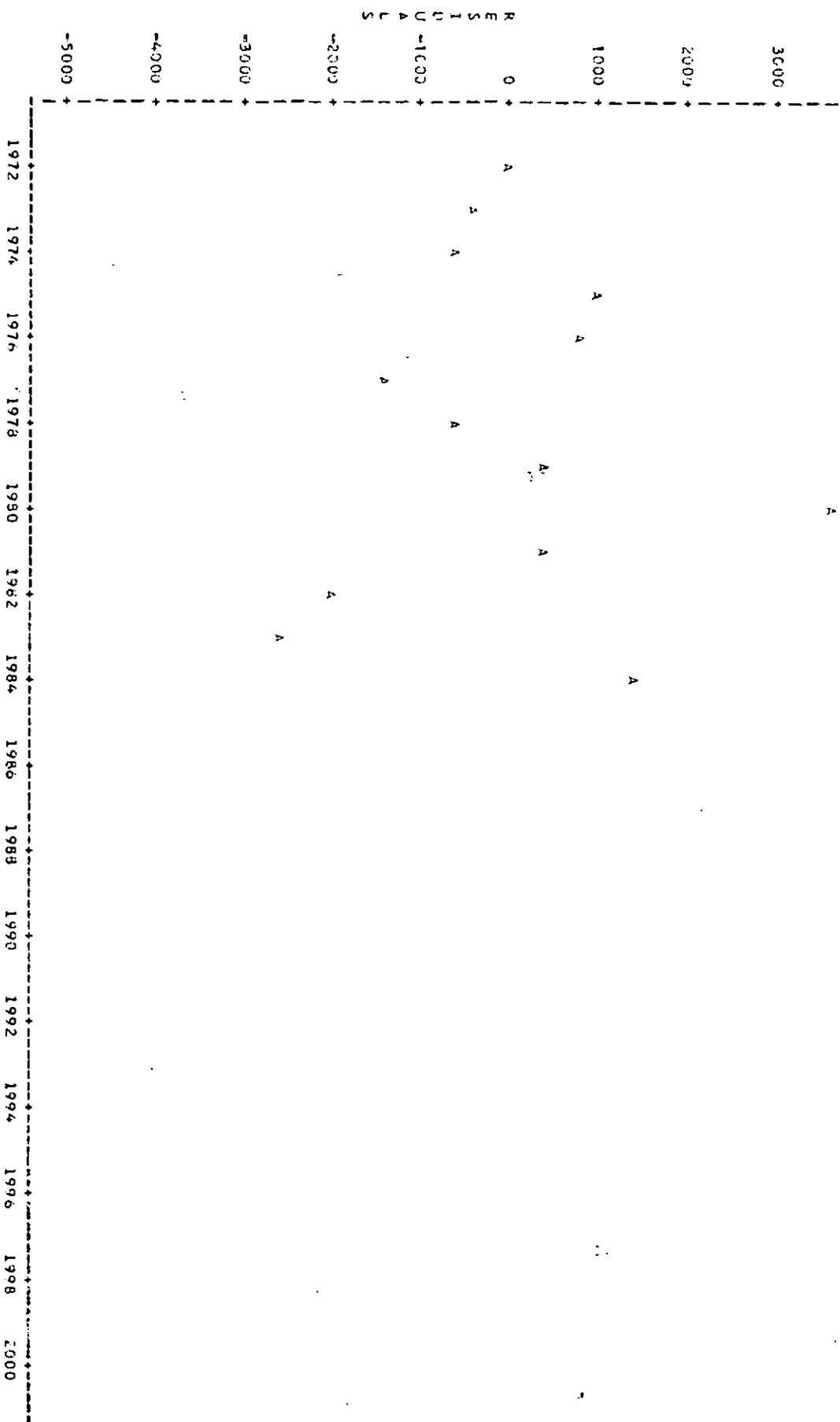
NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAZ  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=SANIA ROSA

PLOT OF RESID\*ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

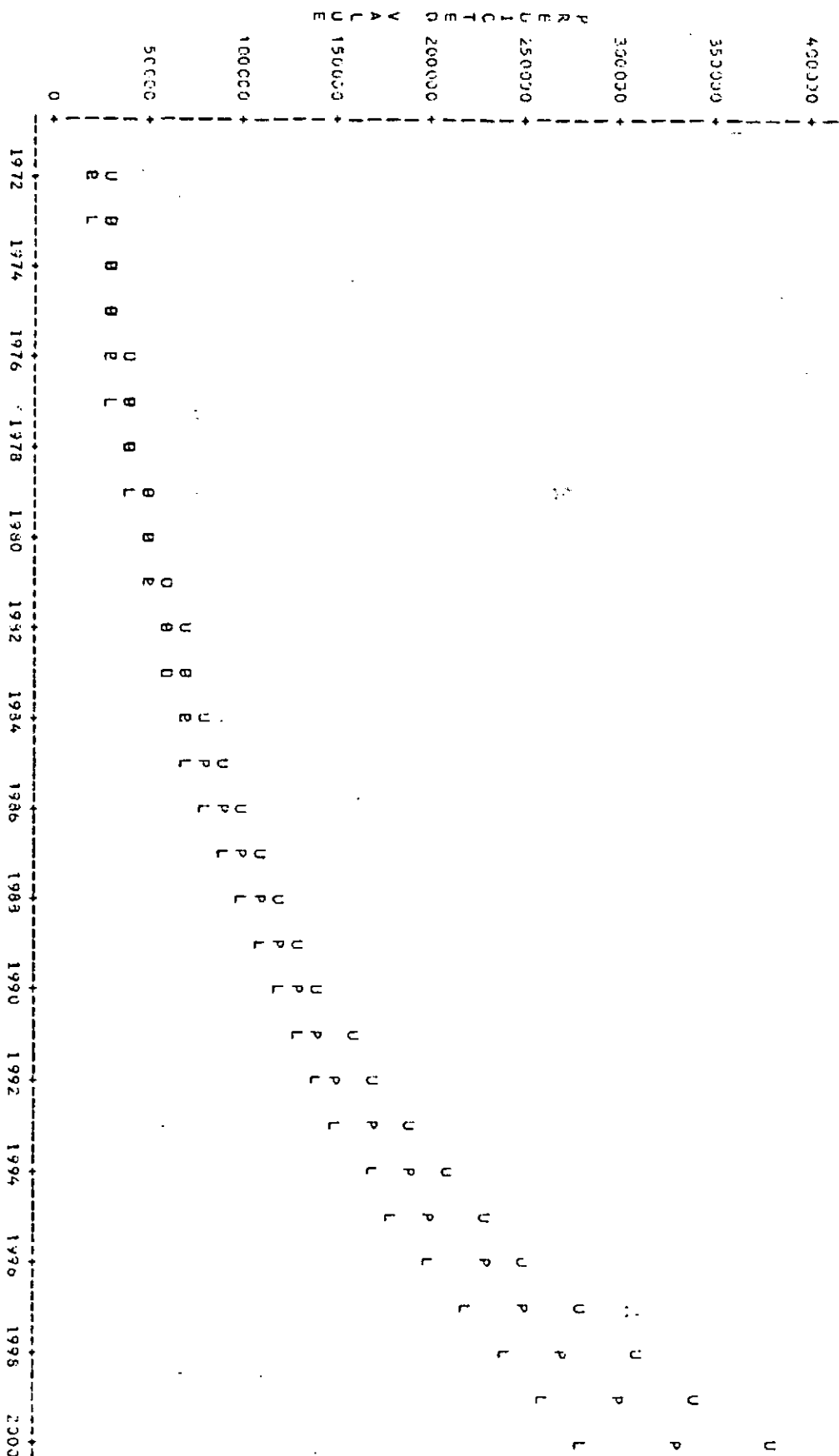
ANIO



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 TOTAL

ESTACION=SANTA ROSA

PLOT OF TOTAL\*ANIO SYM3OL USED IS C  
 PLOT OF PRED\*ANIO SYM3OL USED IS P  
 PLOT OF LYS\*ANIO SYM3OL USED IS L  
 PLOT OF U95\*ANIO SYM3OL USED IS U



NOTE: 16 DBS HAO MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL ACMA

ANIO	TOTAL	PREO	L95	U95	RESID
1972	1739	1740.4	1064.5	2845	-1.4
1973	1861	1902.6	1214.7	3171	-101.5
1974	2074	2213.1	1362.3	3541	-159.1
1975	2128	2495.7	1572.2	3962	-267.7
1976	2041	2814.2	1782.9	4442	-773.2
1977	3910	3173.5	2317.5	4992	736.5
1978	4310	3578.6	2277.6	5623	731.4
1979	5646	4035.4	2565.4	6346	1590.6
1980	5846	4580.4	2883.0	7183	1295.4
1981	4978	5131.5	3232.6	8146	-153.5
1982	5240	5746.5	3616.9	9258	-546.5
1983	5812	5523.2	4038.5	10543	-713.2
1984	6195	7386.1	4500.7	12030	-1203.2
1985	.	8297.5	5006.7	13751	.
1986	.	9356.7	5560.5	15745	.
1987	.	10571.1	6186.2	19654	.
1988	.	11898.6	5829.5	20731	.
1989	.	13416.8	7552.5	23834	.
1990	.	15119.5	8344.0	27435	.
1991	.	17000.8	9209.1	31607	.
1992	.	19238.7	10154.5	36449	.
1993	.	21694.6	11185.1	42058	.
1994	.	24464.1	12317.3	48587	.
1995	.	27557.0	13552.6	56155	.
1996	.	31108.6	14902.3	64939	.
1997	.	35079.8	15377.8	75138	.
1998	.	39557.6	17690.6	86930	.
1999	.	44807.6	19753.7	100733	.
2000	.	50331.9	21690.9	116705	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL ACHA

DEP VARIABLE: TOTAL

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	2.62690413	2.62690413	67.127	0.0001
ERROR	11	0.43046603	0.03913326		
C TOTAL	12	3.05737018			

ROOT MSE	0.1978213	R-SQUARE	0.6592
DEP MEAN	8.182725	ADJ R-SQ	0.8464
C.V.	2.417545		

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEP	1	-229.45353	29.00443983	-7.911	0.0001
ANIO	1	0.12013967	0.01466349	8.193	0.0001

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	7.4611	7.4619	0.1737	7.2337	7.6901	6.9703	7.9535	-6.2E-04	0.1935
2	1973	7.5267	7.5820	0.0916	7.3905	7.7836	7.1022	8.0618	-0.0532	0.1753
3	1974	7.5372	7.7022	0.0362	7.5254	7.8789	7.2322	8.1721	-0.0639	0.1903
4	1975	7.7039	7.8223	0.0703	7.6675	7.9771	7.3602	8.3344	-0.1114	0.1849
5	1976	7.6212	7.9424	0.0622	7.3053	8.0794	7.4863	8.3989	-0.3213	0.1879
6	1977	8.2713	8.0626	0.0563	7.9376	8.1876	7.6396	8.5156	0.2087	0.1695
7	1978	8.3537	8.1827	0.0549	8.0620	8.3035	7.7307	8.6346	0.1663	0.1901
8	1979	8.6352	8.3029	0.0565	8.1779	8.4279	7.6499	8.7539	0.3323	0.1995
9	1980	8.4233	8.4230	0.0022	8.2861	8.5599	7.9666	8.8734	0.2505	0.1878
10	1981	8.5126	8.5431	0.0703	8.3834	8.6979	8.0913	9.0032	-0.0304	0.1849
11	1982	8.5641	8.6833	0.0853	8.4835	8.8401	8.1934	9.1332	-0.0992	0.1800
12	1983	8.5677	8.7834	0.0916	8.5819	8.9850	8.3036	9.2632	-0.1157	0.1753
13	1984	8.7250	8.1037	0.1164	8.6754	9.1318	8.4123	9.3952	-0.1785	0.1635
14	1985	.	9.0037	0.1125	8.7675	9.2799	8.5185	9.5289	.	.
15	1986	.	9.1433	0.1295	8.8580	9.4209	8.6234	9.8642	.	.
16	1987	.	9.2640	0.1429	8.9494	9.5786	8.7263	9.8011	.	.
17	1988	.	9.3841	0.1566	9.0395	9.7287	8.8239	9.9394	.	.
18	1989	.	9.5043	0.1704	9.1293	9.8793	8.9296	10.0789	.	.
19	1990	.	9.6244	0.1843	9.2187	10.0301	9.0293	10.2195	.	.

PROVINCIA DE LA PAPA  
SERIES HISTORICAS DE ENERGIA (NMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL ACHA

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	9.7445	0.1984	9.3079	10.1811	9.1279	10.3611	.	.
21	1992	.	9.8667	0.2125	9.3970	10.3324	9.2257	10.5037	.	.
22	1993	.	9.9843	0.2267	9.4859	10.4839	9.3226	10.6470	.	.
23	1994	.	10.1050	0.2409	9.5746	10.6353	9.4183	10.7911	.	.
24	1995	.	10.2251	0.2552	9.6633	10.7869	9.5143	10.9359	.	.
25	1996	.	10.3452	0.2696	9.7519	10.9396	9.6093	11.0812	.	.
26	1997	.	10.4654	0.2840	9.8404	11.0904	9.7027	11.2271	.	.
27	1998	.	10.5855	0.2984	9.9288	11.2422	9.7975	11.3734	.	.
28	1999	.	10.7057	0.3129	10.0172	11.3941	9.8911	11.5202	.	.
29	2000	.	10.8259	0.3272	10.1054	11.5460	9.9842	11.6674	.	.

OBS ID STUDENT  
RESIDUAL  
-2 -1 0 1 2  
COOK'S  
D

1	1972	-0.004882				0.000
2	1973	-0.3032				0.013
3	1974	-0.3592				0.013
4	1975	-0.6130				0.027
5	1976	-1.7107	***			0.161
6	1977	1.1014		**		0.054
7	1978	0.9785				0.040
8	1979	1.7530		***		0.138
9	1980	1.3340		**		0.092
10	1981	-0.1542				0.002
11	1982	-0.5459				0.030
12	1983	-0.6601				0.059
13	1984	-1.0592		***		0.213
14	1985	.				.
15	1986	.				.
16	1987	.				.
17	1988	.				.
18	1989	.				.
19	1990	.				.
20	1991	.				.
21	1992	.				.
22	1993	.				.
23	1994	.				.
24	1995	.				.
25	1996	.				.
26	1997	.				.
27	1998	.				.
28	1999	.				.
29	2000	.				.

SUM OF RESIDUALS -4.41425E-13  
SUM OF SQUARED RESIDUALS 0.4304661  
PREDICTED RESID SS (PRESS) 0.5529566

DURBIN-WATSON D 1.035  
(FOR NUMBER OF OBS.) 13

ISI ORDER AUTOCORRELATION 0.445

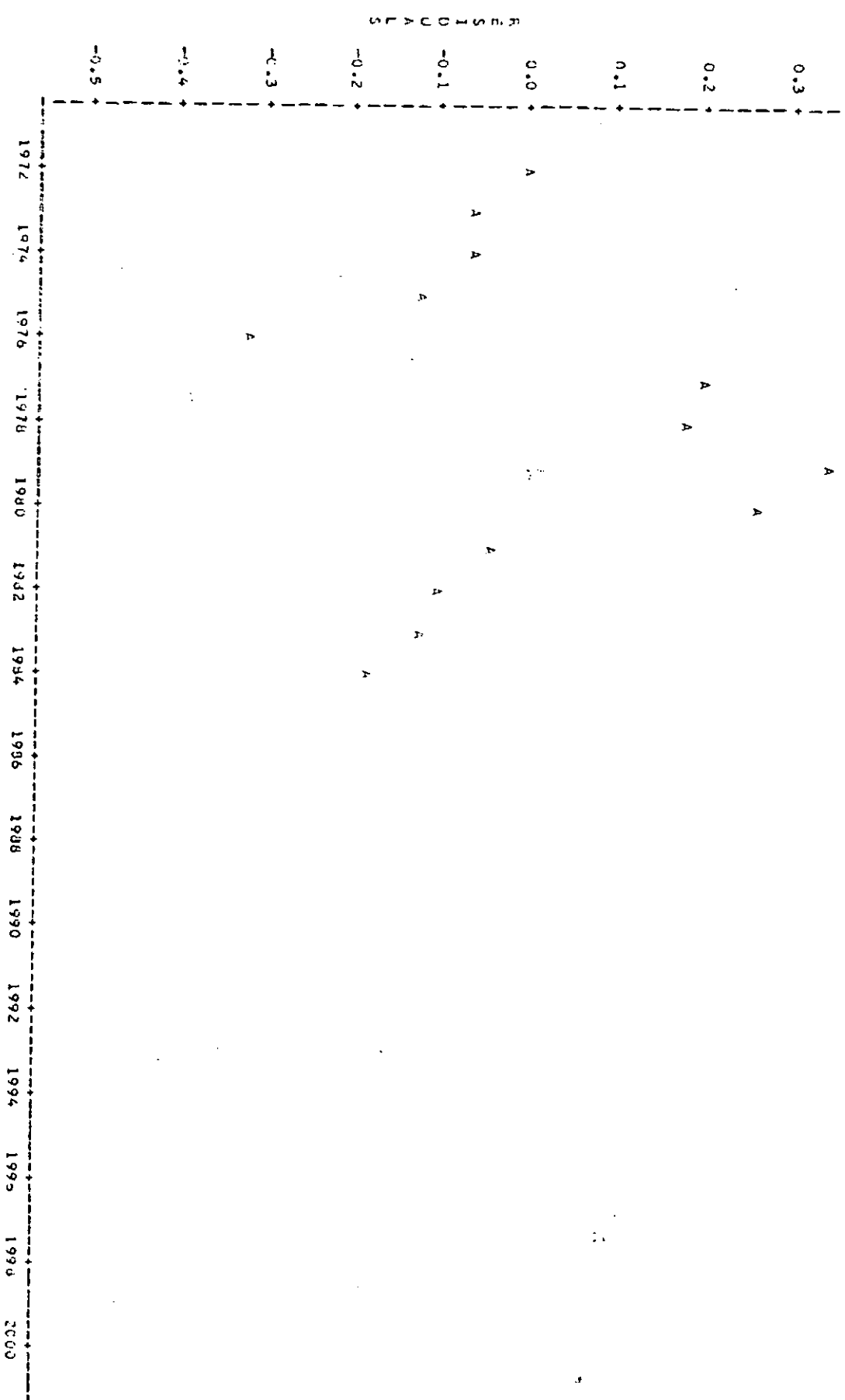
PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL ACHA

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 TOTAL

ESTACION=GRAL ACHA

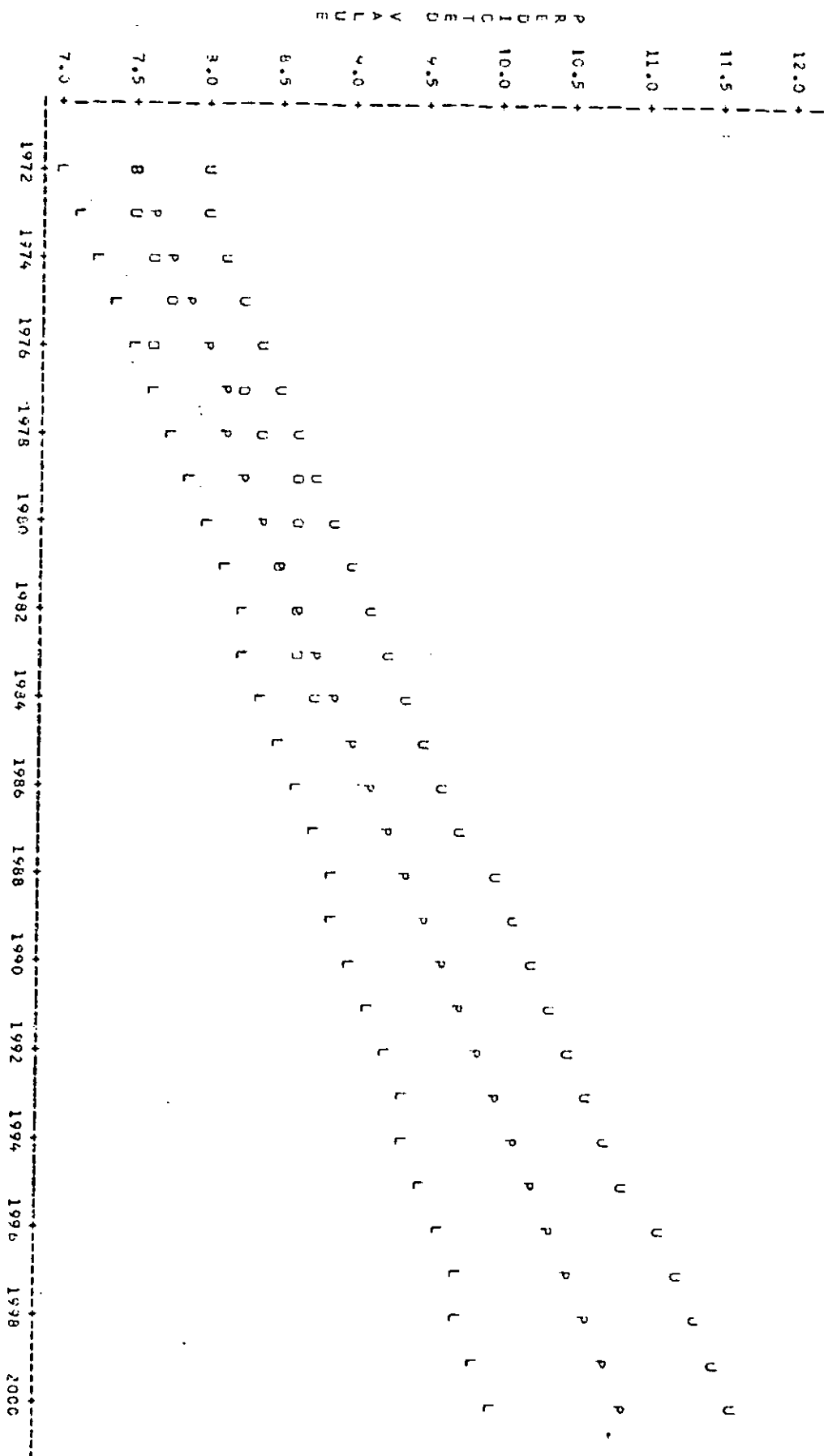
PLUT OF RESID\*ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

## ESTIACIOM=GENERAL ACMA

SYMBOL	USED	IS	C
SYMBOL	USED	IS	P
SYMBOL	USED	IS	L
SYMBOL	USED	IS	U



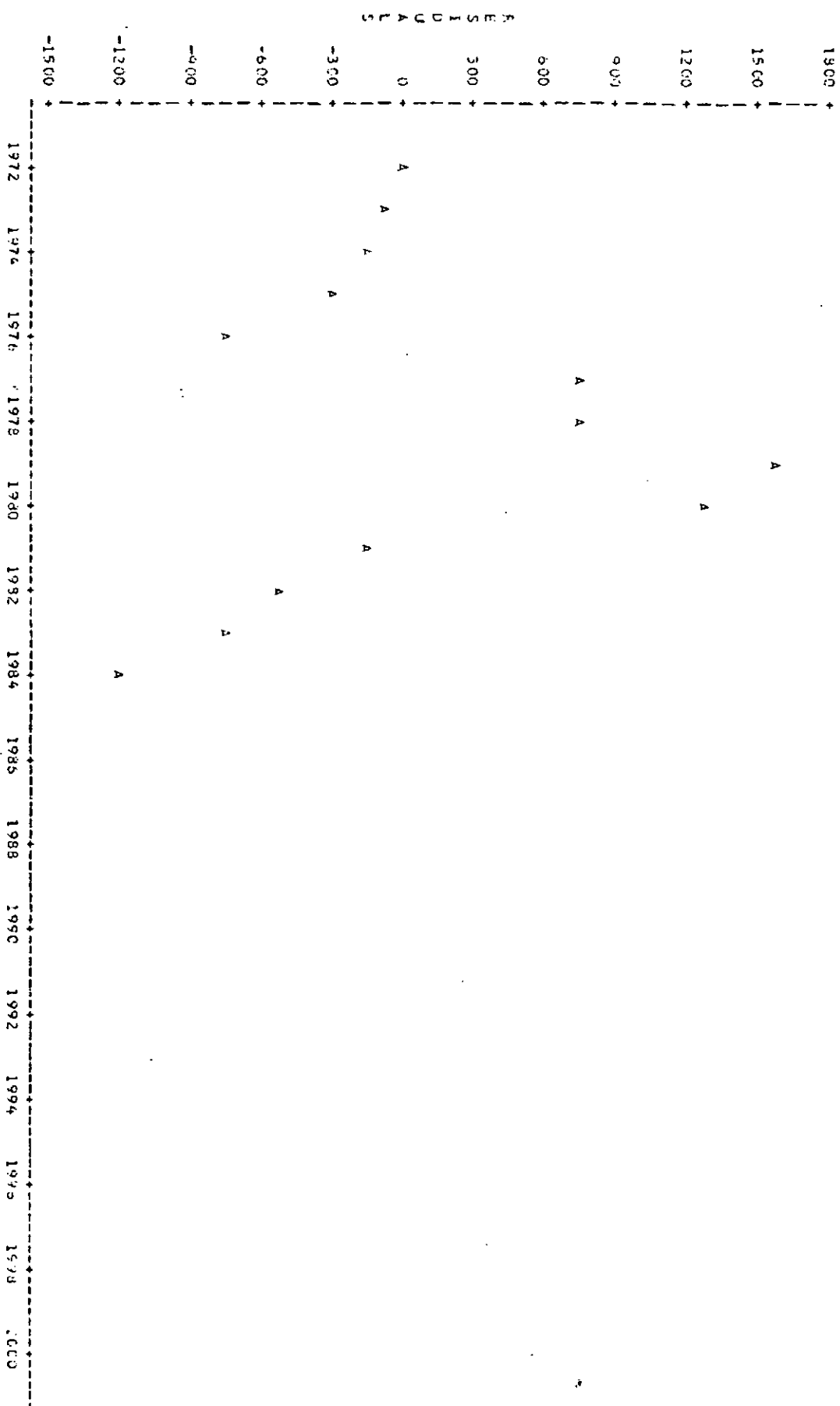
NOTE: 16 OBS HAD MISSING VALUES

**ANJO**

PROVINCIA DE LA PAPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL ACHA

PLOT OF RESID+ANIO LEGEND: A = 1 OBS, 9 = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

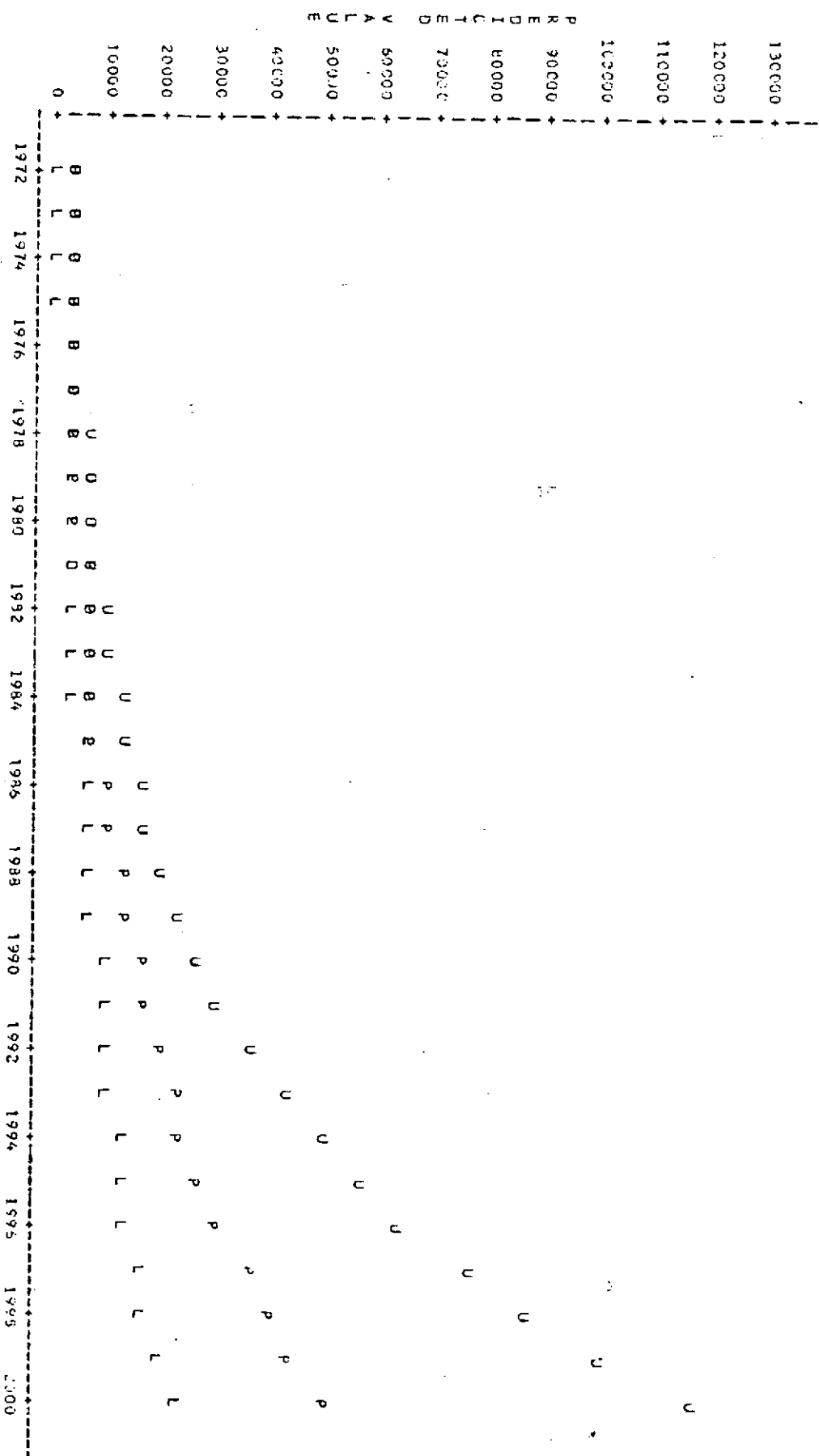
ANIO



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GRAL ACMA

PLOT OF TOTAL\*ANIO SYMBOL USED IS O  
PLOT OF PRED\*ANIO SYMBOL USED IS P  
PLOT OF L95\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION-GUATRACHE

ANIO	TOTAL	' PREO	L95	U95	RESID
1972	4072	4480	3215.9	6240	-407.6
1973	4489	5006	3622.8	6919	-517.5
1974	5129	5595	4076.0	7681	-466.3
1975	6315	6253	4579.5	8539	61.6
1976	7337	6969	5137.7	9507	348.1
1977	9079	7611	5755.3	10601	1267.1
1978	10317	8730	6437.2	11839	1587.4
1979	11399	9756	7168.7	13241	1642.7
1980	13124	10764	8015.6	14833	2220.2
1981	10300	12186	8924.2	16641	-1886.3
1982	11862	13620	9921.3	18596	-1617.6
1983	14550	15221	11014.7	21035	-671.4
1984	15862	17012	12212.1	22697	-1129.7
1985	.	19013	13524.6	25727	.
1986	.	21249	14900.9	30179	.
1987	.	23748	16532.8	34112	.
1988	.	26541	18253.0	38592	.
1989	.	29663	20135.3	43698	.
1990	.	33151	22195.0	49516	.
1991	.	37051	24448.6	56148	.
1992	.	41406	26914.8	63707	.
1993	.	46278	29615.0	72323	.
1994	.	51722	32555.9	82145	.
1995	.	57505	35797.4	93342	.
1996	.	64603	39353.7	106108	.
1997	.	72202	43203.9	120063	.
1998	.	80654	47439.4	137260	.
1999	.	90185	52074.9	156185	.
2000	.	100742	57145.1	177764	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=SUATRACHE

DEP VARIABLE: TOTAL

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	2.25039807	2.25039807	126.514	0.0001
ERROR	11	0.19566506	0.01778773		
C TOTAL	12	2.44606313			
ROOT MSE		0.1332707	R-SQUARE	0.9200	
DEP MEAN		9.074474	ADJ R-SQ	0.9127	
C.V.		1.409734			

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEP	1	-210.87365	19.55472308	-10.784	0.0001
ANIO	1	0.11119723	0.009830091	11.248	0.0001

065

IO	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1472	8.3119	0.0609	8.2514	5.5612	8.0759	8.7337	-0.0954	0.1136
2	1973	8.4054	0.0517	8.3526	8.6544	8.1950	8.6422	-0.1391	0.1182
3	1974	8.6297	0.0541	8.5135	8.7487	8.3129	8.9485	-0.0870	0.1219
4	1975	6.7507	0.0474	6.6365	6.8452	6.4293	9.0324	-0.0930	0.1247
5	1976	8.5007	0.0419	8.7598	8.9444	8.5444	9.1590	0.0486	0.1260
6	1977	9.1136	0.0383	8.8790	9.0475	8.6579	9.2687	0.1503	0.1278
7	1978	9.2415	0.0372	9.4291	9.1559	8.7698	9.3791	0.1671	0.1281
8	1979	9.3413	0.0387	9.1014	9.1889	8.9891	9.4911	0.1560	0.1278
9	1980	9.4322	0.0323	9.2419	9.3892	8.9803	9.4911	0.1560	0.1278
10	1981	9.2399	0.0474	9.4046	9.5124	9.0965	9.7196	-0.1632	0.1247
11	1982	9.3760	0.0341	9.4001	9.4384	9.3070	9.8301	-0.1432	0.1219
12	1983	9.5193	0.0317	9.4446	9.7683	9.3070	9.9539	-0.0451	0.1182
13	1984	9.6305	0.0317	9.5873	9.8955	9.4102	10.0731	-0.0637	0.1136
14	1985	9.7417	0.0785	9.6601	10.0256	9.5123	10.1934		
15	1986	9.8529	0.0873	9.7719	10.1562	9.6132	10.3149		
16	1987	9.9641	0.0954	9.8632	10.2873	9.7131	10.4374		
17	1988	10.0752	0.1050	9.9546	10.4183	9.8121	10.5603		
18	1989	10.1864	0.1149	10.0446	10.5505	9.9102	10.6851		
19	1990	10.2976	0.1243	10.1353	10.6823	10.0075	10.8101		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GUATRACHE

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	10.5700	0.1337	10.2257	10.8144	10.1043	10.9357	.	.
21	1992	.	10.6312	0.1433	10.3159	10.9466	10.2804	11.0620	.	.
22	1993	.	10.7424	0.1528	10.4069	11.0783	10.2960	11.1889	.	.
23	1994	.	10.8536	0.1624	10.4961	11.2112	10.3916	11.3182	.	.
24	1995	.	10.9648	0.1721	10.5861	11.3435	10.4956	11.4410	.	.
25	1995	.	11.0769	0.1819	10.6760	11.4761	10.5793	11.5722	.	.
26	1997	.	11.1872	0.1914	10.7659	11.6085	10.6737	11.7038	.	.
27	1993	.	11.2984	0.2012	10.8557	11.7412	10.7672	11.8296	.	.
28	1999	.	11.4096	0.2109	10.9455	11.8738	10.8604	11.9588	.	.
29	2000	.	11.5208	0.2205	11.0352	12.0064	10.9534	12.0882	.	.

OBS	ID	STUDENT RESIDUAL	-2-1-0 1 2	COOK'S D
1	1972	-0.8399	*	0.134
2	1973	-0.9229	*	0.110
3	1974	-0.7130	*	0.050
4	1975	0.0736		0.000
5	1976	0.3839		0.008
6	1977	1.1767	**	0.062
7	1978	1.3039	**	0.071
8	1979	1.2180	**	0.067
9	1980	1.4639	**	0.118
10	1981	-1.3490	**	0.132
11	1982	-1.1752	**	0.136
12	1983	-0.3816	*	0.020
13	1984	-0.5050	*	0.069
14	1985	.		.
15	1985	.		.
16	1987	.		.
17	1988	.		.
18	1989	.		.
19	1990	.		.
20	1991	.		.
21	1992	.		.
22	1993	.		.
23	1994	.		.
24	1995	.		.
25	1996	.		.
26	1997	.		.
27	1998	.		.
28	1999	.		.
29	2000	.		.

SUM OF RESIDUALS -3.8658E-13  
SUM OF SQUARED RESIDUALS 0.1956651  
PREDICTED RESID SS (PRESS) 0.2593794

DURBIN-WATSON D  
(FOR NUMBER OF OBS.)

0.812  
13

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

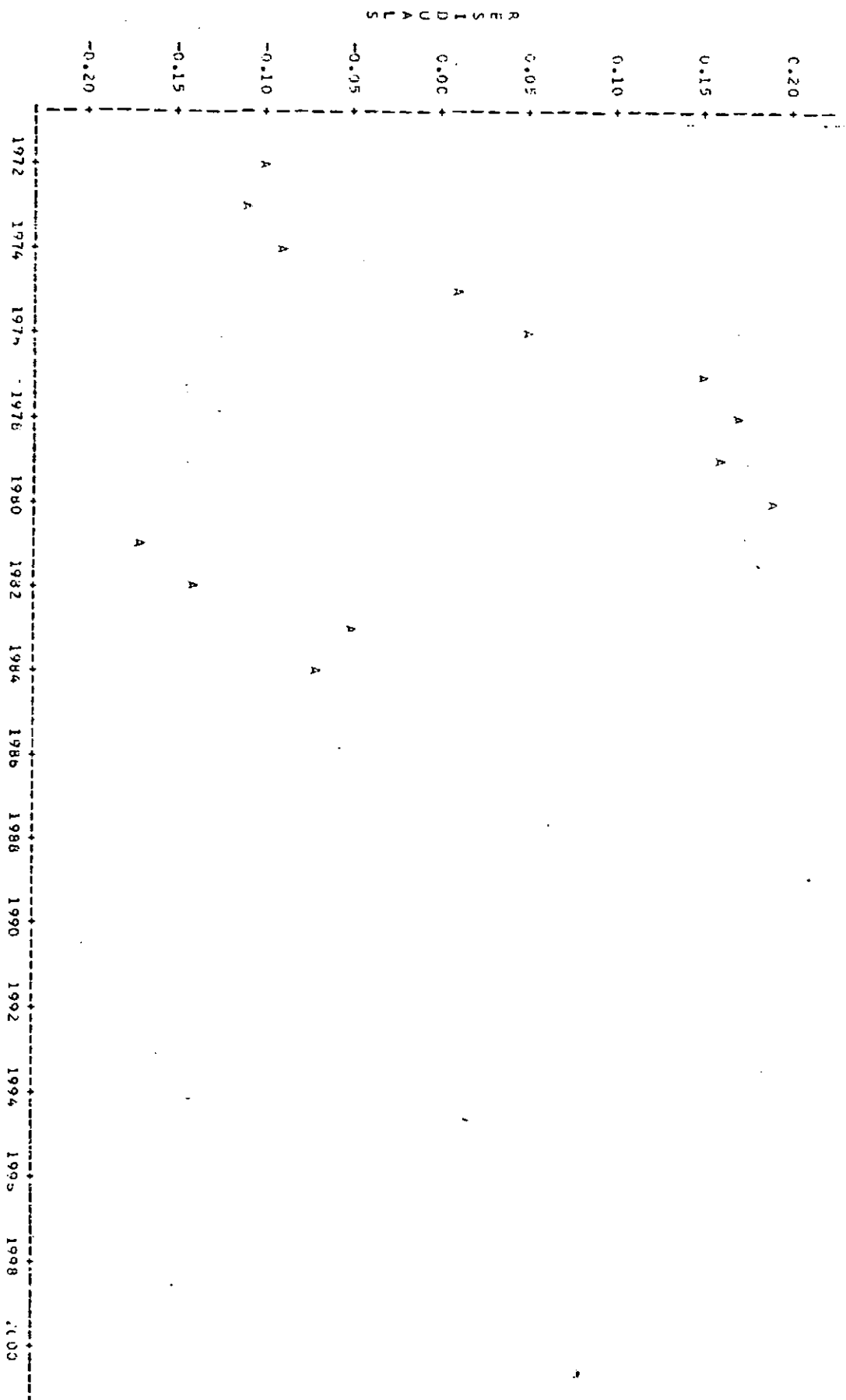
ESTACION#GUATRACHE

1ST ORDER AUTOCORRELATION 0.555

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=CUATRACHE

PLAT OF RESID\*ANIO LEGEND: A = 1 Q35, B = 2 Q35, ETC.



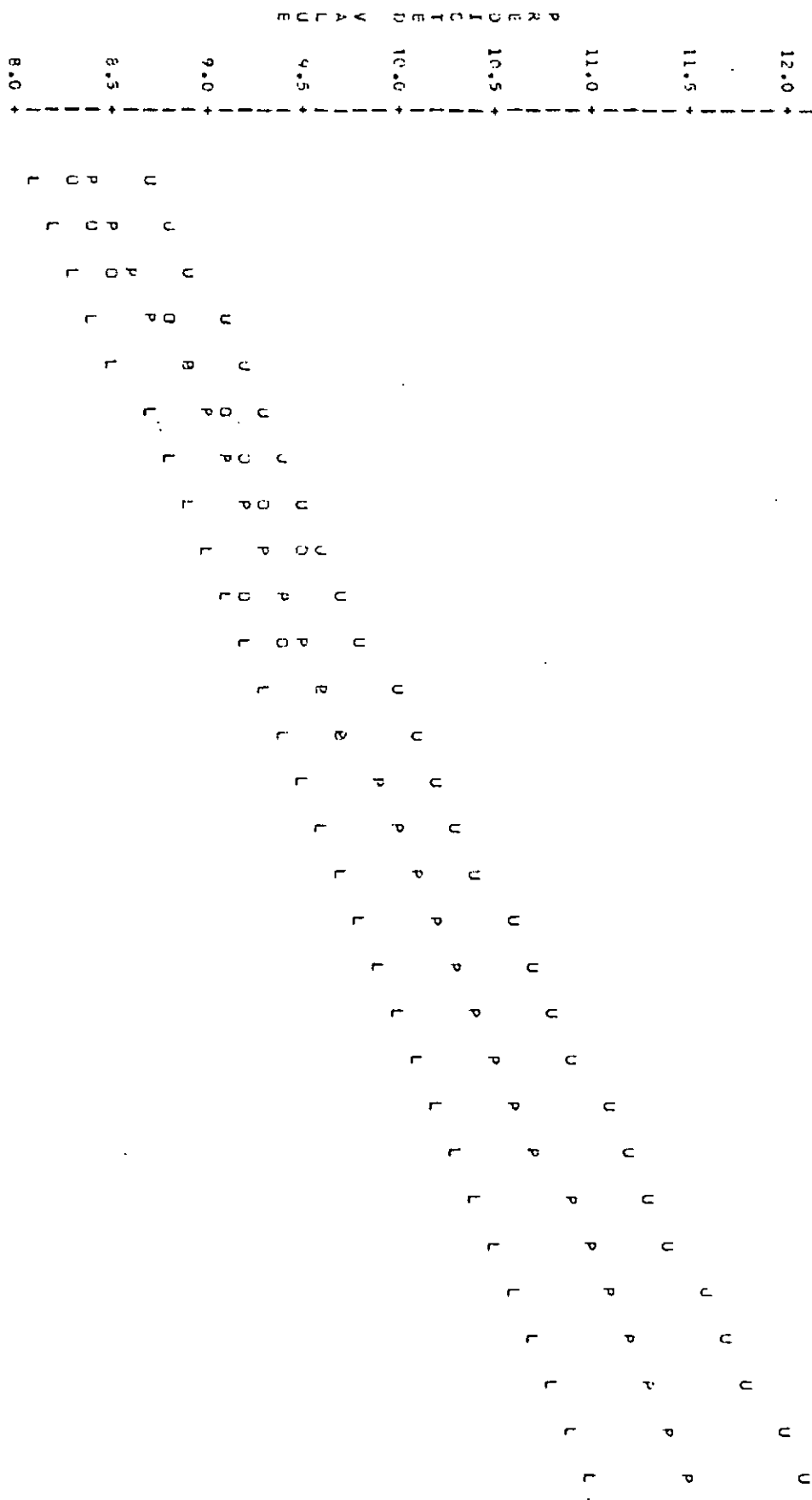
NOTE: 16 Q35 HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPERIENCIAL  
 TOTAL

ESTACION=504TRACHE

PLOT OF TOTAL\*ANIO SYMBOL USED IS U  
 PLOT OF PRE\*ANIO SYMBOL USED IS P  
 PLOT OF LG\*ANIO SYMBOL USED IS L  
 PLOT OF DG\*ANIO SYMBOL USED IS U



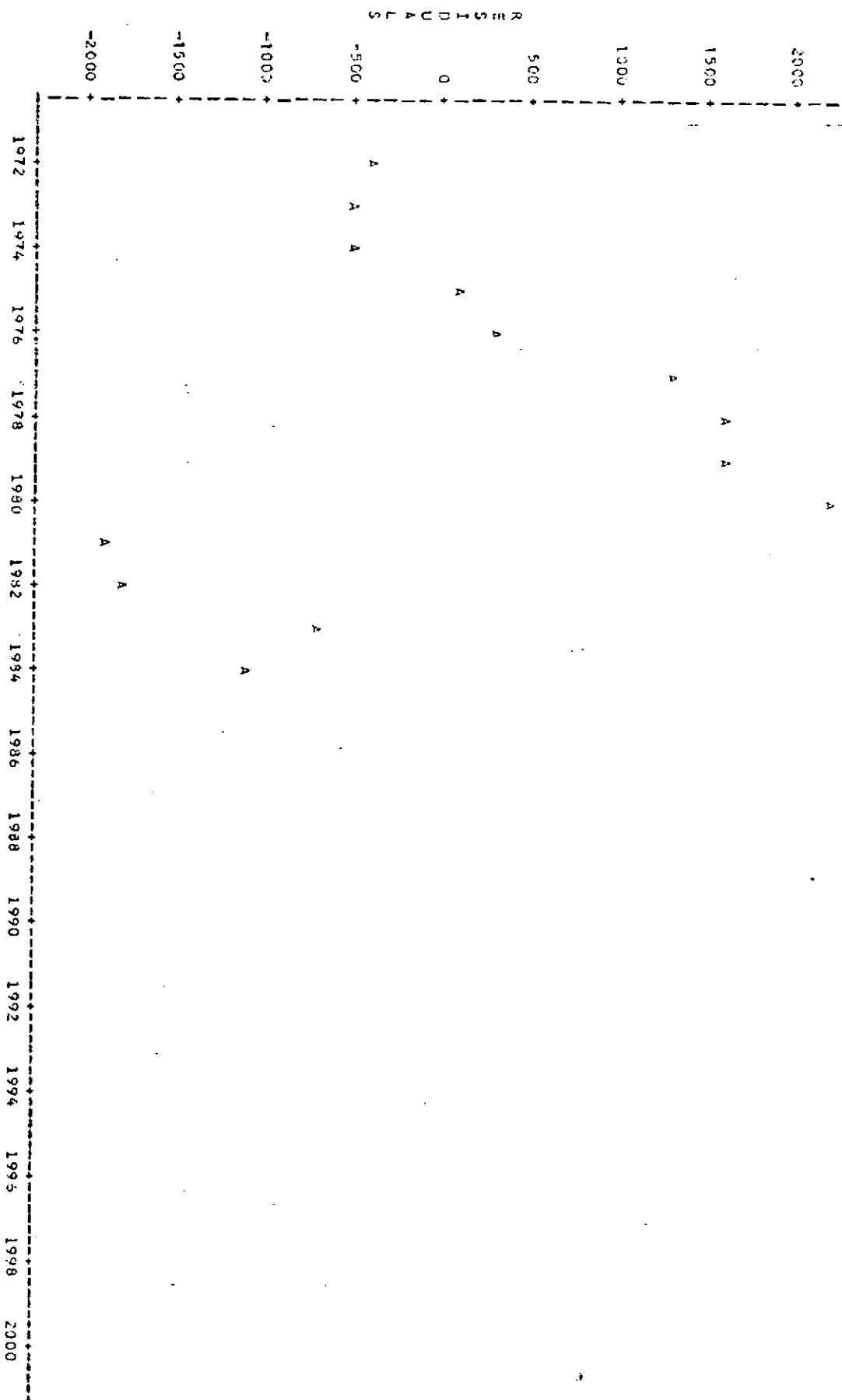
NOTE: 16 GGS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GUATRACHE

PLOT DE RESIDUO ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



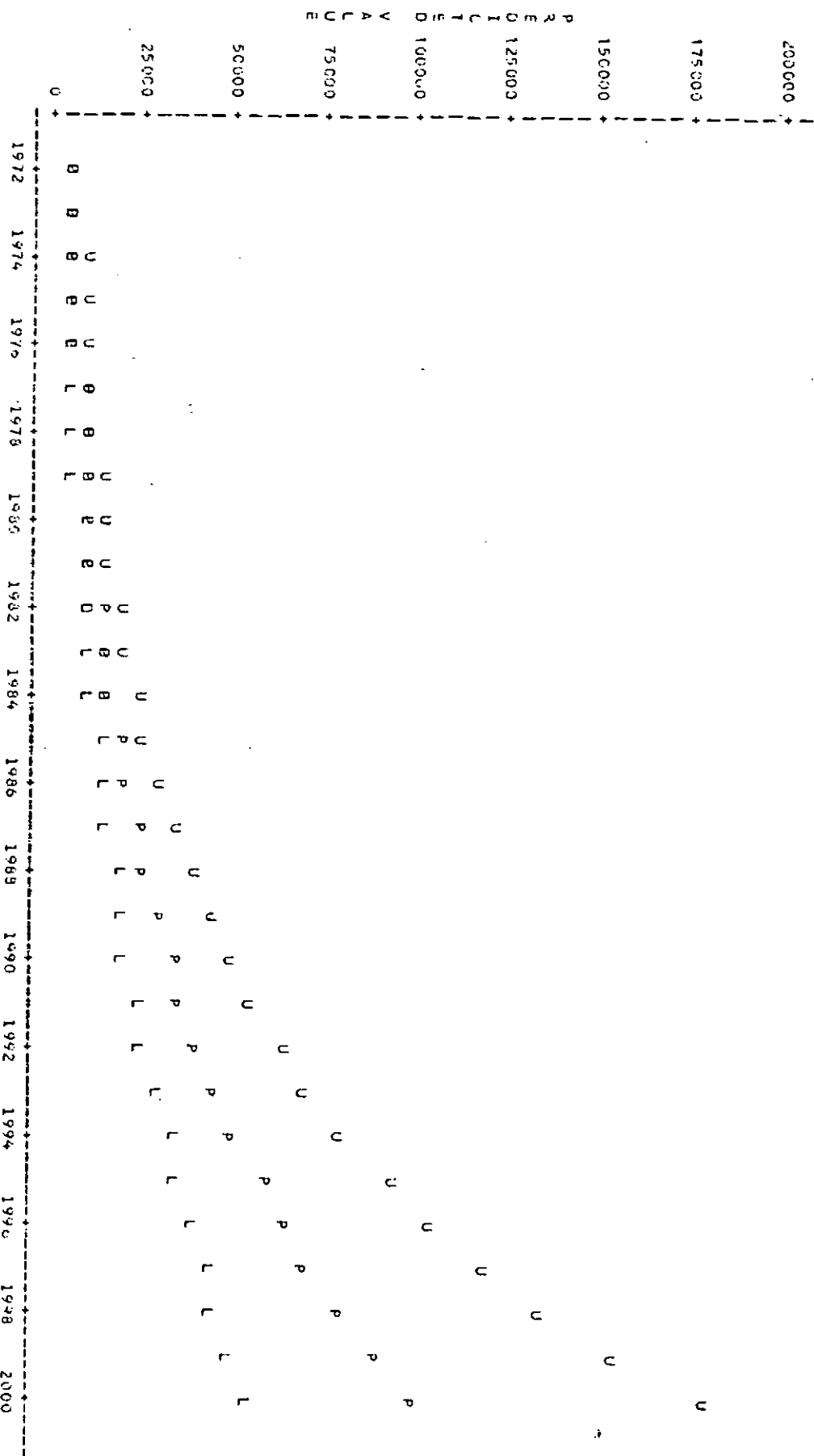
NOTE: 16 OBS HAD MISSING VALUES



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=GUATRACHE

PLUT OF TOTAL\*ANIO  
PLUT OF PRED\*ANIO  
PLUT OF LG5\*ANIO  
PLUT OF UN5\*ANIO  
SYMBOL USED IS O  
SYMBOL USED IS P  
SYMBOL USED IS L  
SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=SANIA ISABEL

ANIO	TOTAL	PRED	L95	U95	RESID
1974	29	29.9	21.5	41.5	-0.910
1975	36	30.3	27.8	52.7	-2.262
1976	39	40.9	35.0	67.0	-9.840
1977	61	62.6	46.0	85.2	-1.613
1978	82	80.1	59.1	108.6	11.903
1979	147	102.5	75.7	136.6	21.538
1980	157	131.1	97.0	177.2	25.928
1981	195	167.7	123.9	226.3	27.569
1982	202	214.5	158.2	290.8	-12.489
1983	247	274.4	201.6	373.4	-27.381
1984	323	351.0	256.6	490.2	-25.995
1985	438	449.0	326.0	619.3	-11.073
1986	547	576.4	413.8	797.3	-27.377
1987	.	734.8	524.6	1029.1	.
1988	.	939.9	664.3	1330.0	.
1989	.	1202.4	840.3	1720.4	.
1990	.	1530.1	1062.0	2227.6	.
1991	.	1967.6	1341.2	2886.6	.
1992	.	2517.0	1592.4	3743.4	.
1993	.	3219.8	2134.1	4857.8	.
1994	.	4113.9	2639.9	6367.8	.
1995	.	5259.0	3387.7	8195.0	.
1996	.	6740.2	4265.0	10652.1	.
1997	.	8622.3	5367.1	13652.0	.
1998	.	11029.9	6751.3	18020.2	.
1999	.	14109.8	8489.4	23451.0	.
2000	.	18069.6	10571.7	30528.3	.
2001	.	23089.5	13411.0	39753.6	.
2002	.	29530.8	16949.0	51778.3	.

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION= SANTA ISABEL

DEP VARIABLE: TOTAL

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	11.03669619	11.03669619	633.961	0.0001
ERROR	11	0.19150354	0.01740941		
C TOTAL	12	11.22819973			

ROOT MSE 0.1319467 R-SQUARE 0.9929  
DEP MEAN 4.875747 ADJ R-SQ 0.9914  
C.V. 2.706144

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB> T
INTERCEP	1	-482.21970	19.34565451	-24.927	0.0001
ANID	1	0.24625055	0.009780394	25.179	0.0001

COS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	3.3573	3.3982	0.0362	3.2460	3.5504	3.0703	3.7261	-0.0309	0.1124
2	1973	3.5835	3.5446	0.0611	3.5100	3.7789	3.3244	3.9645	-0.0609	0.1170
3	1974	3.6035	3.8367	0.0535	3.7728	4.0085	3.5773	4.2042	-0.2272	0.1206
4	1975	4.1109	4.1370	0.0669	4.0337	4.2402	3.8285	4.4452	-0.0261	0.1235
5	1976	4.5418	4.3832	0.0615	4.2919	4.4746	4.0786	4.6977	0.1386	0.1253
6	1977	4.8265	4.8395	0.0379	4.8461	4.7129	4.9274	4.6915	0.1908	0.1264
7	1978	5.0562	4.8787	0.0369	4.7952	4.9563	4.5744	5.1771	0.1805	0.1265
8	1979	5.2730	5.1220	0.0379	5.0388	5.2054	4.8199	5.4241	0.1510	0.1264
9	1980	5.3033	5.3653	0.0415	5.2769	5.4596	5.0636	5.6727	-0.0600	0.1263
10	1981	5.5394	5.6142	0.0469	5.5113	5.7178	5.3063	5.9227	-0.1051	0.1233
11	1982	5.7838	5.8688	0.0336	5.7429	5.9797	5.5472	6.1742	-0.0799	0.1206
12	1983	6.0822	6.1070	0.0611	5.9720	6.2415	5.7870	6.4270	-0.0248	0.1170
13	1984	6.3044	6.3533	0.0392	6.2031	6.3055	6.0254	6.4812	-0.0468	0.1124
14	1985		6.5945	0.0775	6.4267	6.7704	6.2626	6.9063		
15	1986		6.8453	0.0864	6.6557	7.0359	6.4987	7.1429		
16	1987		7.0921	0.0953	6.8823	7.3019	6.7338	7.4503		
17	1988		7.3383	0.1064	7.1085	7.5682	6.9680	7.7037		
18	1989		7.5846	0.1136	7.3345	7.8347	7.2013	7.9678		
19	1990		7.8308	0.1229	7.5602	8.1014	7.4339	8.2276		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=SANTA ISABEL

OBS	10	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	8.0771	0.1323	7.7859	8.3683	7.6656	8.4693	.	.
21	1992	.	8.5232	0.1417	8.0114	8.6353	7.8971	8.7495	.	.
22	1993	.	8.5696	1.1512	8.2368	6.9024	6.1279	9.0113	.	.
23	1994	.	8.9159	0.1607	8.7621	9.1696	8.5582	9.2735	.	.
24	1995	.	9.0621	0.1702	8.6374	9.4363	8.5833	9.5352	.	.
25	1996	.	9.3034	0.1798	8.9126	9.7041	8.8175	9.7922	.	.
26	1997	.	9.5345	0.1394	9.1378	9.9715	9.0450	10.0927	.	.
27	1998	.	9.6009	0.1590	9.2629	10.2389	9.2753	10.5264	.	.
28	1999	.	10.0471	0.2785	9.3880	10.5063	9.5035	10.5904	.	.
29	2000	.	10.2934	0.2183	9.8130	10.7738	9.7320	10.8547	.	.

OBS 10 STUDENT  
RESIDUAL

--2-1-0 1 2

COOK'S  
D

1	1972	-0.2751			0.014
2	1973	-0.5211			0.037
3	1974	-1.6839			0.350
4	1975	-0.2117			0.003
5	1976	1.1062			0.047
6	1977	1.5095			0.102
7	1978	1.4230			0.034
8	1979	1.1947			0.064
9	1980	-0.4790			0.013
10	1981	-0.8524			0.053
11	1982	-0.6381			0.040
12	1983	-0.2121			0.006
13	1984	-0.4340			0.036
14	1985	.			.
15	1986	.			.
16	1987	.			.
17	1988	.			.
18	1989	.			.
19	1990	.			.
20	1991	.			.
21	1992	.			.
22	1993	.			.
23	1994	.			.
24	1995	.			.
25	1996	.			.
26	1997	.			.
27	1998	.			.
28	1999	.			.
29	2000	.			.

SUM OF RESIDUALS -1.46021E-12  
SUM OF SQUARED RESIDUALS 0.1915035  
PREDICTED RESID SS (PRESS) 0.247834

DURBIN-WATSON D 0.705  
(FOR NUMBER OF OBS.) 15

1ST ORDER AUTOCORRELATION 0.599

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=SANTA ISABEL

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 TOTAL

ESTACION=SANTA ISABEL

PLOT OF RESID\*ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

ANIO

ESTACION= SANTA ISABEL

SYMBOL	USED	IS	Q
SYMBOL	USED	IS	P
SYMBOL	USED	IS	L
SYMBOL	USED	IS	U

1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000

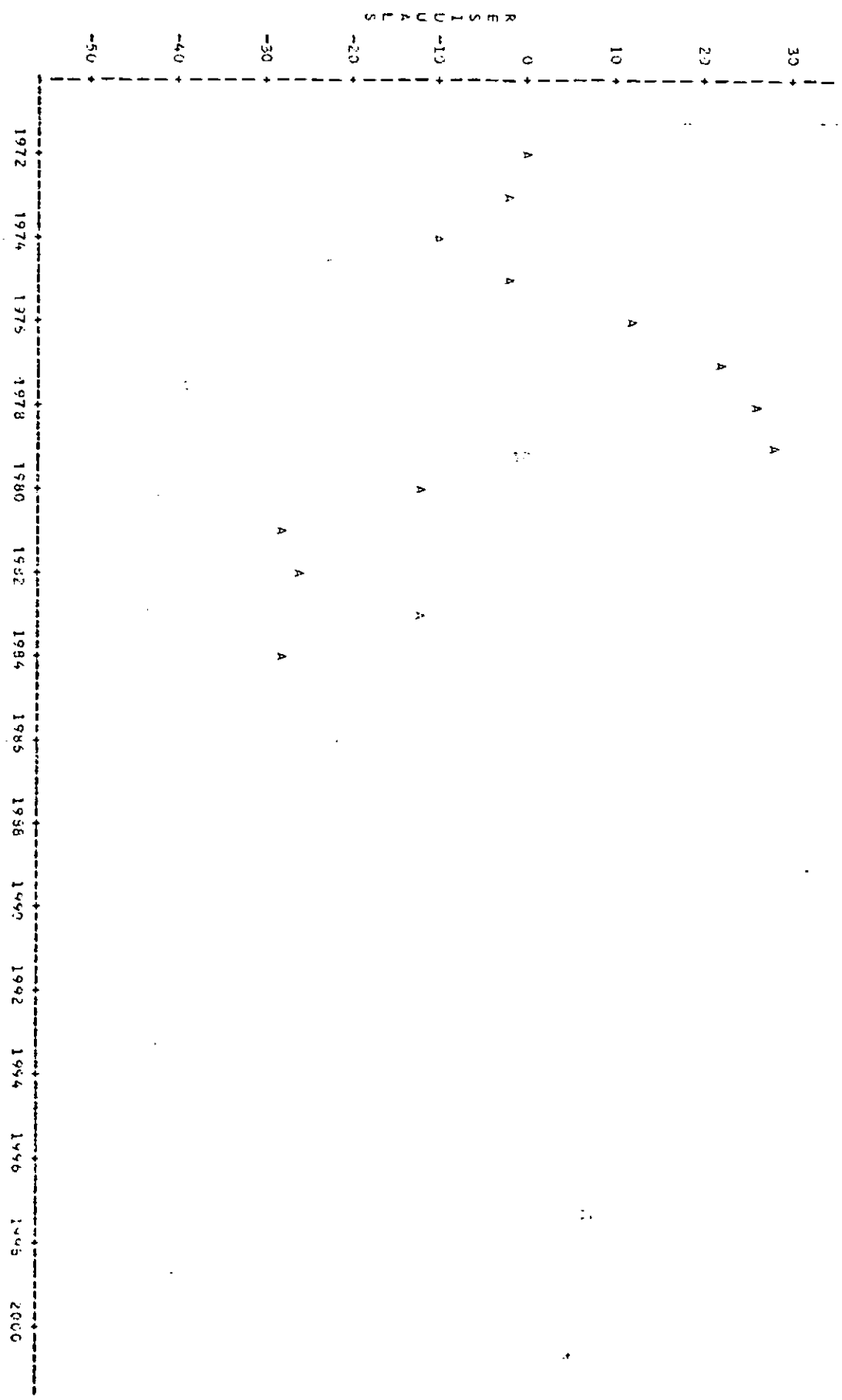
10 CBS HAD MISSING VALUES

AND

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 TOTAL

ESTACION-SANTA ISABEL

PLOT OF RESIDU\*ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

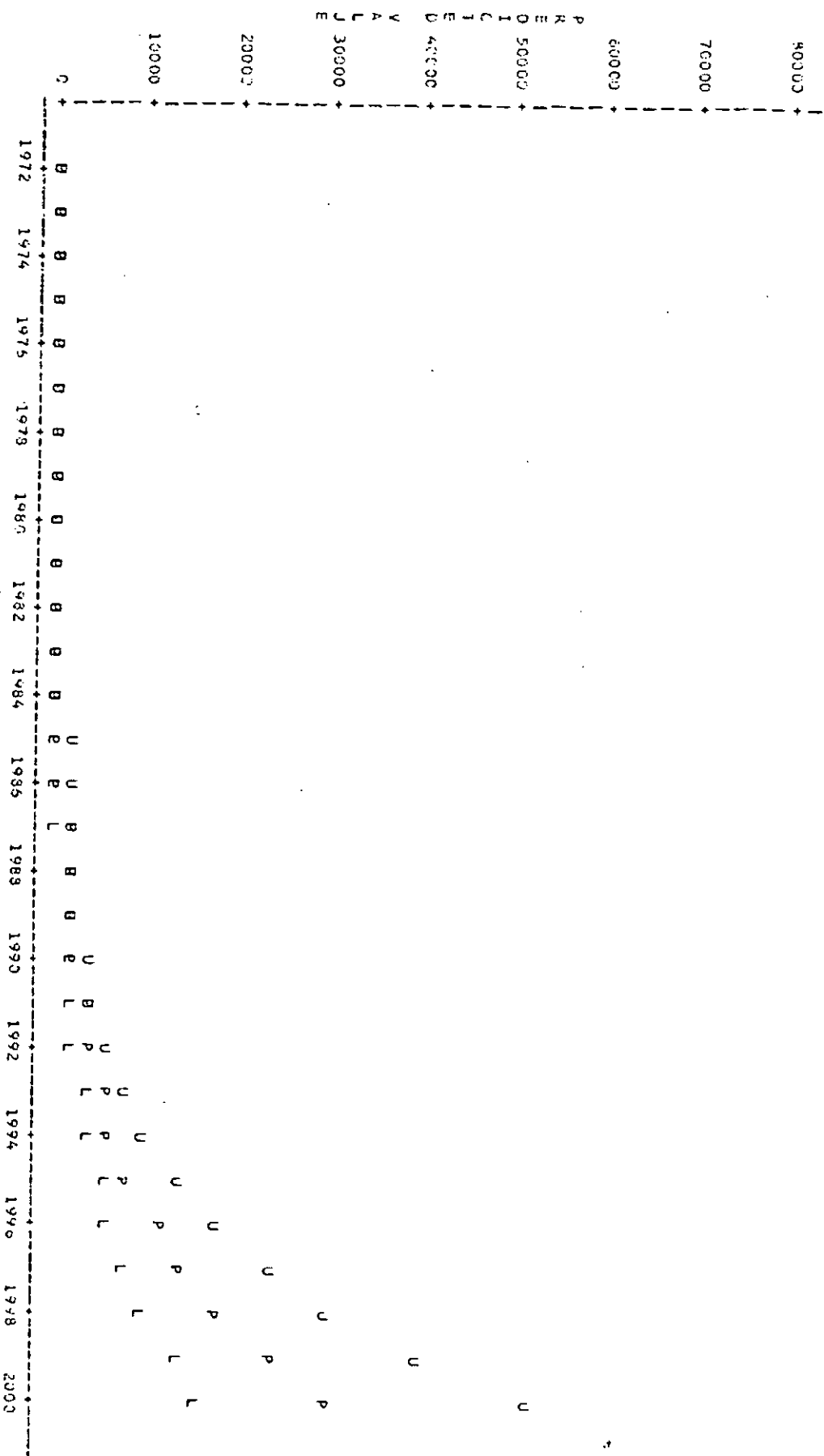
ANIO



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPERIMENTAL  
 TOTAL

ESTACION=SANIA ISABEL

PLOT OF TOTAL\*ANIO SYMBOL USED IS O  
 PLOT OF PRED\*ANIO SYMBOL USED IS P  
 PLOT OF L93\*ANIO SYMBOL USED IS L  
 PLOT OF U95\*ANIO SYMBOL USED IS U



NOTE: 16 DRS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=25 DE MAYO

ANIO	TOTAL	PREO	L95	U95	RESID
1972	.	578	282.1	1183.	.
1973	.	500	358.7	1361.	.
1974	.	645	454.6	1572	.
1975	.	1023	574.4	1922	.
1976	.	1238	722.3	2121	.
1977	3371	1497	903.1	2483	-126.39
1978	1692	1812	1121.6	2926	30.32
1979	1689	2192	1392.1	3476	-302.92
1980	3504	2652	1688.0	4167	652.02
1981	3568	3209	2062.2	5041	351.41
1982	3674	3882	2447.7	6157	-190.02
1983	2750	4697	2907.9	7565	-946.82
1984	6195	5603	3427.3	9432	512.38
1985	.	6875	4012.4	11781	.
1986	.	8315	4671.1	14914	.
1987	.	10364	5413.2	18712	.
1988	.	12177	6250.3	22722	.
1989	.	14732	7195.6	30103	.
1990	.	17824	8264.0	38245	.
1991	.	21556	9472.9	49095	.
1992	.	26092	10841.5	62795	.
1993	.	31358	12391.3	80420	.
1994	.	38154	14149.7	103104	.
1995	.	46210	16140.2	132305	.
1996	.	55709	18398.2	169900	.
1997	.	67544	20958.7	218520	.
1998	.	81542	23662.6	280692	.
1999	.	98219	27156.2	361051	.
2000	.	119202	30911.9	464604	.

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE SEVERIDAD (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=25 DE MAYO

DEP VARIABLE: TOTAL

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.52461710	1.52461710	50.581	0.0004
ERROR	6	0.18085387	0.03014231		
C TOTAL	7	1.70547099			

REG MSE	0.1736134	2-SQUARE	0.8940
DEP MEAN	7.97325	ADJ R-SQ	0.8763
C.V.	2.176089		

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0:	PROB >  T
INTERCEP	1	-369.35972	53.05652343	-6.962	0.0004
ANIO	1	0.19052856	0.02673944	7.112	0.0004

JBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1974	6.3583	6.3583	0.2356	5.7818	6.9359	5.6423	7.0754	.	.
2	1973	6.5494	6.5494	0.2101	6.0353	7.0634	5.9325	7.2163	.	.
3	1974	6.7399	6.7399	0.1845	6.2821	7.1917	6.1193	7.3602	.	.
4	1975	6.9304	6.9304	0.1596	6.5399	7.3210	6.3534	7.5075	.	.
5	1976	7.1210	7.1210	0.1353	6.7909	7.4520	6.5824	7.6552	.	.
6	1977	7.3115	7.3115	0.1121	7.0373	7.5857	6.8053	7.8171	-0.0342	0.1326
7	1978	7.5020	7.5020	0.0903	7.2797	7.7243	7.0225	7.9615	-0.1479	0.1479
8	1979	7.6925	7.6925	0.0734	7.5130	7.8721	7.2313	8.1537	-0.1487	0.1574
9	1980	7.8831	7.8831	0.0528	7.7493	8.0363	7.6218	8.3348	-0.1486	0.1618
10	1981	8.1617	8.1617	0.0328	7.9199	8.2273	7.8029	8.5234	-0.1036	0.1616
11	1982	8.2641	8.2641	0.0154	8.0846	8.4436	7.9752	8.7253	-0.0502	0.1479
12	1983	8.2295	8.2295	0.0903	8.2323	8.6769	7.9752	8.9341	-0.0502	0.1479
13	1984	8.4566	8.4566	0.1121	8.3799	8.7194	8.1343	9.1516	0.0865	0.1326
14	1985	8.6451	8.6451	0.1353	8.5047	8.9463	8.3971	9.3743	.	.
15	1986	8.8357	8.8357	0.1596	8.6397	9.1667	8.4491	9.6033	.	.
16	1987	9.0262	9.0262	0.1845	8.7650	9.4163	8.5960	9.8359	.	.
17	1988	9.2167	9.2167	0.2101	8.8932	9.6685	8.7404	10.0742	.	.
18	1989	9.4073	9.4073	0.2356	9.0207	9.9213	8.8312	10.3144	.	.
19	1990	9.5978	9.5978	0.2618	9.1477	10.1749	9.0197	10.5570	.	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=25 DE MAYO

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWEST MEAN	UPPER MEAN	LOWEST PREDICT	UPPER PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	9.9789	0.2879	9.2744	10.6833	9.1562	10.6015	.	.
21	1992	.	10.1684	0.3141	9.4007	10.9390	9.4291	11.0475	.	.
22	1993	.	10.3599	0.3404	9.5297	11.1930	9.4248	11.2950	.	.
23	1994	.	10.5504	0.3643	9.6528	11.4430	9.5574	11.5435	.	.
24	1995	.	10.7410	0.3833	9.7787	11.7033	9.6891	11.7929	.	.
25	1996	.	10.9315	0.4197	9.9644	11.9586	9.8200	12.0430	.	.
26	1997	.	11.1220	0.4463	10.0307	12.2140	9.9503	12.2937	.	.
27	1998	.	11.3125	0.4728	10.1536	12.4695	10.0901	12.5450	.	.
28	1999	.	11.5031	0.4984	10.2811	12.7250	10.2094	12.7968	.	.
29	2000	.	11.6936	0.5260	10.4065	12.9800	10.3382	13.0469	.	.
OBS	ID	STUDENT RESIDUAL	-2-1-0 1 2	COOK'S D						
1	1972	.		.						
2	1973	.		.						
3	1974	.		.						
4	1975	.		.						
5	1976	.		.						
6	1977	-0.8650	*	0.158						
7	1978	0.2932		0.016						
8	1979	-0.9452		0.097						
9	1980	1.7214		0.423						
10	1981	0.6421		0.031						
11	1982	-0.5190		0.011						
12	1983	-1.5217	***	0.437						
13	1984	0.6310		0.151						
14	1985	.		.						
15	1986	.		.						
16	1987	.		.						
17	1988	.		.						
18	1989	.		.						
19	1990	.		.						
20	1991	.		.						
21	1992	.		.						
22	1993	.		.						
23	1994	.		.						
24	1995	.		.						
25	1996	.		.						
26	1997	.		.						
27	1998	.		.						
28	1999	.		.						
29	2000	.		.						

SUM OF RESIDUALS

-1.0E-13

SUM OF SQUARED RESIDUALS

0.180539

PREDICTED RESID SS (PRESS)

0.2980252

DUKSIN-WATSON D  
(FOR NUMBER OF OBS.)

2.315  
0

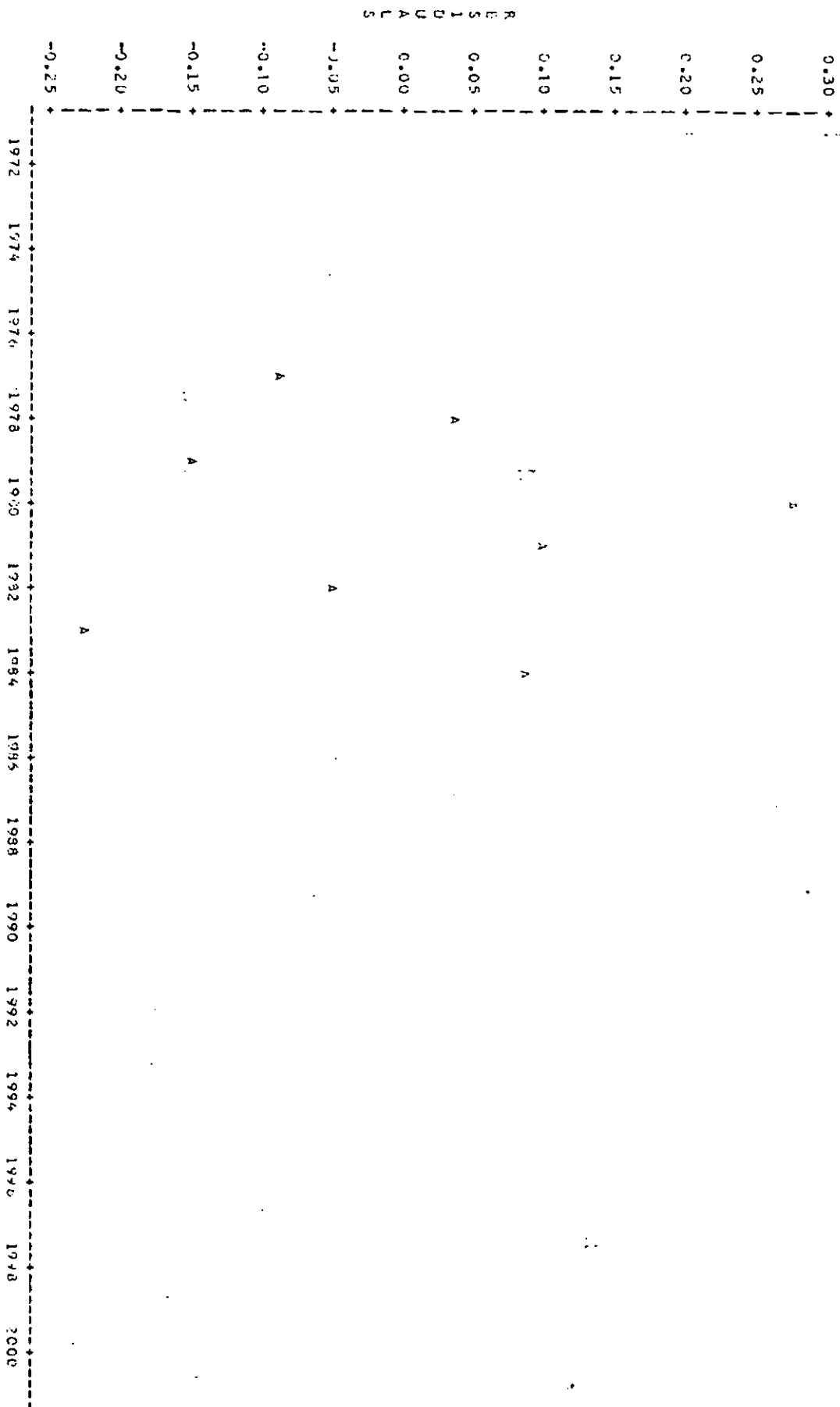
1ST ORDER AUTOCORRELATION -C.200

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
UTAL  
ESTACION=25 DE MAYO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACIONES DE MAYO

PLOT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 21 OBS HAD MISSING VALUES

AÑO

1516ALCUM=25 US. MAY 11

PL0T OF T0TAL*ANID	SYMS0L USED IS 0
PL0T OF PRED*ANID	SYMS0L USED IS P
PL0T OF L92*ANID	SYMS0L USED IS L
PL0T CF 093*ANID	SYMS0L USED IS 0

NOTE: 21 OBS HAD MISSING VALUES

AN IG

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=25 DE MAYO

PLOT UP RESIDU+ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 21 OBS HAD MISSING VALUES

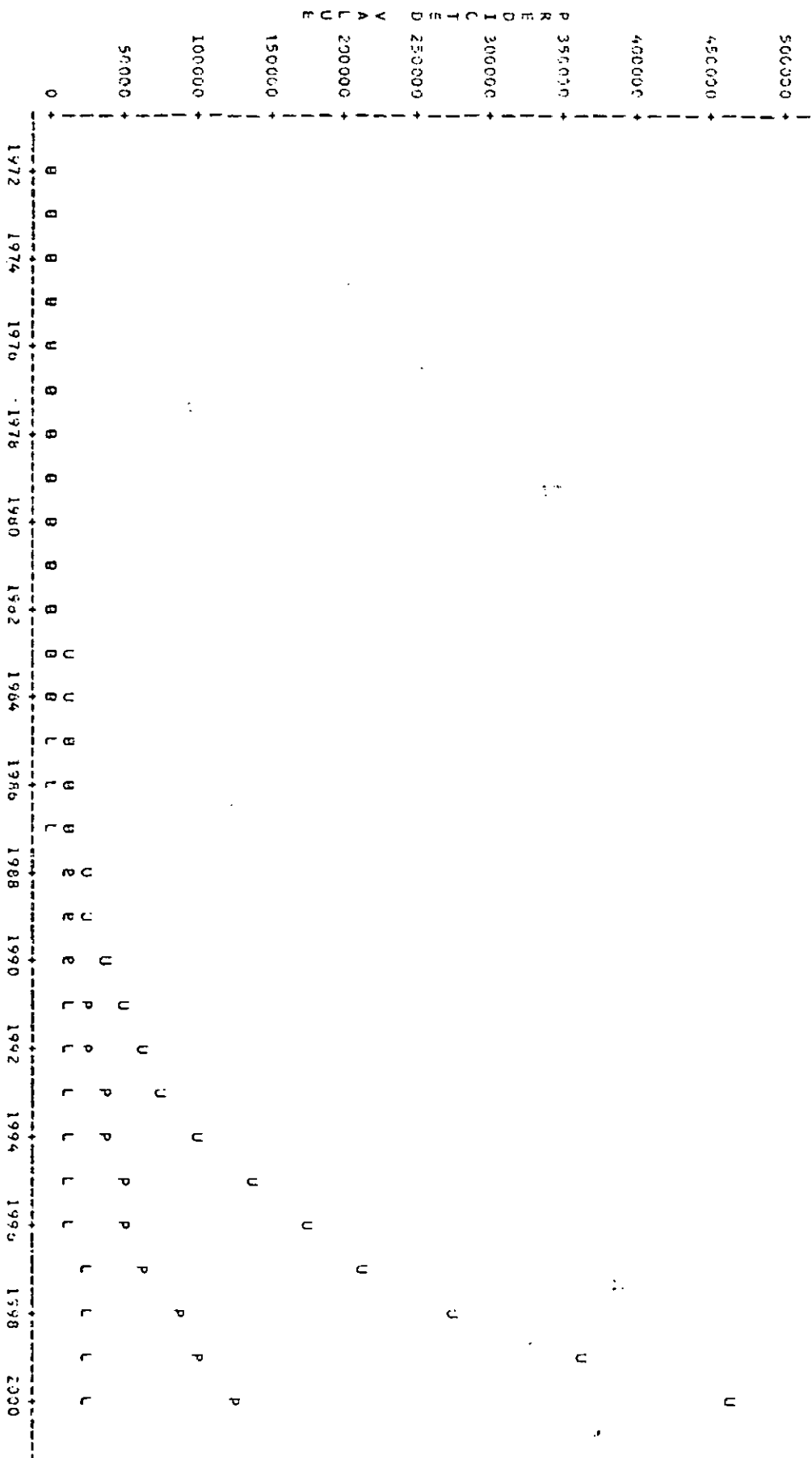
ANIO



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 TOTAL

ESTIMACION=25 DE MAYO

PLOT OF TOTAL\*ANIO SYMBOL USED IS O  
 PLOT OF PRE\*ANIO SYMBOL USED IS P  
 PLOT OF LG\*ANIO SYMBOL USED IS L  
 PLOT OF U\*ANIO SYMBOL USED IS U



NOTE: 21 OBS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=LOCAL. AISLAJAS

ANIO	TOTAL	PRED	L95	U95	RESID
1972	43	45.6	23.1	90	-2.584
1973	83	60.0	30.9	116	23.045
1974	101	78.9	41.2	151	22.144
1975	135	105.7	54.7	197	31.284
1976	100	135.4	72.5	257	-35.413
1977	143	170.4	95.9	336	-34.417
1978	171	206.0	126.3	441	-84.979
1979	227	310.4	165.8	591	-93.373
1980	341	409.2	217.1	768	-67.219
1981	543	530.9	233.2	1018	106.086
1982	641	706.2	360.5	1353	-25.176
1983	927	939.8	470.1	1604	-1.801
1984	1055	1221.6	613.7	2412	634.391
1985	.	1609.7	793.5	3233	.
1986	.	2113.3	1028.4	4342	.
1987	.	2779.5	1321.6	5545	.
1988	.	3655.7	1695.3	7863	.
1989	.	4808.2	2170.8	10650	.
1990	.	6324.0	2775.3	14410	.
1991	.	8317.5	3543.3	19525	.
1992	.	10939.8	4513.0	26439	.
1993	.	14386.6	5754.5	35976	.
1994	.	18924.7	7321.9	48914	.
1995	.	24950.8	9307.7	66563	.
1996	.	32737.7	11922.5	90655	.
1997	.	43009.5	15005.5	123557	.
1998	.	56632.8	19032.9	169512	.
1999	.	74460.5	24126.6	229964	.
2000	.	97960.7	30566.9	313996	.

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MWH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=LOCAL. AISLADAS

DEP VARIABLE: TOTAL

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	13.66632174	13.66632174	182.344	0.0001
ERROR	11	0.84445653	0.07677327		
C TOTAL	12	14.49126041			

R-SQUARE 0.9431  
DEP MEAN 5.42374  
C.V. 5.010692  
ADJ R-SQ 0.9379

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HC: PARAMETER=0	PROB >  T
INTERCEP	1	535.55753	40.14019457	-13.347	0.0001
ANIO	1	0.27402997	0.02029329	13.503	0.0001

Obs	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	3.7812	3.8190	0.1435	3.5037	4.1354	3.1392	4.4999	-0.0384	0.2332
2	1973	4.4188	4.4036	0.1267	3.8147	4.3725	3.4296	4.7575	0.0052	0.2427
3	1974	4.6151	4.3070	0.1112	4.1230	4.6123	3.7173	5.0180	0.2975	0.2502
4	1975	4.9753	4.6417	0.0973	4.4274	4.8559	4.0021	5.2811	-0.2656	0.2599
5	1976	4.5052	4.9157	0.0561	4.7202	5.1052	4.2840	5.5473	-0.3105	0.2599
6	1977	4.3767	5.1897	0.0765	5.0167	5.3527	4.5526	5.8156	-0.2130	0.2642
7	1978	5.1417	5.4637	0.0757	5.4960	5.6309	4.8394	6.0391	-0.3121	0.2630
8	1979	5.4250	5.7370	0.0736	5.5648	5.9103	5.1109	6.3647	-0.3121	0.2630
9	1980	5.8319	6.0118	0.0681	5.9223	6.4013	5.3801	6.8435	-0.3121	0.2630
10	1981	6.4661	6.2858	0.0673	6.0710	6.5000	5.6403	7.2102	-0.0093	0.2599
11	1982	6.5236	6.5599	0.1112	6.3152	6.8045	6.1694	7.4979	-0.0093	0.2599
12	1983	6.9320	6.8339	0.1267	6.5557	7.1128	6.1694	7.4979	-0.0093	0.2599
13	1984	7.5262	7.1079	0.1435	6.7921	7.4238	6.4276	7.7932	-0.4183	0.2332
14	1985		7.3020	0.1611	7.0274	7.7365	6.6828	8.0911		
15	1986		7.6500	0.1792	7.2615	8.0505	6.9358	8.3762		
16	1987		7.9330	0.1978	7.4947	8.3654	7.1866	8.6714		
17	1988		8.2040	0.2167	7.7271	8.6809	7.4356	8.9725		
18	1989		8.4781	0.2358	7.9591	8.9970	7.6828	9.2733		
19	1990		8.7521	0.2551	8.1907	9.3135	7.9285	9.5757		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=LOCAL. AISLADAS

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	9.0261	0.2745	8.4219	9.6304	8.1728	9.0195	.	.
21	1992	.	9.3002	0.2941	8.6529	9.9474	8.4156	10.1845	.	.
22	1993	.	9.5742	0.3137	8.8837	10.2647	8.6577	10.4937	.	.
23	1994	.	9.8432	0.3335	9.1143	10.5822	8.8936	10.7978	.	.
24	1995	.	10.1123	0.3532	9.3448	10.6947	9.1336	11.1059	.	.
25	1996	.	10.3953	0.3731	9.5751	11.2174	9.3778	11.4145	.	.
26	1997	.	10.6703	0.3930	9.8054	11.5353	9.6162	11.7245	.	.
27	1998	.	10.9443	0.4129	10.0355	11.8532	9.8539	12.0348	.	.
28	1999	.	11.2134	0.4329	10.2656	12.1711	10.0911	12.3457	.	.
29	2000	.	11.4924	0.4529	10.4957	12.4892	10.3277	12.6571	.	.

STUDENT  
RESIDUAL  
-2-1-0 1 2  
COOK'S  
D

1	1972	-0.2503			C.012
2	1973	1.3403		**	0.245
3	1974	0.9892		*	0.097
4	1975	1.0302		**	0.077
5	1976	-1.1948			0.078
6	1977	-0.8121			0.030
7	1978	-1.2243			0.062
8	1979	-1.1929		**	0.064
9	1980	-0.6922		*	0.036
10	1981	0.7845			0.036
11	1982	-0.1451			0.002
12	1983	-0.0797			0.000
13	1984	1.7939		***	0.009
14	1985	.			.
15	1986	.			.
16	1987	.			.
17	1988	.			.
18	1989	.			.
19	1990	.			.
20	1991	.			.
21	1992	.			.
22	1993	.			.
23	1994	.			.
24	1995	.			.
25	1996	.			.
26	1997	.			.
27	1998	.			.
28	1999	.			.
29	2000	.			.

SUM OF RESIDUALS -1.19016E-12  
SUM OF SQUARED RESIDUALS 0.3244597  
PREDICTED RESIDUALS (PRESS) 1.1844227  
DURBIN-WATSON D 1.063  
(FOR NUMBER OF OBS.) 13

1ST ORDER AUTOCORRELATION 0.350

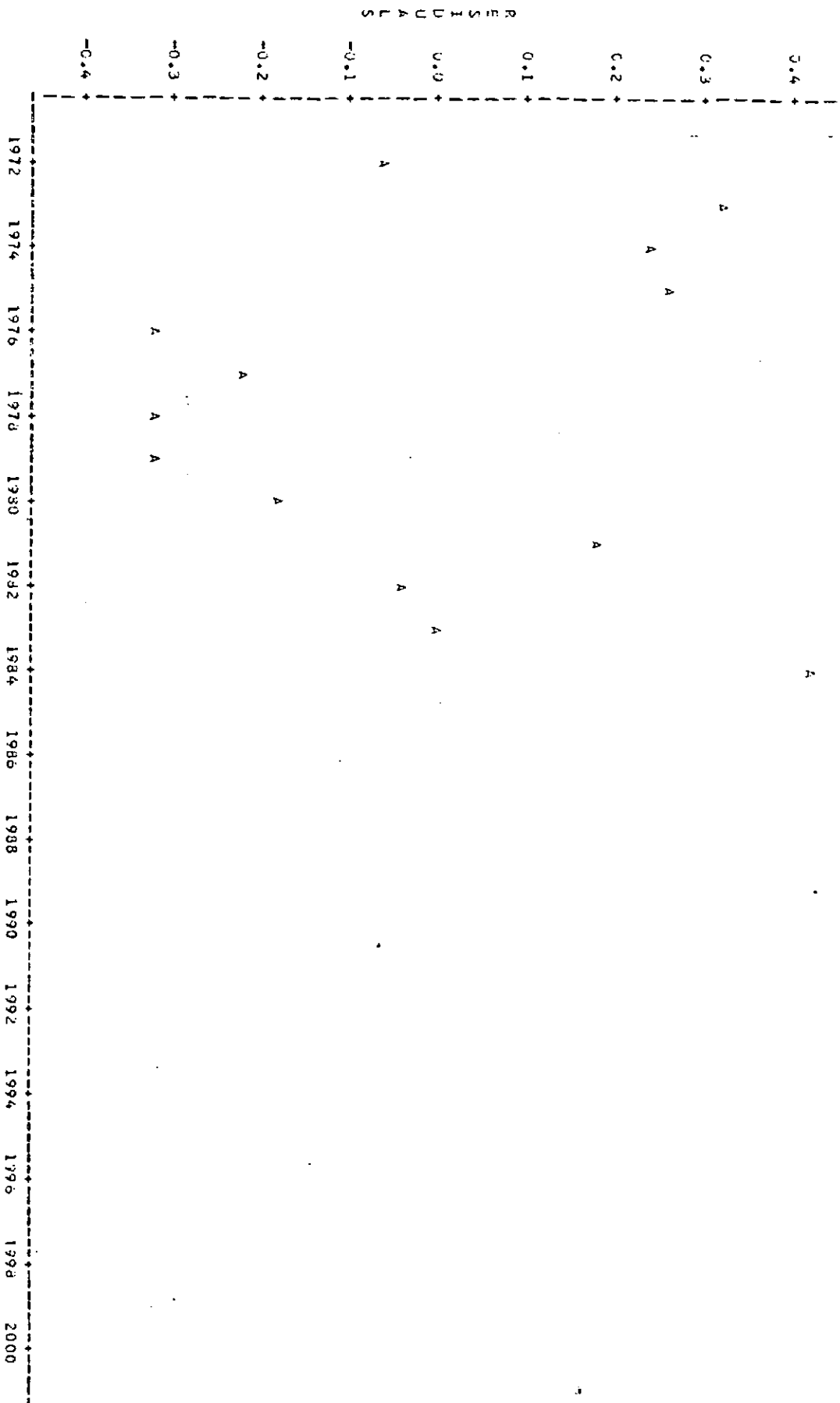
PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=LOCAL. AISLADAS

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=LOCAL. AISLADAS

PLUT OF RESIDU\*ANIO LEGEND: A = 1 OBS, 9 = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=LOCAL. AISLADAS

PLOT OF TOTAL\*ANIO SYMBOL USED IS O  
PLOT OF PREO\*ANIO SYMBOL USED IS P  
PLOT OF L95\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U

	1972	1974	1976	1978	1980	1982	1984	1986	1988	1990	1992	1994	1996	1998	2000
13															
12															
11															
10															
9															
8															
7															
6															
5															
4															
3															

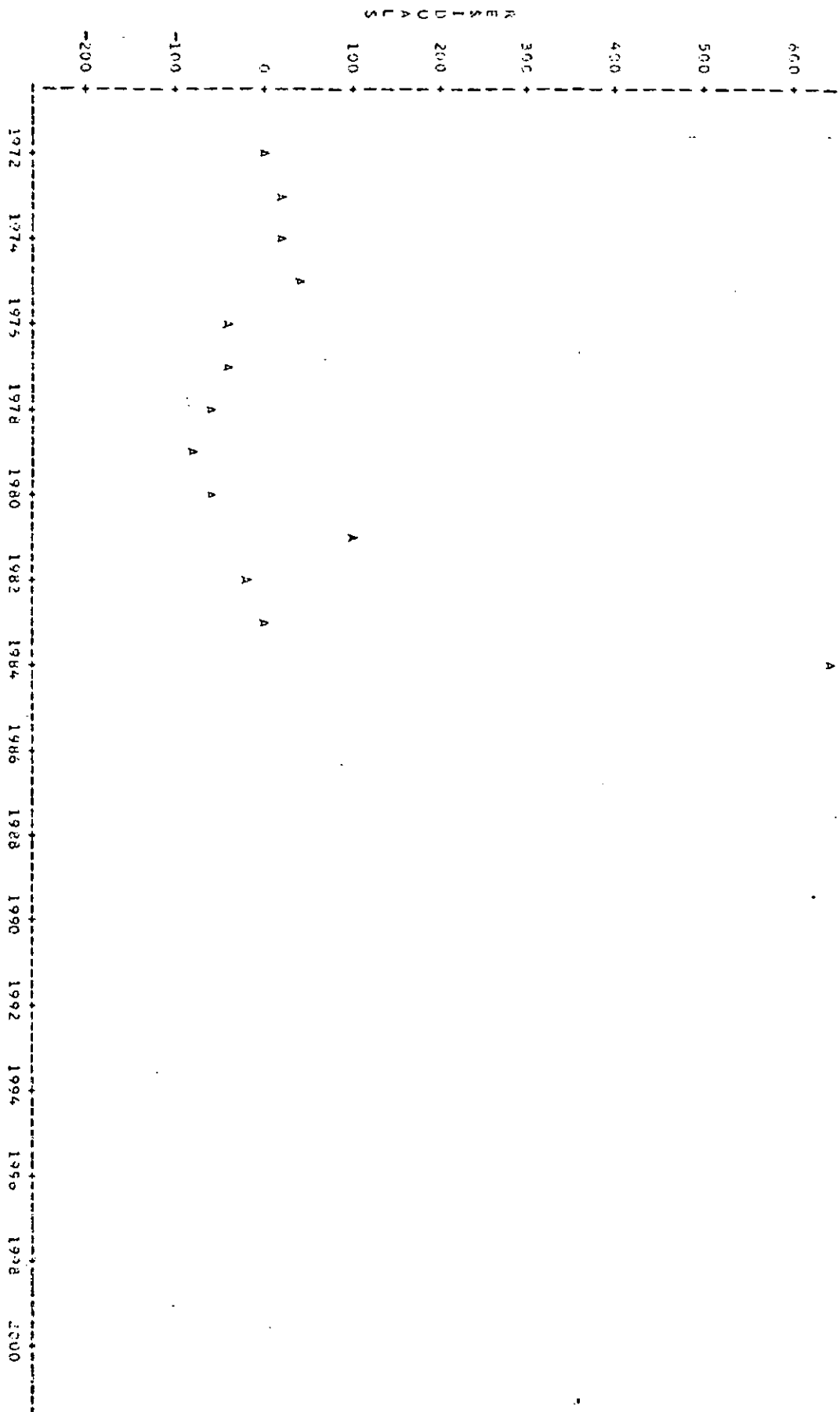
NOTE: 16 DMS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 TOTAL

ESTACION=LOCAL, AISLADAS

PLOT OF RESIDUAND LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS AND MISSING VALUES

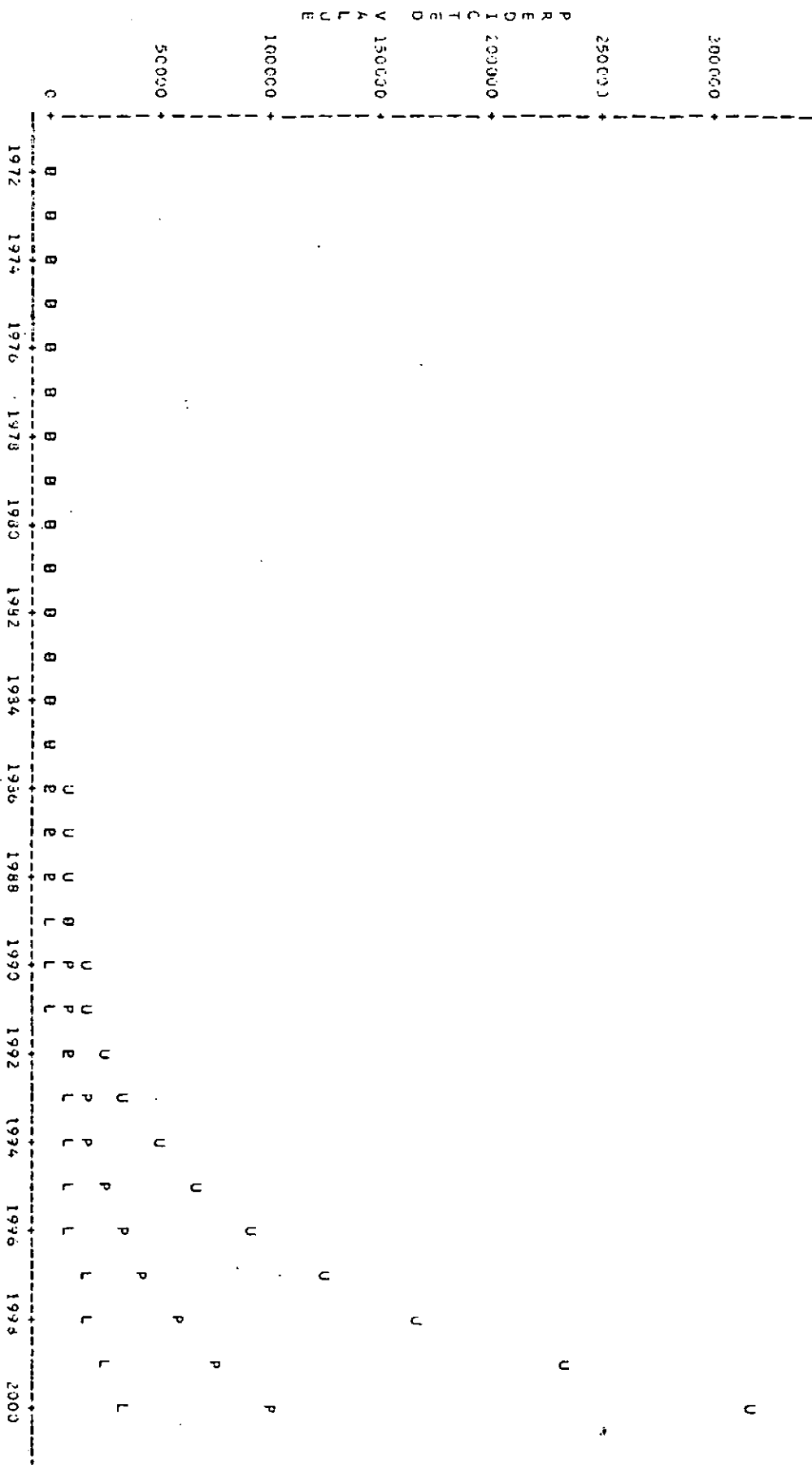
ANID



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=LOCAL. AISLADAS

PLOT OF TOTAL\*ANIO SYMBOL USED IS O  
PLOT OF PRED\*ANIO SYMBOL USED IS P  
PLOT OF 1950\*ANIO SYMBOL USED IS L  
PLOT OF 1950\*ANIO SYMBOL USED IS U



NOTE: 16 DGS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

-----ESTACION=TOTAL PROVINCIAL-----

ANIO	RESIDEN	PREU	L95	U95	RESID
1972	21930	22537	18579	27193	-601.5
1973	33851	25041	20847	30078	-1199.7
1974	45956	27822	25250	33292	-855.9
1975	23205	30912	25910	36860	-2707.0
1976	33199	34345	23950	40897	843.7
1977	41100	38160	32096	45369	2940.1
1978	46620	42398	35677	50380	4221.8
1979	52398	47107	39622	56007	5290.7
1980	58160	51339	43905	62309	5820.7
1981	56547	58153	48742	69379	-1603.5
1982	62405	64911	53994	77316	-3206.4
1983	62832	71726	59766	86228	-3935.6
1984	75313	79701	66105	90236	-4447.8
1985	.	86620	73047	107453	.
1986	.	98442	80711	120117	.
1987	.	109399	89104	134315	.
1988	.	121549	98318	150269	.
1989	.	135049	108403	168199	.
1990	.	150049	119337	188348	.
1991	.	166714	131728	210992	.
1992	.	189230	145112	236441	.
1993	.	205603	154805	265042	.
1994	.	228662	173938	297183	.
1995	.	244050	193650	333312	.
1996	.	262270	213096	373914	.
1997	.	313627	234449	419547	.
1998	.	348461	257592	470937	.
1999	.	397164	283634	529434	.
2000	.	430165	311897	593279	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=TOTAL PROVINCIAL

DEP VARIABLE: RESIDEN

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	2.01893592	2.01893592	353.530	0.0001
ERROR	11	0.05281368	0.0047510516		
C TOTAL	12	2.07174960			

ROOT MSE	0.0756796	R-SQUARE	0.9698
DFP MEAN	10.05480	ADJ R-SQ	0.9671
C.V.	0.7072345		

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0: PARAMETER=0	PROB >  T
INTERCEP	1	-107.67916	11.07972669	-17.841	0.0001
ANID	1	0.10533104	0.005601470	18.802	0.0001

ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	9.995	10.0224	0.0396	9.9358	10.1101	9.8351	10.2107	-0.0271	0.0644
2	10.0796	10.1283	0.0350	10.0513	10.2052	9.9457	10.3115	-0.0487	0.0670
3	10.2023	10.2336	0.0307	10.1560	10.3011	10.0541	10.4131	-0.0312	0.0691
4	10.2473	10.3389	0.0269	10.2798	10.3980	10.1624	10.5154	-0.0916	0.0706
5	10.4605	10.4442	0.0236	10.3919	10.4905	10.1699	10.6186	0.0243	0.0724
6	10.6235	10.5495	0.0217	10.5019	10.5973	10.3765	10.7226	0.0742	0.0724
7	10.7448	10.6544	0.0217	10.5637	10.7010	10.4823	10.8275	0.0949	0.0724
8	10.8645	10.7602	0.0217	10.7124	10.8079	10.5871	10.9322	0.1054	0.0717
9	10.9429	10.8655	0.0233	10.8132	10.9179	10.6911	11.0399	0.1054	0.0717
10	11.0751	10.9708	0.0269	10.9117	11.0300	10.7943	11.1473	-0.0280	0.0706
11	11.09414	11.0751	0.0307	11.0086	11.1437	10.8966	11.2557	-0.0347	0.0691
12	11.1815	11.1815	0.0350	11.1045	11.2585	10.9982	11.3647	-0.0806	0.0670
13	11.2294	11.2363	0.0396	11.1996	11.3740	11.0990	11.4745	-0.0574	0.0644
14		11.3921	0.0445	11.2943	11.4900	11.1991	11.5821		
15		11.4974	0.0495	11.3885	11.6063	11.2986	11.6862		
16		11.6028	0.0546	11.4826	11.7229	11.3976	11.8079		
17		11.7081	0.0596	11.5764	11.8397	11.4960	11.9202		
18		11.8134	0.0651	11.6711	11.9566	11.5939	12.0329		
19		11.9187	0.0704	11.7637	12.0737	11.6914	12.1460		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION-TOTAL PROVINCIAL

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	12.0240	0.0758	11.9573	12.1008	11.7885	12.2595	.	.
21	1992	.	12.1294	0.0814	11.9577	12.3090	11.8853	12.3735	.	.
22	1993	.	12.2347	0.0860	12.0441	12.4253	11.9817	12.4970	.	.
23	1994	.	12.3409	0.0920	12.1374	12.5426	12.0779	12.6021	.	.
24	1995	.	12.4453	0.0975	12.2307	12.6599	12.1733	12.7168	.	.
25	1996	.	12.5506	0.1030	12.3247	12.7773	12.2695	12.8318	.	.
26	1997	.	12.6559	0.1085	12.4172	12.8947	12.3650	12.9469	.	.
27	1998	.	12.7613	0.1147	12.5104	13.0121	12.4603	13.0623	.	.
28	1999	.	12.8666	0.1195	12.6036	13.1296	12.5554	13.1778	.	.
29	2000	.	12.9719	0.1250	12.6969	13.2471	12.6504	13.2934	.	.

OBS ID STUDENT  
RESIDUAL

-2-1-0 1 2

COOK'S  
D

1	1972	-0.4203			0.033
2	1973	-0.7267		4	0.072
3	1974	-0.4524			0.020
4	1975	-1.2975		**	0.122
5	1976	0.3383			0.006
6	1977	1.0254		**	0.047
7	1978	1.3774		**	0.071
8	1979	1.4764		**	0.057
9	1980	1.4760		**	0.119
10	1981	-0.3959			0.011
11	1982	-0.5931		*	0.025
12	1983	-1.2925		*	0.223
13	1984	-0.6916		*	0.151
14	1985	.		.	.
15	1986	.		.	.
16	1987	.		.	.
17	1988	.		.	.
18	1989	.		.	.
19	1990	.		.	.
20	1991	.		.	.
21	1992	.		.	.
22	1993	.		.	.
23	1994	.		.	.
24	1995	.		.	.
25	1996	.		.	.
26	1997	.		.	.
27	1998	.		.	.
28	1999	.		.	.
29	2000	.		.	.

SUM OF RESIDUALS -4.01013E-13  
SUM OF SQUARED RESIDUALS 0.05281508  
PREDICTED RESID SS (PRESS) 0.08379664

DURBIN-WATSON D 0.672  
(FOR NUMBER OF OBS.) 13

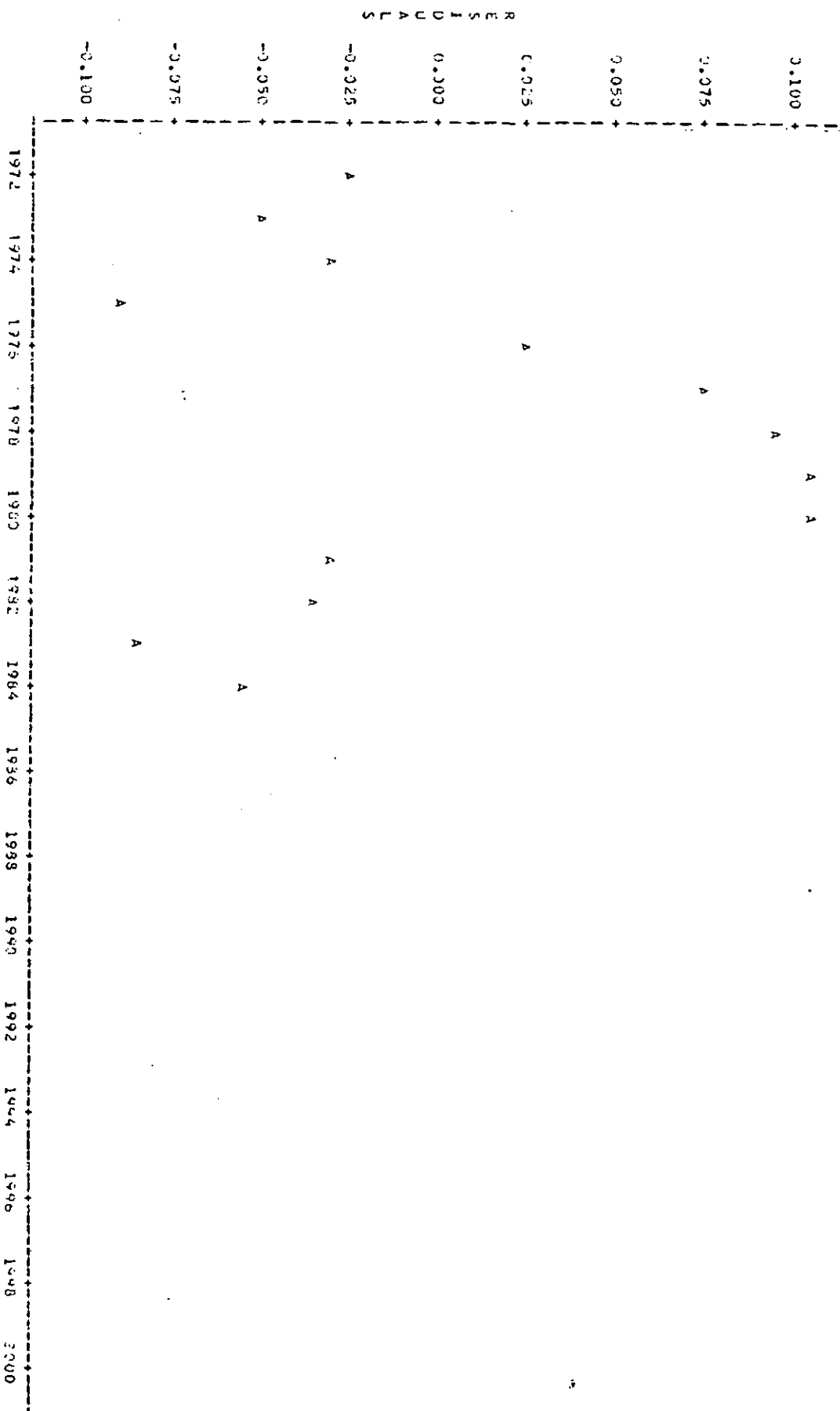
1ST ORDER AUTOCORRELATION 0.631

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=IDIAL PROVINCIAL

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=TOTAL PROVINCIAL

PLOT OF RESIDU+ANIO LEGEND: A = 1 OBS, R = 2 OBS, ETC.



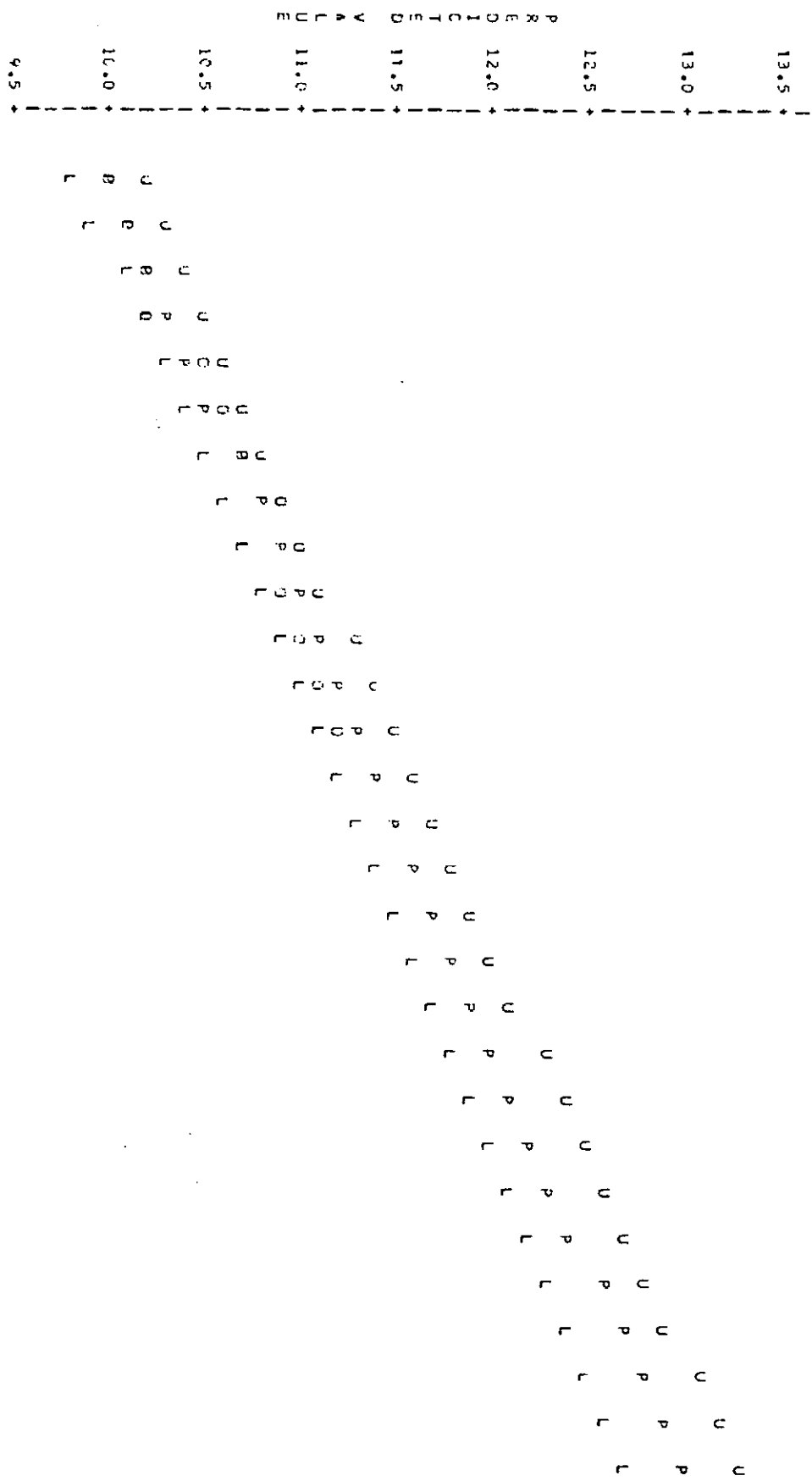
NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=TOTAL PROVINCIAL

PLOT OF RESIDEN\*ANIO SYMBOL USED IS O  
 PLOT OF PRED\*ANIO SYMBOL USED IS P  
 PLOT OF L95\*ANIO SYMBOL USED IS L  
 PLOT OF U95\*ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=TOTAL PROVINCIAL

PLOT OF RESID=ANIO LEGEND: A = 1 085, B = 2 035, ETC.



NOTE: 16 035 HAD MISSING VALUES

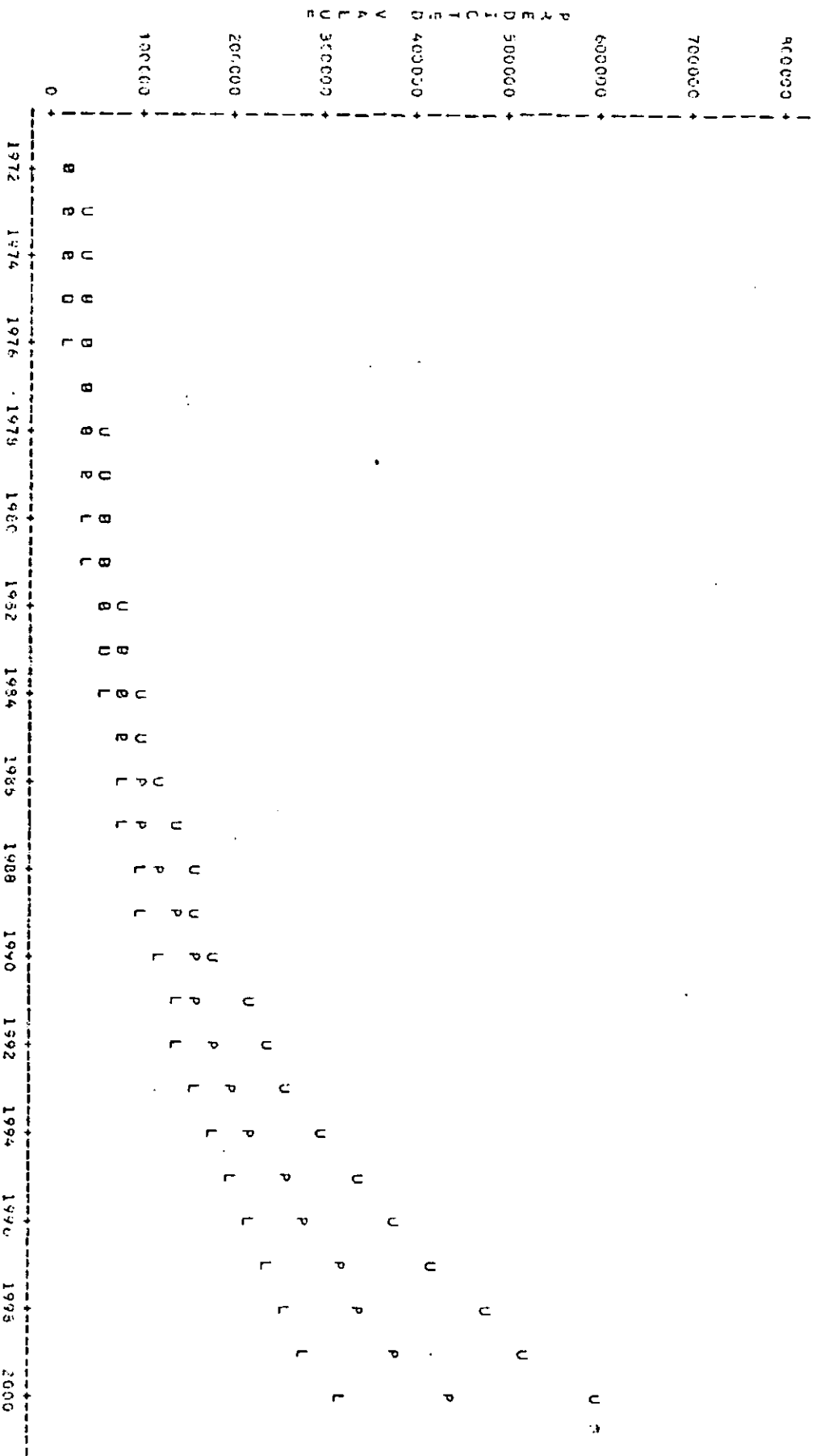
ANIO



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=TOTAL PROVINCIAL

PLOT OF RESIDEN\*ANIO SYMBOL USED IS D  
 PLOT OF PRE\*ANIO SYMBOL USED IS P  
 PLOT OF L95\*ANIO SYMBOL USED IS L  
 PLOT OF U95\*ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=REALICO

ANIO	RESIDEN	PREO	LVS	UVS	RESID
1972	1653	1541.6	1673.8	2213.1	111.44
1973	1915	1724.6	1711.4	2453.7	-209.04
1974	1636	1926.1	1584.6	2724.3	-292.11
1975	1563	2156.3	1554.9	3029.3	-273.24
1976	2545	2411.5	1723.5	3373.8	154.42
1977	3294	2697.0	1931.7	3763.6	590.45
1978	3586	3016.3	2163.3	4205.5	569.71
1979	4090	3573.3	2417.4	4767.3	710.68
1980	3275	3772.6	2696.7	5277.8	-497.62
1981	4387	4219.2	3603.3	5927.2	167.82
1982	5056	4719.5	3339.6	6547.1	339.40
1983	4585	5277.1	3797.9	7310.5	-692.14
1984	5368	5901.8	4110.9	8472.8	-532.79
1985	.	6660.4	4351.8	9576.9	.
1986	.	7321.7	5633.9	10824.5	.
1987	.	8235.4	5560.8	12255.5	.
1988	.	9232.5	6135.7	13300.4	.
1989	.	10325.5	6766.1	15757.4	.
1990	.	11547.7	7453.8	17890.0	.
1991	.	12914.9	8405.4	20326.5	.
1992	.	14443.3	9026.7	23110.2	.
1993	.	16152.9	9924.2	26290.9	.
1994	.	18064.4	10905.2	29925.4	.
1995	.	20203.3	11977.2	34079.0	.
1996	.	22594.7	13149.0	39826.0	.
1997	.	25209.2	14429.7	44451.5	.
1998	.	28260.3	15929.5	50453.2	.
1999	.	31605.5	17359.5	57542.4	.
2000	.	35346.5	19031.9	65546.5	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=REALICO

DEP VARIABLE: RESIDEN

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	4.47777493	2.27777333	107.569	0.0001
ERROR	11	0.23292320	0.02117502		
C TOTAL	12	2.51079803			

ROOT MSE 0.1455164  
DEP MEAN 3.111792  
C.V. 1.11623  
R-SQUARE 0.9972  
ADJ R-SQ 0.9968

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEP	1	-215.27935	21.33552146	-9.996	0.0001
ANIO	1	0.11187155	0.01078639	10.372	0.0001

U35	U	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
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1	1972	7.4105	7.3460	0.0763	7.1727	7.5064	6.9789	7.7022	0.0698	0.1239
2	1973	7.3232	7.4524	0.0674	7.3042	7.6067	7.0995	7.8054	-0.1193	0.1290
3	1974	7.4000	7.5643	0.0591	7.4343	7.6943	7.2136	7.9190	-0.1543	0.1330
4	1975	7.5405	7.6752	0.0317	7.5523	7.7900	7.3353	8.0121	-0.1555	0.1369
5	1976	7.8501	7.7980	0.0458	7.4873	7.8898	7.4513	8.1236	0.0921	0.1381
6	1977	8.0999	7.8999	0.0413	7.8040	7.9919	7.5567	8.2331	0.1994	0.1394
7	1978	8.1846	8.0118	0.0404	7.9230	8.1005	7.6794	8.3442	0.1730	0.1398
8	1979	8.3163	8.1237	0.0410	8.0317	8.2156	7.7934	8.4569	0.1920	0.1394
9	1980	8.0941	8.2355	0.0455	8.1346	8.3362	7.8958	8.5713	-0.1415	0.1391
10	1981	8.3864	8.3474	0.0317	8.2335	8.4613	8.0375	8.6375	0.0348	0.1360
11	1982	8.5287	8.4593	0.0591	8.3292	8.5893	8.1136	8.8049	-0.0593	0.1330
12	1983	8.4305	8.5711	0.0674	8.4229	8.7194	8.2192	8.9241	-0.1406	0.1290
13	1984	8.5362	8.6835	0.0763	8.5151	8.8509	8.3214	9.0446	-0.0948	0.1239
14	1985	.	8.7949	0.0856	8.6044	8.9333	8.4233	9.1065	.	.
15	1986	.	8.9063	0.0953	8.6971	9.1164	8.5239	9.2896	.	.
16	1987	.	9.0185	0.1051	8.7872	9.2500	8.6235	9.4138	.	.
17	1988	.	9.1305	0.1152	8.9702	9.3840	8.7220	9.5389	.	.
18	1989	.	9.2424	0.1253	8.9665	9.5182	8.8197	9.6651	.	.
19	1990	.	9.3542	0.1356	9.0558	9.6527	8.9165	9.7920	.	.

PROVINCIA DE LA PAPA  
SERIES HISTORICAS DE ENERGIA (WHH)  
MODELO ECONOMIAL  
SECTOR RESIDENCIAL

ESTACION=REALICO

035	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	9.4561	0.1459	9.1450	9.7873	9.0125	9.9197	.	.
21	1992	.	9.5780	0.1563	9.2339	9.9220	9.1079	10.0460	.	.
22	1993	.	9.6597	0.1668	9.3226	10.0569	9.2027	10.1770	.	.
23	1994	.	9.8017	0.1772	9.4116	10.1916	9.2970	10.3065	.	.
24	1995	.	9.9130	0.1873	9.5003	10.3259	9.3905	10.4364	.	.
25	1996	.	10.0257	0.1983	9.5890	10.4619	9.4841	10.5668	.	.
26	1997	.	10.1373	0.2089	9.6776	10.5971	9.5773	10.6976	.	.
27	1998	.	10.2492	0.2195	9.7662	10.7323	9.6696	10.8283	.	.
28	1999	.	10.3611	0.2301	9.8547	10.8675	9.7619	10.9593	.	.
29	2000	.	10.4731	0.2407	9.9432	11.0028	9.8539	11.0920	.	.

035 STUDENT  
ID RESIDUAL

-2-1-0 1 2

COOK'S  
D

1	1972	0.5632	*	0.060
2	1973	-1.0721	**	0.137
3	1974	-1.2354	**	0.151
4	1975	-0.9966	*	0.072
5	1976	0.4493		0.011
6	1977	1.4344	**	0.092
7	1978	1.2375	**	0.064
8	1979	1.3621	**	0.086
9	1980	-1.0240	**	0.058
10	1981	0.2663		0.006
11	1982	0.5223	*	0.017
12	1983	-1.0900	**	0.162
13	1984	-0.7456	*	0.111
14	1985	.		.
15	1986	.		.
16	1987	.		.
17	1988	.		.
18	1989	.		.
19	1990	.		.
20	1991	.		.
21	1992	.		.
22	1993	.		.
23	1994	.		.
24	1995	.		.
25	1996	.		.
26	1997	.		.
27	1998	.		.
28	1999	.		.
29	2000	.		.

SUM OF RESIDUALS -3.94351E-13  
SUM OF SQUARED RESIDUALS 0.2329252  
PREDICTED RESID 55 (PRESS5) 0.3131017

DURBIN-WATSON D 1.254  
(FOR NUMBER OF OBS.) 13

1ST ORDER AUTOCORRELATION 0.343

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=REALICO



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SET FOR RESIDENCIAL

ESTACION=REALICO

PLOT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



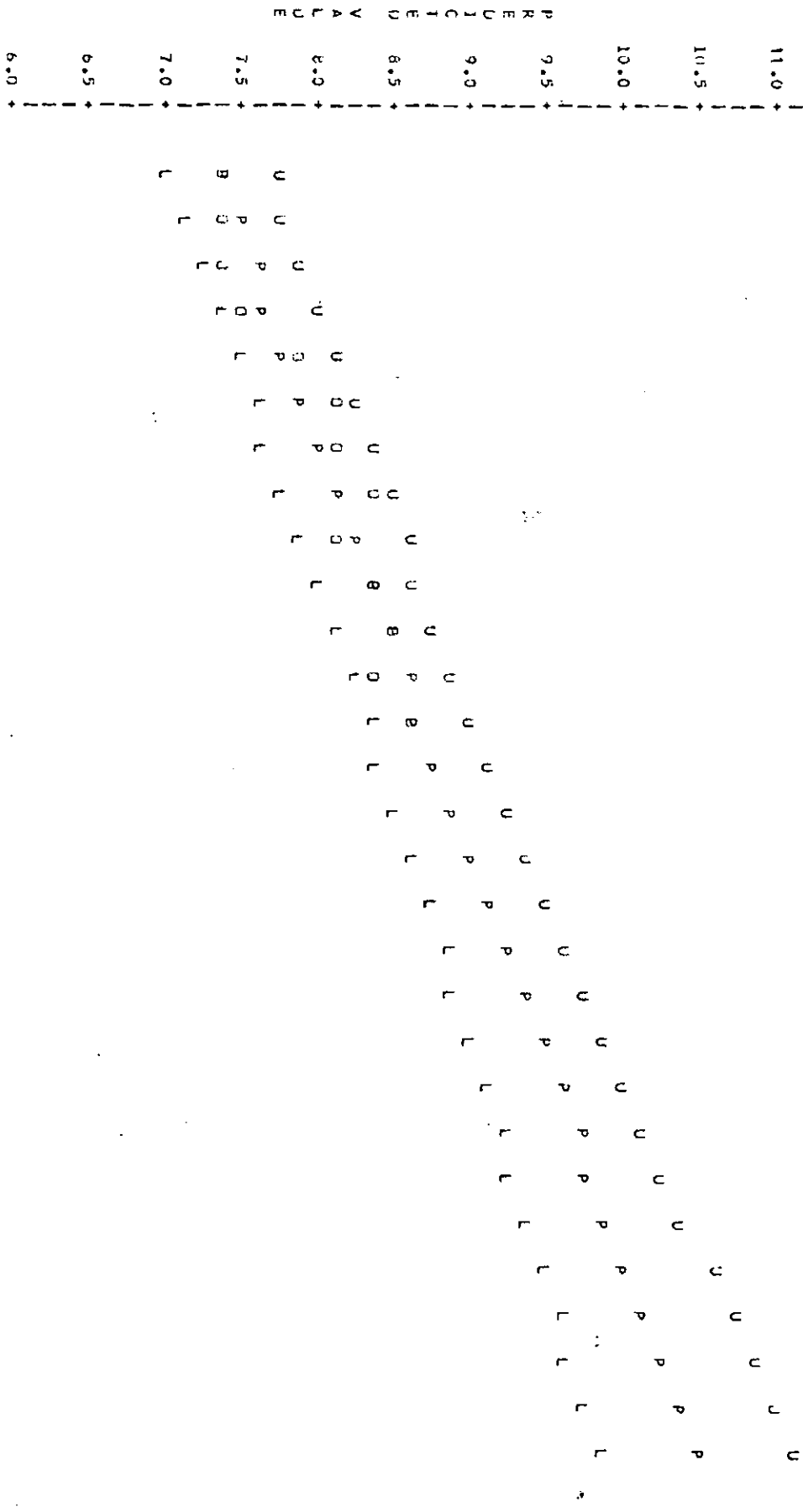
NOTE: 16 OBS HAD MISSING VALUES

AÑO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=REALICO

PLOT OF RESIDEN\*ANIO SYMBOL USED IS O  
 PLOT OF PRED\*ANIO SYMBOL USED IS P  
 PLOT OF L95\*ANIO SYMBOL USED IS L  
 PLOT OF U95\*ANIO SYMBOL USED IS U



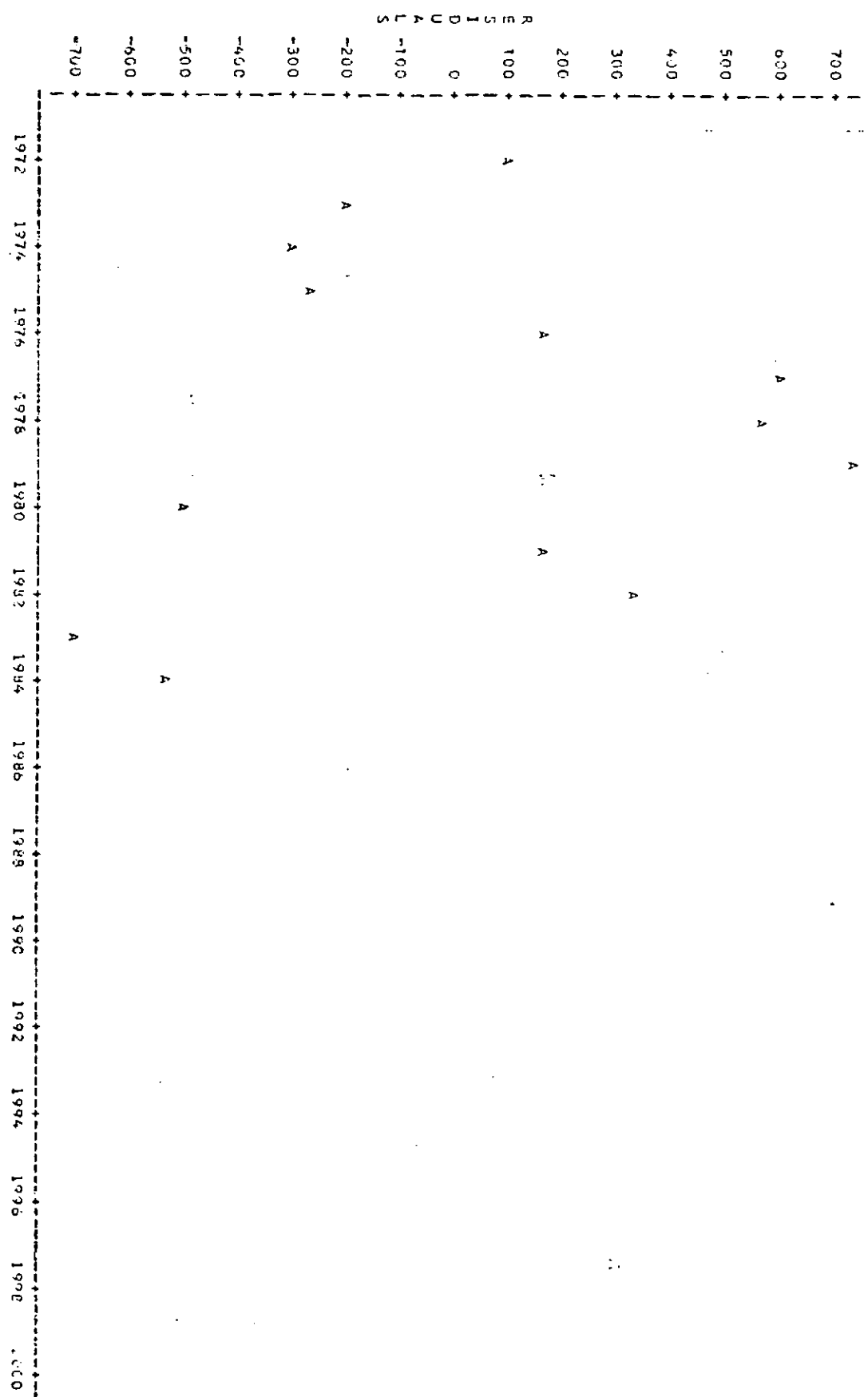
NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=REALICO

PLUOT DE RESID+ANIO      LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

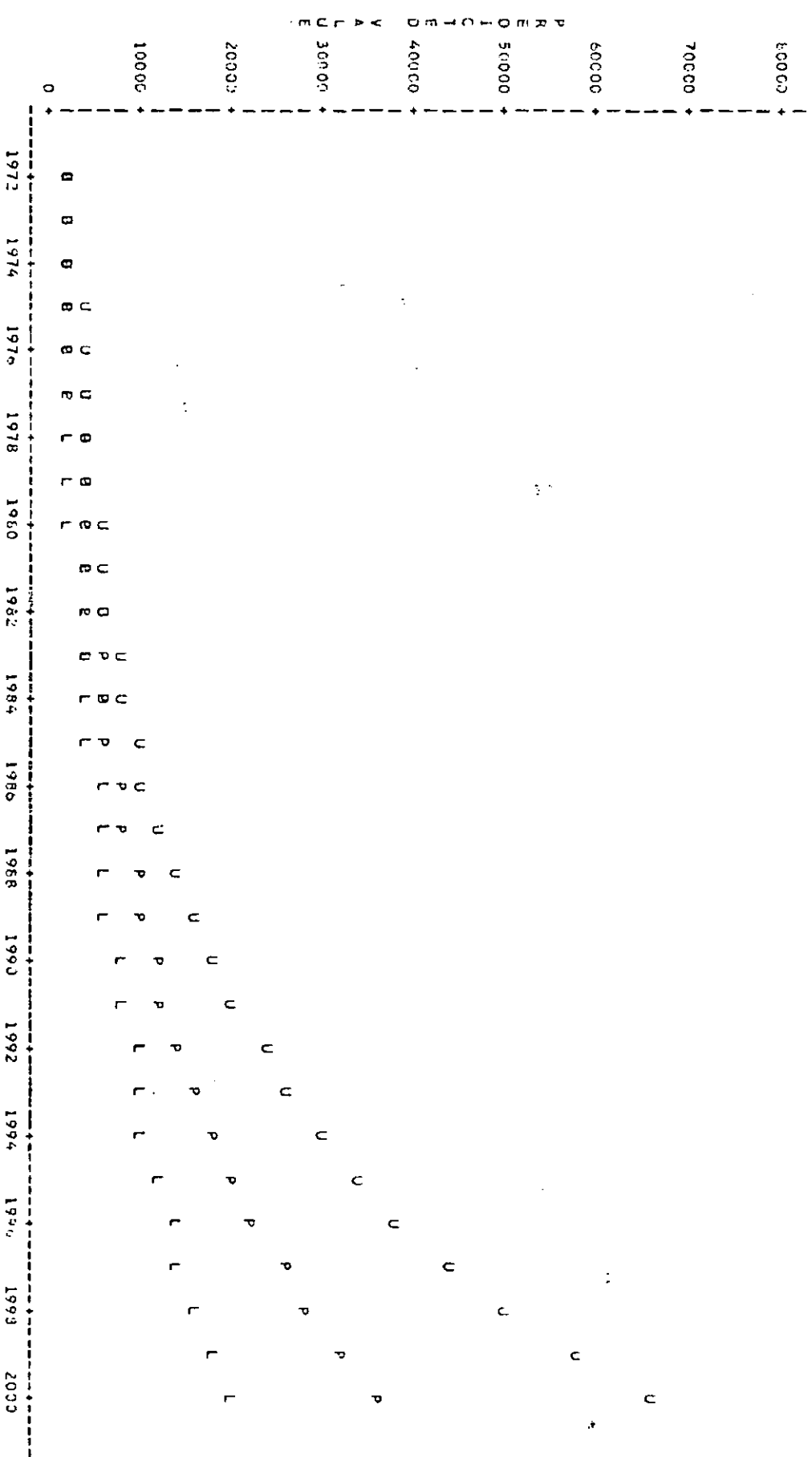
ANIO



PROVINCIA DE LA PAPA  
 SERIE HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=REALICO

PLOT OF RESIDEN+ANIO      SYMBOL USED IS U  
 PLOT OF PRED+ANIO      SYMBOL USED IS P  
 PLOT OF 195+ANIO      SYMBOL USED IS L  
 PLOT OF U95+ANIO      SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=GRAL. PICO

ANIO	RESIDEN	PREC	L95	U95	RESID
1972	7195	7562	5647.1	11329	-366.7
1973	7163	8370	5641.2	12420	-1202.3
1974	6253	9265	5295.2	13635	-1002.3
1975	8948	10256	7013.4	14998	-1308.0
1976	12603	11353	7799.6	16524	1250.4
1977	15142	12367	8658.0	18240	2575.4
1978	17200	13910	9592.9	20171	3289.7
1979	18793	15398	10608.6	22349	3385.3
1980	21131	17044	11709.8	24808	4136.9
1981	17341	15367	12501.6	27589	-1625.6
1982	13853	20534	14149.5	30737	-2030.9
1983	20348	23117	15579.8	34301	-2769.0
1984	22167	23989	17079.1	38338	-3421.8
1985	.	23325	19695.4	42915	.
1986	.	31354	20436.6	48102	.
1987	.	34706	22312.6	53984	.
1988	.	30417	24333.2	60653	.
1989	.	42515	26509.6	68216	.
1990	.	47072	29854.1	76793	.
1991	.	51105	31379.3	86520	.
1992	.	57677	34101.2	97552	.
1993	.	63344	37038.7	110665	.
1994	.	73671	40194.1	124257	.
1995	.	78228	43609.6	140355	.
1996	.	86592	47172.8	158617	.
1997	.	95852	51231.7	179332	.
1998	.	106101	55500.2	202834	.
1999	.	117446	60102.9	229495	.
2000	.	130004	65065.1	259752	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=GRAL. PICO

DEP VARIABLE: RESIDEN

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.87825442	1.87825442	70.961	0.0001
ERROR	11	0.27116018	0.024646911		
C TOTAL	12	2.16942460			

ROOT MSE 0.1626933 R-SQUARE 0.8653  
DEP MEAN 9.540382 ADJ R-SQ 0.8536  
C.V. 1.705312

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0: PARAMETER=0	PROB >  T
INTERCEP	1	-191.47767	23.53596920	-8.024	0.0001
ANID	1	0.10153806	0.010205963	8.424	0.0001

DEP	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	8.8811	9.9309	0.0353	8.7432	9.1185	8.5266	9.3351	-0.0497	0.1395
2	1973	8.8774	9.0324	0.0793	8.5667	9.1982	8.6378	9.4270	-0.1551	0.1442
3	1974	9.0195	9.1340	0.0661	8.9686	9.2794	8.7176	9.5205	-0.1145	0.1467
4	1975	9.0992	9.2356	0.0578	9.1093	9.3629	8.8355	9.6157	-0.1364	0.1521
5	1976	9.4417	9.3372	0.0512	9.2246	9.4498	8.9618	9.7116	-0.1043	0.1544
6	1977	9.6252	9.4383	0.0457	9.3367	9.5416	9.0562	9.8113	-0.1634	0.1559
7	1978	9.7527	9.5424	0.0451	9.4411	9.6397	9.1668	9.9120	-0.1143	0.1563
8	1979	9.8487	9.6420	0.0467	9.5392	9.7448	9.2694	9.9145	-0.1937	0.1558
9	1980	9.9009	9.7436	0.0512	9.6309	9.8502	9.3652	10.1189	-0.2173	0.1544
10	1981	9.7550	9.8451	0.0576	9.7179	9.9724	9.4551	10.2252	-0.0901	0.1541
11	1982	9.8444	9.9457	0.0541	9.8014	10.0921	9.5803	10.3352	-0.1023	0.1487
12	1983	9.9207	10.0483	0.0753	9.8826	10.02141	9.6537	10.4429	-0.1276	0.1442
13	1984	10.0664	10.1497	0.0553	9.9622	10.3376	9.7456	10.5942	-0.1436	0.1336
14	1985	10.2515	10.2515	0.0957	10.0406	10.4622	9.9360	10.6670	.	.
15	1986	10.3531	10.3531	0.1005	10.1187	10.5875	9.9251	10.7611	.	.
16	1987	10.4547	10.4547	0.1175	10.1960	10.7134	10.0129	10.8964	.	.
17	1988	10.5563	10.5563	0.1283	10.2729	10.8397	10.0995	11.0129	.	.
18	1989	10.6579	10.6579	0.1401	10.3494	10.9663	10.1853	11.1304	.	.
19	1990	10.7594	10.7594	0.1516	10.4258	11.0931	10.2700	11.2489	.	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (HMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=GRAL. PICO

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	10.9610	0.1631	10.5020	11.2201	10.3539	11.3691	.	.
21	1992	.	10.9626	0.1748	10.5780	11.3473	10.4371	11.4811	.	.
22	1993	.	11.0642	0.1864	10.6539	11.4746	10.5196	11.6088	.	.
23	1994	.	11.1653	0.1932	10.7296	11.6019	10.6015	11.7301	.	.
24	1995	.	11.2674	0.2099	10.8053	11.7294	10.6828	11.8519	.	.
25	1996	.	11.3690	0.2217	10.8810	11.8570	10.7637	11.9742	.	.
26	1997	.	11.4706	0.2335	10.9565	11.9846	10.8441	12.0970	.	.
27	1998	.	11.5721	0.2454	11.0321	12.1122	10.9241	12.2201	.	.
28	1999	.	11.6737	0.2572	11.1075	12.2399	11.0038	12.3437	.	.
29	2000	.	11.7753	0.2691	11.1830	12.3677	11.0832	12.4675	.	.

OBS ID STUDENT RESIDUAL -2 -1 0 1 2 COOK'S D

1	1972	-0.3598				0.024
2	1973	-1.0752		+		0.158
3	1974	-0.7700		+		0.059
4	1975	-0.8972		+		0.058
5	1976	0.6765		+		0.025
6	1977	1.1963		+		0.064
7	1978	1.3561		+		0.077
8	1979	1.2752		+		0.073
9	1980	1.4070		+		0.109
10	1981	-0.5925		+		0.025
11	1982	-0.6891		+		0.047
12	1983	-0.8447		+		0.107
13	1984	-1.0361		+		0.203
14	1985	.				.
15	1986	.				.
16	1987	.				.
17	1988	.				.
18	1989	.				.
19	1990	.				.
20	1991	.				.
21	1992	.				.
22	1993	.				.
23	1994	.				.
24	1995	.				.
25	1996	.				.
26	1997	.				.
27	1998	.				.
28	1999	.				.
29	2000	.				.

SUM OF RESIDUALS -4.16112E-13  
SUM OF SQUARED RESIDUALS 0.2911062  
PREDICTED RESID SS (PRESS) 0.3906984

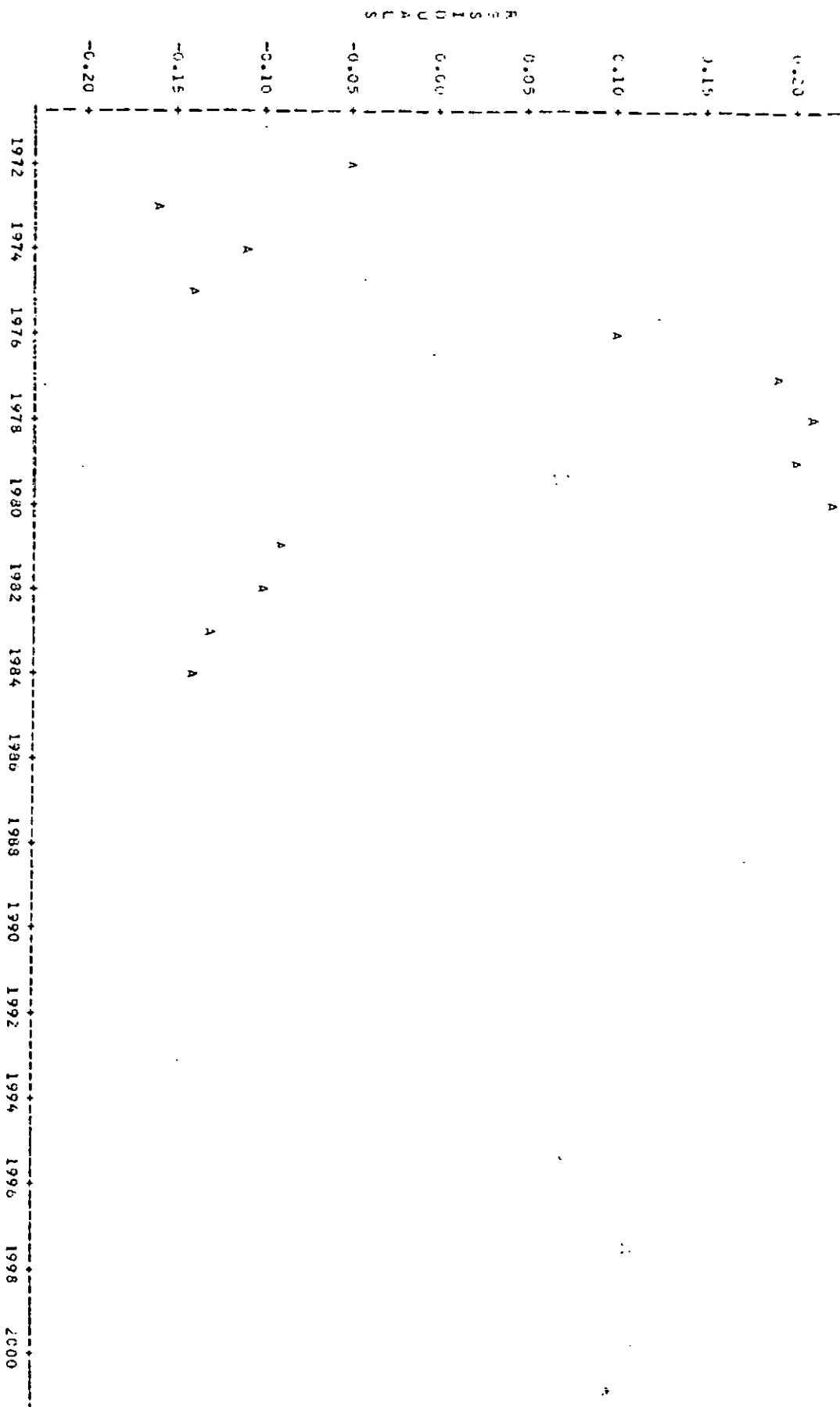
DURBIN-WATSON D 0.600  
(FOR NUMBER OF OBS.) 13

1ST ORDER AUTOCORRELATION 0.000

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=GRAL. PICO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL  
 ESTACION=GRAL. PICO

PLOT OF RESIDUANO      LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

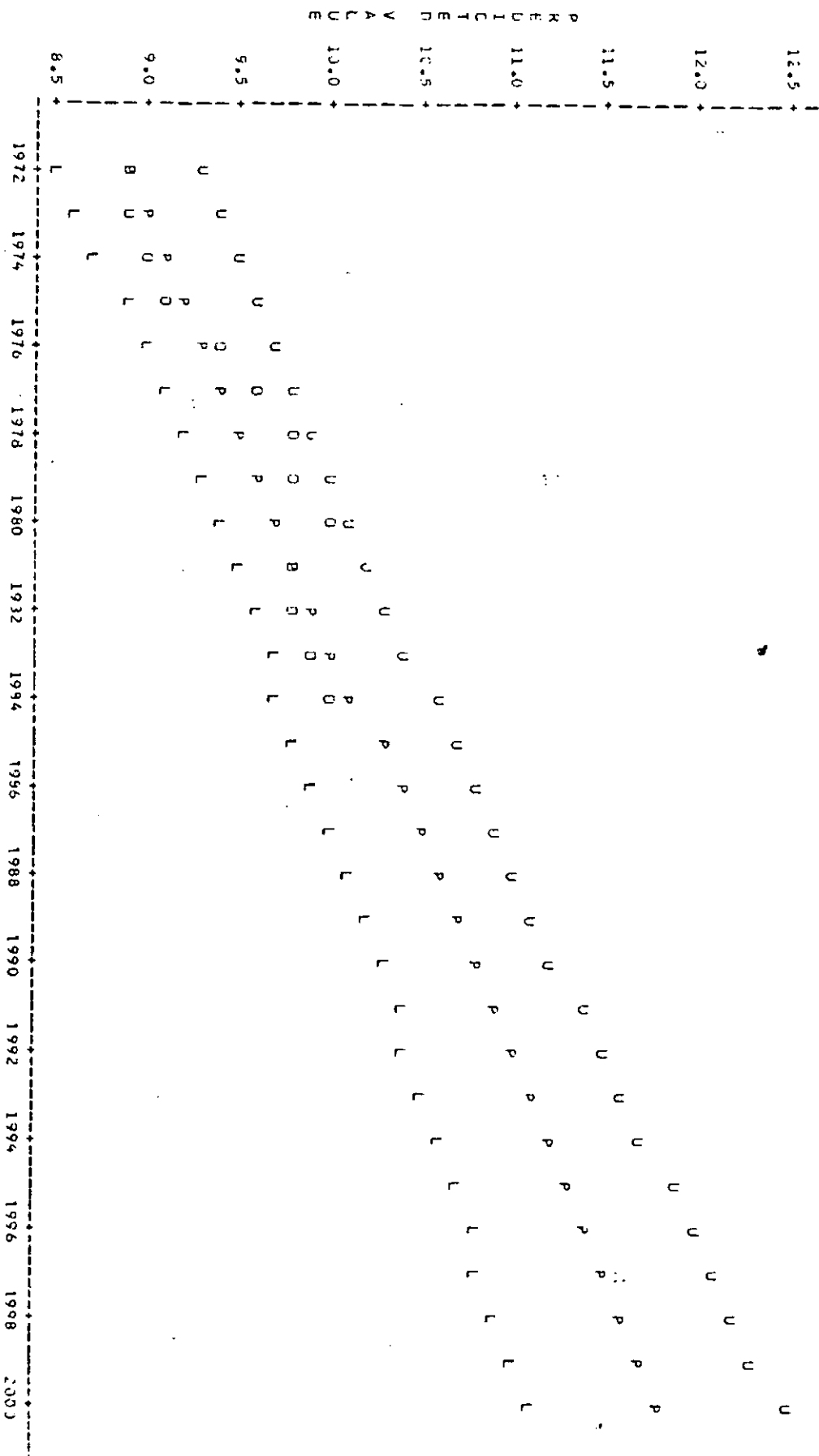
AÑO

PROVINCIA DE LA PAPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACIONAL. PICO

PLOT DE RESIDENCIAL ANIO  
PLOT DE PREANAL  
PLOT DE L95ANAL  
PLOT DE U95ANAL

SYMBOL USED IS O  
SYMBOL USED IS P  
SYMBOL USED IS L  
SYMBOL USED IS U



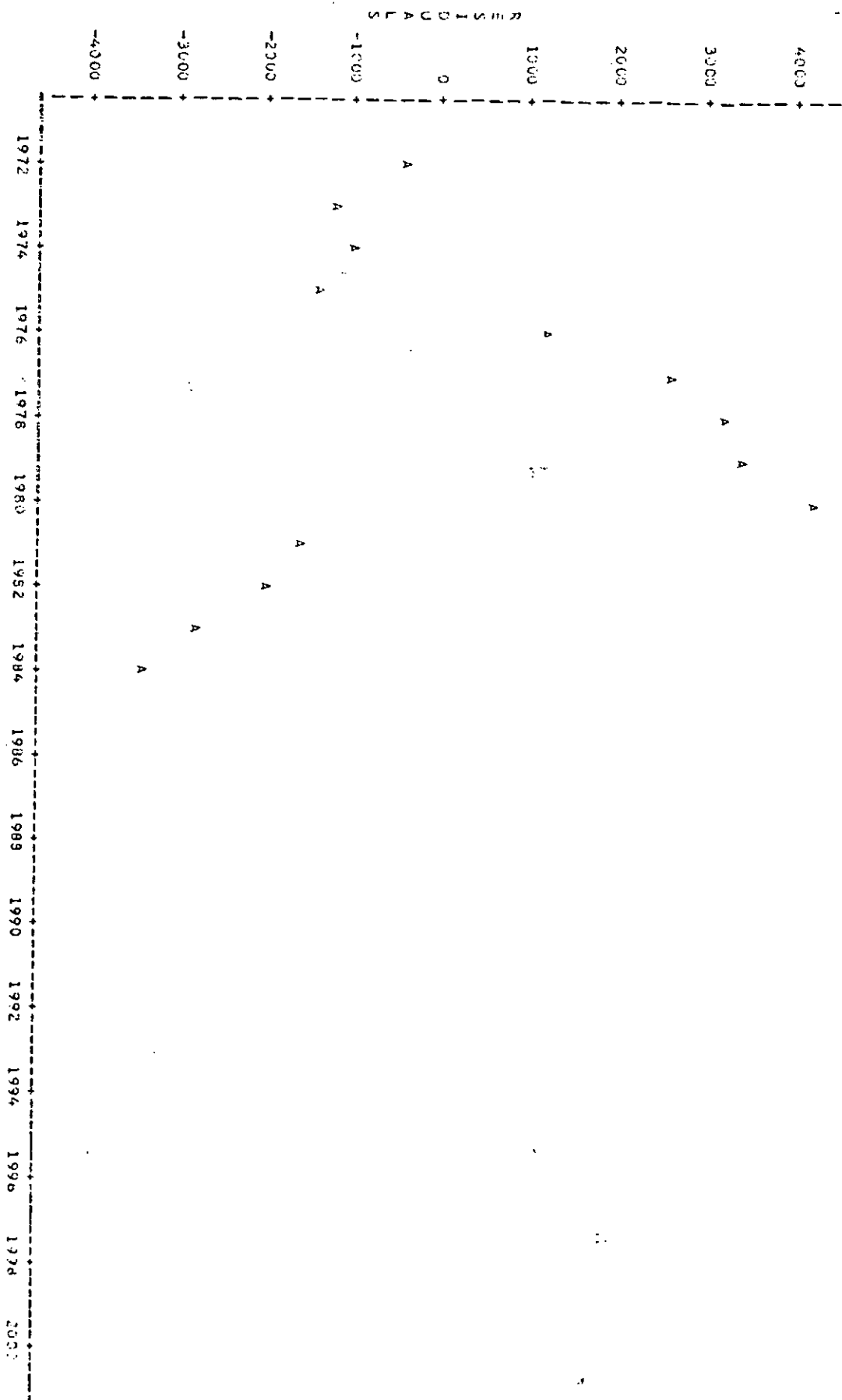
NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=GRAL. PICO

PLUT OF RESID\*ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

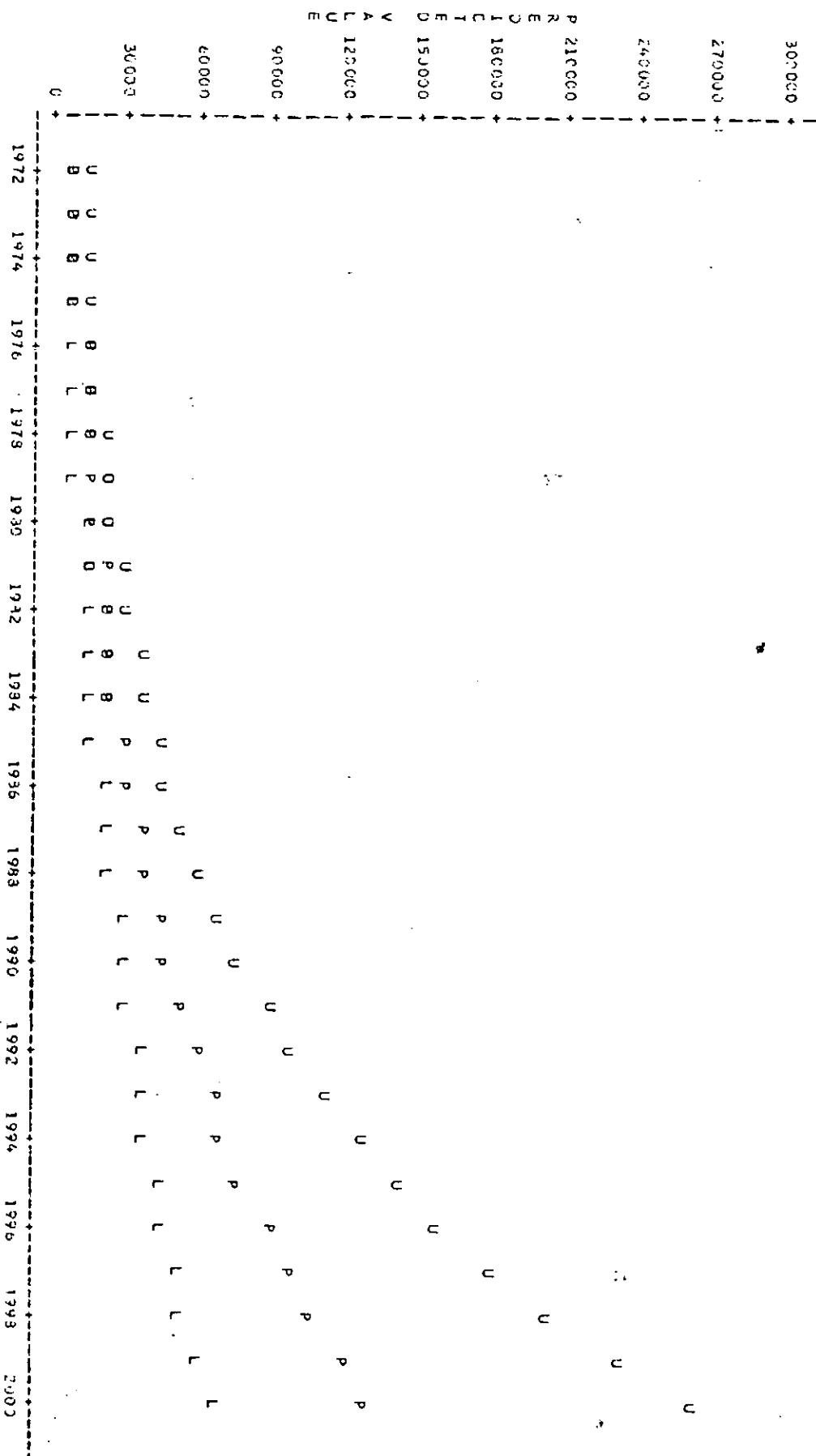
ANIO



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACIONAL, PICO

PL0T OF RESIDEN\*ANIO SYMBOL USED IS U  
 PL0T OF PRE\*ANIO SYMBOL USED IS P  
 PL0T OF 195\*ANIO SYMBOL USED IS L  
 PL0T OF 045\*ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=ANIA ROSA

ANIO	RESIDEN	PRGD	L95	U95	RESID
1972	10264	12190	8927	11763	74.1
1973	12605	11296	9819	12995	738.8
1974	13544	12523	10817	14304	1021.4
1975	13537	13342	12130	15947	-345.1
1976	14922	15389	13469	17583	-467.3
1977	15305	17060	14946	19473	-1295.1
1979	17443	13912	16575	21580	-14222.3
1979	20213	20965	18363	23930	-752.6
1980	23192	23242	20342	26555	510.2
1981	46748	25765	22513	29487	982.9
1982	49512	28562	24900	32763	949.6
1983	31019	31663	27524	30425	-644.3
1984	36935	35101	20407	40519	1834.0
1985	.	38912	33575	45097	.
1986	.	43136	37055	50216	.
1987	.	47320	40375	55940	.
1988	.	53011	45977	62342	.
1989	.	58767	49689	69503	.
1990	.	65147	54736	77511	.
1991	.	72220	60321	86467	.
1992	.	80061	66434	96483	.
1993	.	88755	73149	107686	.
1994	.	98389	80525	120215	.
1995	.	109071	88929	134227	.
1996	.	120712	97531	149809	.
1997	.	134046	107310	167427	.
1998	.	148592	119034	187030	.
1999	.	164745	129356	208956	.
2000	.	182508	142322	235478	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=SANJA ROSA

DEP VARIABLE: RESIDEN

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.93345153	1.93345153	579.480	0.0001
ERROR	11	0.03670134	0.003336531		
C TOTAL	12	1.97015337			

R-DI ME 0.05776271 R-SQUARE 0.9814  
DEP MEAN 9.847566 ADJ R-SQ 0.9797  
C.V. 0.585584

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEP	1	-194.02427	8.46913284	-22.910	0.0001
ANIO	1	0.10306959	0.004251057	24.072	0.0001

URS	IN	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	9.2364	9.2291	0.0303	9.1625	9.2958	9.0856	9.3727	-0.072430	0.0492
2	1973	9.3397	9.3322	0.0267	9.2734	9.3911	9.1921	9.4723	0.0675	0.0512
3	1974	9.5137	9.4353	0.0235	9.3837	9.4866	9.2931	9.5725	0.0764	0.0528
4	1975	9.5132	9.5384	0.0205	9.4932	9.5836	9.4034	9.6733	-0.0252	0.0540
5	1976	9.0106	9.6414	0.0182	9.5014	9.6914	9.5032	9.7747	-0.0306	0.0548
6	1977	9.6393	9.7445	0.0166	9.7035	9.7810	9.6122	9.7769	-0.0366	0.0553
7	1978	9.7854	9.8476	0.0160	9.8123	9.9829	9.7156	9.9795	-0.0742	0.0555
8	1979	9.9141	9.9506	0.0166	9.9141	9.9871	9.8134	10.0823	-0.0302	0.0553
9	1980	10.0754	10.0537	0.0182	10.0137	10.0937	9.9204	10.1870	0.0217	0.0548
10	1981	10.1742	10.1568	0.0205	10.1116	10.2020	10.0213	10.2917	0.0374	0.0540
11	1982	10.2926	10.2598	0.0235	10.2082	10.3115	10.1226	10.3971	0.0327	0.0528
12	1983	10.3424	10.3639	0.0207	10.3041	10.4218	10.2223	10.5030	-0.0206	0.0512
13	1984	10.5167	10.4460	0.0305	10.3973	10.5326	10.3224	10.6095	0.0509	0.0492
14	1985		10.5881	0.0340	10.4943	10.6439	10.4215	10.7166		
15	1986		10.6721	0.0373	10.5889	10.7554	10.5202	10.8241		
16	1987		10.7752	0.0417	10.6833	10.8670	10.6193	10.9320		
17	1988		10.8783	0.0457	10.7776	10.9789	10.7161	11.0904		
18	1989		10.9813	0.0497	10.8718	11.0908	10.8135	11.1491		
19	1990		11.0844	0.0538	10.9659	11.2029	10.9106	11.2592		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION= SANTA ROSA

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER 95% MEAN	UPPER 95% MEAN	LOWER 95% PREDICT	UPPER 95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	11.1875	0.0579	11.0600	11.3150	11.0074	11.3675	.	.
21	1992	.	11.2905	0.3020	11.1540	11.4271	11.1040	11.4771	.	.
22	1993	.	11.3936	0.7962	11.1247	11.5393	11.1202	11.5679	.	.
23	1994	.	11.4967	0.0704	11.3419	11.6515	11.2863	11.5970	.	.
24	1995	.	11.5998	0.0745	11.4357	11.7638	11.3922	11.6073	.	.
25	1996	.	11.7026	0.0787	11.5296	11.8761	11.4879	11.9177	.	.
26	1997	.	11.8059	0.3829	11.4234	11.9884	11.5335	12.0283	.	.
27	1998	.	11.9090	0.0971	11.7172	12.1007	11.6789	12.1390	.	.
28	1999	.	12.0120	0.0913	11.8115	12.2130	11.7742	12.2499	.	.
29	2000	.	12.1151	0.0955	11.9048	12.3254	11.8694	12.3608	.	.

OBS 13 STUDENT RESIDUAL -2 -1 0 1 2 CRUK'S C

1	1972	0.1474			0.004
2	1973	1.3184		**	0.037
3	1974	1.4854		**	0.018
4	1975	-0.4563			0.015
5	1976	-0.5824		*	0.017
6	1977	-1.1913		***	0.161
7	1978	-1.4068		**	0.093
8	1979	-0.6607		*	0.029
9	1980	0.3951			0.009
10	1981	0.3925		*	0.035
11	1982	0.0196		*	0.038
12	1983	-0.4015			0.022
13	1984	1.0355		**	0.203
14	1985	.			.
15	1986	.			.
16	1987	.			.
17	1988	.			.
18	1989	.			.
19	1990	.			.
20	1991	.			.
21	1992	.			.
22	1993	.			.
23	1994	.			.
24	1995	.			.
25	1996	.			.
26	1997	.			.
27	1998	.			.
28	1999	.			.
29	2000	.			.

SUM OF RESIDUALS -3.74347E-13  
SUM OF SQUARED RESIDUALS 0.73679184  
PREDICTED RESID SS (PRESS) 0.04963172

DURSIN-WATSON D 0.927  
(FOR NUMBER OF OBS.) 13

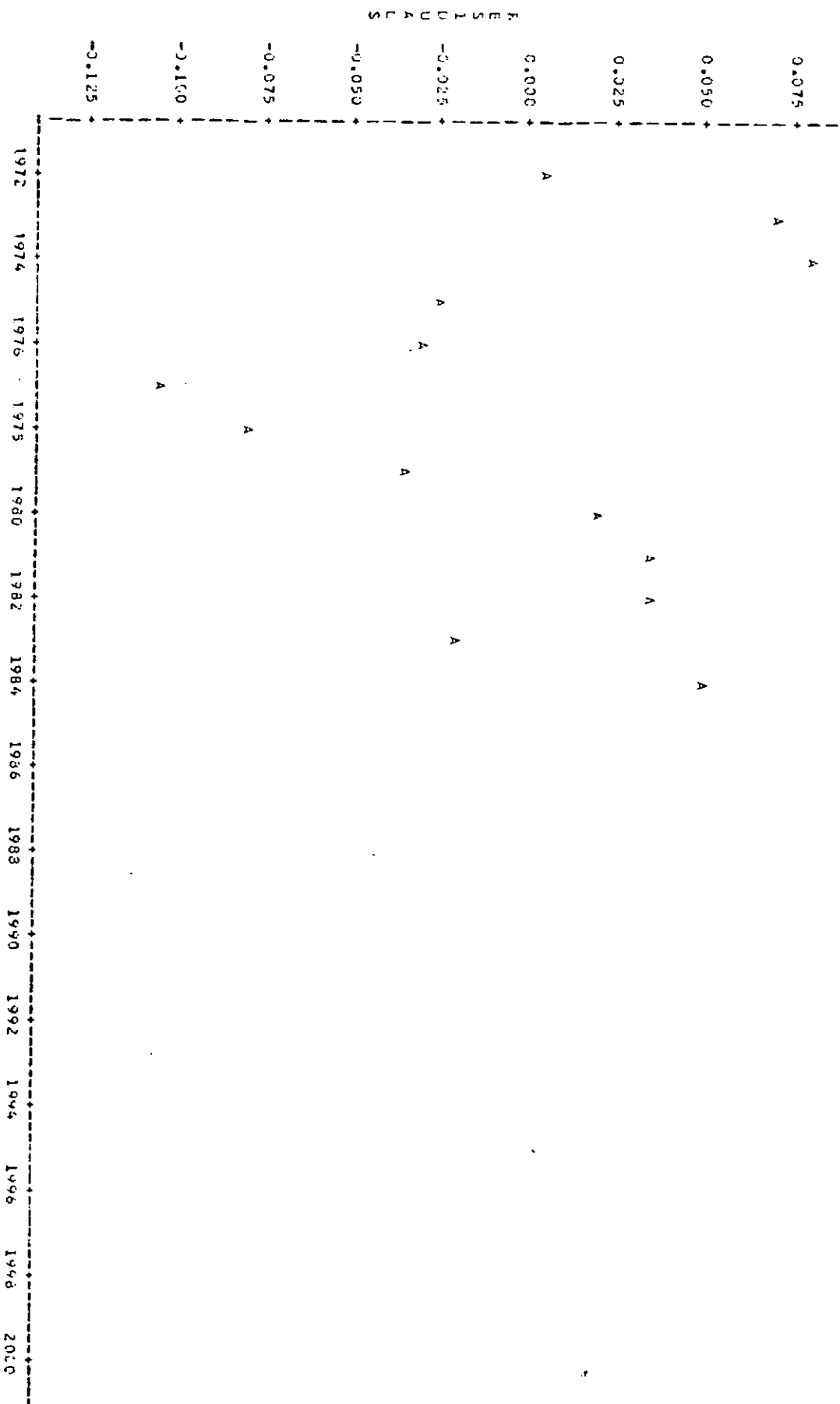
1ST ORDER AUTOCORRELATION 0.501

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=SANTA ROSA

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=SANTA ROSA

PLOT OF RESID\*ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



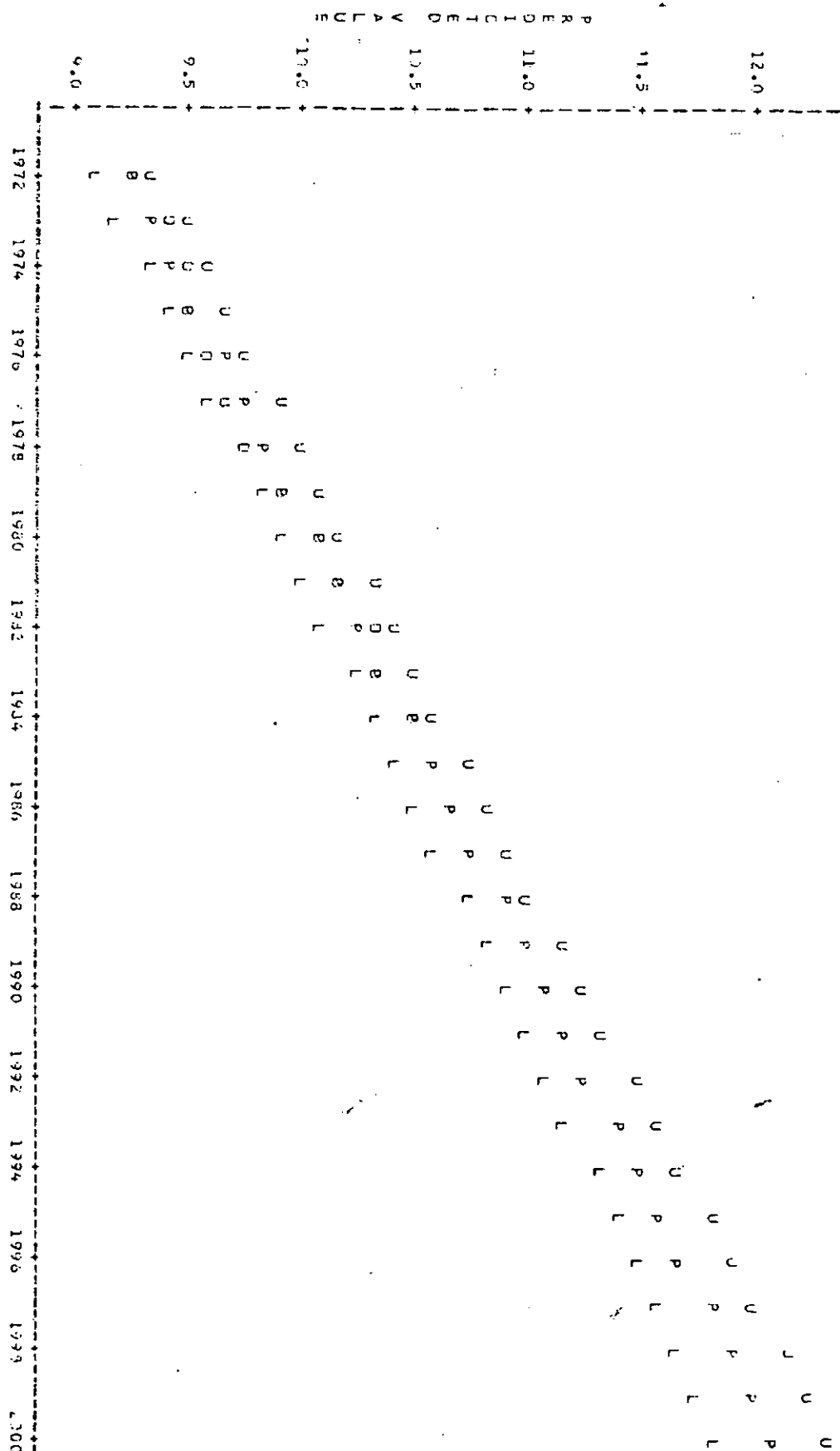
NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=SANTA ROSA

PLOT OF RESIDEN\*ANIO SYMBOL USED IS D  
 PLOT OF PRED\*ANIO SYMBOL USED IS P  
 PLOT OF LG\*ANIO SYMBOL USED IS L  
 PLOT OF U95\*ANIO SYMBOL USED IS U



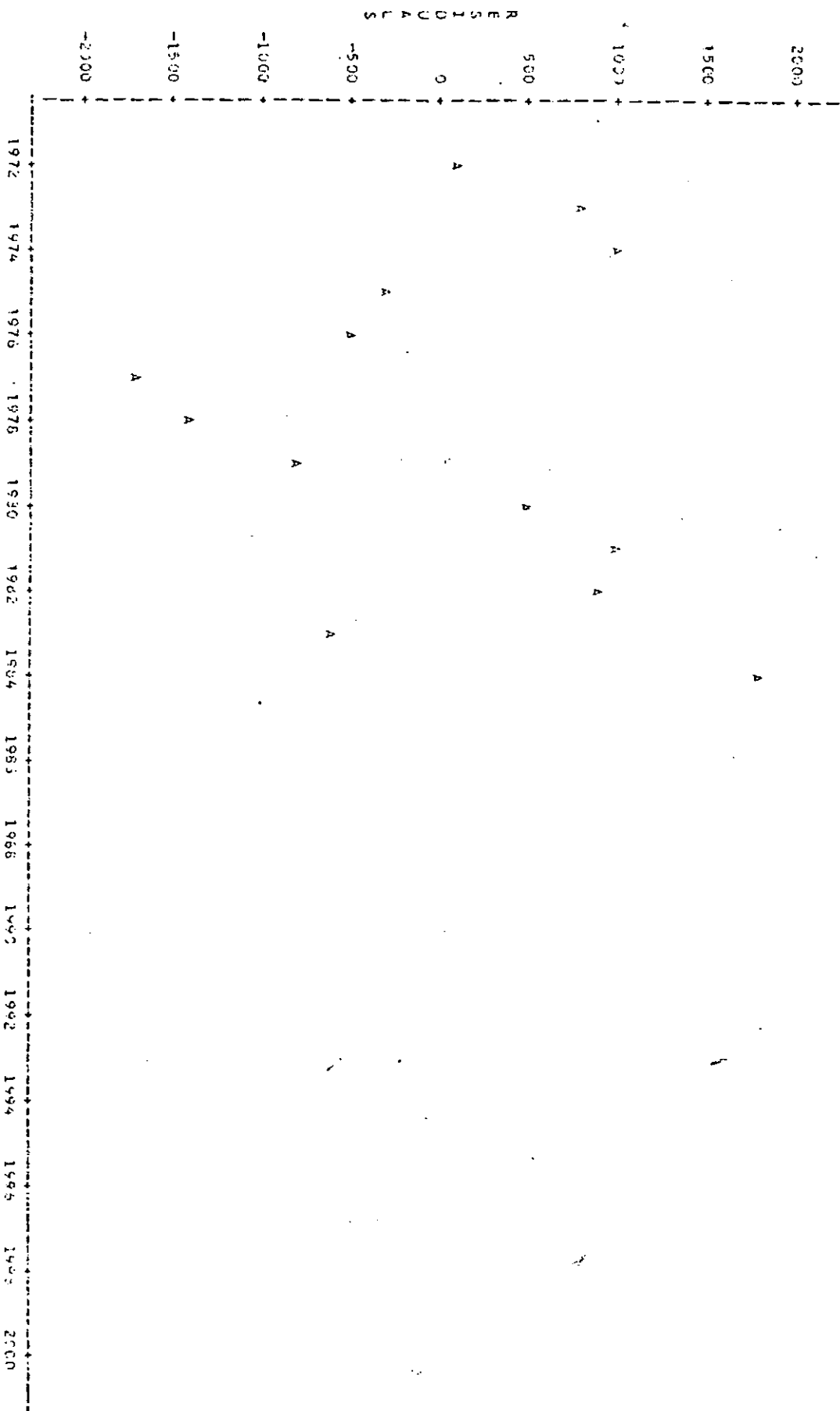
NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECCION RESIDENCIAL

ESTACION=SANTA ROSA

PLOT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

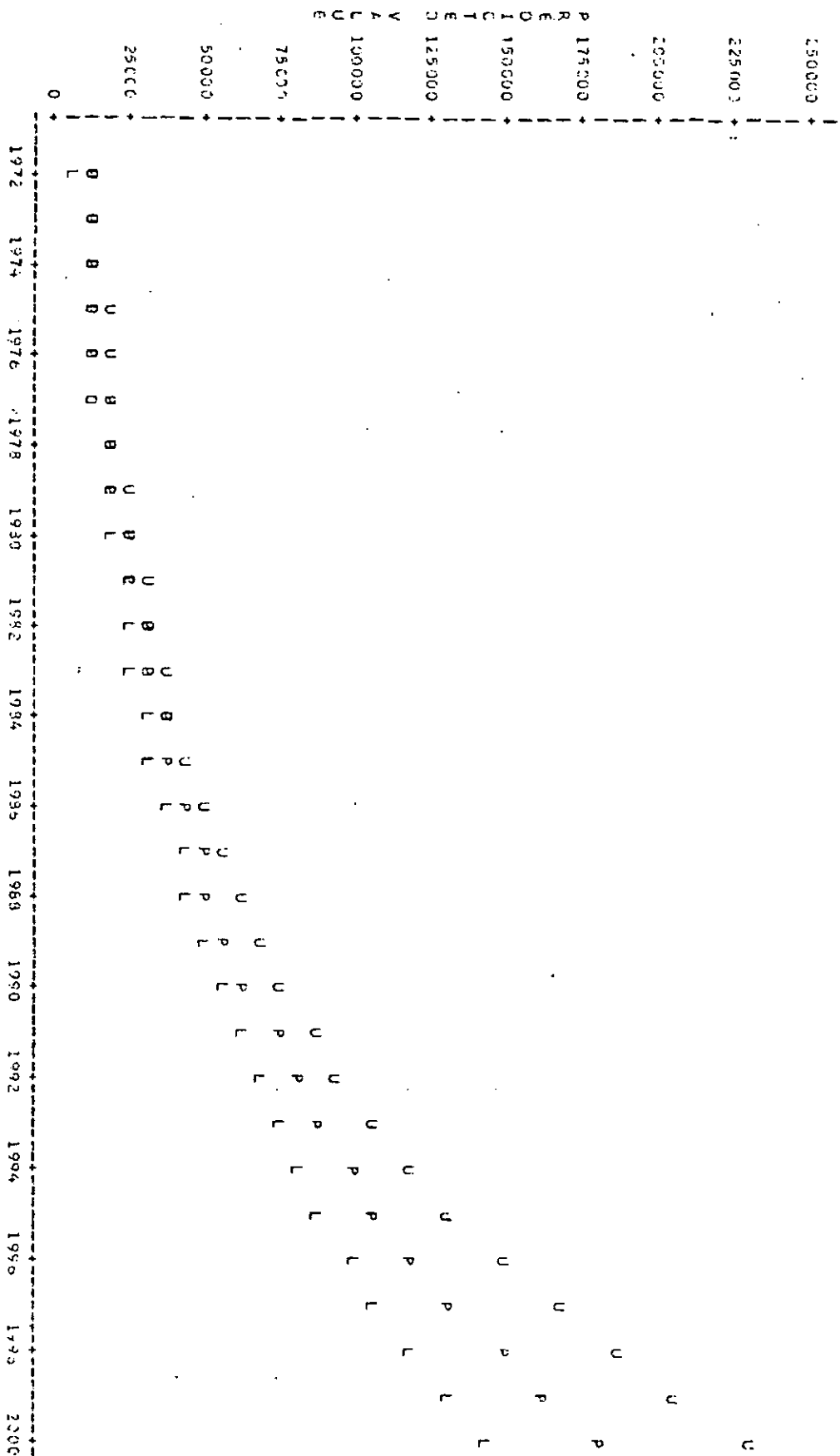
AÑO



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION= SANTA ROSA

PLOT OF RESIDEN\*ANIO SYMBOL USED IS O  
PLOT OF PRED\*ANIO SYMBOL USED IS P  
PLOT OF 195\*ANIO SYMBOL USED IS L  
PLOT OF 095\*ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=3RAL ACHA

ANIO	RESIDEN	PREO	L95	U95	RESID
1972	755	702.5	451.85	1092.1	52.53
1973	806	768.0	512.92	1213.9	16.97
1974	901	886.2	581.24	1351.7	14.76
1975	963	955.4	657.46	1507.2	-32.44
1976	1077	1118.1	742.23	1584.3	-41.08
1977	1064	1255.8	836.26	1685.9	-251.94
1978	1074	1410.6	940.27	2116.1	-336.58
1979	2134	1564.4	1055.83	2379.3	549.53
1980	2453	1779.6	1151.37	2680.7	713.42
1981	1912	1998.8	1320.19	3026.4	-86.85
1982	2058	2245.1	1472.47	3423.2	-197.13
1983	2491	2521.7	1639.31	3979.2	-30.75
1984	2744	2832.5	1821.89	4403.8	-88.45
1985	.	3181.4	2021.56	5006.8	.
1986	.	3578.4	2239.80	5701.1	.
1987	.	4013.7	2476.24	6500.5	.
1988	.	4506.1	2736.98	7421.2	.
1989	.	5063.7	3023.12	8481.7	.
1990	.	5667.6	3333.75	9703.5	.
1991	.	6350.4	3672.95	11111.3	.
1992	.	7175.5	4043.38	12733.8	.
1993	.	8059.6	4447.91	14603.9	.
1994	.	9052.6	4939.58	16759.7	.
1995	.	10164.0	5372.16	19245.1	.
1996	.	11420.9	5899.11	22110.8	.
1997	.	12827.9	6474.64	25415.5	.
1998	.	14438.5	7103.25	29226.6	.
1999	.	16183.7	7789.84	33622.4	.
2000	.	18177.7	8539.76	38693.1	.

DEP VARIABLE: RESIDEN

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	2.45705915	2.45705915	77.923	0.0001
ERROR	11	0.34685154	0.03153150		
C TOTAL	12	2.80391070			

ROOT MSE 0.1775724  
DEP MEAN 7.431754  
C.V. 2.448282  
R-SQUARE 0.8753  
ADJ R-SQ 0.6651

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0: PARAMETER=0	PROB> T
INTERCEP	1	-222.57334	26.0355517	-8.549	0.0001
ANID	1	0.11619090	0.01316254	8.827	0.0001

IDS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	6.5267	6.5346	0.0931	6.2490	6.7595	6.1135	6.9959	0.0741	0.1512
2	1973	6.6946	6.6708	0.0822	6.4849	6.5517	6.2401	7.1015	0.0230	0.1574
3	1974	6.6835	6.7873	0.0721	6.3283	6.9457	6.3552	7.1003	0.0151	0.1623
4	1975	6.8761	6.9032	0.0531	6.7642	7.0421	6.5334	7.3180	-0.0331	0.1660
5	1976	6.9319	7.0194	0.0558	6.6395	7.1423	6.6097	7.4291	-0.0874	0.1656
6	1977	6.9117	7.1356	0.0510	7.0234	7.2478	6.7239	7.5422	-0.2311	0.1701
7	1978	6.9741	7.2518	0.0492	7.1434	7.3602	6.8462	7.6575	-0.2727	0.1706
8	1979	7.6558	7.3673	0.0510	7.2537	7.4811	6.9813	7.7746	0.2977	0.1701
9	1980	7.8214	7.4841	0.0538	7.3612	7.6070	7.0744	7.8939	0.3371	0.1686
10	1981	7.5559	7.6302	0.0531	7.4614	7.7393	7.1855	8.0151	-0.0444	0.1650
11	1982	7.0346	7.7165	0.0721	7.5578	7.8752	7.1947	8.1883	-0.0819	0.1623
12	1983	7.8234	7.8327	0.0922	7.6518	8.0136	7.4023	8.2634	-0.0123	0.1574
13	1984	7.9172	7.9487	0.0931	7.7446	8.1539	7.5076	8.3932	-0.0317	0.1512
14	1985	.	8.0651	0.1045	7.8351	8.2954	7.5115	8.5105	.	.
15	1986	.	8.1813	0.1162	7.9254	8.4371	7.7141	8.6444	.	.
16	1987	.	8.2975	0.1283	8.0151	8.5798	7.8153	8.7796	.	.
17	1988	.	8.4137	0.1405	8.1043	8.7230	7.9152	8.9121	.	.
18	1989	.	8.5299	0.1529	8.1932	8.8665	8.0140	9.0457	.	.
19	1990	.	8.6460	0.1655	8.2919	9.0102	8.1119	9.1802	.	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=GRAL ACHA

PROVINCIA DE LA PAZ  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL  
 ESTACION=GRAL ACHA

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	8.7622	0.1781	8.3703	9.1541	8.2083	9.3157	.	.
21	1992	.	8.4734	0.1907	8.4586	9.2983	8.3048	9.4520	.	.
22	1993	.	8.9946	0.2033	8.5467	9.4425	8.4002	9.5890	.	.
23	1994	.	9.1108	0.2103	8.5340	9.5858	8.4949	9.7267	.	.
24	1995	.	9.2270	0.2291	8.7227	9.7313	8.5890	9.6650	.	.
25	1996	.	9.3432	0.2423	8.3106	9.9753	8.6826	10.0039	.	.
26	1997	.	9.4594	0.2549	8.6934	10.0204	8.7756	10.1431	.	.
27	1998	.	9.5756	0.2678	8.9841	10.1650	8.8683	10.2829	.	.
28	1999	.	9.6918	0.2803	9.0738	10.3097	9.9606	10.4229	.	.
29	2000	.	9.8080	0.2937	9.1614	10.4545	9.0525	10.5634	.	.

CBS  
 STUDENT  
 RESIDUAL  
 -2 -1 0 1 2  
 COOK'S  
 D

1	1972	0.4704			0.043
2	1973	0.1510			0.003
3	1974	0.1018			0.001
4	1975	-0.1996			0.003
5	1976	-0.2221			0.003
6	1977	-1.3158			0.070
7	1978	-1.5979	***		0.106
8	1979	1.7508	***		0.138
9	1980	1.9999	***		0.219
10	1981	-0.2670			0.005
11	1982	-0.5663			0.032
12	1983	-0.6779			0.001
13	1984	-0.2094			0.009
14	1985	.			.
15	1986	.			.
16	1987	.			.
17	1988	.			.
18	1989	.			.
19	1990	.			.
20	1991	.			.
21	1992	.			.
22	1993	.			.
23	1994	.			.
24	1995	.			.
25	1996	.			.
26	1997	.			.
27	1998	.			.
28	1999	.			.
29	2000	.			.

SUM OF RESIDUALS  
 SUM OF SQUARED RESIDUALS  
 PREDICTED RESIDU SS (PRESS)  
 DUBIN-WATSON D  
 (FOR NUMBER OF OBS.)

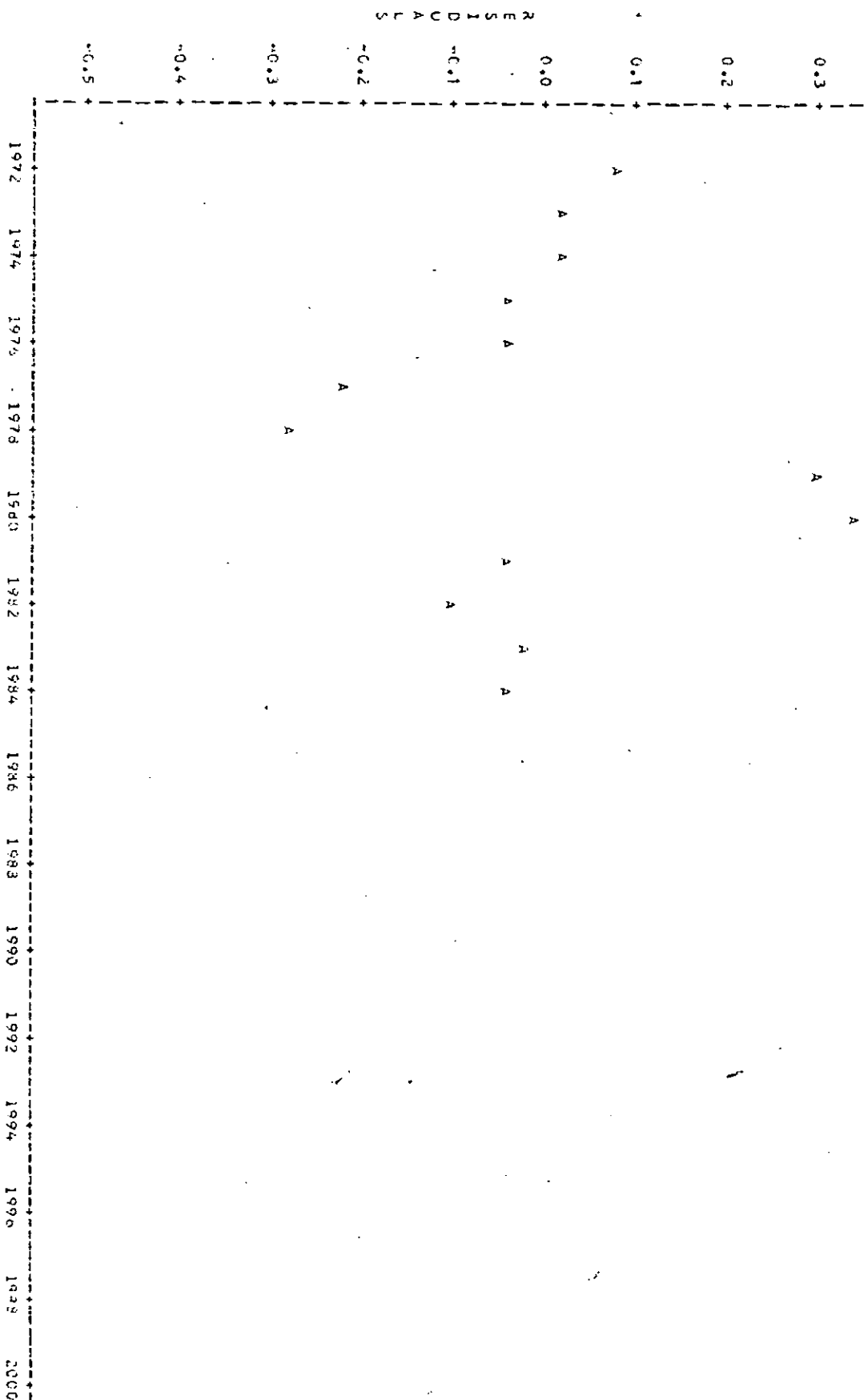
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 1.509  
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1ST ORDER AUTOCORRELATION 0030

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=GRAL ACHA

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL  
 ESTACIONEAL ACHA

PLET OF RESIDUANDI LEGEND: A = 1 OBS, B = 2 OBS, ETC.



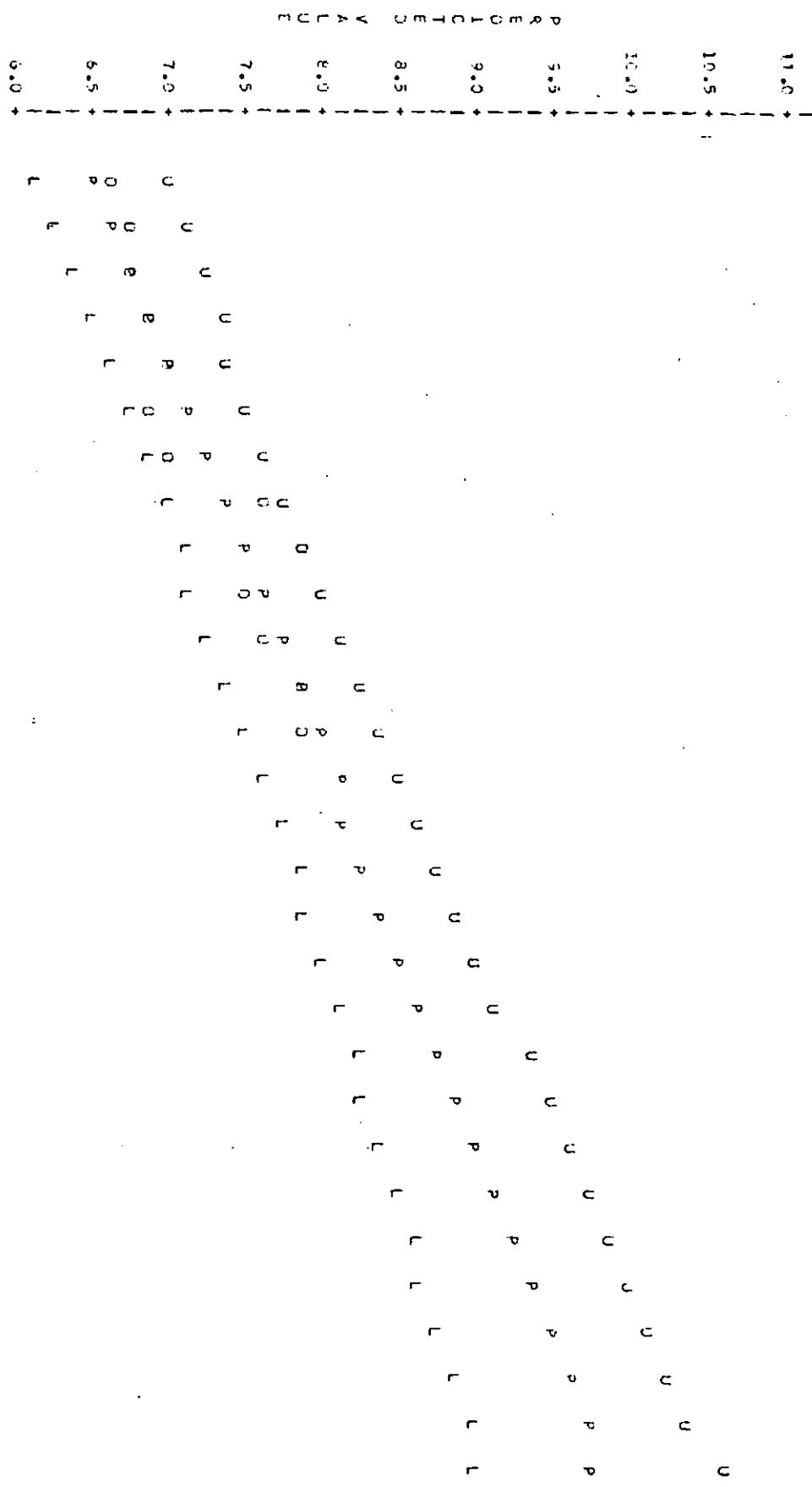
NOTE: 16 OBS HAD MISSING VALUES

ANIO

ESTACION AGRAL ACHA  
 MODELO EXPONENCIAL  
 SERIES HISTORICAS DE ENERGIA (MMH)

PLOT OF RESIDEN\*ANID  
 PLOT OF PRED\*ANID  
 PLOT OF L95\*ANID  
 PLOT OF 095\*ANID

SYMBOL USED IS O  
 SYMBOL USED IS P  
 SYMBOL USED IS L  
 SYMBOL USED IS U



NOTE: 16.095 MAD MISSING VALUES

ANID

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL  
 ESTACION=GRAL ACHA

PLOT OF RESIDU\*ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

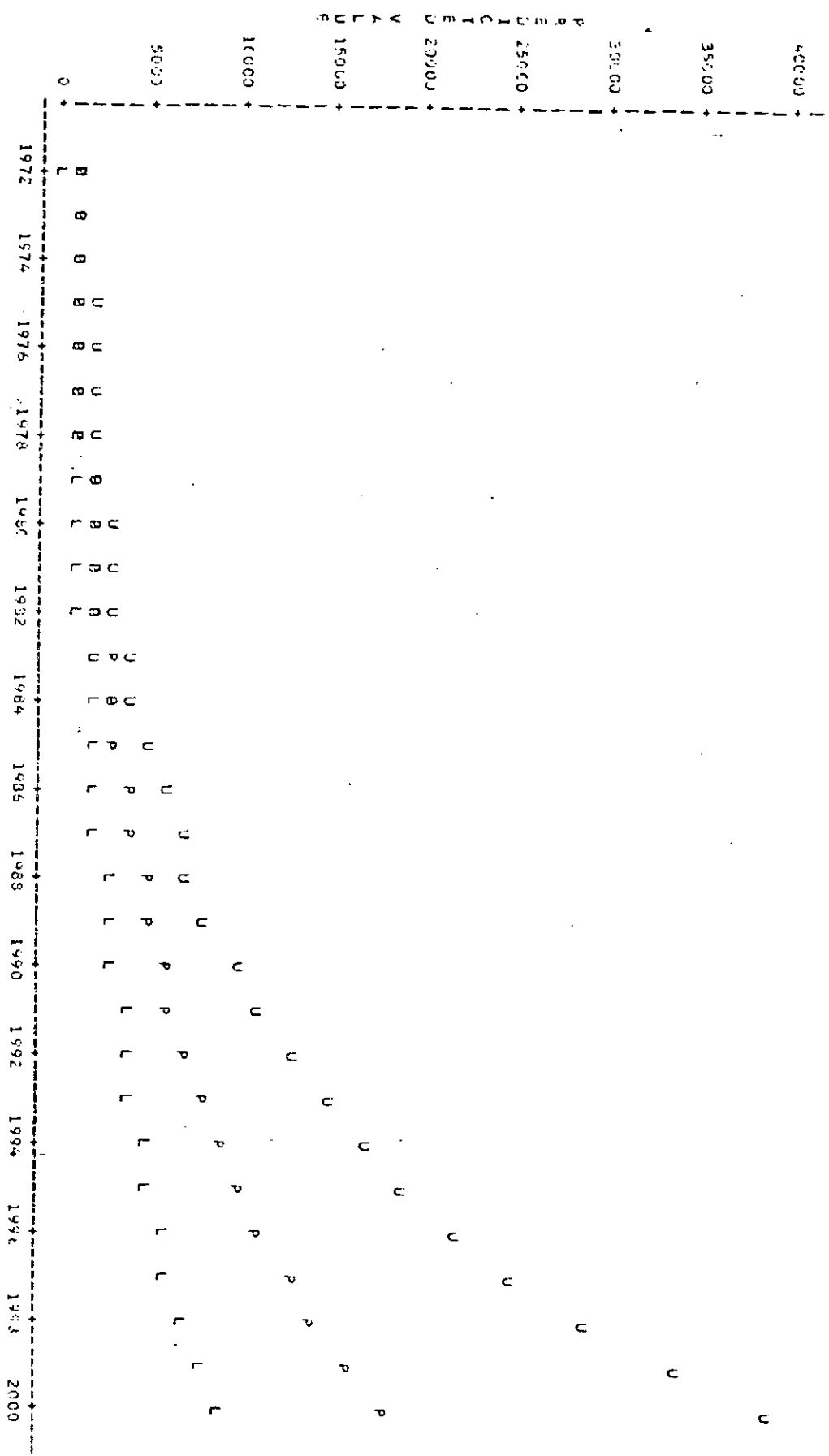
ANIO



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=GRAL ACHA

PLOT OF RESIDEN\*ANIO SYMBOL USED 15 0  
 PLOT OF PRED\*ANIO SYMBOL USED 15 P  
 PLOT OF 192\*ANIO SYMBOL USED 15 L  
 PLOT OF 195\*ANIO SYMBOL USED 15 U



NOTE: 16 085 M40 MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=GUATRACHE

ANIO	RESIDEN	DESD	L95	U95	RESID
1972	2035	2347.9	1435.8	3702.7	-312.9
1973	2414	2532.5	1655.5	4025.5	-364.5
1974	2553	2440.6	1937.8	4390.6	-257.6
1975	2776	3124.4	2026.1	4794.5	-344.4
1976	37.3	3439.8	2251.4	5245.9	-491.4
1977	4973	3780.2	2494.2	5751.7	1193.5
1978	5442	4157.7	2735.4	6319.7	1284.3
1979	5324	4573.2	3095.5	6958.6	750.6
1980	6137	5030.1	3455.3	7676.3	1156.9
1981	4963	5502.3	3603.6	8490.1	-567.8
1982	5501	6035.0	3937.2	9405.3	-564.6
1983	5936	6693.7	4491.2	10441.3	-837.7
1984	6349	7322.5	4668.6	11610.6	-1113.5
1985	.	8008.2	5070.9	12932.5	.
1986	.	8587.4	5439.4	14427.2	.
1987	.	9197.4	5935.3	16117.1	.
1988	.	10775.4	6441.8	18027.6	.
1989	.	11573.7	6959.5	20187.9	.
1990	.	13037.4	7511.6	22530.5	.
1991	.	14748.3	8194.5	25392.5	.
1992	.	16773.2	8726.9	28515.5	.
1993	.	17846.3	9392.4	32046.9	.
1994	.	19084.9	10104.2	36040.1	.
1995	.	20385.7	10865.3	40555.6	.
1996	.	22007.0	11675.3	45661.5	.
1997	.	23142.9	12538.8	51436.5	.
1998	.	27931.2	13458.5	57957.5	.
1999	.	30742.2	14442.2	65353.7	.
2000	.	33792.0	15492.2	73706.2	.

PROVINCIA DE LA PAZ  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECCIÓN RESIDENCIAL  
ESTACION=SUATRACHE

DEP VARIABLE: RESIDEN

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.55381597	1.55381597	49.125	0.0001
ERROR	11	0.35864463	0.03260406		
C TOTAL	12	2.03246060			

ROOT MSE 0.1833141 R-SQUARE 0.8170  
DEP MEAN 8.322723 ADJ R-SQ 0.8004  
C.V. 2.19992

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0: PARAMETER=0	PROB> T
INTERCEP	1	-182.04967	26.97733823	-6.699	0.0001
ANID	1	0.09523083	0.01588014	7.009	0.0001

CAS	ID	ACTUAL	PREDICT VALUE	SID ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	7.0183	7.7613	0.0061	7.5498	7.9726	7.3058	8.2166	-0.1430	0.1561
2	1973	7.3563	7.3563	0.0000	7.6698	8.0433	7.4119	8.3011	-0.1542	0.1525
3	1974	7.8450	7.9513	0.0744	7.7852	9.1155	7.5143	9.3872	-0.1267	0.1675
4	1975	7.9283	9.0470	0.0052	7.9036	9.1954	7.6189	9.4752	-0.1162	0.1713
5	1976	9.2739	8.1422	0.0576	9.0134	9.2691	8.2691	9.5552	0.1336	0.1740
6	1977	8.5118	8.2375	0.0520	8.1217	9.3533	7.8177	9.6573	0.2743	0.1756
7	1978	9.6019	8.3327	0.0503	8.2308	9.4445	7.9140	9.7514	0.2692	0.1761
8	1979	8.5300	8.4230	0.0526	8.5121	8.5418	8.0032	8.9477	0.1910	0.1736
9	1980	8.7302	8.5232	0.0575	8.3453	8.7619	8.1002	9.4462	0.2070	0.1740
10	1981	8.5398	9.5134	0.0052	9.4750	9.8755	8.1491	9.9467	-0.1087	0.1713
11	1982	8.6127	8.7137	0.0744	8.5499	9.8775	8.2782	9.1491	-0.1010	0.1575
12	1983	8.6666	8.0089	0.0849	8.6221	9.8957	8.2643	9.2535	-0.1423	0.1625
13	1984	8.7402	8.9047	0.0261	8.6327	9.1156	8.4485	9.3597	-0.1645	0.1561
14	1985		9.5984	0.1079	8.7625	9.2257	8.5313	9.4575	-0.1645	0.1561
15	1986		9.0946	0.1200	8.5305	9.3588	8.6124	9.5767	-0.1645	0.1561
16	1987		9.1899	0.1324	8.6934	9.4614	8.5421	9.5376	-0.1645	0.1561
17	1988		9.2351	0.1451	8.8058	9.6044	8.7705	9.7997	-0.1645	0.1561
18	1989		9.3604	0.1579	9.0329	9.7276	8.8479	9.9128	-0.1645	0.1561
19	1990		9.4755	0.1708	9.0997	9.8515	8.9241	10.0271	-0.1645	0.1561

PROVINCIA DE LA PAPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

EQUACION=QUATRAHE

DBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	9.5708	0.1938	9.1663	9.9754	8.9994	10.1422	.	.
21	1992	.	9.6661	0.1469	9.4327	10.0995	9.0739	10.2592	.	.
22	1993	.	9.7613	0.2101	9.2066	10.2237	9.1477	10.3730	.	.
23	1994	.	9.8565	0.2233	9.3651	10.3460	9.2207	10.4924	.	.
24	1995	.	9.9516	0.2365	9.4312	10.4724	9.2931	10.6104	.	.
25	1995	.	10.0470	0.2498	9.4672	10.5959	9.3630	10.7290	.	.
26	1997	.	10.1422	0.2631	9.5331	10.7214	9.4364	10.8431	.	.
27	1998	.	10.2375	0.2765	9.6290	10.8460	9.5074	10.9679	.	.
28	1999	.	10.3327	0.2898	9.6948	10.9707	9.5779	11.0879	.	.
29	2000	.	10.4280	0.3032	9.7606	11.0954	9.6481	11.2079	.	.

DBS ID STUDENT  
RESIDUAL

-2-1-1 2

COOK'S  
D

1	1972	-0.9163			0.159
2	1973	-0.9395			0.180
3	1974	-0.6372			0.240
4	1975	-0.6801			0.234
5	1976	0.7885			0.622
6	1977	1.5620			0.110
7	1978	1.5.63			0.057
8	1979	0.3657			0.034
9	1980	1.1909			0.078
10	1981	-0.6343			0.019
11	1982	-0.6020			0.036
12	1983	-0.9705			0.105
13	1984	-1.0504			0.209
14	1985	.			.
15	1986	.			.
16	1987	.			.
17	1988	.			.
18	1989	.			.
19	1990	.			.
20	1991	.			.
21	1992	.			.
22	1993	.			.
23	1994	.			.
24	1995	.			.
25	1996	.			.
26	1997	.			.
27	1998	.			.
28	1999	.			.
29	2000	.			.

SUM OF RESIDUALS -0.329458-13  
SUM OF SQUARED RESIDUALS 7.3595445  
PREDICTED RESIDUALS (PREST) 0.5010734

DURBIN-WATSON D 0.552  
(FOR NUMBER OF DBS.) 13

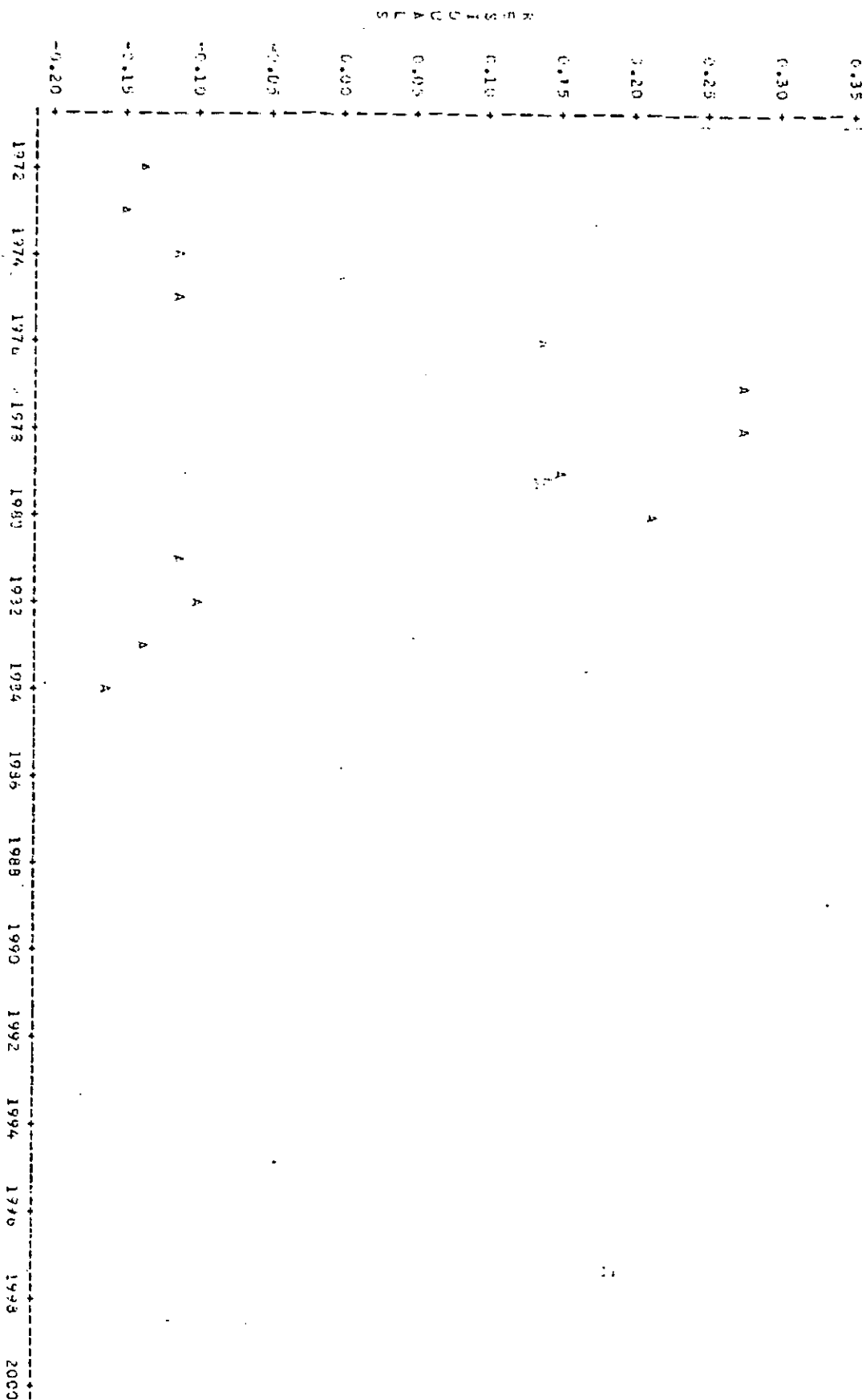
1ST ORDER AUTOCORRELATION 0.666

PROVINCIA DE LA PAZ  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=GUATRACHE

PROVINCIA DE LA PAZ  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=GUATRACHE

PLOT OF RESID\*ANIO      LEGEND: A = 1 OBS, S = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

ANIO

ESTACIÓY=SUBTACHE

SYMBOL USED IS U  
SYMBOL USED IS P  
SYMBOL USED IS L  
SYMBOL USED IS U

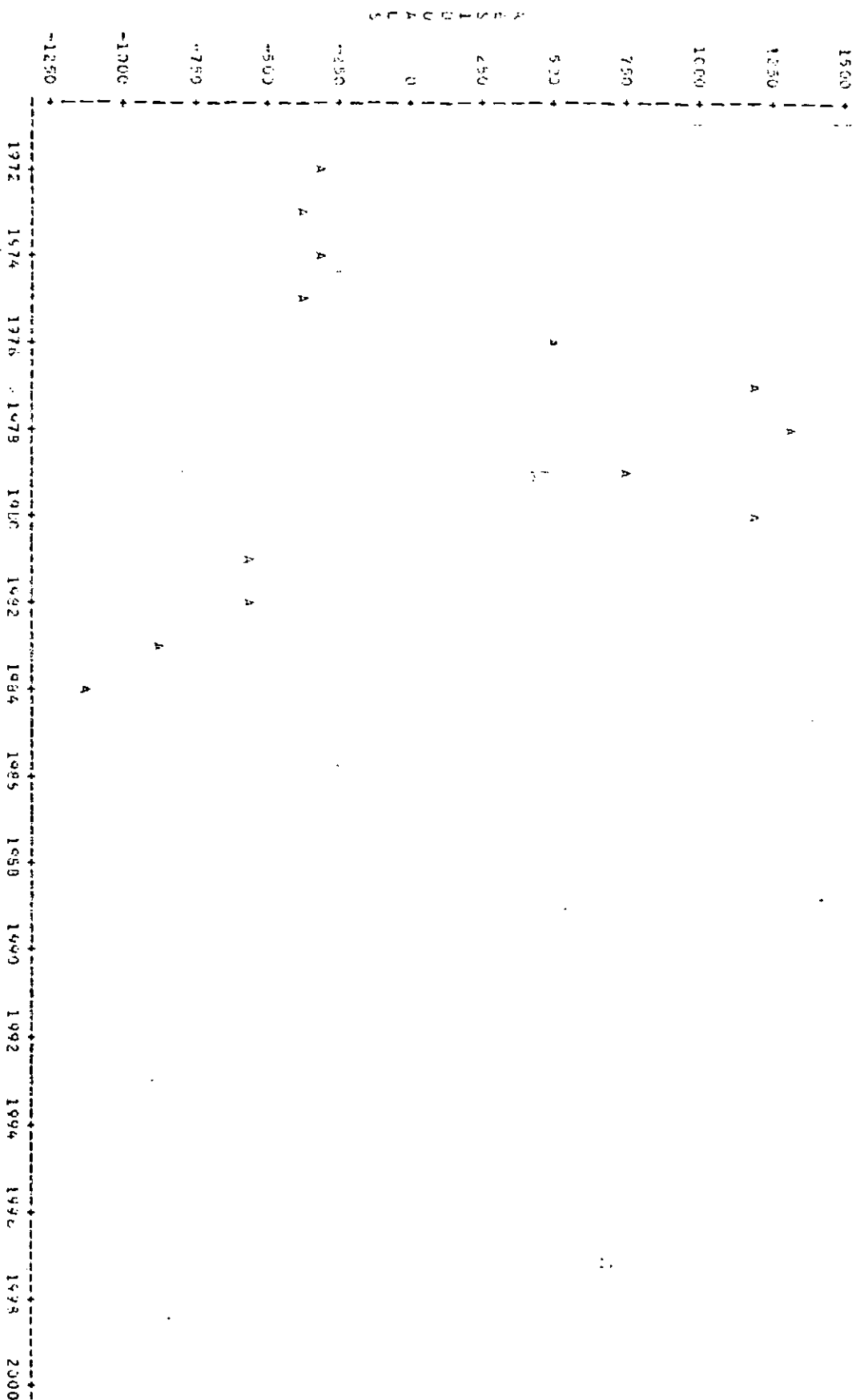
1972 1974 1975 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000

16 OBS HAS MISSING VALUES

AND

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=GUATRACHE

PLOT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

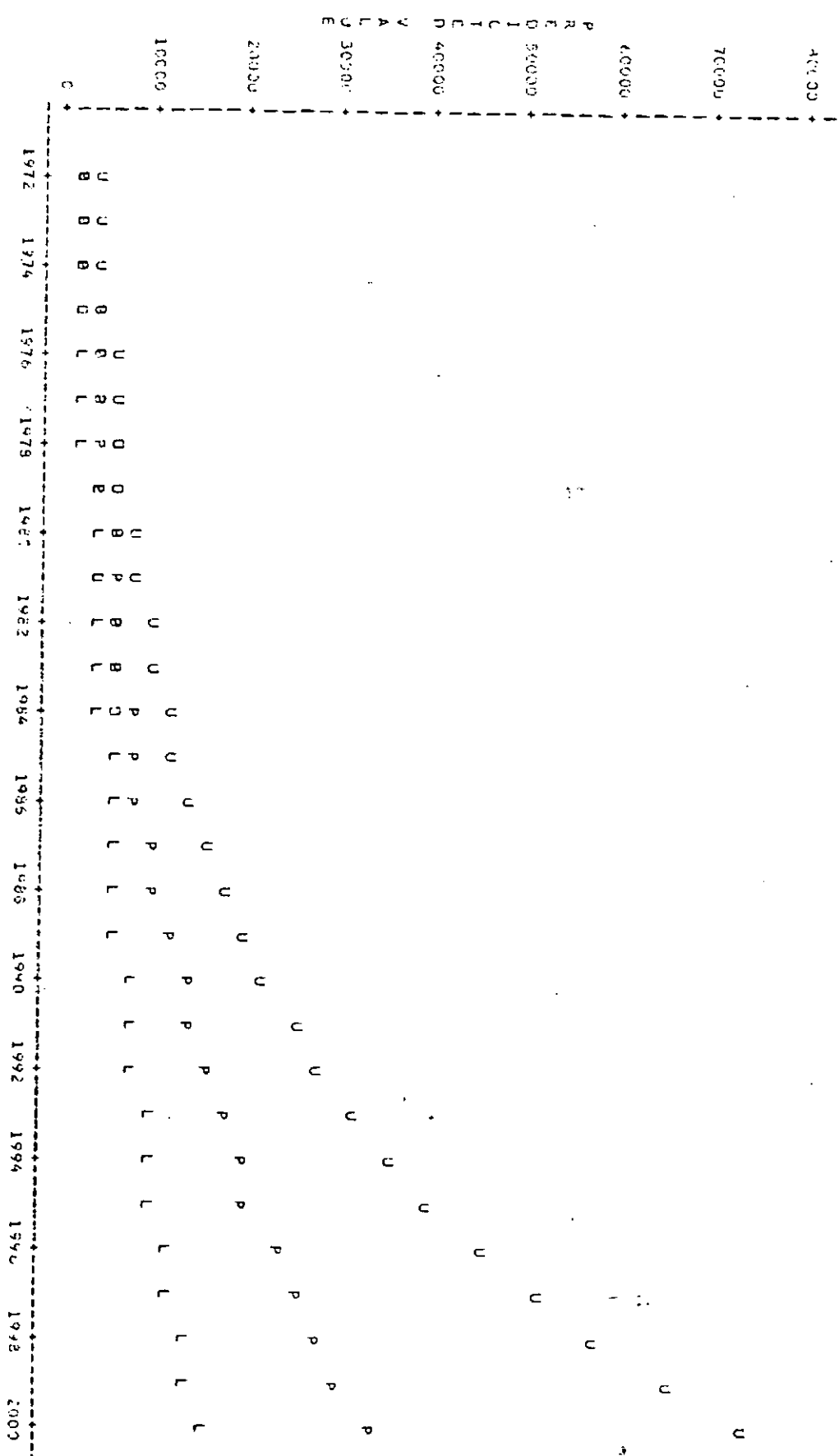
ANID



PROVINCIA DE LA PAZ  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=GUATRACHE

PLCI OF RESIDEN\*ANIO SYMBOL USED IS O  
 PLCI OF PREU\*ANIO SYMBOL USED IS P  
 PLCI OF 195\*ANIO SYMBOL USED IS L  
 PLCI OF U95\*ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION= SANTA ISABEL

ANO	RESIDEN	PRED	LO5	U95	RESID
1972	7	5.0	4.6	17	-1.995
1973	11	12.1	6.3	32	-1.106
1974	13	16.3	9.0	30	-3.310
1975	19	22.6	12.2	40	-2.975
1976	43	29.6	16.6	53	13.392
1977	60	39.9	22.4	71	20.108
1978	81	53.7	39.3	95	27.253
1979	80	72.4	40.7	129	7.585
1980	87	97.6	54.6	174	-10.566
1981	116	131.5	73.1	230	-15.453
1982	157	177.1	97.5	322	-20.110
1983	215	238.6	129.7	439	-22.625
1984	287	311.5	172.2	600	-34.505
1985	.	433.2	228.1	823	.
1986	.	583.6	301.4	1130	.
1987	.	766.3	397.5	1555	.
1988	.	1058.4	523.4	2145	.
1989	.	1427.4	689.1	2961	.
1990	.	1923.2	903.2	4095	.
1991	.	2591.2	1184.2	5670	.
1992	.	3491.1	1550.7	7867	.
1993	.	4703.7	2028.6	10906	.
1994	.	6337.4	2651.4	15143	.
1995	.	8538.6	3462.3	21057	.
1996	.	11304.2	4518.0	29293	.
1997	.	15499.9	5891.5	40779	.
1998	.	20303.3	7677.8	56302	.
1999	.	28136.8	10067.3	79109	.
2000	.	37909.5	13619.7	110359	.

DEP VARIABLE: RESIDEN

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (KWH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=SANTA ISABEL

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	16.17549369	16.17549369	256.289	0.0001
ERROR	11	0.559425579	0.050811425		
C TOTAL	12	16.80975047			

ROOT MSE 0.4512255 R-SQUARE 0.9583  
DEP MEAN 3.934236 ADJ R-SQ 0.9551  
C.V. 6.303468

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HQ:	PROB >  T
INTERCEP	1	-385.39974	36.83454679	-15.901	0.0001
ANIO	1	0.29611135	0.01662207	16.009	0.0001

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	1.9459	2.1956	0.1317	1.9057	2.4854	1.5713	2.8139	-0.2490	0.1140
2	1973	2.3979	2.4937	0.1103	2.2977	2.7456	1.8844	3.1030	-0.0958	0.1227
3	1974	2.5949	2.7318	0.1125	2.5673	3.0153	2.1950	3.3856	-0.1267	0.1296
4	1975	2.7444	3.0499	0.0993	2.8934	3.2865	2.5031	3.6753	-0.1457	0.1348
5	1976	3.7612	3.3880	0.0790	3.2141	3.5619	2.8084	3.9677	0.3732	0.1335
6	1977	4.0943	3.6861	0.0721	3.5274	3.8449	3.1109	4.2614	0.4081	0.1247
7	1978	4.5944	3.9943	0.0697	3.8309	4.1376	3.4105	4.4551	0.4101	0.1247
8	1979	4.5820	4.2624	0.0721	4.1237	4.4411	3.7071	4.6577	0.0990	0.1247
9	1980	4.4659	4.5935	0.0790	4.4056	4.7544	4.0709	4.8577	-0.1145	0.1335
10	1981	4.7536	4.8787	0.0893	4.6821	5.0752	4.2919	5.1652	-0.1251	0.1348
11	1982	5.0361	5.1704	0.1020	4.9523	5.4013	4.5800	5.7356	-0.1205	0.1227
12	1983	5.3753	5.4749	0.1163	5.2189	5.7309	4.8656	6.0842	-0.0990	0.1227
13	1984	5.6595	5.7730	0.1317	5.4932	6.0369	5.1467	6.3973	-0.1135	0.1140
14	1985	.	6.0711	0.1478	5.7456	6.3965	5.4290	6.7127	.	.
15	1986	.	6.3653	0.1545	6.0703	6.7312	5.7034	7.0302	.	.
16	1987	.	6.6674	0.1815	6.2679	7.0667	5.9952	7.3455	.	.
17	1988	.	6.9655	0.1988	6.5279	7.4031	6.2603	7.6707	.	.
18	1989	.	7.2656	0.2164	6.7974	7.7398	6.5339	7.9934	.	.
19	1990	.	7.5617	0.2341	7.0465	8.0769	6.8060	8.3175	.	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=SANIA ISABEL

YRS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	7.8597	0.2519	7.3054	8.4143	7.0764	8.6429	.	.
21	1992	.	8.1589	0.2599	7.5540	9.7519	7.3465	8.9695	.	.
22	1993	.	8.4561	0.2379	7.9425	9.0899	7.6151	9.2971	.	.
23	1994	.	8.7542	0.3060	8.0407	9.4277	7.3823	9.6256	.	.
24	1995	.	9.0523	0.3242	8.3389	9.7658	8.1497	9.9530	.	.
25	1996	.	9.3505	0.3424	8.5959	10.1040	8.4158	10.2851	.	.
26	1997	.	9.6486	0.3606	8.8549	10.4423	8.6813	10.6159	.	.
27	1998	.	9.9457	0.3759	9.1127	10.7607	8.9461	10.9473	.	.
28	1999	.	10.2448	0.3972	9.3706	11.1191	9.2104	11.2793	.	.
29	2000	.	10.5430	0.4156	9.6233	11.4576	9.4741	11.6118	.	.

CBS  
STUDENT  
RESIDUAL

-2-1-0 1 2

COOK'S  
D

1	1972	-1.1566	**	0.256
2	1973	-0.4301	*	0.035
3	1974	-0.9851	*	0.096
4	1975	-0.6196	*	0.028
5	1976	1.5547	***	0.134
6	1977	1.6962	***	0.129
7	1978	1.8903	***	0.110
8	1979	0.4140	*	0.008
9	1980	-0.4805	*	0.019
10	1981	-0.5316	*	0.021
11	1982	-0.3250	*	0.027
12	1983	-0.4475	*	0.027
13	1984	-0.5306	*	0.053
14	1985	.	.	.
15	1986	.	.	.
16	1987	.	.	.
17	1988	.	.	.
18	1989	.	.	.
19	1990	.	.	.
20	1991	.	.	.
21	1992	.	.	.
22	1993	.	.	.
23	1994	.	.	.
24	1995	.	.	.
25	1996	.	.	.
26	1997	.	.	.
27	1998	.	.	.
28	1999	.	.	.
29	2000	.	.	.

SUM OF RESIDUALS -1.11535E-12  
SUM OF SQUARED RESIDUALS 6.6042558  
PREDICTED RESID 55 (PRESS) 6.9115025

DURBIN-WATSON D  
(FOR NUMBER OF CBS.)

0.664  
13

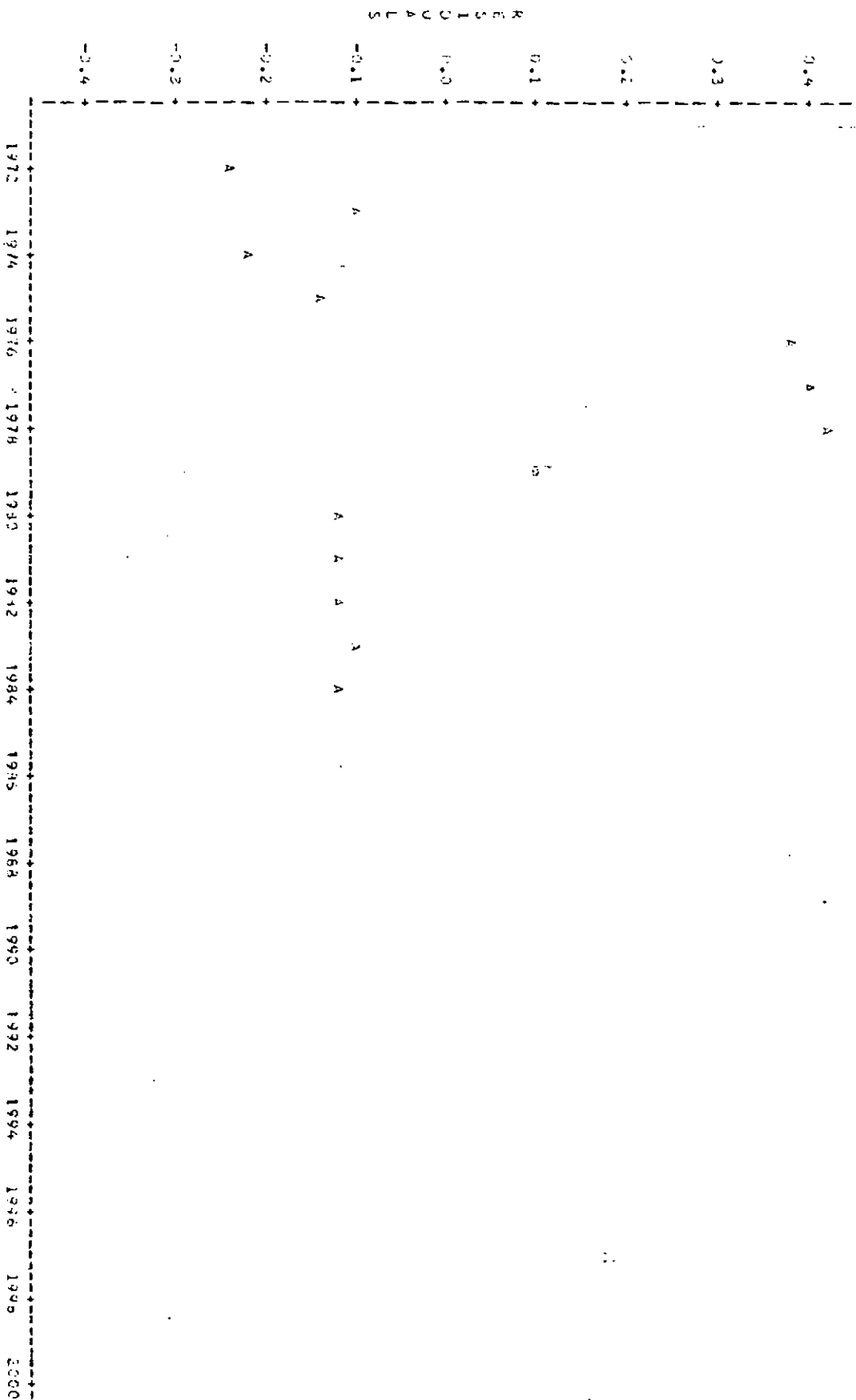
1ST ORDER AUTOCORRELATION C.614

PROVINCIA DE LA PAZ  
SERIES HISTORICAS DE GUERRA (MM)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=SANTA ISABEL

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACIONESANJA TSABUL

PLOT OF RESIDUANDO LEGENDE: A = 1 OBS, B = 2 OBS, ETC.



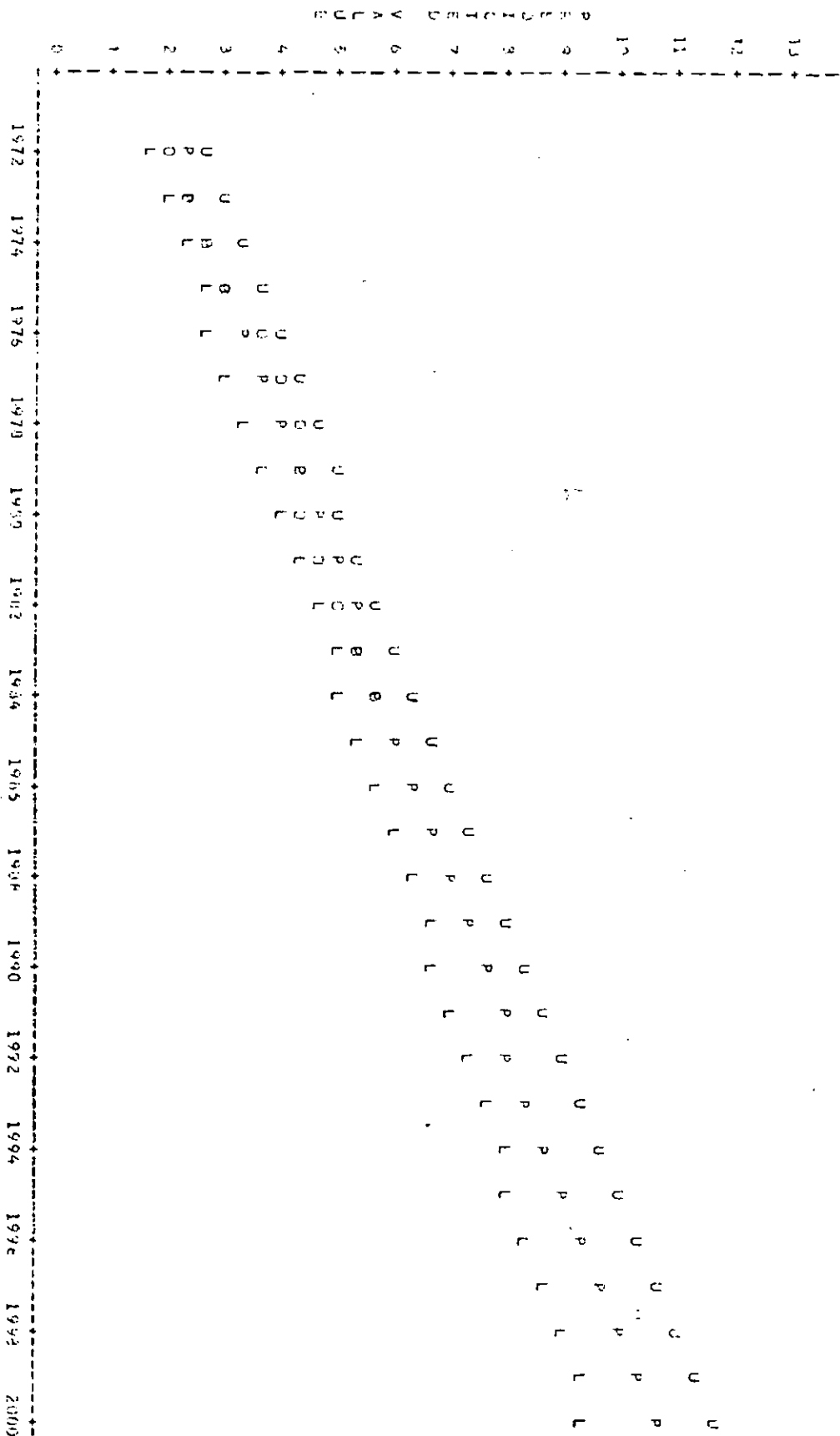
NOTE: 16 OBS HAD MISSING VALUES

ANID

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=CARITA ISABEL

PLOT OF RESID\*ANIO SYMBOL USED IS O  
PLOT OF RESO\*ANIO SYMBOL USED IS P  
PLOT OF L99\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U



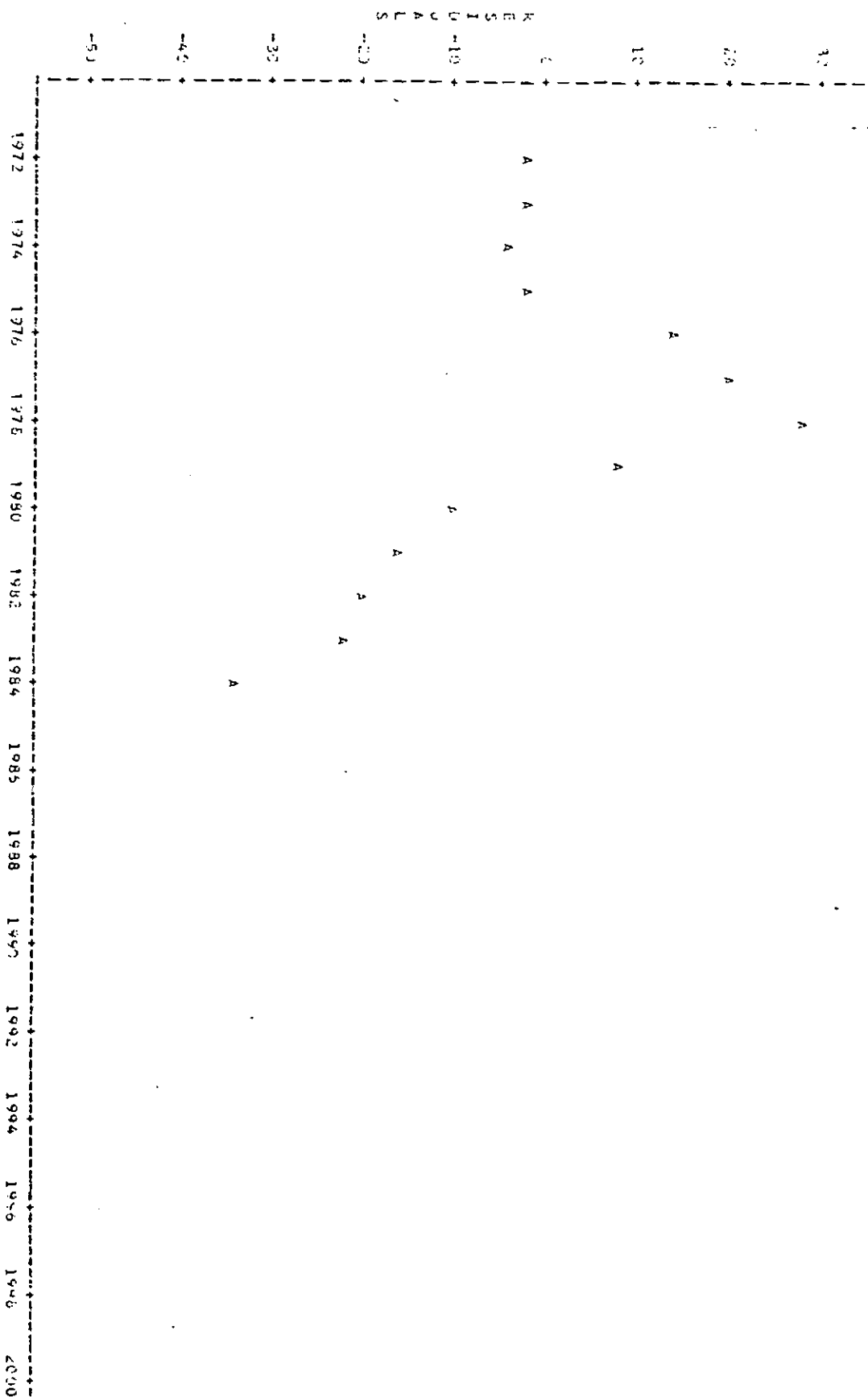
NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=CANTA ISABEL

PLOT OF RESIDUANTIC LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

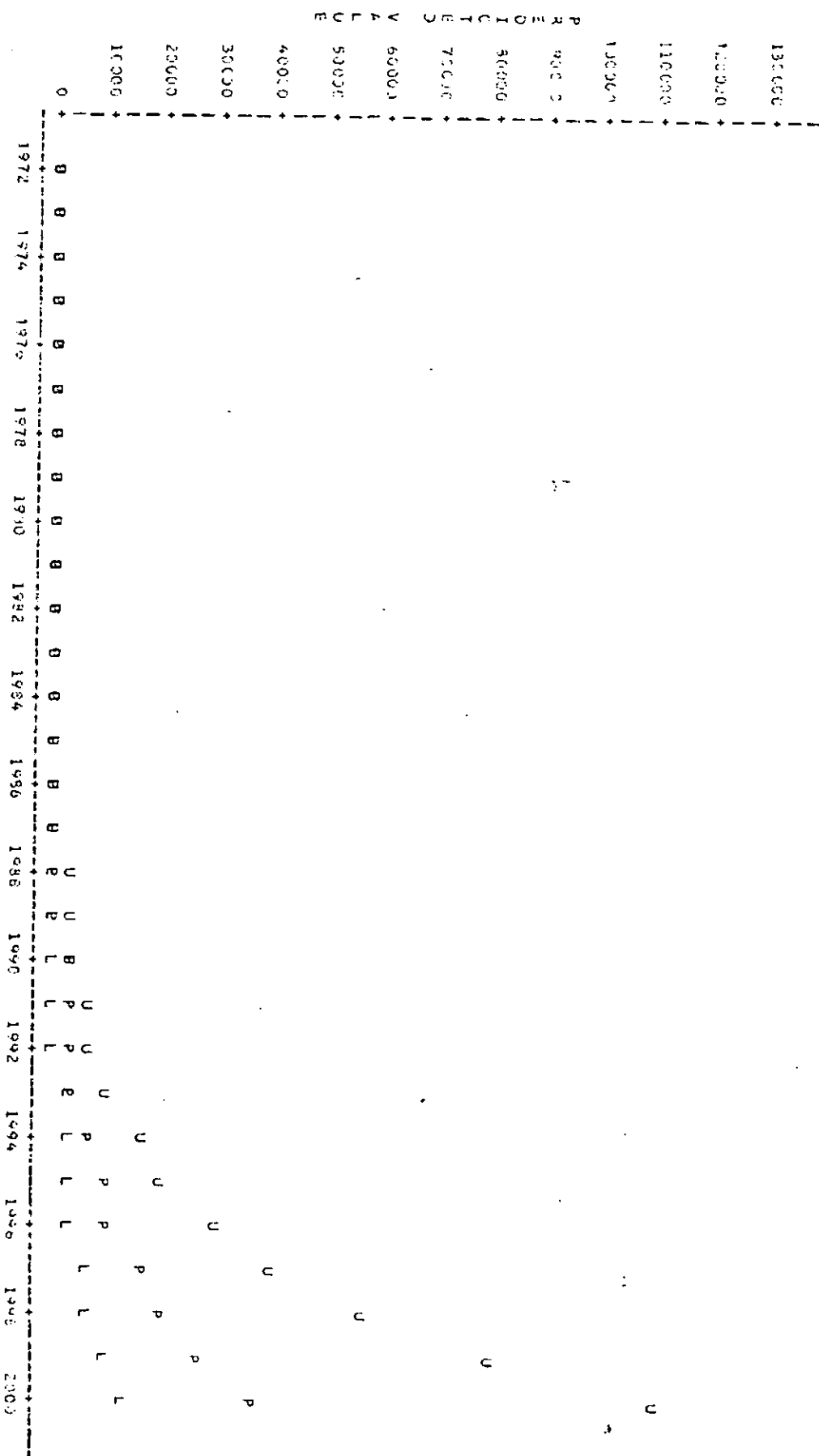
ANJO



PROVINCIA DE LA PAZ  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION-SANTA ISABEL

PLUT OF RESIDENCIAL ANIO SYMBOL USED IS O  
 PLUT OF PREBANCIO SYMBOL USED IS P  
 PLUT OF 197#ANIO SYMBOL USED IS L  
 PLUT OF 195#ANIO SYMBOL USED IS U



NOTE: 16 035 HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

AÑO	RESIDEN	PREC	L25	U95	RECID
1971	.	1763.65	647.234	3777.24	.
1972	.	1704.10	647.715	3426.05	.
1973	.	1623.32	350.597	3117.15	.
1974	.	1555.61	651.213	2645.99	.
1975	.	1486.93	345.737	2512.70	.
1976	1162	1421.34	336.469	2411.77	-254.34
1977	1669	1357.10	821.427	4242.06	305.90
1978	1668	1296.67	801.012	2101.05	372.33
1979	1668	1258.93	771.920	1903.37	-170.93
1980	1668	1163.75	737.505	1599.63	-174.75
1981	1668	1131.05	697.830	1533.41	-36.05
1982	1668	1030.63	654.140	1785.62	63.32
1983	1668	1032.55	609.298	1753.21	25.44
1984	1668	986.93	561.333	1734.60	.
1985	1668	942.65	519.137	1724.97	.
1986	1668	907.63	471.494	1724.16	.
1987	1668	863.97	423.671	1730.05	.
1988	1668	821.25	383.270	1741.31	.
1989	1668	785.64	351.393	1757.02	.
1990	1668	750.06	317.197	1776.45	.
1991	1668	717.13	285.939	1799.08	.
1992	1668	685.89	257.411	1824.42	.
1993	1668	656.76	231.470	1852.22	.
1994	1668	629.62	207.949	1882.20	.
1995	1668	597.76	186.671	1914.16	.
1996	1668	571.15	167.458	1947.37	.
1997	1668	540.71	150.158	1983.54	.
1998	1668	521.41	134.543	2020.71	.
1999	1668	499.20	120.517	2059.46	.
2000	1668	499.20	120.517	2059.46	.

PROVINCIA DE LA PAMPA  
SECRETARÍA DE EDUCACIÓN  
MODELO EDUCACIONAL  
SECTOR RESIDENCIAL  
EVALUACIÓN DE DATOS

ANÁLISIS DE REGRESIÓN

ANÁLISIS DE REGRESIÓN

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	0.18714412	0.18714412	2.437	0.1555
ERROR	9	0.19129785	0.02125532		
TOTAL	10	0.37844197			

ROOT MSE	0.1917906	R-SQUARE	0.3053
DEP MEAN	7.099229	ADJ R-SQ	0.1195
C.V.	1.560731		

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEPT	1	1.9731272471	55.55637196	1.752	0.11504
AN13	1	-0.04553037	0.02809117	-1.624	0.1555

SS	DF	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1	7.4854	6.2470	6.1821	0.0907	6.7301	8.2307			
2	1	7.4309	6.2200	6.0026	7.9751	6.7403	8.1362			
3	1	7.3953	6.1933	6.0222	7.8634	6.7459	8.0447			
4	1	7.3498	6.1671	6.0408	7.7997	6.7465	7.9540			
5	1	7.3042	6.1417	6.0578	7.7358	6.7403	7.8861			
6	1	7.2587	6.1173	6.0715	7.6715	6.7292	7.8181			
7	1	7.2131	6.0931	6.0803	7.6073	6.7110	7.7512			
8	1	7.1679	6.0768	6.0973	7.5459	6.6949	7.6831			
9	1	7.1220	6.0638	6.1136	7.4830	6.6545	7.6195			
10	1	7.0765	6.0539	6.1355	7.4214	6.6034	7.5591			
11	1	7.0309	6.0468	6.1529	7.3589	6.5430	7.4974			
12	1	6.9853	6.0351	6.1726	7.2971	6.4835	7.4358			
13	1	6.9398	6.0217	6.1931	7.2369	6.4103	7.3749			
14	1	6.8942	6.0073	6.2147	7.1769	6.3363	7.3149			
15	1	6.8487	6.0000	6.2371	7.1171	6.2624	7.2549			
16	1	6.8031	6.0000	6.2600	7.0573	6.1884	7.1949			
17	1	6.7576	6.0000	6.2829	6.9973	6.1144	7.1349			
18	1	6.7120	6.0000	6.3057	6.9373	6.0404	7.0749			
19	1	6.6665	6.0000	6.3281	6.8773	5.9664	7.0149			

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACIONES DE MAYO

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1961	.	6.5209	7.3015	5.8613	7.3586	5.7595	7.4524	.	.
21	1962	.	6.5754	0.3109	5.7705	7.3803	5.6558	7.4957	.	.
22	1963	.	6.5293	0.3505	5.6516	7.4021	5.5307	7.5090	.	.
23	1964	.	6.4841	0.3541	5.5444	7.4242	5.4445	7.5441	.	.
24	1965	.	6.4397	0.4118	5.4311	7.4464	5.3373	7.5402	.	.
25	1966	.	6.3932	0.4595	5.3177	7.4687	5.2293	7.5570	.	.
26	1967	.	6.3475	0.4972	5.2042	7.4911	5.1207	7.5746	.	.
27	1968	.	6.3021	0.4957	5.0924	7.5135	5.0115	7.5929	.	.
28	1969	.	6.2565	0.5229	4.9770	7.5351	4.9019	7.6112	.	.
29	2000	.	6.2110	0.5508	4.8653	7.5587	4.7913	7.6302	.	.

OBS ID STUDENT  
RESIDUAL

--2-1-0 1 2

COOK'S  
D

1	1972	.	-1.4456	*	0.747	.
2	1973	.	.	**	0.325	.
3	1974	.	1.3121	***	0.255	.
4	1975	.	1.5320	4	0.058	.
5	1976	.	-0.8757	#	0.007	.
6	1977	.	-0.9425	.	0.004	.
7	1978	.	-0.1866	.	0.030	.
8	1979	.	0.3957	.	0.011	.
9	1980	.	0.1753	.	.	.
10	1981	.	.	.	.	.
11	1982	.	.	.	.	.
12	1983	.	.	.	.	.
13	1984	.	.	.	.	.
14	1985	.	.	.	.	.
15	1986	.	.	.	.	.
16	1987	.	.	.	.	.
17	1988	.	.	.	.	.
18	1989	.	.	.	.	.
19	1990	.	.	.	.	.
20	1991	.	.	.	.	.
21	1992	.	.	.	.	.
22	1993	.	.	.	.	.
23	1994	.	.	.	.	.
24	1995	.	.	.	.	.
25	1996	.	.	.	.	.
26	1997	.	.	.	.	.
27	1998	.	.	.	.	.
28	1999	.	.	.	.	.
29	2000	.	.	.	.	.

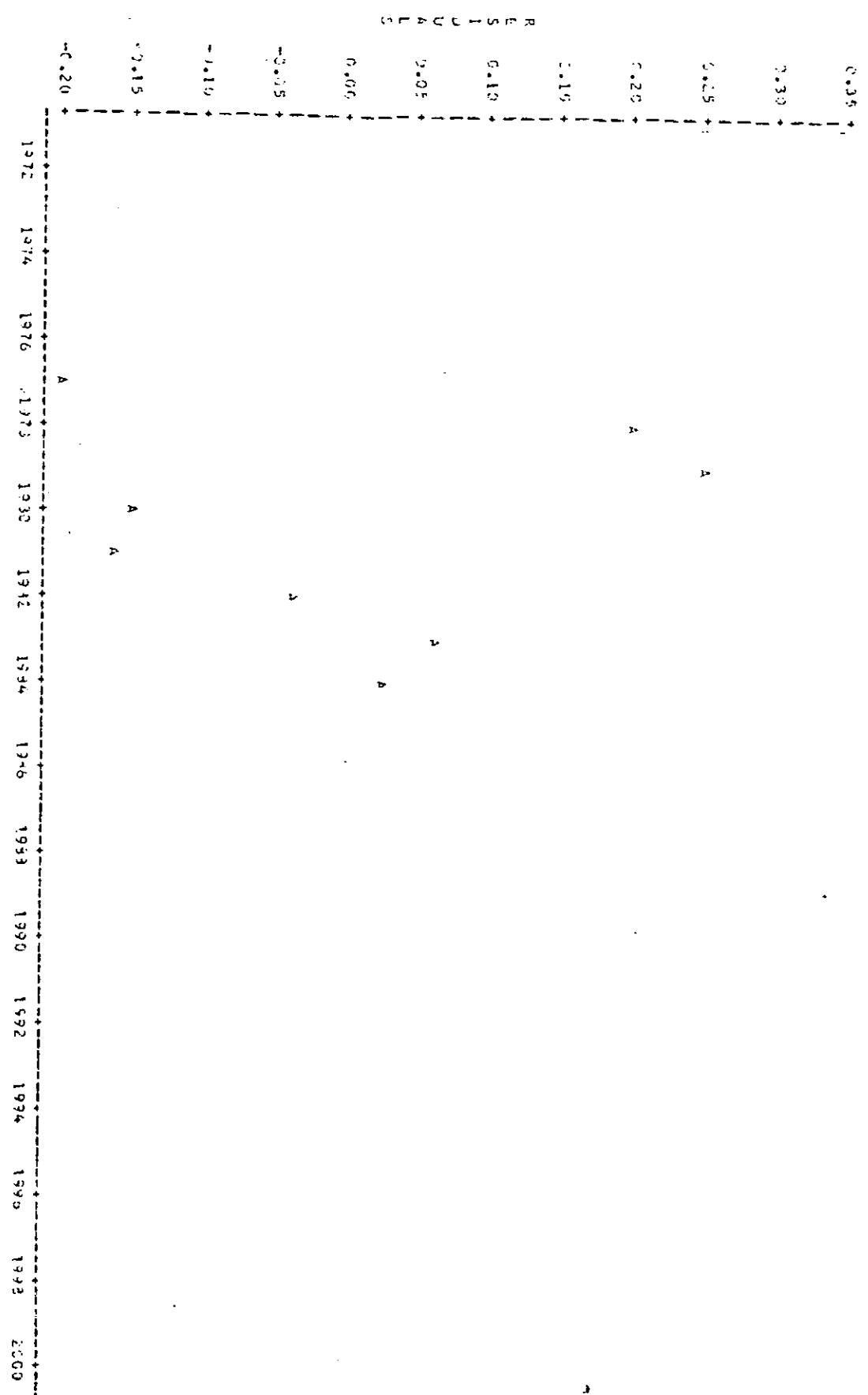
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SUM OF SQUARED RESIDUALS 0.1092978  
PREDICTED RESID 0.1066125

DURBIN-WATSON J 1.779  
(FOR NUMBER OF OBS.) 8

1ST ORDER AUTOCORRELATION 0.307

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=25 DE MAYO

PROVINCIA DE LA PAMPA  
 SERIE HISTORICA DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 DIFUSION RESISTENCIAL  
 ESTACIONES DE AVO  
 PLUT DE RESIDUO LUGAR A = 1.085, B = 2.085, ETC.



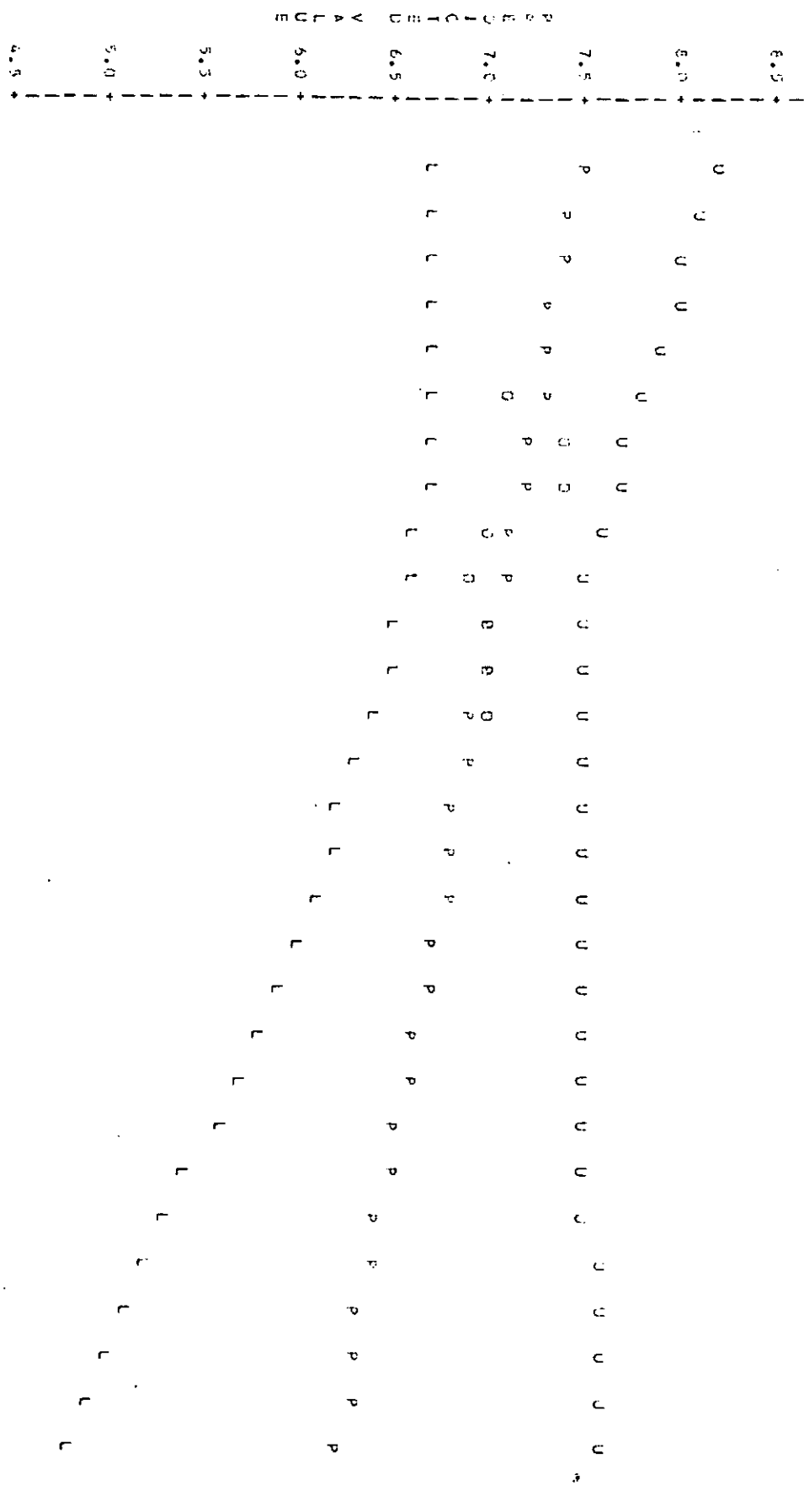
NOTE: 21 GAS HAD MISSING VALUES

AVIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=25 DE MAYO

PLUT OF RESIDEN\*ANIO SYMBOL USED IS U  
PLUT OF PRED\*ANIO SYMBOL USED IS P  
PLUT OF URS\*ANIO SYMBOL USED IS L  
PLUT OF URS\*ANIO SYMBOL USED IS U



NOTE: 21 OBS HAD MISSING VALUES

ANJO

PROVINCIA DE LA PAMPA  
 SERIE HISTÓRICAS DE ENERGÍA (MMH)  
 MODELO EXPERIMENTAL  
 SECTOR RESIDENCIAL

ESTACIONES DE MAYO

PLCI OF RESIDENCIAL LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 21 OBS HAD MISSING VALUES

ANID



ESTABLISHED 25 OCT 1945

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SYMBOL USED IS 3
SYMBOL USED IS P
SYMBOL USED IS L
SYMBOL USED IS U
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1972 1974 1976 1978 1980 1982 1984 1985 1988 1990 1992 1994 1996 1998 2000

21 OBS HAD MISSING VALUES

AN 10

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ANIO	RESIDEN	PREO	LOS	UGS	RESID
1972	27	50.39	17.12	61.3	-5.387
1973	46	29.07	20.95	72.8	0.930
1974	16	47.13	25.63	86.7	6.657
1975	79	50.36	31.24	103.5	22.141
1976	50	66.39	37.96	123.9	-19.593
1977	100	81.75	49.00	146.9	17.152
1978	24	89.82	55.57	179.3	-15.824
1979	105	120.42	66.94	216.6	-15.423
1980	117	145.27	90.40	262.5	-28.274
1981	173	173.23	96.23	319.0	-2.453
1982	181	211.42	114.97	383.3	-30.419
1983	215	255.05	130.94	475.0	-37.047
1984	535	307.43	142.59	591.9	197.521
1985	.	371.17	162.83	714.4	.
1986	.	447.77	228.05	879.1	.
1987	.	540.17	269.24	1033.7	.
1988	.	651.64	317.26	1308.5	.
1989	.	780.11	373.24	1655.7	.
1990	.	943.34	435.47	2051.1	.
1991	.	1144.04	514.42	2544.3	.
1992	.	1360.12	602.82	3159.7	.
1993	.	1664.93	705.65	3928.2	.
1994	.	2009.50	825.26	4933.7	.
1995	.	2423.96	964.30	6088.2	.
1996	.	2922.09	1125.91	7588.7	.
1997	.	3520.19	1313.70	9464.9	.
1998	.	4253.55	1531.65	11812.7	.
1999	.	5131.69	1782.21	14751.3	.
2000	.	6193.67	2076.42	18430.3	.

PROVINCIA DE LA PAZ  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO ECONOMICO  
SECTOR RESIDENCIAL

ESTACION=LOCAL, AISLADAS

DEP VARIABLE: RESIDEN

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	4.4666553	4.4666553	37.418	0.0001
ERROR	11	0.7237132	0.06575648		
TOTAL	12	7.1210685			

ROOT MSE	0.256303	R-SQUARE	0.6093
DEP MEAN	4.03405	ADJ R-SQ	0.6092
C.V.	5.570001		

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	1 FOR H0:	PROB> T
INTERCEPT	1	-289.43001	37.56704654	-9.765	0.0001
AVID	1	0.18760590	0.01900768	9.870	0.0001

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	3.2359	3.4773	0.1344	3.1919	3.7736	2.9405	4.1150	-0.1319	0.2194
2	1973	3.6236	3.6654	0.1197	3.47041	3.9266	3.0634	4.2873	0.1532	0.2273
3	1974	4.0254	3.6530	0.1341	3.4630	4.0521	3.2436	4.4621	0.1724	0.2343
4	1975	4.3694	4.0406	0.0912	3.8397	4.2412	3.4410	4.6396	0.2209	0.2397
5	1976	3.9120	4.2202	0.0806	4.0507	4.4057	3.6365	4.8198	-0.3162	0.2434
6	1977	4.6056	4.4153	0.0736	4.2530	4.5776	3.9235	5.0037	0.1504	0.2450
7	1978	4.4508	4.6034	0.0711	4.4459	4.7599	4.0177	5.1591	-0.1770	0.2464
8	1979	4.0340	4.7910	0.0736	4.6290	4.9530	4.2039	5.3182	-0.2164	0.2450
9	1980	4.7512	4.9780	0.0620	4.8011	5.1501	4.3870	5.5723	-0.2164	0.2434
10	1981	5.1533	5.1462	0.0912	4.9556	5.3649	4.5472	5.7052	-0.2129	0.2397
11	1982	5.1985	5.3353	0.1041	5.1247	5.5830	4.7447	5.9650	-0.1533	0.2343
12	1983	5.3505	5.5414	0.1187	5.2832	5.8027	4.9195	6.1034	-0.1570	0.2273
13	1984	6.2246	5.7291	0.1344	5.4332	6.0249	5.0913	6.3663	0.4952	0.2194
14	1985		5.9167	0.1509	5.5846	6.2487	5.2613	6.5715		
15	1986		6.1303	0.1679	5.7348	6.4736	5.4297	6.7799		
16	1987		6.2919	0.1853	5.8841	6.4997	5.5956	6.9862		
17	1988		6.4795	0.2029	6.0326	6.9262	5.7557	7.1953		
18	1989		6.6571	0.2209	6.1810	7.1532	5.9222	7.4120		
19	1990		6.8547	0.2389	6.3289	7.3906	6.0333	7.6261		

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=LOCAL. AISLADAS

DBS	ID	ACTUAL	PREDICT VALUE	STU ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STU ERR RESIDUAL
20	1991	7.0423	0.2571	6.4754	7.6033	6.2430	7.8415			
21	1992	7.2299	0.2755	6.6237	7.8362	6.4016	8.0592			
22	1993	7.4175	0.2939	6.7708	8.0643	6.5591	8.2739			
23	1994	7.6051	0.3123	6.9177	8.2915	6.7157	8.4940			
24	1995	7.7926	0.3309	7.0645	8.5210	6.8714	8.7141			
25	1996	7.9804	0.3493	7.2112	8.7495	7.0264	8.9344			
26	1997	8.1690	0.3681	7.3573	8.9791	7.1906	9.1553			
27	1998	8.3556	0.3868	7.5043	9.2068	7.3342	9.3769			
28	1999	8.5432	0.4054	7.6508	9.4356	7.4873	9.5971			
29	2000	8.7308	0.4242	7.7972	9.6644	7.6399	9.8213			

DBS	ID	STUDENT RESIDUAL	W=1-0.12	COOK'S D
1	1972	-0.8330	*	0.131
2	1973	0.7182	*	0.070
3	1974	0.7336	*	0.053
4	1975	1.3721	**	0.136
5	1976	-1.2998	*	0.093
6	1977	0.7710	*	0.027
7	1978	-0.7005	*	0.020
8	1979	-0.5580	*	0.014
9	1980	-0.6892	*	0.043
10	1981	-0.634	*	0.000
11	1982	-0.6629	*	0.043
12	1983	-0.6905	*	0.065
13	1984	2.2689	***	0.375
14	1985			
15	1986			
16	1987			
17	1988			
18	1989			
19	1990			
20	1991			
21	1992			
22	1993			
23	1994			
24	1995			
25	1996			
26	1997			
27	1998			
28	1999			
29	2000			

SUM OF RESIDUALS -1.24434E-12  
SUM OF SQUARED RESIDUALS 0.7225213  
PREDICTED RESID SS (PRESS) 1.112545

DURBIN-WATSON D 1.993  
(FOR NUMBER OF DBS.) 13

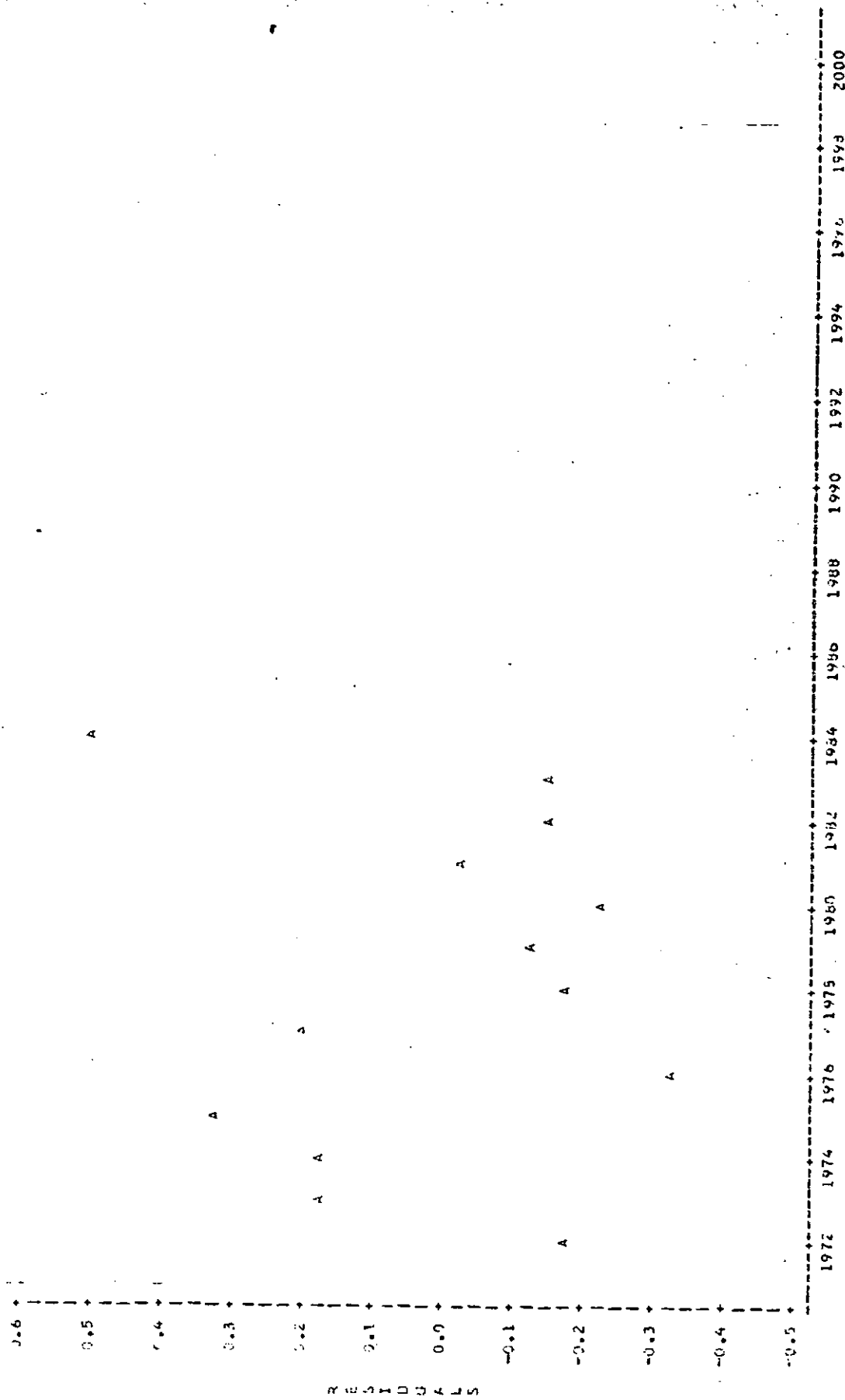
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PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL  
ESTACION=LOCAL. AISLADAS

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=LOCAL. AISLADAS

PLOT OF RESIDUOS LEGEND: A = 1 OBS, B = 2 OBS, ETC.

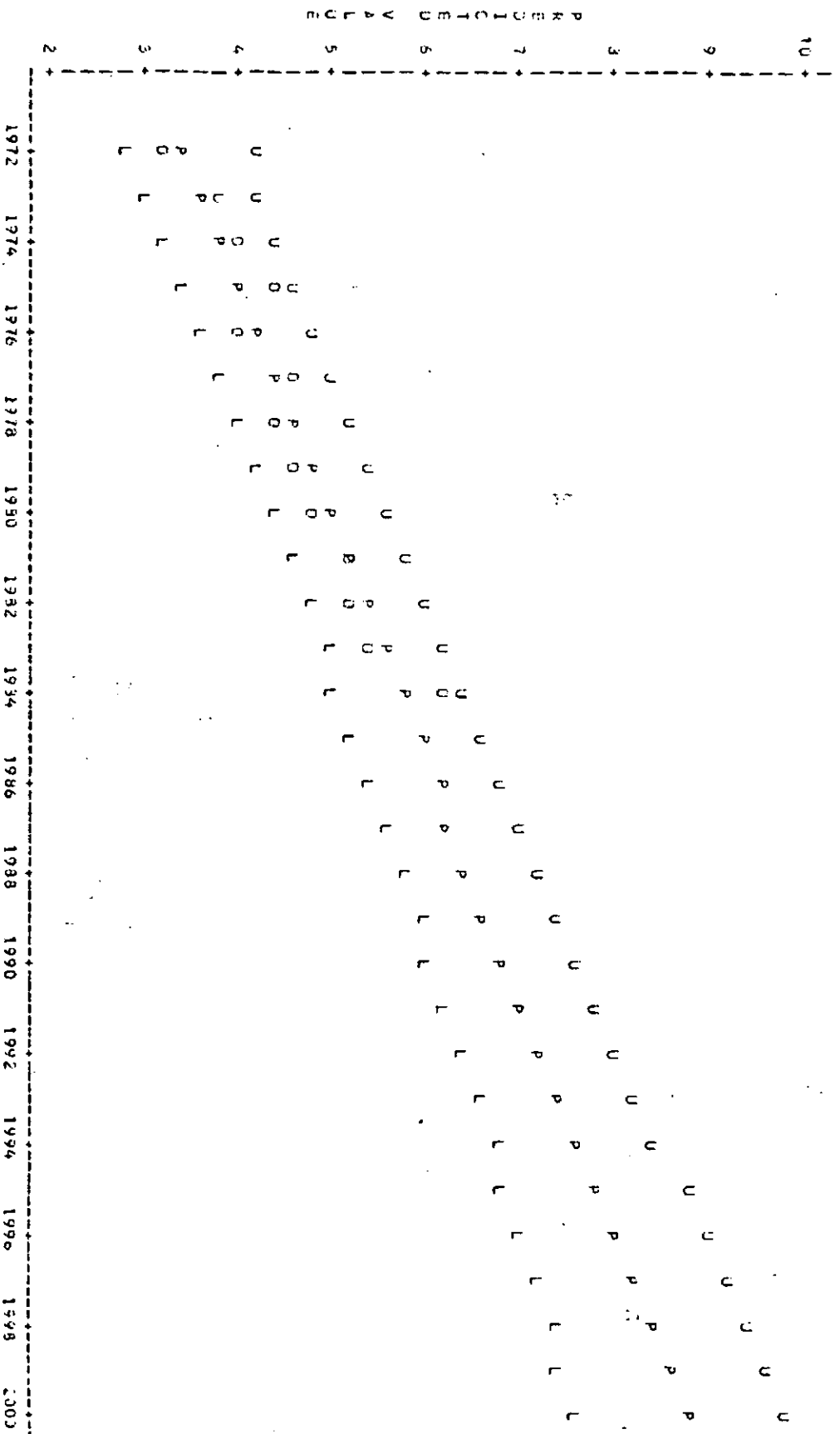


NOTE: 16 OBS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RESIDENCIAL

ESTACION=LOCAL. AISLADAS

PLOT OF RESIDEN\*ANIO SYMBOL USED IS O  
 PLOT OF PRED\*ANIO SYMBOL USED IS P  
 PLOT OF LYS\*ANIO SYMBOL USED IS L  
 PLOT OF UGS\*ANIO SYMBOL USED IS U



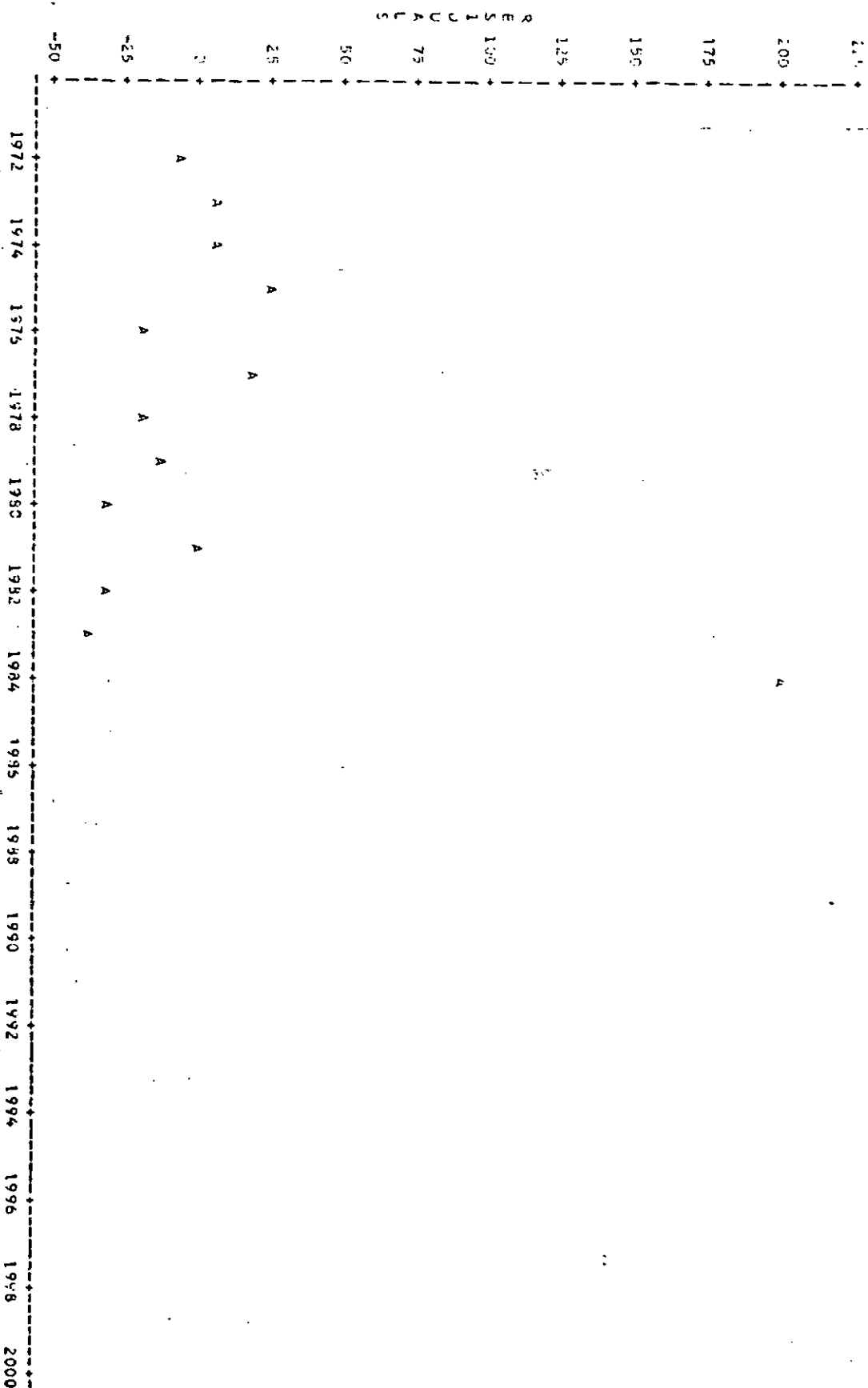
NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION-LOCAL. AISLADAS

PLOT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



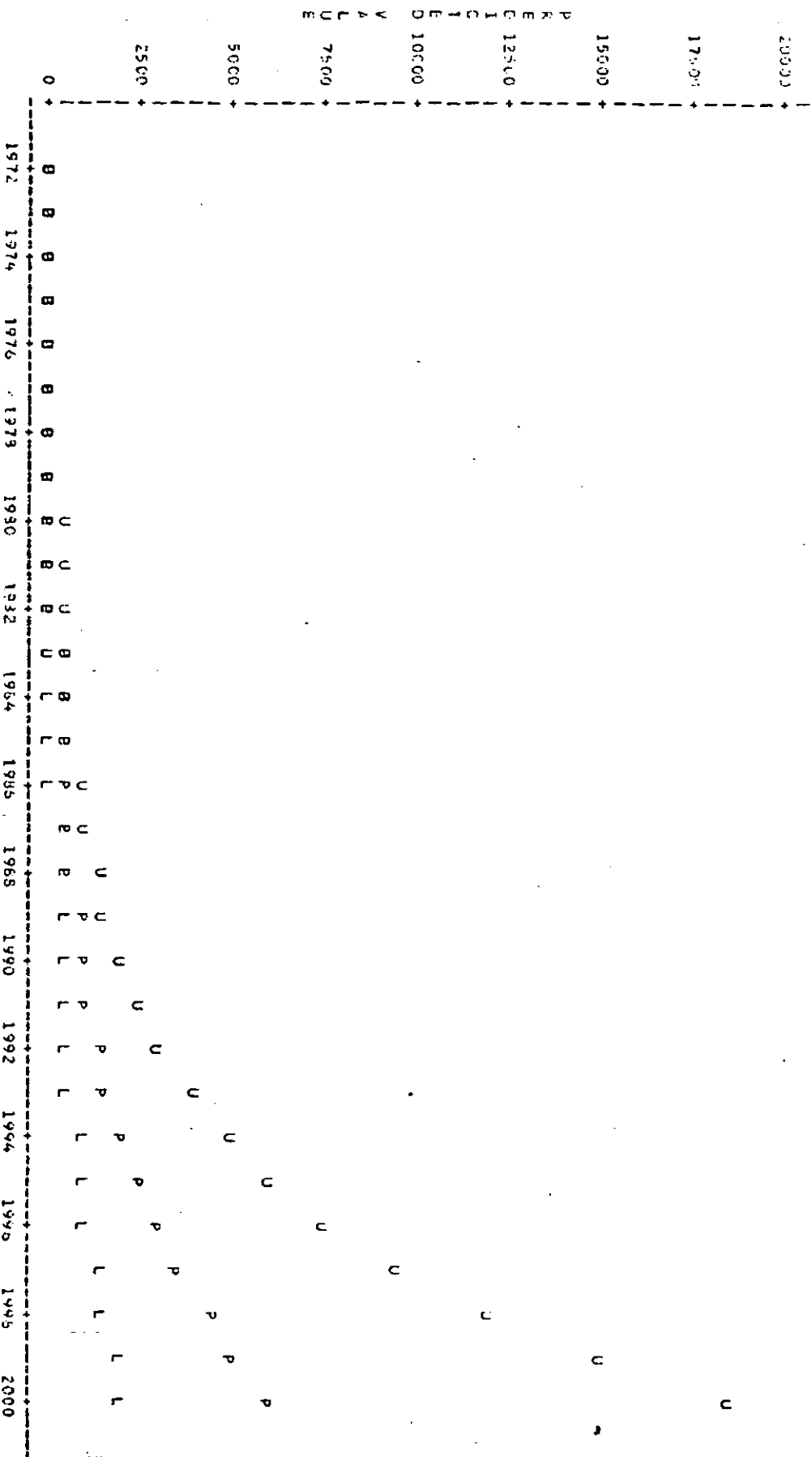
NOTE: 16 OBS HAD MISSING VALUES



PROVINCIA DE LA PAZ  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR RESIDENCIAL

ESTACION=LOCAL, AISLADAS

PLOT OF RESIDEN+ANIO SYMBOL USED IS O  
PLOT OF PRED+ANIO SYMBOL USED IS P  
PLOT OF 195+ANIO SYMBOL USED IS L  
PLOT OF 095+ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=TOTAL PROVINCIAL

ANIO	INDUST	PRED.	L95	U95	RESID
1972	4759	4429	2903	6618	330.5
1973	4986	5157	3491	7647	-220.7
1974	5420	5028	4108	8850	-609.0
1975	6472	7033	4421	10259	-630.8
1976	6391	8200	5651	11914	-1614.2
1977	10779	9573	6611	13851	1206.1
1978	12174	11154	7721	16157	2005.3
1979	16340	13030	8939	18868	3879.5
1980	19121	15208	10470	22075	4015.4
1981	15875	17737	12159	25874	-1161.9
1982	19801	20393	14095	30381	-1092.4
1983	20915	24143	16312	35732	-3227.9
1984	26624	26167	15649	42092	-1563.4
1985		32863	21743	49657	
1986		38341	23060	59660	
1987		44731	26840	69332	
1988		51104	33153	82155	
1989		61308	38072	97378	
1990		71038	43482	115528	
1991		82580	51076	137173	
1992		90090	57354	162996	
1993		112114	65608	193808	
1994		131620	75130	230564	
1995		153561	85909	274485	
1996		179158	98137	326903	
1997		209022	112171	389501	
1998		243867	128090	464269	
1999		284518	146229	553586	
2000		331946	168875	660298	

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION-TOTAL PROVINCIAL

DEP VARIABLE: INDCST

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	4.32614625	4.32614625	165.560	0.0001
ERROR	11	0.23743501	0.02158500		
C TOTAL	12	4.61358127			

ROOT MSE 0.1616492  
DEP MEAN 3.32087  
C.V. 1.734271  
R-SQUARE 0.9377  
ADJ R-SQ 0.9320

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEP	1	-295.63795	23.71090135	-12.474	0.0001
AVIG	1	0.15417534	0.01196123	12.867	0.0001

YRS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	8.46673	8.3958	0.0347	8.2093	8.5823	7.9941	8.7975	0.0720	0.1377
2	1973	9.5063	8.5500	0.0749	8.3553	8.7147	8.1579	8.9421	-0.7437	0.1633
3	1974	8.5779	8.7542	0.0656	8.5597	8.9486	8.3202	9.0942	-0.1063	0.1477
4	1975	8.7044	8.8583	0.0375	8.7319	8.9848	8.4307	9.2359	-0.0943	0.1511
5	1976	8.7322	9.0125	0.0600	8.9000	9.1244	8.6396	9.3855	-0.2499	0.1534
6	1977	9.2854	9.1607	0.0744	9.0646	9.2638	8.7765	9.5369	0.1137	0.1548
7	1978	9.4851	9.3279	0.0648	9.2222	9.4195	8.9517	9.6901	0.1051	0.1553
8	1979	9.7315	9.4753	0.0644	9.3729	9.5772	9.1049	9.8452	0.2565	0.1548
9	1980	9.3623	9.6292	0.0508	9.5113	9.7411	9.2553	10.0022	-0.2345	0.1534
10	1981	9.7157	9.7034	0.0375	9.6509	9.9099	9.4058	10.1610	-0.0677	0.1511
11	1982	9.8522	9.9376	0.0656	9.7931	10.0820	9.6997	10.4833	-0.0653	0.1477
12	1983	9.9482	10.0917	0.0744	9.9217	10.2564	9.6997	10.4833	-0.1435	0.1433
13	1984	19.1896	10.2459	0.0947	10.0584	10.4324	9.6442	10.4478	-0.0504	0.1577
14	1985		10.4001	0.0951	10.1903	10.6094	9.9873	10.8129		
15	1986		10.5543	0.1108	10.3214	10.7872	10.1290	10.9795		
16	1987		10.7084	0.1108	10.4514	10.9655	10.2693	11.1474		
17	1988		10.8425	0.1279	10.5810	11.1442	10.4089	11.3164		
18	1989		11.0103	0.1392	10.7104	11.3252	10.5472	11.4864		
19	1990		11.1719	0.1506	10.8395	11.5025	10.6647	11.6573		

PROVINCIA DE LA PAZ  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=TOTAL PROVINCIAL

JOS	IS	ACTUAL	PREDICT VALUE	STD-ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STU ERR RESIDUAL
21	1991	.	11.3251	0.1621	10.9684	11.6819	10.8213	11.3290	.	.
21	1991	.	11.4793	0.1732	11.0371	11.9615	10.9572	12.3015	.	.
21	1991	.	11.6332	0.1852	11.2259	12.0412	11.0924	12.1745	.	.
21	1991	.	11.7877	0.1959	11.3543	12.4210	11.2270	12.3454	.	.
21	1991	.	11.9419	0.2085	11.4818	13.4009	11.3510	12.5227	.	.
21	1991	.	12.0960	0.2203	11.6112	12.5809	11.4946	12.6974	.	.
21	1991	.	12.2502	0.2321	11.7395	12.7609	11.6273	12.8725	.	.
21	1991	.	12.4044	0.2438	11.8678	12.9410	11.7605	13.0482	.	.
21	1991	.	12.5586	0.2556	11.9960	13.1211	11.8929	13.2242	.	.
21	1991	.	12.7127	0.2674	12.1242	13.3013	12.0250	13.4004	.	.
21	1991	.	12.8668	0.2792	12.2573	13.4815	12.1501	13.5766	.	.
21	1991	.	13.0209	0.2910	12.3904	13.6617	12.2752	13.7528	.	.
21	1991	.	13.1750	0.3028	12.5235	13.8419	12.4003	13.9289	.	.
21	1991	.	13.3291	0.3146	12.6566	14.0221	12.5254	14.1051	.	.
21	1991	.	13.4832	0.3264	12.7897	14.2023	12.6505	14.2813	.	.
21	1991	.	13.6373	0.3382	12.9228	14.3825	12.7756	14.4575	.	.
21	1991	.	13.7914	0.3500	13.0559	14.5627	12.9007	14.6337	.	.
21	1991	.	13.9455	0.3618	13.1890	14.7429	13.0258	14.8099	.	.
21	1991	.	14.0996	0.3736	13.3221	14.9231	13.1509	14.9861	.	.
21	1991	.	14.2537	0.3854	13.4552	15.1033	13.2760	15.1623	.	.
21	1991	.	14.4078	0.3972	13.5883	15.2835	13.4011	15.3385	.	.
21	1991	.	14.5619	0.4090	13.7214	15.4637	13.5262	15.5147	.	.
21	1991	.	14.7160	0.4208	13.8545	15.6439	13.6513	15.6909	.	.
21	1991	.	14.8701	0.4326	13.9876	15.8241	13.7764	15.8671	.	.
21	1991	.	15.0242	0.4444	14.1207	16.0043	13.9015	16.0433	.	.
21	1991	.	15.1783	0.4562	14.2538	16.1845	14.0266	16.2195	.	.
21	1991	.	15.3324	0.4680	14.3869	16.3647	14.1517	16.3957	.	.
21	1991	.	15.4865	0.4798	14.5200	16.5449	14.2768	16.5719	.	.
21	1991	.	15.6406	0.4916	14.6531	16.7251	14.4019	16.7481	.	.
21	1991	.	15.7947	0.5034	14.7862	16.9053	14.5270	16.9243	.	.
21	1991	.	15.9488	0.5152	14.9193	17.0855	14.6521	17.1005	.	.
21	1991	.	16.1029	0.5270	15.0524	17.2657	14.7772	17.2767	.	.
21	1991	.	16.2570	0.5388	15.1855	17.4459	14.9023	17.4529	.	.
21	1991	.	16.4111	0.5506	15.3186	17.6261	15.0274	17.6291	.	.
21	1991	.	16.5652	0.5624	15.4517	17.8063	15.1525	17.8053	.	.
21	1991	.	16.7193	0.5742	15.5848	17.9865	15.2776	17.9815	.	.
21	1991	.	16.8734	0.5860	15.7179	18.1667	15.4027	18.1577	.	.
21	1991	.	17.0275	0.5978	15.8510	18.3469	15.5278	18.3339	.	.
21	1991	.	17.1816	0.6096	15.9841	18.5271	15.6529	18.5101	.	.
21	1991	.	17.3357	0.6214	16.1172	18.7073	15.7780	18.6863	.	.
21	1991	.	17.4898	0.6332	16.2503	18.8875	15.9031	18.8625	.	.
21	1991	.	17.6439	0.6450	16.3834	19.0677	16.0282	19.0387	.	.
21	1991	.	17.7980	0.6568	16.5165	19.2479	16.1533	19.2149	.	.
21	1991	.	17.9521	0.6686	16.6496	19.4281	16.2784	19.3911	.	.
21	1991	.	18.1062	0.6804	16.7827	19.6083	16.4035	19.5673	.	.
21	1991	.	18.2603	0.6922	16.9158	19.7885	16.5286	19.7435	.	.
21	1991	.	18.4144	0.7040	17.0489	19.9687	16.6537	19.9197	.	.
21	1991	.	18.5685	0.7158	17.1820	20.1489	16.7788	20.0959	.	.
21	1991	.	18.7226	0.7276	17.3151	20.3291	16.9039	20.2721	.	.
21	1991	.	18.8767	0.7394	17.4482	20.5093	17.0290	20.4483	.	.
21	1991	.	19.0308	0.7512	17.5813	20.6895	17.1541	20.6245	.	.
21	1991	.	19.1849	0.7630	17.7144	20.8697	17.2792	20.8007	.	.
21	1991	.	19.3390	0.7748	17.8475	21.0499	17.4043	20.9769	.	.
21	1991	.	19.4931	0.7866	17.9806	21.2301	17.5294	21.1531	.	.
21	1991	.	19.6472	0.7984	18.1137	21.4103	17.6545	21.3293	.	.
21	1991	.	19.8013	0.8102	18.2468	21.5905	17.7796	21.5055	.	.
21	1991	.	19.9554	0.8220	18.3799	21.7707	17.9047	21.6817	.	.
21	1991	.	20.1095	0.8338	18.5130	21.9509	18.0298	21.8579	.	.
21	1991	.	20.2636	0.8456	18.6461	22.1311	18.1549	22.0341	.	.
21	1991	.	20.4177	0.8574	18.7792	22.3113	18.2800	22.2103	.	.
21	1991	.	20.5718	0.8692	18.9123	22.4915	18.4051	22.3865	.	.
21	1991	.	20.7259	0.8810	19.0454	22.6717	18.5302	22.5627	.	.
21	1991	.	20.8800	0.8928	19.1785	22.8519	18.6553	22.7389	.	.
21	1991	.	21.0341	0.9046	19.3116	23.0321	18.7804	22.9151	.	.
21	1991	.	21.1882	0.9164	19.4447	23.2123	18.9055	23.0913	.	.
21	1991	.	21.3423	0.9282	19.5778	23.3925	19.0306	23.2675	.	.
21	1991	.	21.4964	0.9400	19.7109	23.5727	19.1557	23.4437	.	.
21	1991	.	21.6505	0.9518	19.8440	23.7529	19.2808	23.6199	.	.
21	1991	.	21.8046	0.9636	19.9771	23.9331	19.4059	23.7961	.	.
21	1991	.	21.9587	0.9754	20.1102	24.1133	19.5310	23.9723	.	.
21	1991	.	22.1128	0.9872	20.2433	24.2935	19.6561	24.1485	.	.
21	1991	.	22.2669	0.9990	20.3764	24.4737	19.7812	24.3247	.	.
21	1991	.	22.4210	1.0108	20.5095	24.6539	19.9063	24.5009	.	.
21	1991	.	22.5751	1.0226	20.6426	24.8341	20.0314	24.6771	.	.
21	1991	.	22.7292	1.0344	20.7757	25.0143	20.1565	24.8533	.	.
21	1991	.	22.8833	1.0462	20.9088	25.1945	20.2816	25.0295	.	.
21	1991	.	23.0374	1.0580	21.0419	25.3747	20.4067	25.2057	.	.
21	1991	.	23.1915	1.0698	21.1750	25.5549	20.5318	25.3819	.	.
21	1991	.	23.3456	1.0816	21.3081	25.7351	20.6569	25.5581	.	.
21	1991	.	23.5000	1.0934	21.4412	25.9153	20.7820	25.7343	.	.
21	1991	.	23.6541	1.1052	21.5743	26.0955	20.9071	25.9105	.	.
21	1991	.	23.8082	1.1170	21.7074	26.2757	21.0322	26.0867	.	.
21	1991	.	23.9623	1.1288	21.8405	26.4559	21.1573	26.2629	.	.
21	1991	.	24.1164	1.1406	21.9736	26.6361	21.2824	26.4391	.	.
21	1991	.	24.2705	1.1524	22.1067	26.8163	21.4075	26.6153	.	.
21	1991	.	24.4246	1.1642	22.2398	26.9965	21.5326	26.7915	.	.
21	1991	.	24.5787	1.1760	22.3729	27.1767	21.6577	26.9677	.	.
21	1991	.	24.7328	1.1878	22.5060	27.3569	21.7828	27.1439	.	.
21	1991	.	24.8869	1.1996	22.6391	27.5371	21.9079	27.3201	.	.
21	1991	.	25.0410	1.2114	22.7722	27.7173	22.0330	27.4963	.	.
21	1991	.	25.1951	1.2232	22.9053	27.8975	22.1581	27.6725	.	.
21	1991	.	25.3492	1.2350	23.0384	28.0777	22.2832	27.8487	.	.
21	1991	.	25.5033	1.2468	23.1715	28.2579	22.4083	28.0249	.	.
21	1991	.	25.6574	1.2586	23.3046	28.4381	22.5334	28.2011	.	.
21	1991	.	25.8115	1.2704	23.4377	28.6183	22.6585	28.3773	.	.
21	1991	.	25.9656	1.2822	23.5708	28.7985	22.7836	28.5535	.	.
21	1991	.	26.1197	1.2940	23.7039	28.9787	22.9087	28.7297	.	.
21	1991	.	26.2738	1.3058	23.8370	29.1589	23.0338	28.9059	.	.
21	1991	.	26.4279	1.3176	23.9701	29.3391	23.1589	29.0821	.	.
21	1991	.	26.5820	1.3294	24.1032	29.5193	23.2840	29.2583	.	.
21	1991	.	26.7361	1.3412	24.2363	29.6995	23.4091	29.4345	.	.
21	1991	.	26.8902	1.3530	24.3694	29.8797	23.5342	29.6107	.	.
21	1991	.	27.0443	1.3648	24.5025	30.0599	23.6593	29.7869	.	.
21	1991	.	27.1984	1.3766	24.6356	30.2401	23.7844	29.9631	.	.
21	1991	.	27.3525	1.3884	24.7687	30.4203	23.9095	30.1393	.	.
21	1991	.	27.5066	1.4002	24.9018	30.6005	24.0346	30.3155	.	.
21	1991	.	27.6607	1.4120	25.0349	30.7807	24.1597	30.4917	.	.
21	1991	.	27.8148	1.4238	25.1680	30.9609	24.2848	30.6679	.	.
21	1991	.	27.9689	1.4356	25.3011	31.1411	24.4100	30.8441	.	.
21	1991	.	28.1230	1.4474	25.4342	31.3213	24.5351	31.0203	.	.
21	1991	.	28.2771	1.4592	25.5673	31.5015	24.6602	31.1965	.	.
21	1991	.	28.4312	1.4710	25.7004	31.6817	24.7853	31.3727	.	.
21	1991	.	28.5853	1.4828	25.8335	31.8619	24.9104	31.5489	.	.
21	1991	.	28.7394	1.4946	25.9666	32.0421	25.0355	31.7251	.	.
21	1991	.	28.8935	1.5064	26.0997	32.2223	25.1606	31.9013	.	.
21	1991	.	29.047							

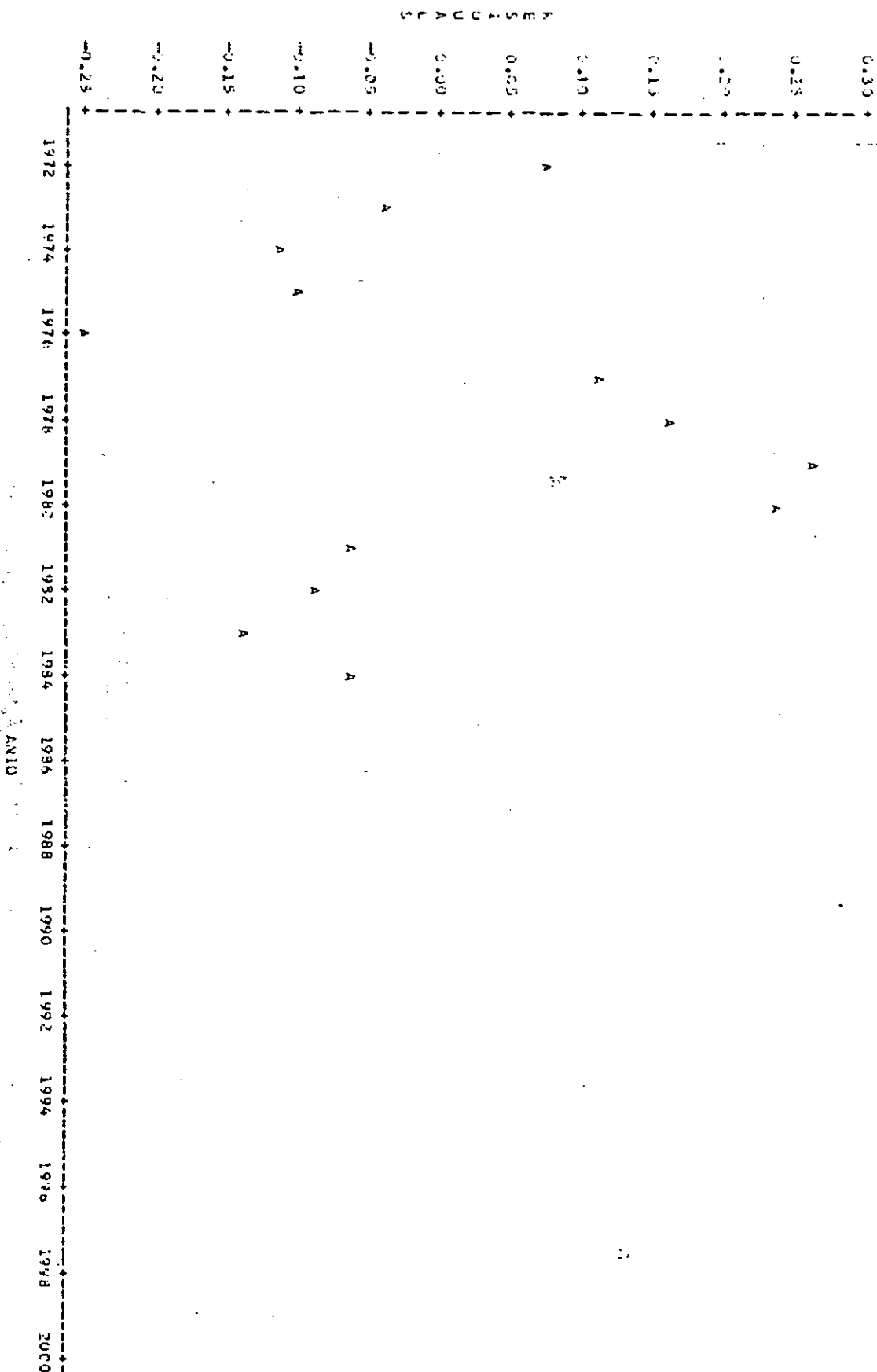
ISI UNDER AUTOCORRELATION 0.479

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MUELEO EXPONENCIAL  
SECTOR INDUSTRIAL  
ESTACION=TOTAL PROVINCIAL

PROVINCIA DE LA PAPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=TC. AL PROVINCIAL

PLOT OF RESIDU\*ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 1 = OBS AND MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=TOTAL PROVINCIAL

PLOT OF INDUST\*ANIO SYMBOL USED IS U  
PLOT OF PREC\*ANIO SYMBOL USED IS P  
PLOT OF L95\*ANIO SYMBOL USED IS L  
PLOT OF 095\*ANIO SYMBOL USED IS U

	1972	1974	1976	1978	1980	1982	1984	1986	1988	1990	1992	1994	1996	1998	2000
14															
13															
12															
P R E C I P I T A T I O N															
11															
10															
9															
8															
7															
6															

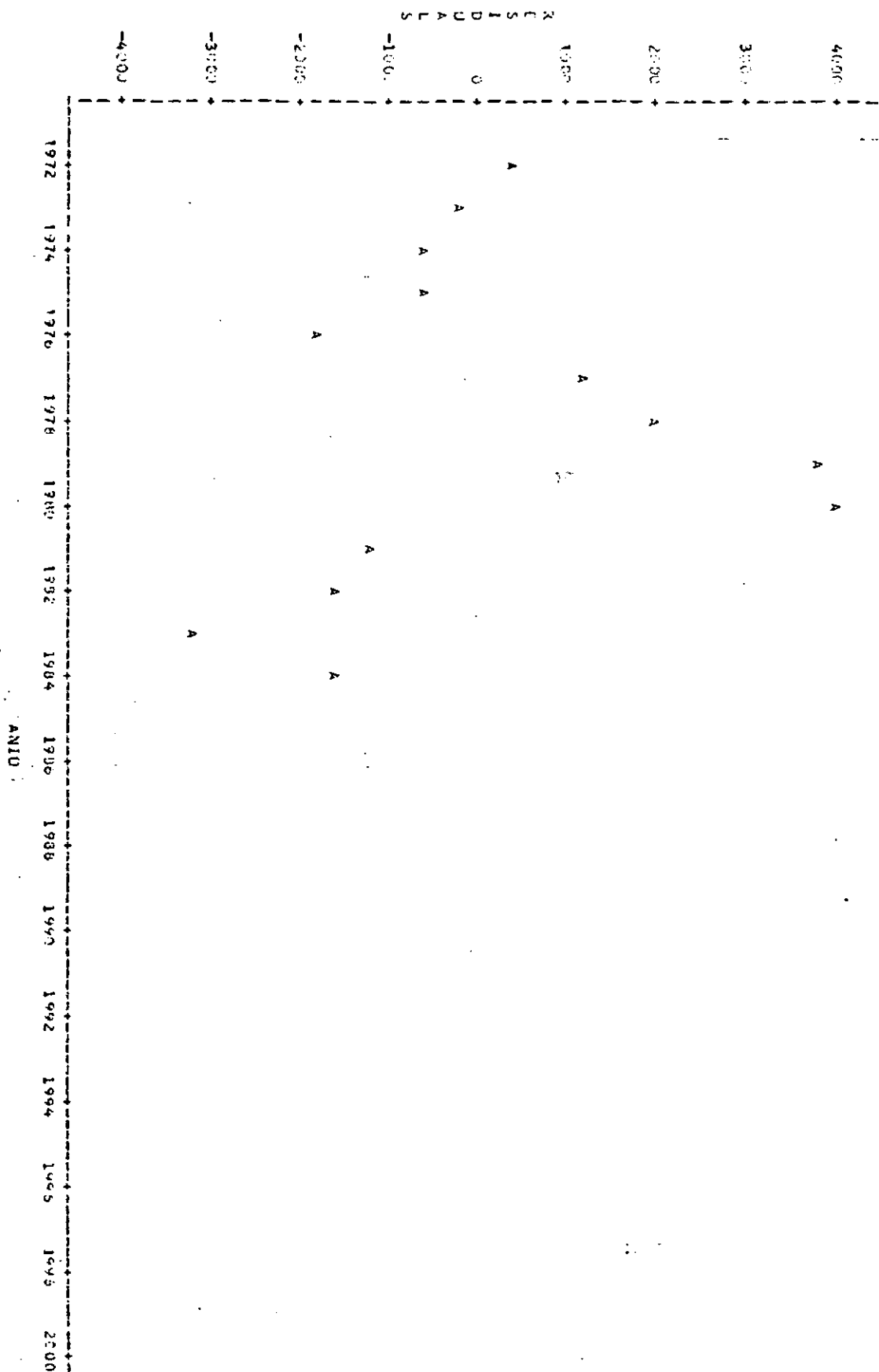
NOTE: 16 OBS HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTADÍSTICA TOTAL PROVINCIAL

PLOT OF RESIDUOS ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 1= OBS HAD MISSING VALUES

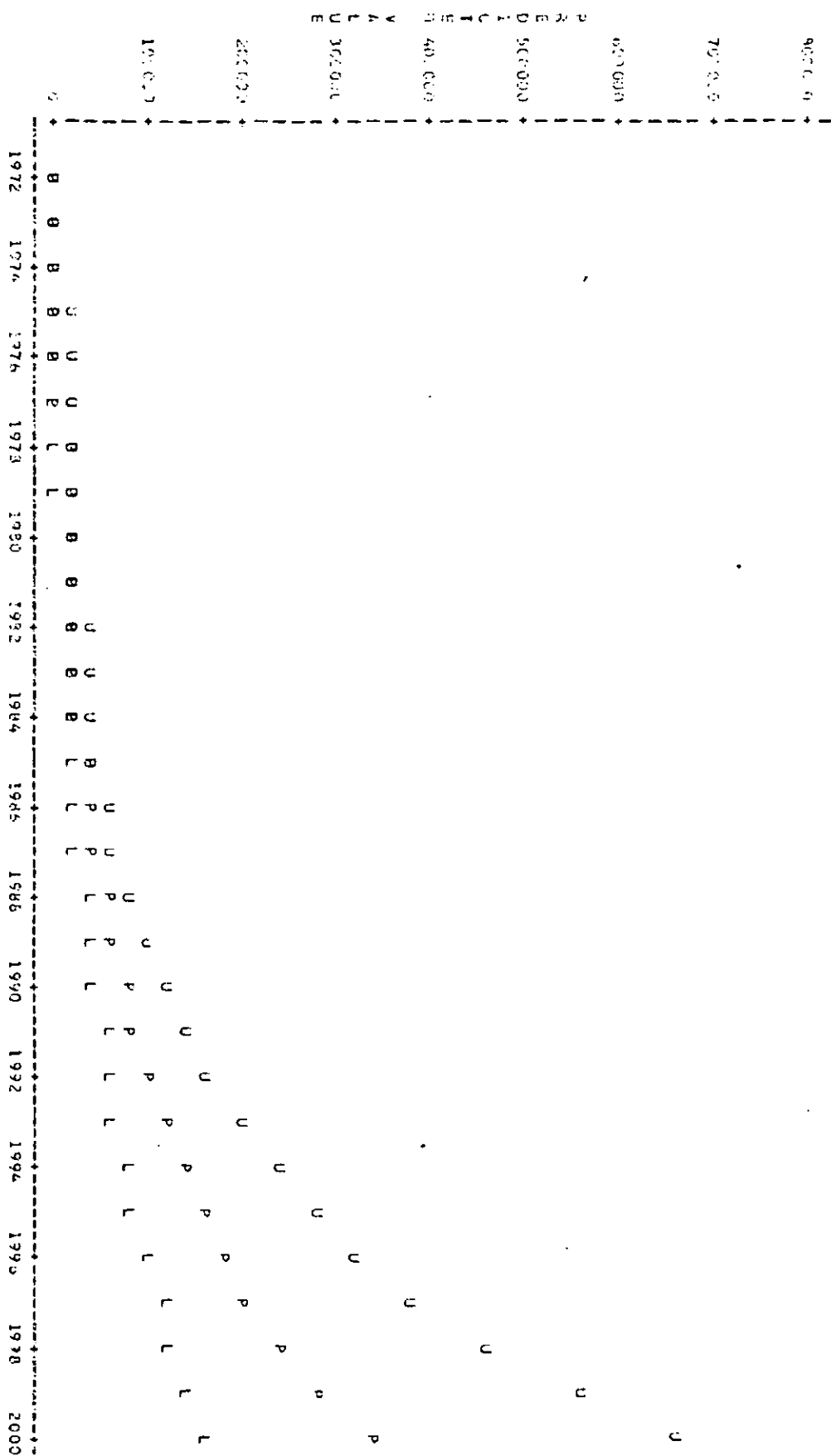


PROVINCIA DE LA PAPA  
 SERIES HISTORICAS DE CARGA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION=TOTAL PROVINCIAL

PLUT DE INDUSTANIT  
 PLUT DE PREBANIT  
 PLUT DE L95ANIT  
 PLUT DE USANIT

SYMBOL USED IS O  
 SYMBOL USED IS P  
 SYMBOL USED IS L  
 SYMBOL USED IS U



NOTE: 16 095 HAD MISSING VALUES

ANID

PROVINCIA DE LA PAZ  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=REALICO

AÑO	INDUST	PREO	L95	U95	RESID
1976	123	201.38	106.620	380.27	-63.39
1975	203	420.39	118.511	409.87	67.61
1974	306	241.20	131.364	442.07	64.80
1973	221	203.97	145.226	479.79	-42.97
1972	443	258.86	157.174	521.25	-45.88
1971	323	316.15	175.998	567.92	9.85
1970	409	340.00	192.899	620.61	63.00
1969	522	373.06	210.794	650.21	143.34
1968	379	414.43	229.609	747.73	-35.43
1967	506	453.52	249.513	824.33	52.49
1966	329	496.33	277.318	911.32	-167.32
1965	579	543.19	292.083	1010.16	135.31
1964	523	594.46	314.916	1122.51	-71.46
1963	.	650.60	336.534	1253.24	.
1962	.	711.99	363.293	1395.48	.
1961	.	779.23	399.039	1500.63	.
1960	.	852.75	415.935	1749.44	.
1959	.	936.23	443.912	1961.99	.
1958	.	1021.34	473.118	2204.94	.
1957	.	1117.75	503.589	2480.94	.
1956	.	1225.27	535.392	2794.93	.
1955	.	1335.74	568.504	3151.97	.
1954	.	1463.11	603.374	3558.00	.
1953	.	1603.41	639.575	4019.75	.
1952	.	1759.77	677.509	4544.91	.
1951	.	1929.41	717.197	5142.23	.
1950	.	2101.70	754.737	5821.68	.
1949	.	2300.39	802.232	6594.61	.
1948	.	2517.21	847.768	7473.98	.

OSP VARIABLE: INDUST

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.46006791	1.46006791	22.631	0.0006
ERROR	21	0.71977143	0.03427483		
TOTAL	22	2.17983934			
R-SQUARE					
ADJ R-SQ				0.6729	
DEP MEAN				0.6432	
C.V.				0.6432	

PARAMETER ESTIMATES

VARIABLE	OF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0: PARAMETER=0	PROB >  T
-INTERCEPT	1	-172.57571	37.5052310	-4.631	0.0008
ANID	1	0.0902331	0.01896120	4.757	0.0006

OBS	ID	ACTUAL	PREDICT VALUE	SID ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	SID ERR RESIDUAL
1	1972	4.9273	5.3052	0.1341	5.0101	5.6003	4.6695	5.9409	-0.3700	0.2176
2	1973	5.6650	5.3556	0.1134	5.1343	5.6550	4.7750	6.0153	0.2615	0.2267
3	1974	5.7230	5.4039	0.1139	5.2370	5.7142	4.8780	6.0933	0.2340	0.2338
4	1975	5.0982	5.5753	0.0909	5.3757	5.7700	4.9783	6.1734	-0.1777	0.2391
5	1976	5.4931	5.6667	0.0314	5.4890	5.9431	5.0736	6.2557	-0.1730	0.2426
6	1977	5.7869	5.7552	0.0734	5.5940	5.9179	5.1705	6.3420	0.0397	0.2450
7	1978	6.0137	5.8404	0.0779	5.6973	6.0026	5.2622	6.4377	0.1673	0.2495
8	1979	6.2577	5.9300	0.0734	5.7750	6.0933	5.3509	6.5224	0.3210	0.2450
9	1980	5.9375	6.0208	0.0804	5.8498	6.2039	5.4366	6.6173	-0.0893	0.2429
10	1981	6.2365	6.1177	0.0829	5.9109	6.3172	5.5195	6.7142	-0.1095	0.2391
11	1982	5.7901	6.2072	0.1139	6.0308	6.5591	5.3596	6.8149	-0.4112	0.2338
12	1983	6.5269	6.2978	0.1134	6.0308	6.5591	5.6770	6.9179	0.2232	0.2267
13	1984	6.2596	6.3877	0.1341	6.0926	6.6828	5.7526	7.0233	-0.1261	0.2178
14	1985	.	6.4779	0.1505	6.1466	6.8091	5.8246	7.1311	.	.
15	1986	.	6.5601	0.1675	6.1995	6.9366	5.8951	7.2410	.	.
16	1987	.	6.6583	0.1448	6.2515	7.0650	5.9037	7.3523	.	.
17	1988	.	6.7485	0.2025	6.3029	7.1941	6.0305	7.4665	.	.
18	1989	.	6.8387	0.2203	6.3533	7.3236	6.0756	7.5817	.	.
19	1990	.	6.9289	0.2383	6.4043	7.4535	6.1593	7.6984	.	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION-BEALICO

Obs	ID	ACTUAL	PREDICT VALUE	STU ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STU ERR RESIDUAL
20	1991	.	7.0191	0.3565	6.4545	7.5836	6.2219	7.8164	.	.
21	1992	.	7.1093	0.2743	6.5045	7.7141	6.2930	7.9356	.	.
22	1993	.	7.1995	0.2731	6.5543	7.8447	6.3432	8.0558	.	.
23	1994	.	7.2897	0.3115	6.6039	7.9754	6.4024	8.1770	.	.
24	1995	.	7.3799	0.3301	6.6534	8.1063	6.4509	8.2990	.	.
25	1996	.	7.4701	0.3486	6.7029	8.2374	6.5184	8.4218	.	.
26	1997	.	7.5603	0.3672	6.7521	8.3685	6.5754	8.5452	.	.
27	1998	.	7.6505	0.3858	6.8013	8.4997	6.6317	8.6693	.	.
28	1999	.	7.7407	0.4045	6.8505	8.6309	6.6874	8.7940	.	.
29	2000	.	7.8309	0.4231	6.8996	8.7622	6.7426	8.9192	.	.

Obs 10 STUDENT RESIDUAL -2 -1 0 1 2 COOK'S D

1	1972	-1.7350	***	0.576
2	1973	1.1799	**	0.190
3	1974	1.0179	**	0.102
4	1975	-0.7431	*	0.040
5	1976	-0.7123	*	0.038
6	1977	0.1252	*	0.001
7	1978	0.5387	*	0.019
8	1979	1.3102	**	0.077
9	1980	-0.3676	*	0.007
10	1981	0.4580	*	0.015
11	1982	-1.7597	***	0.305
12	1983	0.9342	*	0.132
13	1984	-0.5879	*	0.005
14	1985	.	.	.
15	1986	.	.	.
16	1987	.	.	.
17	1988	.	.	.
18	1989	.	.	.
19	1990	.	.	.
20	1991	.	.	.
21	1992	.	.	.
22	1993	.	.	.
23	1994	.	.	.
24	1995	.	.	.
25	1996	.	.	.
26	1997	.	.	.
27	1998	.	.	.
28	1999	.	.	.
29	2000	.	.	.

SUM OF RESIDUALS -3.32401E-13  
SUM OF SQUARED RESIDUALS 6.7197736  
PREDICTED RESIDUALS (PRESS) 1.003362

DURBIN-WATSON D 2.333  
(FOR NUMBER OF OBS.) 13

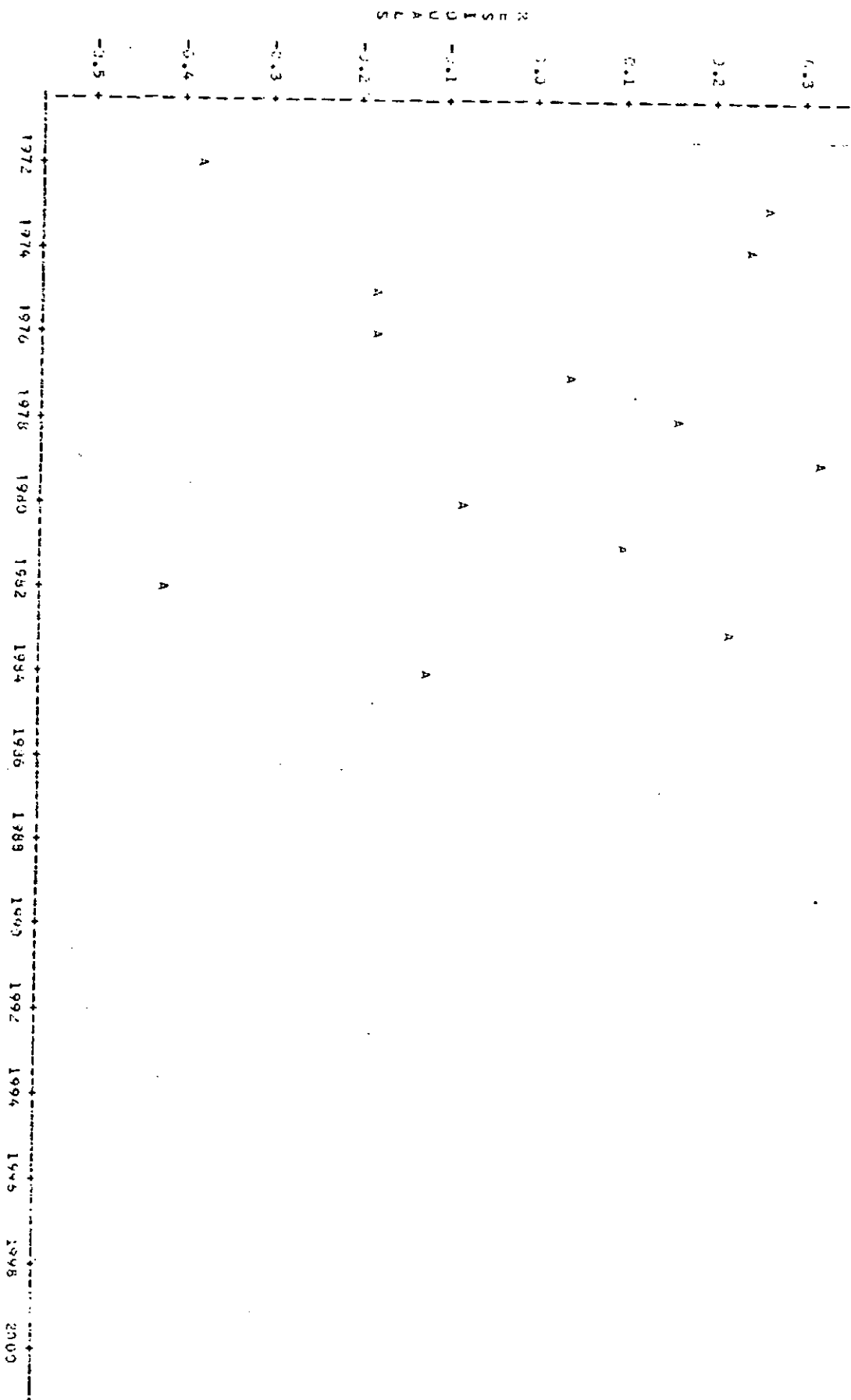
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PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL  
ESTACION=REALICO

PROVINCIA DE LA PAZ  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION=REALICO

PLOT OF RESIDUAVIU LEGEND: A = 1 OBS, B = 2 OBS, ETC.



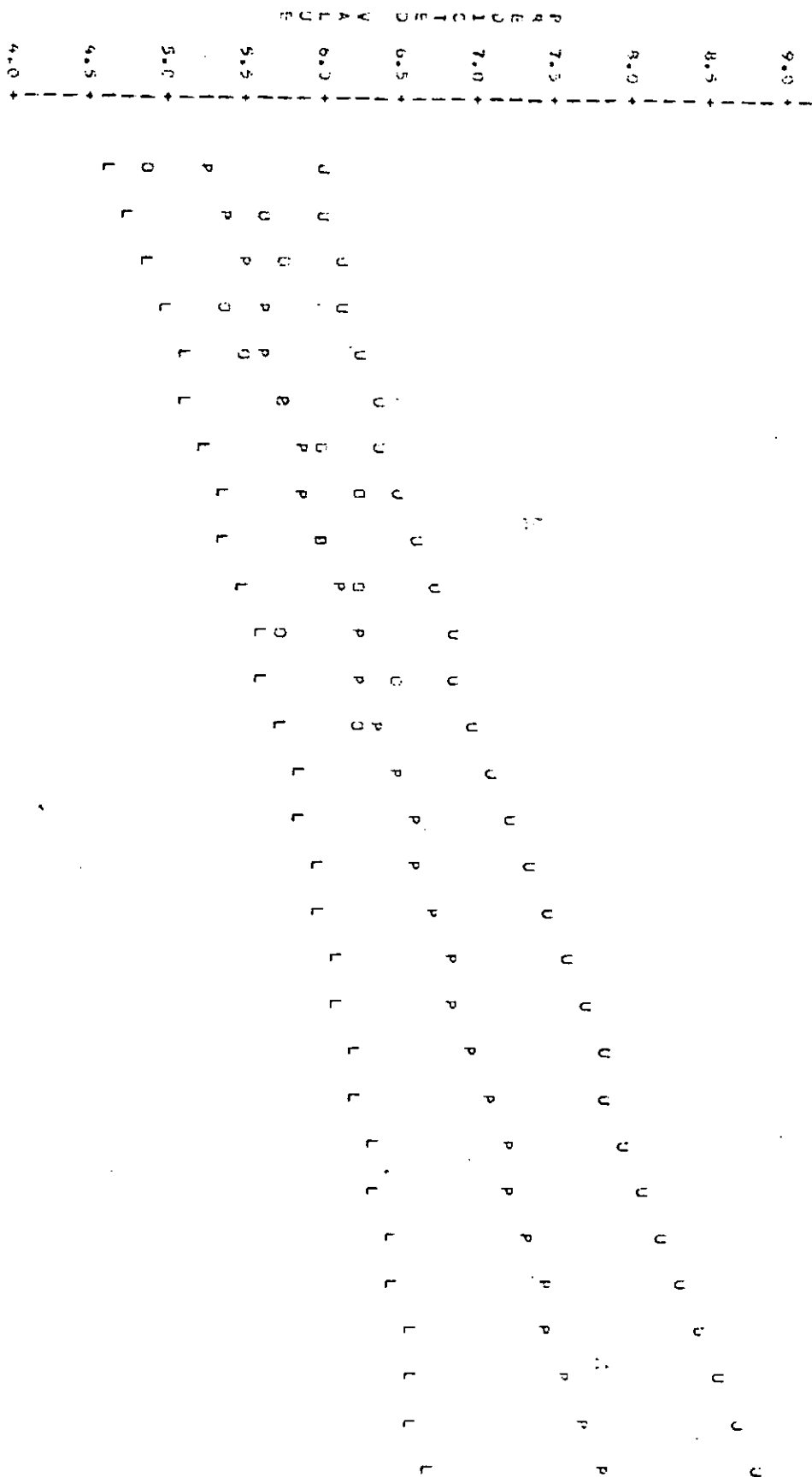
NOTE: 16 OBS HAD MISSING VALUES

PROVINCIA DE LA PAPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=REALICO

PLOT OF INDUSTRIAL  
PLOT OF PRESTANIO  
PLOT OF LOSTANIO  
PLOT OF OYSAVIO

SYMBOL USED IS O  
SYMBOL USED IS P  
SYMBOL USED IS L  
SYMBOL USED IS U



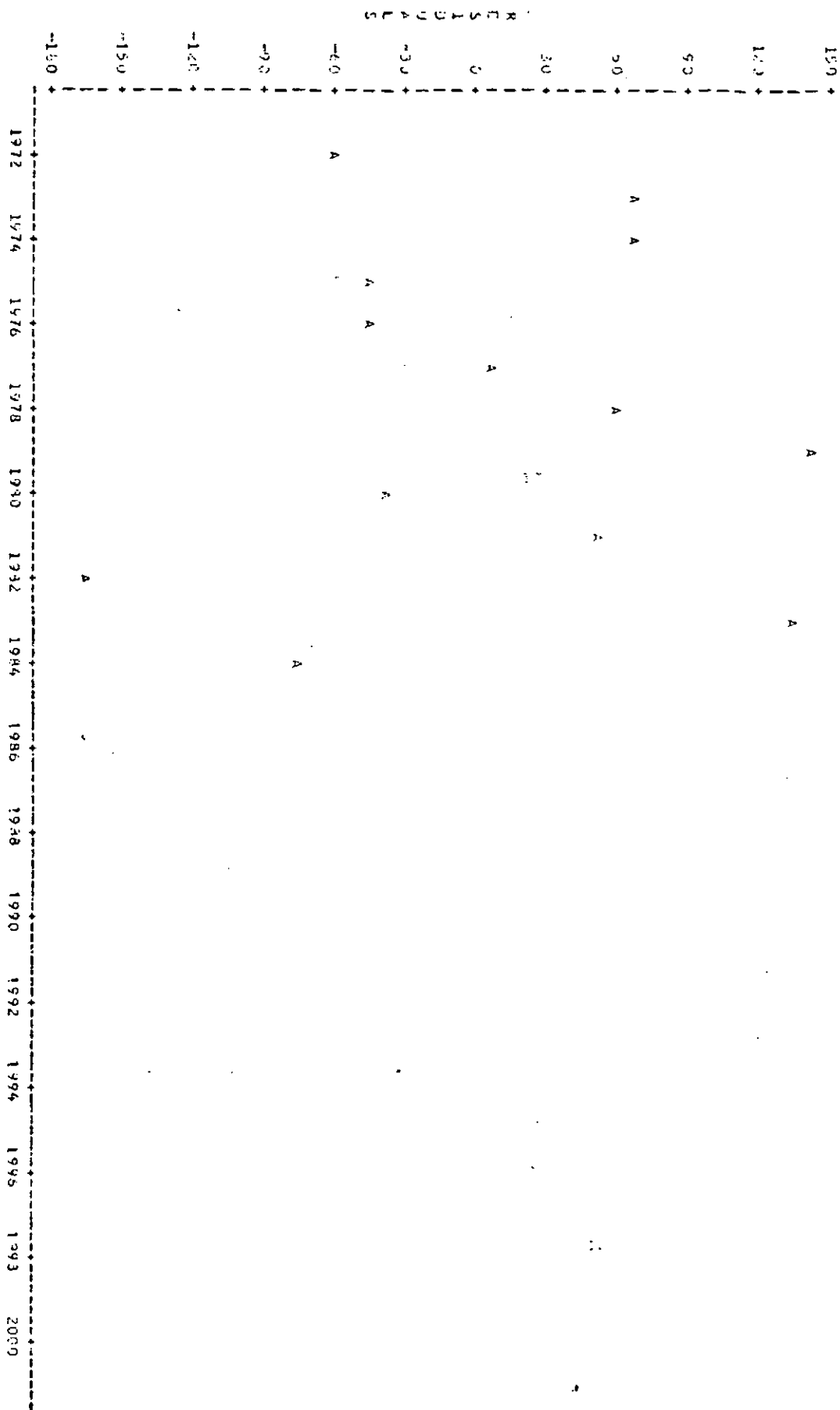
NOTE: 16 OBS HAD MISSING VALUES

AVIO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ENTRADA=REALICO

PLOT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



NOTE: 16 OBS HAD MISSING VALUES

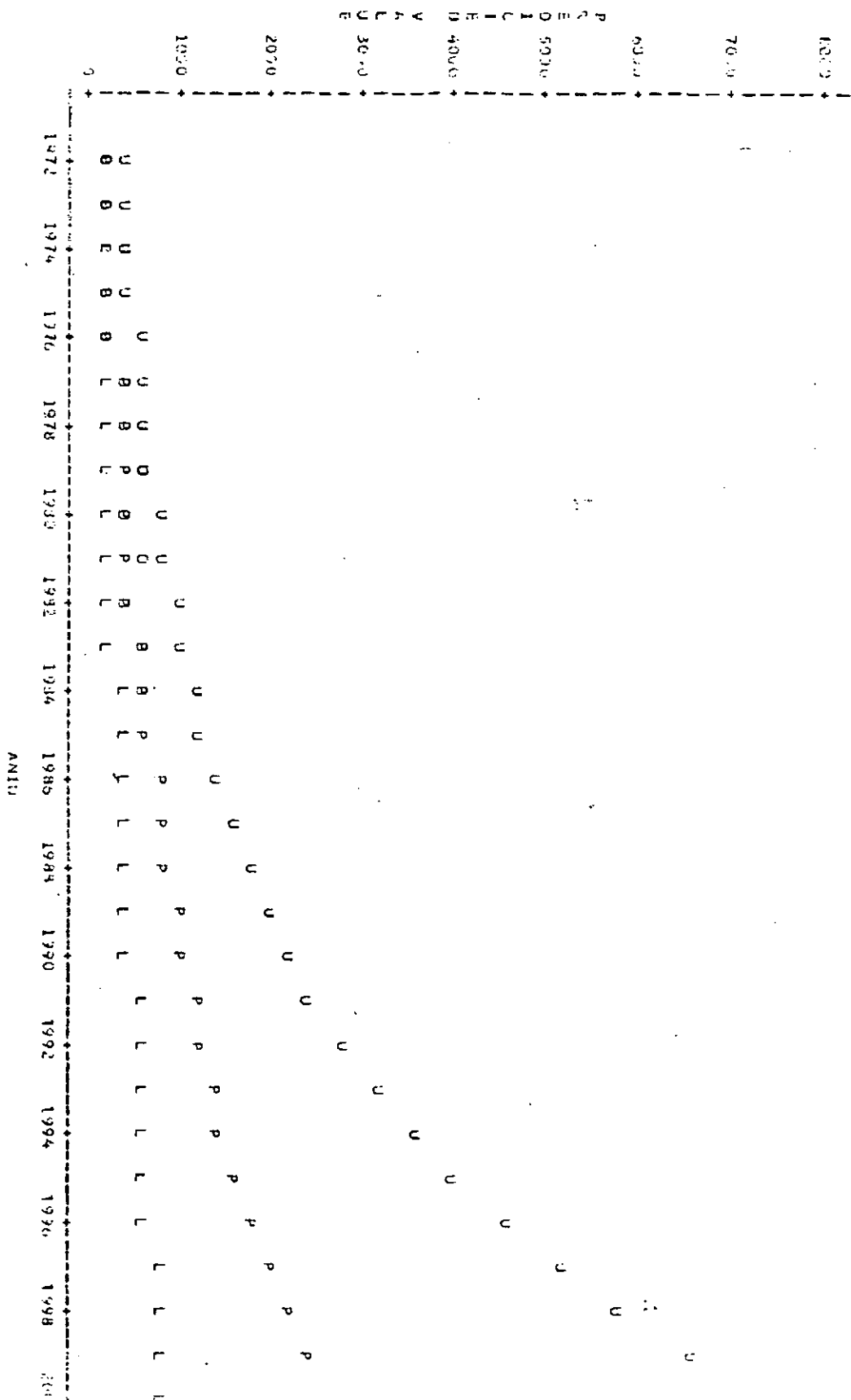
ANIO



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=REALICO

PLOT OF INDUST\*ANIO SYMBOL USED IS U  
PLOT OF PRED\*ANIO SYMBOL USED IS P  
PLOT OF U95\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPERIMENTAL  
SECTOR INDUSTRIAL

ESTACION-GRAL. PICO

AÑO	INDUST	PRED	195	095	RESID
1972	2334	2297	1270.5	3461	237.1
1973	2366	2697	1501.5	4006	-119.6
1974	2612	2878	1792.9	4046	-266.1
1975	2763	3572	2135.5	5403	-627.0
1976	3498	3951	2491.2	6290	-692.5
1977	4197	4026	2916.9	7344	170.7
1978	5117	5822	3421.7	8594	304.6
1979	6439	6353	4003.7	10080	2030.2
1980	5370	7493	4574.3	11951	2121.2
1981	9763	4720	5446.7	13965	1035.2
1982	12436	17210	6328.2	16492	2240.1
1983	12251	11869	7339.3	19517	-1717.7
1984	9908	14022	8496.4	23142	-4114.3
1985	.	16423	9317.3	27491	.
1986	.	19247	11324.5	32711	.
1987	.	22349	13943.0	38944	.
1988	.	29418	15001.3	46523	.
1989	.	37951	17231.6	55592	.
1990	.	36261	19771.4	66504	.
1991	.	42603	22661.3	79640	.
1992	.	49772	25950.8	95452	.
1993	.	53311	29692.5	114514	.
1994	.	63316	33943.3	137477	.
1995	.	80038	38787.9	165155	.
1996	.	93770	44290.8	198525	.
1997	.	103959	50540.3	253768	.
1998	.	123738	57658.2	287310	.
1999	.	157791	65740.9	345873	.
2000	.	176664	74926.6	416541	.

DEP VARIABLE: INDUST

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	4.5660224	4.5660224	112.272	0.0001
ERROR	11	0.44712313	0.04064756		
C TOTAL	12	5.01314557			
R-SQ MSE					
		0.2016124	R-SQUARE	0.9109	
		EXP MEAN	EXP MEAN	0.9027	
		C.V.	ADJ R-SQ		
		1.344793			

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEPT	1	-338.41309	29.56028364	-10.305	0.0001
ANID	1	0.15335005	0.01494450	10.596	0.0001

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	7.7553	7.6482	0.1057	7.4156	7.8808	7.1472	8.1492	0.1071	0.1717
2	1973	7.7605	7.8060	0.0933	7.6011	8.0120	7.3176	8.2955	-0.0461	0.1767
3	1974	7.8679	7.9649	0.0819	7.7847	8.1451	7.4860	8.4439	-0.0970	0.1542
4	1975	7.9175	8.1231	0.0717	7.9655	8.2810	7.6523	8.5942	-0.2057	0.1934
5	1976	8.0309	8.2816	0.0634	8.1420	8.4212	7.8104	8.7402	-0.1927	0.1914
6	1977	8.4762	8.4400	0.0579	8.3120	8.5673	7.9793	8.9016	0.0367	0.1931
7	1978	8.6520	8.5983	0.0539	8.4752	8.8400	7.9793	9.0583	0.0537	0.1931
8	1979	9.0406	8.7567	0.0579	8.6293	9.7214	8.2950	9.2183	0.2845	0.1921
9	1980	9.1664	8.9150	0.0534	8.7754	9.0546	8.4498	9.3802	0.2514	0.1914
10	1981	9.1655	9.0734	0.0717	8.9156	9.2311	8.6024	9.5443	0.1122	0.1934
11	1982	9.4300	9.2317	0.0619	9.0515	9.4119	8.7528	9.7106	0.1983	0.1842
12	1983	9.2351	9.3901	0.0933	9.1846	9.5955	8.9011	9.8790	-0.1549	0.1767
13	1984	9.2911	9.5684	0.1057	9.3159	9.7810	9.0474	10.0494	-0.2673	0.1717
14	1985	.	9.7089	0.1186	9.4457	9.9673	9.1919	10.2215	.	.
15	1986	.	9.8651	0.1020	9.5746	10.1556	9.3347	10.3955	.	.
16	1987	.	10.0235	0.1457	9.7099	10.3441	9.4760	10.5709	.	.
17	1988	.	10.1610	0.1390	9.8306	10.5330	9.6159	10.7477	.	.
18	1989	.	10.3402	0.1736	9.9590	10.7223	9.7545	10.9235	.	.
19	1990	.	10.4935	0.1673	10.0950	10.9120	9.8920	11.1057	.	.

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=SNAL. PICO

Y35	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	10.6567	0.2022	10.2119	11.1018	10.0284	11.2353	.	.
21	1992	.	10.4154	0.2160	10.3385	11.2919	10.1640	11.4664	.	.
22	1993	.	10.9730	0.2310	10.4650	11.4821	10.2996	11.6485	.	.
23	1994	.	11.1319	0.2455	10.5914	11.6724	10.4326	11.8312	.	.
24	1995	.	11.2903	0.2601	10.7177	11.8623	10.5659	12.0146	.	.
25	1996	.	11.4490	0.2744	10.8439	12.0533	10.6985	12.1987	.	.
26	1997	.	11.6070	0.2894	10.9700	12.2439	10.8307	12.3832	.	.
27	1998	.	11.7653	0.3041	11.0960	12.4346	10.9623	12.5683	.	.
28	1999	.	11.9237	0.3186	11.2220	12.6253	11.0935	12.7536	.	.
29	2000	.	12.0820	0.3335	11.3480	12.8160	11.2243	12.9397	.	.
COS	10	STUDENT RESIDUAL	-2 -1 0 1 2	COOK'S D						
1	1972	0.0240		0.074						
2	1973	-0.2579		0.029						
3	1974	-0.5245		0.027						
4	1975	-1.0917		0.086						
5	1976	-1.0071		0.056						
6	1977	0.1375		0.002						
7	1978	0.2021		0.003						
8	1979	1.4704		0.097						
9	1980	1.3135		0.095						
10	1981	0.5953		0.026						
11	1982	1.0767		0.114						
12	1983	-1.9657		0.102						
13	1984	-2.0227		0.775						
14	1985	.		.						
15	1986	.		.						
16	1987	.		.						
17	1988	.		.						
18	1989	.		.						
19	1990	.		.						
20	1991	.		.						
21	1992	.		.						
22	1993	.		.						
23	1994	.		.						
24	1995	.		.						
25	1996	.		.						
26	1997	.		.						
27	1998	.		.						
28	1999	.		.						
29	2000	.		.						

SUM OF RESIDUALS -1.25306E-12  
SUM OF SQUARED RESIDUALS 0.4471231  
PREDICTED RESIDU AS (PRESS) 0.6596424

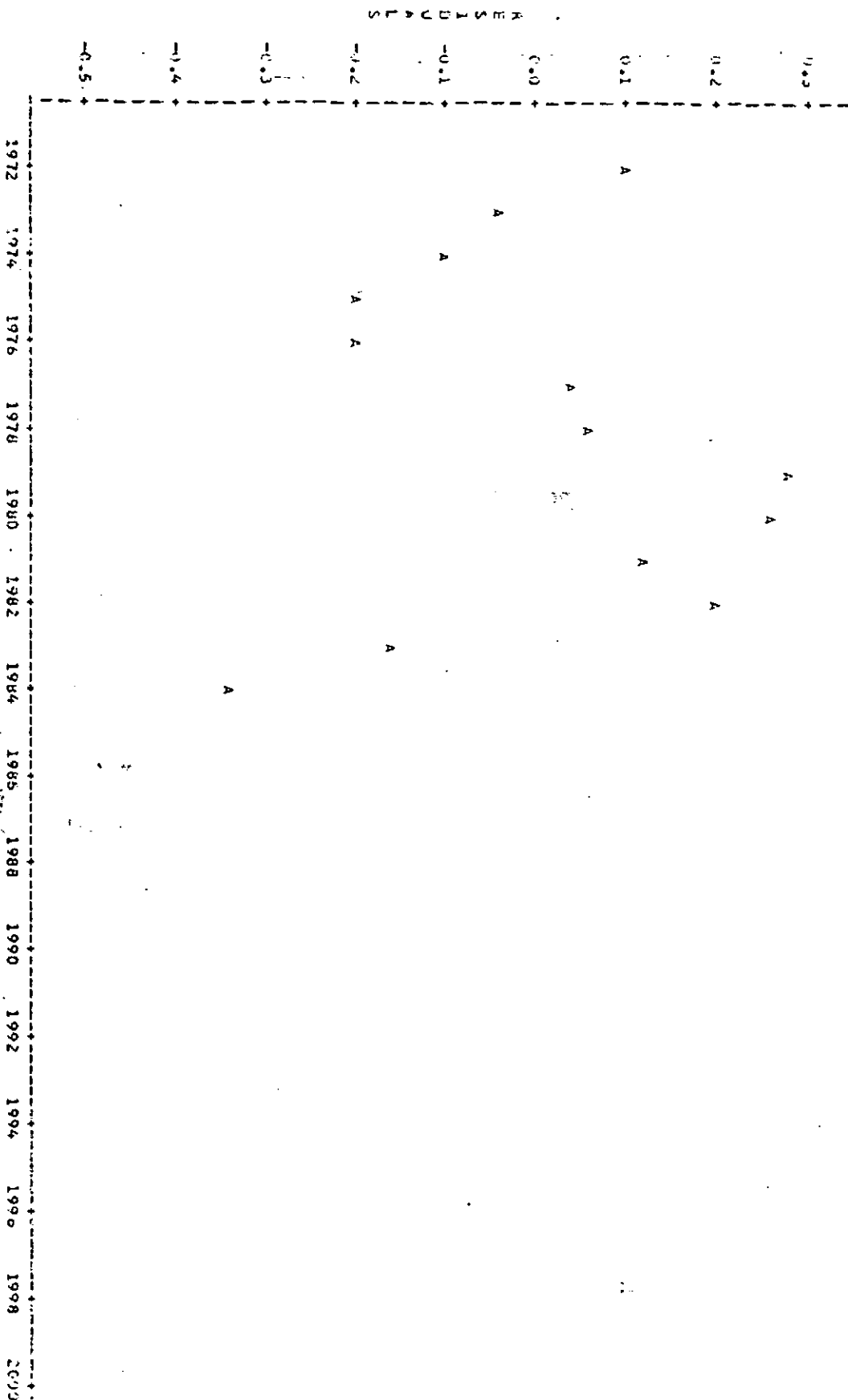
DURBIN-WATSON D 0.765  
(FOR NUMBER OF OBS.) 12

1ST ORDER AUTOCORRELATION 0.440

PROVINCIA DE LA PAMPA  
SECRETARIA DE INDUSTRIA Y ENERGIA (MIM)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL  
ESTACIONESAL. PICO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL  
 ESTACION=GRAL. PICO

PLOT OF RESIDU+ANIO LEGEND: A = 1 035, B = 2 005, ETC.



NOTE:

16 OBS HAD MISSING VALUES

ESTABLISH=3RAL. PICO

SYMBOL	USED	IS	O
SYMBOL	USED	IS	P
SYMBOL	USED	IS	L
SYMBOL	USED	IS	U

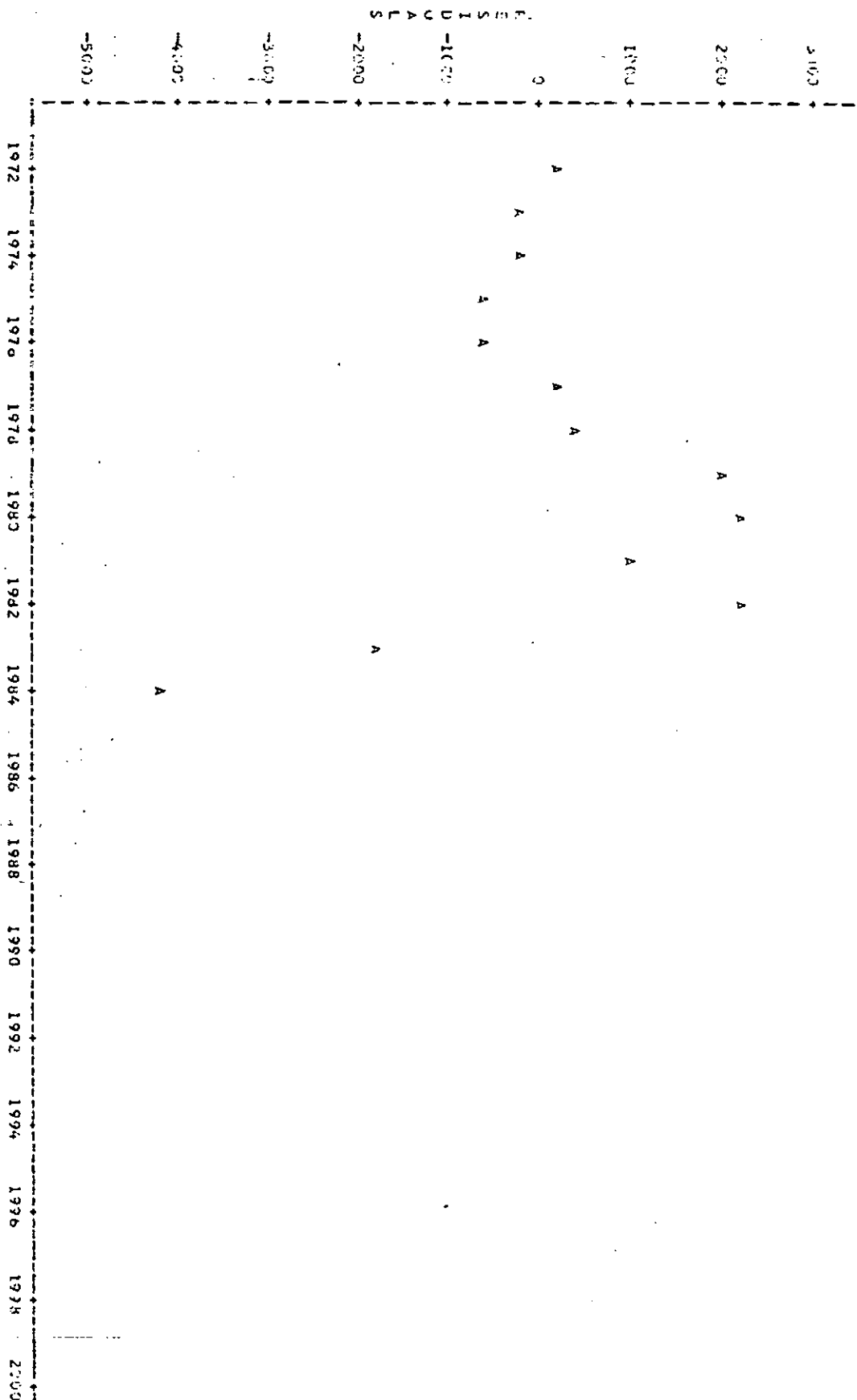
**ANIO**

NOTE: 16 DBS HAD MISSING VALUES

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=GRAL. PICO

PLUOT OF RESID\*ANIO LEGEND: A = 1 OBS, 0 = 2 OBS, ETC.



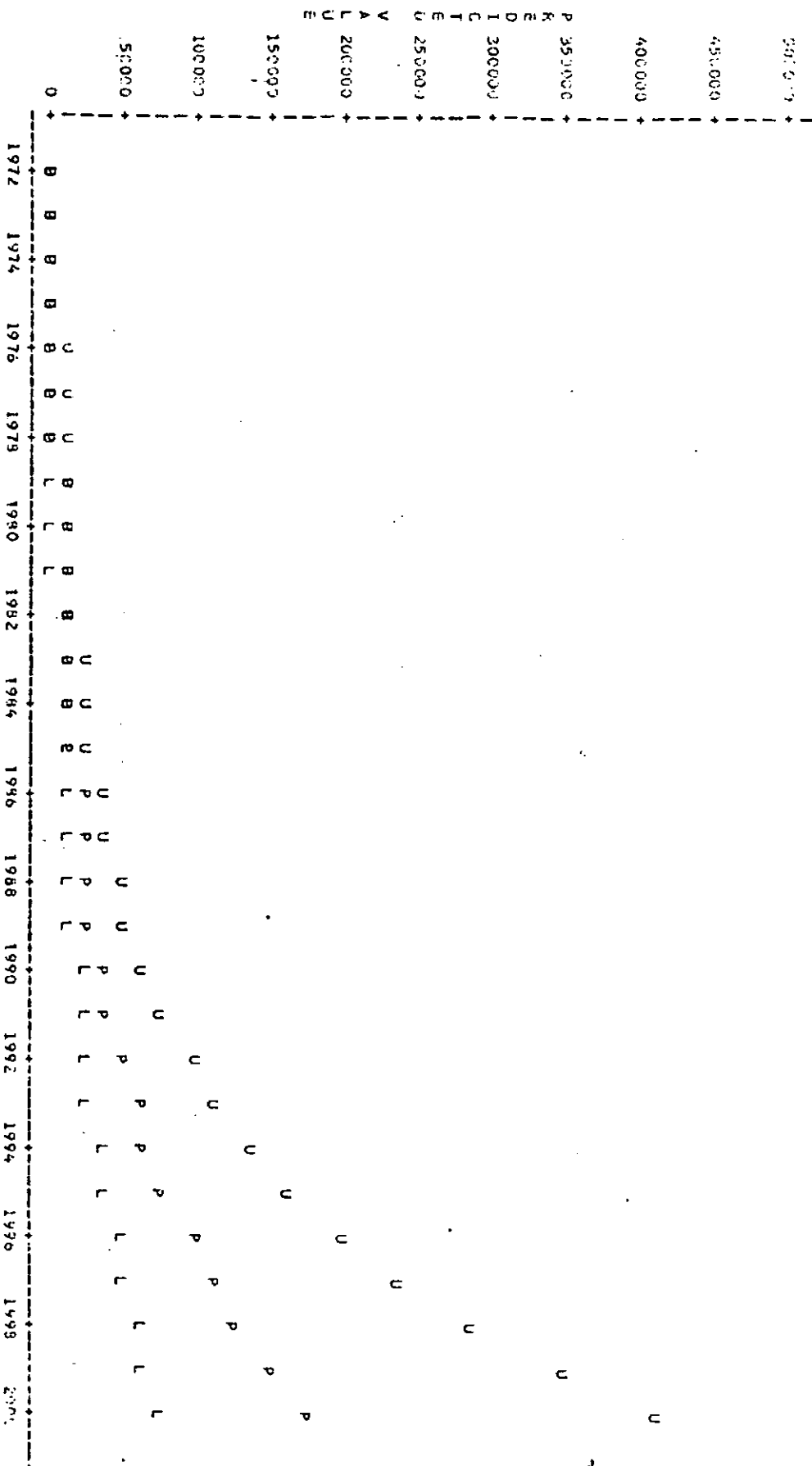
NOTE: 16 OBS HAD MISSING VALUES



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=GRAL. PICO

PLUT OF INDUST\*ANIO SYMBOL USED IS O  
PLUT OF PREO\*ANIO SYMBOL USED IS P  
PLUT OF LOG\*ANIO SYMBOL USED IS L  
PLUT OF U93\*ANIO SYMBOL USED IS U



NOTE: IG 035 HAD MISSING VALUES

ANIO

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=SANTA ROSA

ANIO	INDUST	PRED	L95	U95	RESID
1972	1709	1711.4	973.33	3009.0	57.6
1973	1696	1879.6	1083.60	3260.4	-183.6
1974	1808	2064.4	1203.70	3540.7	-256.4
1975	2298	2267.4	1333.98	3654.0	30.6
1976	2506	2490.4	1474.71	4205.5	15.6
1977	2413	2735.2	1626.11	4600.8	177.8
1978	3439	3004.1	1788.35	5046.5	434.9
1979	3681	3299.5	1961.59	5550.0	581.5
1980	5314	3663.9	2145.98	6119.8	1690.1
1981	3200	3930.2	2341.66	6765.4	-760.2
1982	2659	4371.6	2548.92	7497.6	-1712.6
1983	4337	4811.4	2768.00	8328.6	-264.4
1984	6515	5273.5	2999.26	9172.2	1241.5
1985	.	5792.0	3243.18	10343.9	.
1986	.	6361.5	3500.30	11561.4	.
1987	.	6937.0	3771.26	12944.6	.
1988	.	7173.9	4056.81	14516.1	.
1989	.	8423.4	4357.75	16301.7	.
1990	.	9257.1	4674.99	18330.4	.
1991	.	10167.3	5009.52	20635.6	.
1992	.	11167.0	5366.39	23294.9	.
1993	.	12265.0	5734.75	26231.1	.
1994	.	13470.9	6127.80	29613.3	.
1995	.	14795.3	6542.64	33456.8	.
1996	.	16250.1	6981.24	37824.8	.
1997	.	17847.8	7444.45	42785.4	.
1998	.	19002.6	7934.01	48432.4	.
1999	.	21530.0	8451.53	54046.9	.
2000	.	23646.9	8998.75	62139.1	.

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO LINEAL  
SECTOR INDUSTRIAL

ESTACION=SANTA ROSA

DEP VARIABLE: INDOCI

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.50075270	1.50075270	31.039	0.0002
ERROR	11	0.50720633	0.04597148		
C TOTAL	12	2.10095903			

R2=0.227093  
DEP MEAN 6.007748  
C.V. 2.935923  
R-SQUARE 0.7333  
ADJ R-SQ 0.7146

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HC: PARAMETER=0	PROB >  T
INTERCEP	1	-177.49602	33.22631613	-5.331	0.0002
ANIO	1	0.09370350	0.01683329	5.571	0.0002

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	7.4782	7.4455	0.1190	7.1831	7.7070	6.8807	8.0094	0.0331	0.1934
2	1973	7.4368	7.5389	0.1051	7.3075	7.7702	6.9880	8.0896	-0.1028	0.2013
3	1974	7.5000	7.6326	0.0922	7.4297	7.8355	7.0932	8.1721	-0.1326	0.2075
4	1975	7.7393	7.7254	0.0907	7.5497	7.9041	7.1959	8.2509	0.0134	0.2125
5	1976	7.8264	7.8202	0.0714	7.6630	7.9774	7.1952	8.3441	0.0156	0.2156
6	1977	7.9769	7.9140	0.0652	7.7795	9.0575	7.3939	8.4340	0.0630	0.2175
7	1978	8.1429	8.0377	0.0630	7.8691	8.1464	7.4890	8.5264	0.1532	0.2182
8	1979	8.2639	8.1015	0.0652	7.9560	8.2450	7.5816	8.6216	0.1523	0.2185
9	1980	8.5761	8.1953	0.0714	8.0381	8.3525	7.6713	8.7193	0.3828	0.2150
10	1981	8.7709	8.2891	0.0907	8.1114	8.4658	7.7586	8.8196	0.2182	0.2123
11	1982	7.9857	7.9857	0.0922	7.9800	8.5658	7.9434	8.9223	-0.2182	0.2075
12	1983	8.4200	8.4200	0.1051	8.2453	8.7080	7.9259	9.0275	-0.4974	0.2013
13	1984	8.5764	8.5764	0.1190	8.3085	8.8324	8.0061	9.1348	-0.0766	0.1934
14	1985	8.7819	8.6642	0.1336	8.3702	8.9583	8.0843	9.2442	0.2114	
15	1986		8.7580	0.1467	8.4308	9.0852	8.1606	9.3554		
16	1987		8.8519	0.1641	8.4967	9.2129	8.2352	9.4684		
17	1988		8.9456	0.1797	8.5500	9.3412	8.3062	9.5830		
18	1989		9.0394	0.1956	8.6099	9.4698	8.3797	9.6990		
19	1990		9.1332	0.2110	8.6674	9.5989	8.4500	9.8103		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO ECONOMICAL  
SECTOR INDUSTRIAL

ESTACION=SANTA ROSA

OBS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1981	.	9.2267	0.2277	8.7257	9.7201	8.5191	9.9341	.	.
21	1982	.	9.3207	0.2739	8.7038	9.8016	8.5072	10.0543	.	.
22	1983	.	9.4145	0.2602	8.8417	9.9873	8.6543	10.1747	.	.
23	1984	.	9.5083	0.2765	8.9545	10.1171	8.7206	10.2960	.	.
24	1985	.	9.6021	0.2930	9.9571	10.2470	8.7861	10.4185	.	.
25	1986	.	9.6959	0.3095	9.0147	10.3710	8.8510	10.5407	.	.
26	1987	.	9.7896	0.3260	9.0722	10.5071	8.9152	10.6640	.	.
27	1988	.	9.8834	0.3425	9.1395	10.5373	8.9789	10.7879	.	.
28	1989	.	9.9772	0.3591	9.1869	10.7675	9.0421	10.9122	.	.
29	1990	.	10.0710	0.3757	9.2462	10.8978	9.1048	11.0371	.	.

UNB      LU      STUENT  
RESIDUAL      -2-1-0 1 2      CODK'S  
D

1	1972	0.1713			0.006	
2	1973	-0.5107			0.006	
3	1974	-0.6391			0.040	
4	1975	0.0531			0.000	
5	1976	0.0290			0.000	
6	1977	0.4545			0.004	
7	1978	0.6196			0.016	
8	1979	0.7402			0.025	
9	1980	1.7757			0.173	
10	1981	-1.0250			0.070	
11	1982	-2.3956			0.566	
12	1983	-5.2814			0.011	
13	1984	1.0931			0.226	
14	1985	.			.	
15	1986	.			.	
16	1987	.			.	
17	1988	.			.	
18	1989	.			.	
19	1990	.			.	
20	1991	.			.	
21	1992	.			.	
22	1993	.			.	
23	1994	.			.	
24	1995	.			.	
25	1996	.			.	
26	1997	.			.	
27	1998	.			.	
28	1999	.			.	
29	2000	.			.	

SUM OF RESIDUALS      -3.20108E-13  
SUM OF SQUARED RESIDUALS      0.5672863  
PREDICTED RESIDU SS (PRESS)      0.7899453

DURBIN-WATSON D      1.416  
(FOR NUMBER OF OBS.)      13

INT 9208P AUTOCORRELATION 6.151

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL  
ESTACIONES-SANTA ROSA

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=SANTA ROSA

PLOT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



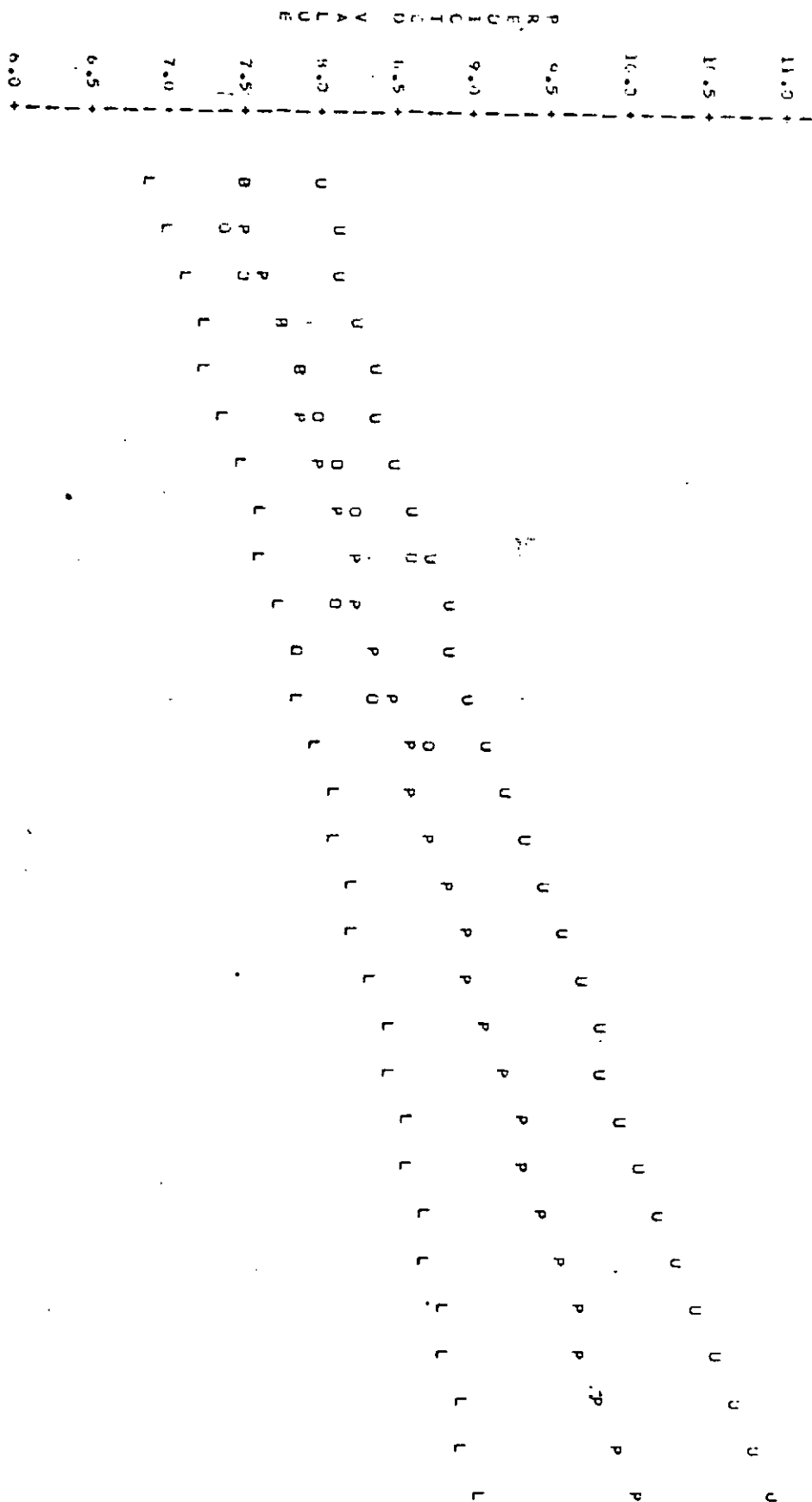
NOTE: 16 OBS AND MISSING VALUES

AÑO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=SANTA ROSA

PLOT OF INDUST\*ANIO SYMBOL USED IS O  
PLOT OF PRED\*ANIO SYMBOL USED IS P  
PLOT OF LY5\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U

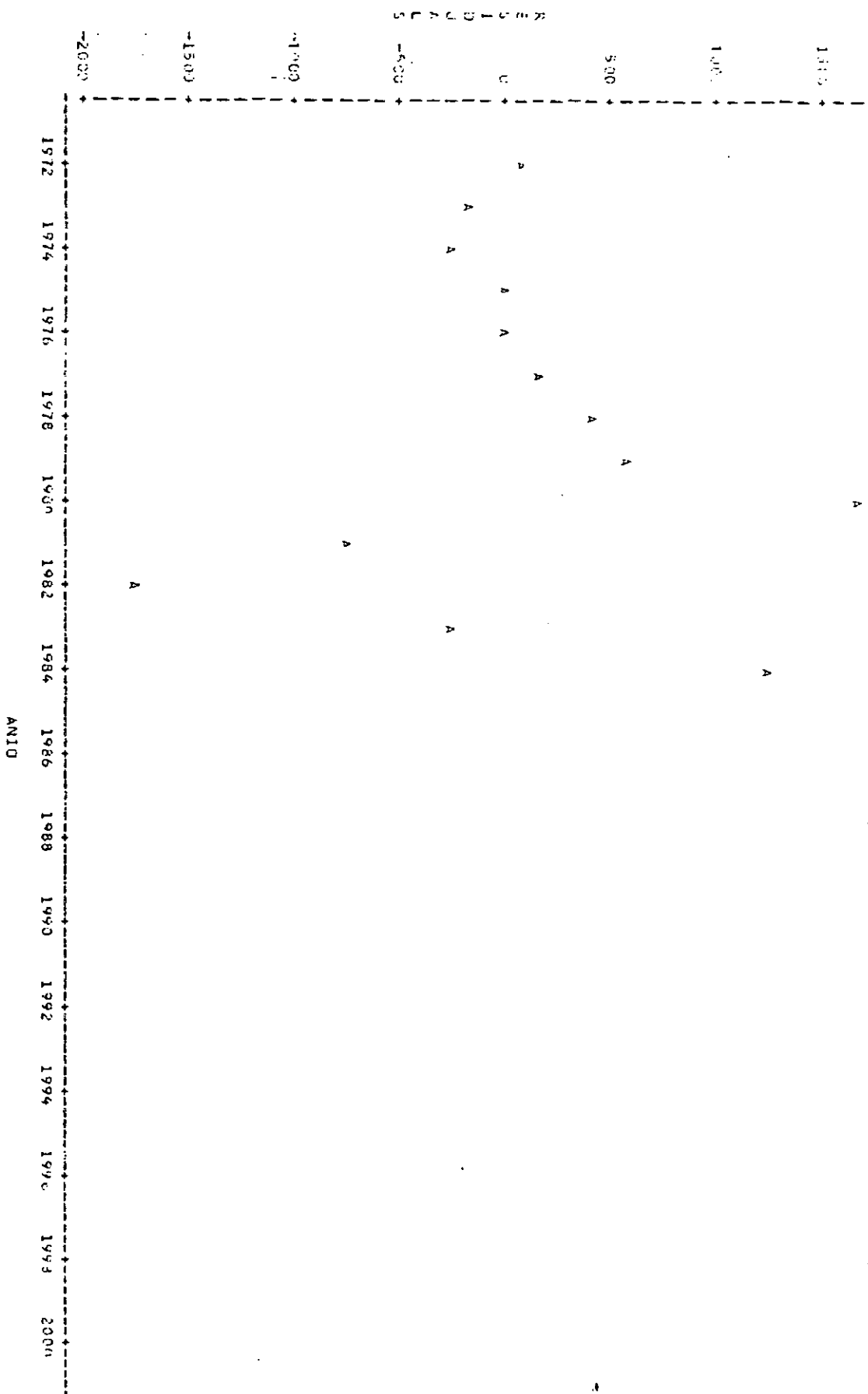


NOTE: 16 OBS HAD MISSING VALUES

PROVINCIA DE LA PAZ  
SERIES HISTORICAS DE ENERGIA (MMH)  
MUSEO EXPERIMENTAL  
SECTOR INDUSTRIAL

ESTACION=SANTA ROSA

PLUG OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



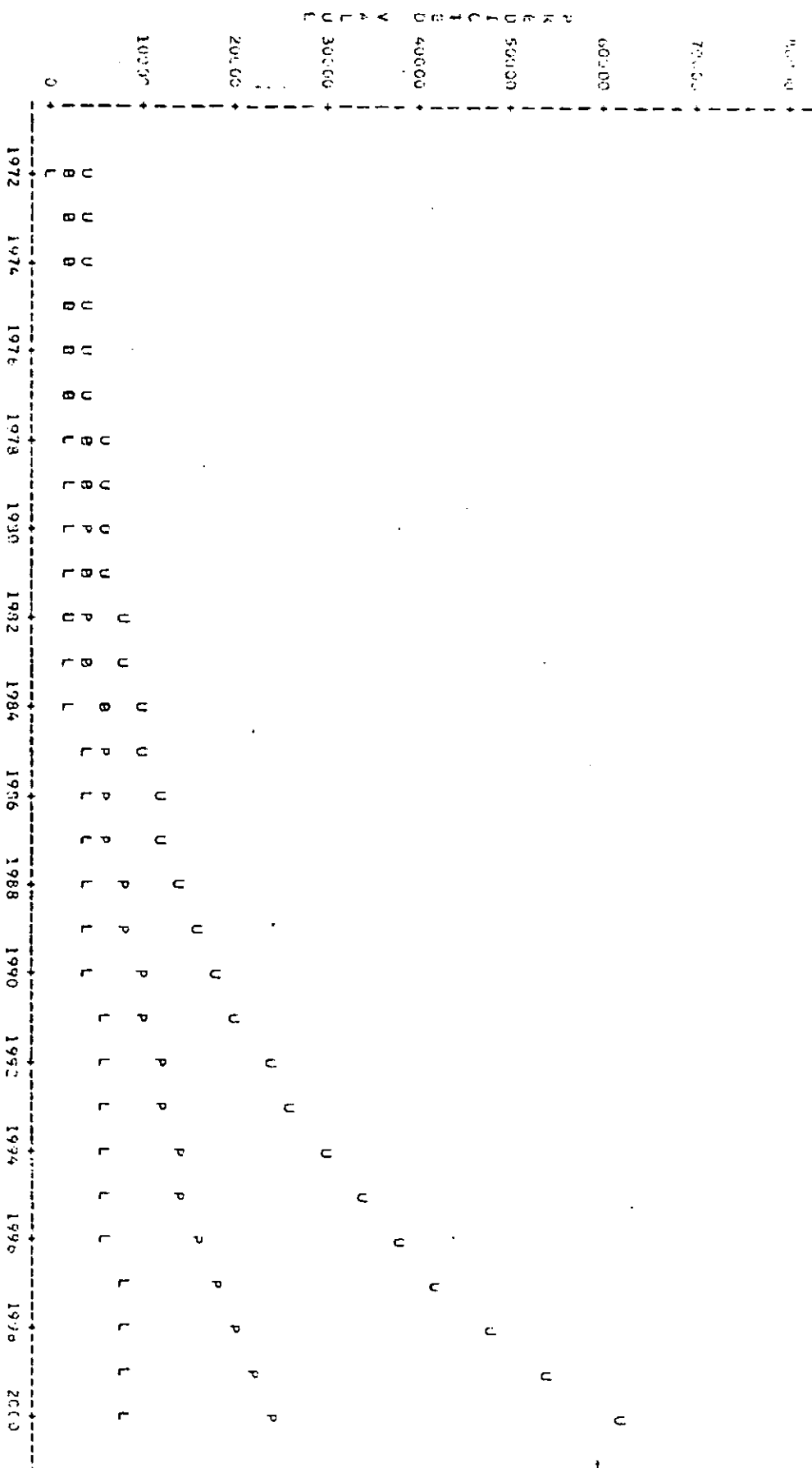
NOTE: 16 OBS HAD MISSING VALUES



PROVINCIA DE LA PAMPA  
 COMPLEJO HISTORICO DE ENFACIA (MARI)  
 AREA INDUSTRIAL  
 SECTOR INDUSTRIAL

ESTACION=SANTA ROSA

PLUT OF INDUSTRIAL SYMOL USED IS U  
 PLUT OF PREDAMIO SYMOL USED IS P  
 PLUT OF EXPEDIENTE SYMOL USED IS L  
 PLUT OF URGENTIA SYMOL USED IS U



NOTE: 16 OBS HAD MISSING VALUES

ANNU

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPUYENCIAL  
SECTOR INDUSTRIAL

ESTIMACION=GRAL ACMA

ANIO	INDUST	PRED	L95	U95	RESID
1972	99	90	0.50	1296	-9.4
1973	47	117	7.00	1503	-20.5
1974	103	153	14.34	1590	-44.7
1975	87	198	16.72	2356	-111.5
1976	40	50	2.40	2971	-210.0
1977	1614	335	29.80	3791	1478.7
1978	1336	436	38.70	4809	2600.1
1979	1745	547	50.14	6405	1179.4
1980	1354	736	63.96	8431	597.5
1981	961	957	80.65	11364	3.7
1982	193	1244	100.53	15403	-351.4
1983	1018	1018	120.92	21108	-599.5
1984	502	2132	151.26	29226	-1270.5
1985	.	2733	184.02	40935	.
1986	.	3562	219.62	57619	.
1987	.	4618	260.29	81921	.
1988	.	6002	307.36	117231	.
1989	.	7302	359.04	169170	.
1990	.	10142	419.16	242395	.
1991	.	13163	485.03	357853	.
1992	.	17136	559.91	5244.1	.
1993	.	22174	647.73	771896	.
1994	.	28293	734.33	1141593	.
1995	.	37634	831.36	1691376	.
1996	.	49919	951.10	2515102	.
1997	.	63537	1077.17	3753430	.
1998	.	82654	1216.31	5614456	.
1999	.	107439	1371.30	9417231	.
2000	.	139085	1542.20	12645808	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=GRAL ACHA

TOP VARIABLES: INGRES

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	12.51727339	12.51727339	11.159	0.0069
ERROR	11	12.33976984	1.12173362		
C TOTAL	12	24.85634323			

ROOT MSE 1.059119 R-SQUARE 0.5036  
DEP MEAN 5.07577 ADJ R-SQ 0.4585  
C.V. 17.42724

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB> T
INTERCEP	1	-512.05752	155.28749	-3.301	0.0071
ANIO	1	0.26225227	0.07850714	3.340	0.0066

ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1912	4.5039	0.5551	3.2820	5.7257	1.8719	7.1358	-0.04054	0.9020
2	1973	4.5747	0.4903	3.0870	5.8452	2.1974	7.3349	-0.1914	0.9338
3	1914	4.6121	0.4300	4.0819	5.9748	2.5125	7.5443	-0.3462	0.9679
4	1975	4.4654	0.3765	4.4614	5.1193	2.8166	7.7647	-0.0247	0.9889
5	1970	3.6489	0.3331	4.3198	6.2860	3.1092	7.9965	-1.3540	1.0054
6	1977	7.5033	0.3041	5.1459	6.4844	3.3893	8.2404	1.6932	1.0145
7	1973	7.6187	0.2937	5.4306	6.7239	3.6583	8.4965	1.5414	1.0176
8	1919	7.4645	0.3041	5.6704	7.0039	3.9144	8.7649	1.1249	1.0145
9	1931	7.1954	0.3331	5.8638	7.3350	4.1582	9.0455	0.5941	1.0054
10	1951	6.8580	0.3765	6.0354	7.5928	4.3901	9.3382	-0.035401	0.9899
11	1982	7.1264	0.4300	6.1800	8.0723	4.6105	9.6423	-0.3316	0.9679
12	1963	6.7946	0.4903	6.3095	8.4677	4.8199	9.9574	-0.4630	0.9338
13	1904	6.9256	0.5551	6.4291	6.8727	5.0190	10.2628	-0.9271	0.9020
14	1935	6.7236	0.6231	6.5416	9.2847	5.2085	10.6173		
15	1935		0.6923	6.6492	9.7015	5.3812	10.9616		
16	1937		0.7652	6.7535	10.1218	5.5615	11.3135		
17	1989		0.8382	6.8550	10.5448	5.7270	11.6723		
18	1989		0.9122	6.9545	10.9698	5.8856	12.0387		
19	1993		0.9868	7.0524	11.3964	6.0382	12.4106		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=GRAL ACHA

YRS	Y	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	9.4867	1.0620	7.1491	11.8242	6.1854	12.7879	.	.
21	1992	.	9.7439	1.1377	7.2449	12.2529	6.3273	13.1761	.	.
22	1993	.	10.0114	1.2137	7.3396	12.6025	6.4657	13.5566	.	.
23	1994	.	10.2734	1.2900	7.4341	13.1127	6.5999	13.9471	.	.
24	1995	.	10.5357	1.3653	7.5279	13.5435	6.7303	14.3411	.	.
25	1996	.	10.7979	1.4433	7.6211	13.9747	6.8576	14.7382	.	.
26	1997	.	11.0604	1.5203	7.7140	14.4063	6.9821	15.1382	.	.
27	1998	.	11.3224	1.5974	7.8065	14.8353	7.1040	15.5439	.	.
28	1999	.	11.5847	1.6748	7.8989	15.2705	7.2236	15.9455	.	.
29	2000	.	11.8469	1.7528	7.9909	15.7030	7.3410	16.3525	.	.

STUDENT  
T  
RESIDUAL  
-2-1-0 1 2  
COOK'S  
D

1	1974	-.00495			0.000
2	1975	-1.2539			0.006
3	1976	-0.3377			0.013
4	1977	-0.8331			0.050
5	1978	-1.8540	***		0.189
6	1979	1.0649	***		0.124
7	1980	1.5143	***		0.095
8	1981	1.1038	*		0.055
9	1982	0.5909	*		0.019
10	1983	-0.38792			0.000
11	1984	-1.3928			0.012
12	1985	-1.4932			0.033
13	1986	-1.0272	**		0.200
14	1987	.	.	.	.
15	1988	.	.	.	.
16	1989	.	.	.	.
17	1990	.	.	.	.
18	1991	.	.	.	.
19	1992	.	.	.	.
20	1993	.	.	.	.
21	1994	.	.	.	.
22	1995	.	.	.	.
23	1996	.	.	.	.
24	1997	.	.	.	.
25	1998	.	.	.	.
26	1999	.	.	.	.
27	2000	.	.	.	.

SUM OF RESIDUALS  
SUM OF SQUARED RESIDUALS  
PREDICTED RESIDUALS (PRESS)

-1.5418E-12  
12.33907  
15.55103

1.51 JSD:2 AUTOCORRELATION 0.551

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL  
ESTACION=GRAL AGUA

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION=GRAL ACHA

PLOT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.

1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000

R  
E  
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A  
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O

-1.5

-1.0

-0.5

0.0

1.5

1.0

0.5

0.0

-0.5

-1.0

-1.5

A

A

A

A

A

A

A

A

A

A

A

A

A

ESTACION=GRAL ACHAA

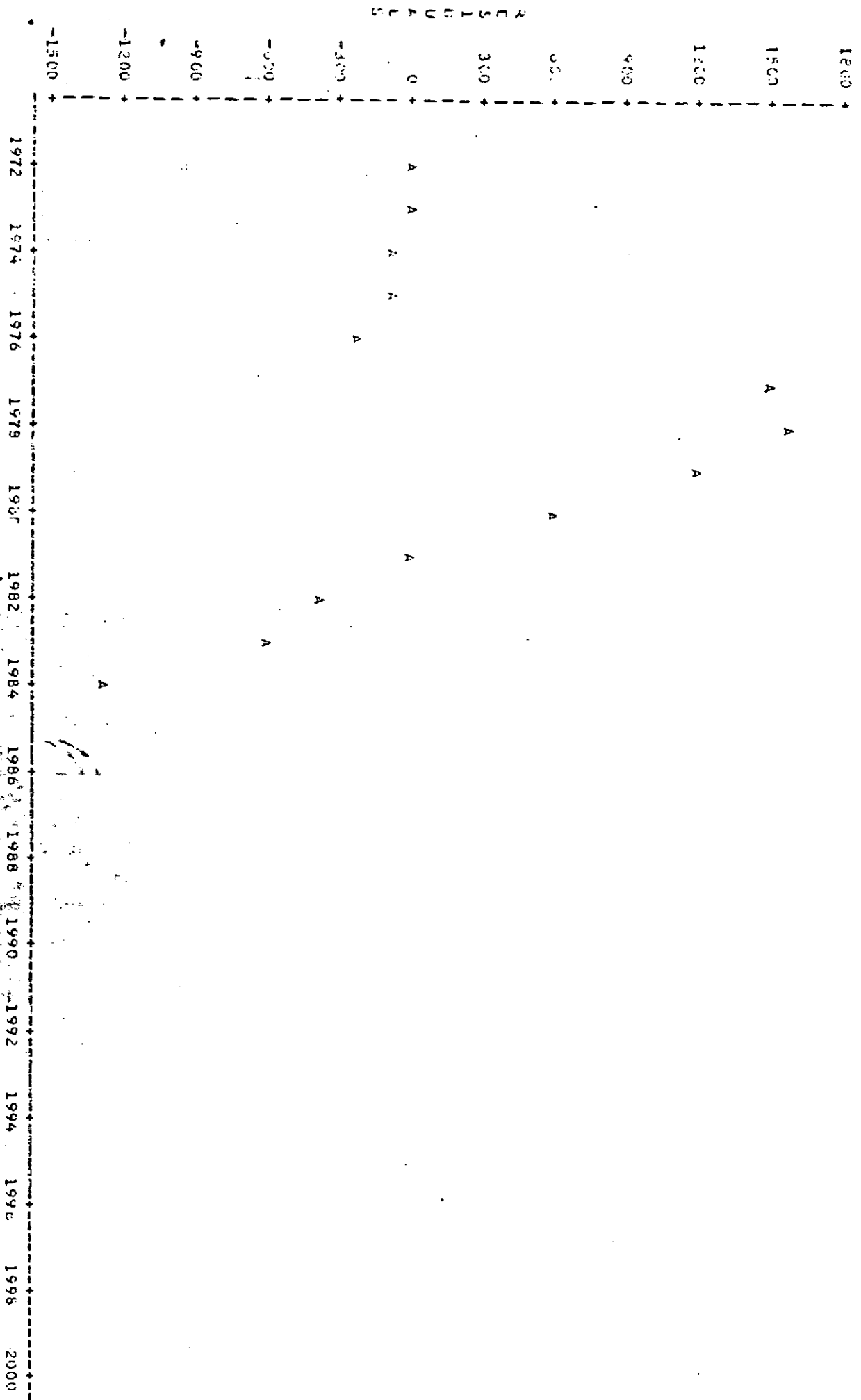
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SYMBOL	USED	IS	P
SYMBOL	USED	IS	L
SYMBOL	USED	IS	U

[illegible]

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION=GRAL ACHA

PLOT OF RESID+ANIO      LEGEND: A = 1.035, B = 2.035, ETC.





## - ESTACION=GRAL ACHHA

SYN30L	USED	IS	0
SYN30L	USED	IS	P
SYN30L	USED	IS	L
SYN30L	USED	IS	U

7057-100

1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=GUATRACHE

ANIO	INDUST	PRED	L95	U95	RESID
1972	427	537.9	140.7	1005	39.11
1973	517	405.7	163.9	1179	51.26
1974	563	559.2	225.1	1389	23.64
1975	1051	671.4	274.4	1643	379.64
1976	341	876.1	333.1	1951	-465.06
1977	713	567.6	402.6	2326	-254.80
1978	1326	1162.0	484.5	2797	164.01
1979	1992	1395.1	561.4	3354	596.86
1980	2305	1675.1	692.2	4053	629.93
1981	1357	2011.2	822.0	4920	-654.17
1982	1768	2424.7	972.2	5998	-626.71
1983	3539	2899.2	1145.1	7340	639.79
1984	4095	3400.9	1343.8	9017	614.06
1985	.	4179.4	1571.6	11114	.
1986	.	5016.0	1832.1	13744	.
1987	.	6024.8	2129.5	17045	.
1988	.	7233.7	2458.7	21196	.
1989	.	8685.1	2855.0	26421	.
1990	.	10427.7	3294.6	33605	.
1991	.	12520.1	3794.4	41311	.
1992	.	15032.2	4362.4	51799	.
1993	.	18048.4	5007.5	65051	.
1994	.	21649.7	5739.8	81610	.
1995	.	26017.7	6570.9	103018	.
1996	.	31233.1	7513.7	129873	.
1997	.	37506.0	8582.8	163897	.
1998	.	45031.5	9794.9	207629	.
1999	.	54067.0	11168.9	261731	.
2000	.	64915.4	12725.8	331140	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=GUATAPACHE

DEP VARIABLE: INDUST

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	0.03577714	0.03577714	41.406	0.0001
ERROR	11	1.61342328	0.146675303		
TOTAL	12	7.69340042			

ROOT MSE 0.3930053 R-SQUARE 0.7904  
DEP MEAN 7.057897 ADJ R-SQ 0.7714  
C.V. 5.426628

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HC: PARAMETER=0	PROB >  T
INTERCEP	1	-354.64220	56.15599199	-6.315	0.0001
AVIO	1	0.16266152	0.02639024	6.441	0.0001

NO	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	5.3585	0.2207	5.5189	6.4026	5.0089	6.9125	0.0961	0.3262
2	1973	5.4480	0.1773	5.7534	6.5358	5.2146	7.0725	0.1045	0.3395
3	1974	6.3682	0.1555	5.9842	6.6687	5.4166	7.2363	0.0417	0.3500
4	1975	6.9575	0.1362	6.2096	6.8090	5.6146	7.4040	0.4432	0.3590
5	1976	5.8319	0.1204	6.4271	6.9573	5.8085	7.5759	-0.3603	0.3636
6	1977	0.5045	0.1160	6.6330	7.1170	5.9980	7.7521	-0.3055	0.3669
7	1978	7.1999	0.1062	6.8243	7.2917	6.1831	7.9327	0.1320	0.3680
8	1979	7.5969	0.1100	6.9987	7.4828	6.3637	8.1178	0.3561	0.3697
9	1980	7.7428	0.1254	7.1585	7.6887	6.5399	8.3073	0.3192	0.3636
10	1981	7.2132	0.1362	7.3068	7.9061	6.7118	8.5011	-0.3934	0.3586
11	1982	7.4889	0.1555	7.4471	8.1316	6.8795	8.6992	-0.3005	0.3500
12	1983	8.1116	0.1773	7.5820	8.3624	7.0433	8.9011	0.1994	0.3395
13	1984	8.1551	0.2007	7.7132	8.5969	7.2033	9.1068	0.1625	0.3262
14	1985	8.3175	0.2253	7.8414	8.8339	7.3593	9.3160		
15	1986		0.2507	7.9689	9.0726	7.5132			
16	1987		0.2767	8.0946	9.3127	7.6637			
17	1988		0.3031	8.2193	9.5537	7.8114			
18	1989		0.3399	8.3433	9.7954	7.9568			
19	1990		0.3569	8.4669	10.0377	8.1000			

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPERIENCIAL  
SECTOR INDUSTRIAL

ESTACION=GUATRACHE

035	10	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	9.4351	0.3841	8.5898	10.2804	8.2413	10.6289	.	.
21	1992	.	9.6179	0.4114	8.7124	10.5235	8.3803	10.8551	.	.
22	1993	.	9.8008	0.4369	8.8343	10.7668	8.5167	11.0829	.	.
23	1994	.	9.9837	0.4665	8.9569	11.0104	8.6552	11.3122	.	.
24	1995	.	10.1665	0.4942	9.0786	11.2542	8.7904	11.5427	.	.
25	1996	.	10.3494	0.5219	9.2050	11.4962	8.9245	11.7743	.	.
26	1997	.	10.5323	0.5496	9.3222	11.7423	9.0575	12.0070	.	.
27	1998	.	10.7151	0.5777	9.4437	11.9865	9.1896	12.2406	.	.
28	1999	.	10.8980	0.6056	9.5651	12.2309	9.3209	12.4751	.	.
29	2000	.	11.0808	0.6336	9.6864	12.4753	9.4514	12.7103	.	.

035 STUDENT  
10 RESIDUAL -2-1-0 1 2

CODK'S  
D

1	1972	-2.2945				0.016
2	1973	0.3377				0.013
3	1974	0.1193				0.001
4	1975	1.2520		**		0.113
5	1976	-2.3662		***		0.307
6	1977	-0.8328		*		0.031
7	1978	0.3508				0.005
8	1979	0.9707				0.042
9	1980	0.8780		*		0.042
10	1981	-1.0990		**		0.087
11	1982	-0.8585		*		0.073
12	1983	0.5074		*		0.047
13	1984	0.4961				0.047
14	1985	.				.
15	1986	.				.
16	1987	.				.
17	1988	.				.
18	1989	.				.
19	1990	.				.
20	1991	.				.
21	1992	.				.
22	1993	.				.
23	1994	.				.
24	1995	.				.
25	1996	.				.
26	1997	.				.
27	1998	.				.
28	1999	.				.
29	2000	.				.

SUM OF RESIDUALS  
SUM OF SQUARED RESIDUALS  
PREDICTED RESID SS (PRESS)

-2.40423E-13  
1.613623  
2.086716

191 ORDER AUTOCORRELATION - 0.03

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL  
ESTACION=CUATRACHE

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION=GUATRACHE

PLOT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



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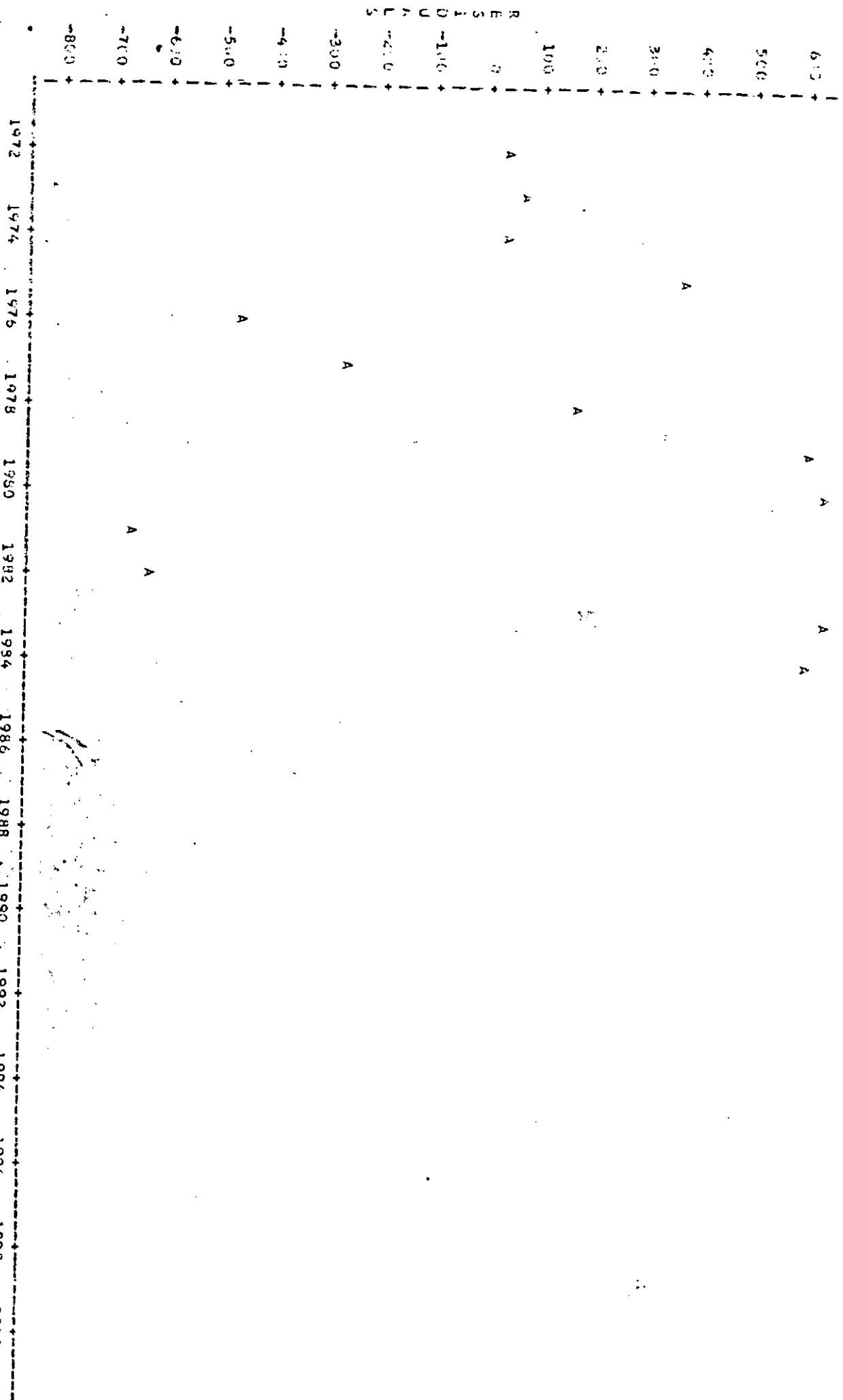
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PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION=GUATRACHE

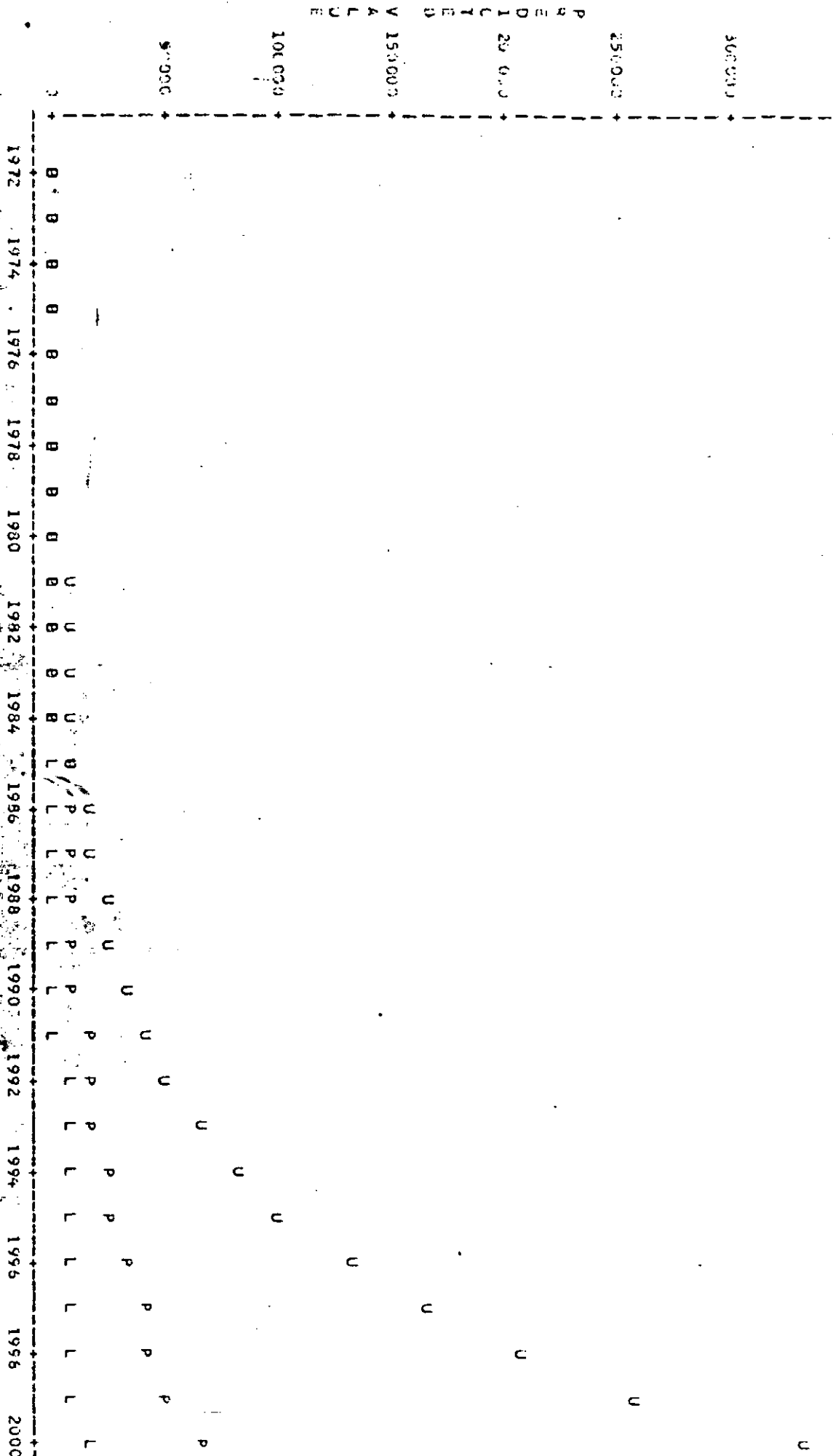
PLUJ OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.





## ESTACION=GUATRACHE

SYMBOL USED IS O  
SYMBOL USED IS P  
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PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=SANTA ISABEL

ANIO	INDUSI	PREO	L95	U95	RESIDU
1972	1	1.35	0.768	2.57	-0.3497
1973	2	1.75	1.013	3.02	0.2512
1974	3	2.27	1.332	3.86	0.7324
1975	.	2.94	1.744	4.96	.
1976	3	3.81	2.275	6.39	-0.8126
1977	5	4.94	2.956	8.27	0.0503
1978	7	6.41	3.825	10.74	0.5895
1979	10	8.31	4.939	14.02	1.5878
1980	10	10.78	6.329	18.35	-0.7782
1981	.	13.98	8.097	24.12	.
1982	.	16.12	10.322	31.82	.
1983	.	20.50	13.119	42.09	.
1984	26	30.47	16.626	55.84	-2.4694
1985	.	39.51	21.029	74.26	.
1986	.	51.23	26.515	98.98	.
1987	.	66.43	32.393	132.18	.
1988	.	86.14	41.959	176.83	.
1989	.	111.65	52.659	236.90	.
1990	.	144.92	66.601	317.79	.
1991	.	187.79	82.630	425.76	.
1992	.	243.50	103.345	573.74	.
1993	.	319.74	129.140	771.97	.
1994	.	409.41	161.249	1039.51	.
1995	.	530.87	201.203	1400.72	.
1996	.	683.37	250.904	1883.58	.
1997	.	892.59	312.714	2547.74	.
1998	.	1157.39	389.505	3438.61	.
1999	.	1500.76	485.094	4642.93	.
2000	.	1943.99	603.616	6271.59	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=SANTA ISABEL

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	7.69450377	7.69450379	130.699	0.0001
ERROR	7	0.29809275	0.04258468		
C TOTAL	8	7.99259655			

ROOT MSE 0.2003100  
DEP MEAN 1.598122  
C.V. 12.91259  
R-SQUARE 0.9627  
ADJ R-SQ 0.9574

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0: PARAMETER=0	PROB >  T
INTERCEPT	1	-512.02699	38.21040525	-13.400	0.0001
ANNU	1	0.25930020	0.01932744	13.442	0.0001

UNRES	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	0	0.42991	0.1186	0.0186	0.5796	-0.2637	0.8620	-0.2991	0.1639
2	1973	1.6933	0.5589	0.1935	0.3142	0.8036	0.0130	1.1048	0.1342	0.1765
3	1974	1.0936	0.9167	0.0900	0.6063	1.0315	0.2864	1.3513	0.2799	0.1857
4	1975	.	1.0735	0.1789	0.3919	1.2651	0.5561	1.6009	.	.
5	1976	1.0936	1.3383	0.0715	1.1694	1.5073	0.8219	1.8547	-0.2397	0.1935
6	1977	1.6094	1.5931	0.0688	1.4355	1.7608	1.0938	2.1125	0.0113	0.1946
7	1978	1.9459	1.8579	0.0715	1.3090	2.0269	1.3415	2.3143	0.0881	0.1936
8	1979	2.3025	2.1177	0.0789	1.9311	2.3043	1.5953	2.6491	0.1849	0.1907
9	1980	2.3025	2.3775	0.0900	2.1648	2.5903	1.8452	2.9093	-0.0749	0.1857
10	1981	.	2.6375	0.1135	2.3926	2.8820	2.0914	3.1632	.	.
11	1982	.	2.8971	0.1185	2.6166	3.1776	2.3343	3.4460	.	.
12	1983	.	3.1569	0.1343	2.8381	3.4758	2.5740	3.7393	.	.
13	1984	3.3322	3.4107	0.1518	3.0978	3.7156	2.8110	4.0225	-0.0845	0.1398
14	1985	.	3.6765	0.1692	3.2764	4.0767	3.0455	4.3076	.	.
15	1986	.	3.9363	0.1371	3.4940	4.3786	3.2777	4.5949	.	.
16	1987	.	4.1901	0.2752	3.7118	4.6812	3.5081	4.8642	.	.
17	1988	.	4.4559	0.2235	3.9275	4.9643	3.7367	5.1752	.	.
18	1989	.	4.7157	0.2419	4.1437	5.2878	3.9638	5.4676	.	.
19	1990	.	4.9755	0.2605	4.3595	5.5915	4.1897	5.7614	.	.

PROVINCIA DE LA PAZ  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=SANIA ISABEL

YRS	ID	ACTUAL	PREDICT VALUE	SID ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	SID ERR RESIDUAL
1	1971	.	5.2353	0.2792	4.9761	5.8955	4.4144	6.0563	.	.
21	1992	.	5.4931	0.2789	4.7906	6.1997	4.6381	6.3512	.	.
42	1973	.	5.7549	0.3163	5.0058	6.5040	4.8609	6.6490	.	.
43	1994	.	6.0147	0.3357	5.2209	6.8085	5.0829	6.9465	.	.
29	1995	.	6.2749	0.3546	5.4360	7.1131	5.3043	7.2467	.	.
45	1996	.	6.5343	0.3736	5.6509	7.4178	5.5251	7.5436	.	.
49	1977	.	6.7941	0.3920	5.8657	7.7225	5.7453	7.8430	.	.
27	1998	.	7.0539	0.4117	6.6835	8.0274	5.9650	8.1468	.	.
40	1999	.	7.3137	0.4307	6.2952	8.3323	6.1843	8.4431	.	.
25	2000	.	7.5735	0.4498	6.5090	8.6372	6.4033	8.7439	.	.

STUDENT  
RESIDUAL  
-2-1-0 1 2  
COOK'S  
0

1	1972	-1.7714	***		0.774
2	1973	-1.7519	*		0.095
3	1974	1.9171	***		0.256
4	1975	.	.		.
5	1976	-1.2383	**		0.104
6	1977	0.3584			0.006
7	1978	-1.4543			0.014
3	1979	0.9695	*		-0.080
9	1980	-0.4135			0.019
10	1981	13.11	.	.	.
11	1982	.	.	.	.
12	1983	.	.	.	.
13	1984	0.6045	*		0.215
14	1985	.	.	.	.
15	1986	.	.	.	.
16	1987	.	.	.	.
17	1988	.	.	.	.
18	1989	.	.	.	.
19	1990	.	.	.	.
20	1991	.	.	.	.
21	1992	.	.	.	.
22	1993	.	.	.	.
23	1994	.	.	.	.
24	1995	.	.	.	.
25	1996	.	.	.	.
26	1997	.	.	.	.
27	1998	.	.	.	.
28	1999	.	.	.	.
29	2000	.	.	.	.

SUM OF SQUARED RESIDUALS  
RESIDUAL MEAN (PRESS)

0.71088E-13  
0.2980923  
0.5261076

157 2000-0100607-1-03

PROVINCIA DE LA PAPA  
SERIES HISTÓRICAS DE ENERGÍA (MWh)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL  
ESTACION=SANTA ISABEL

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION= SANTA ISABEL

PLOT OF RESID#ANIO LEGEND: A = 1 OBS, B = 2 OBS, ETC.

1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000

0.0  
0.1  
0.2  
0.3  
0.4  
0.5

0.0  
0.1  
0.2  
0.3  
0.4  
0.5

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A

## E31 ACTION=SANTA 1543EL

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PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

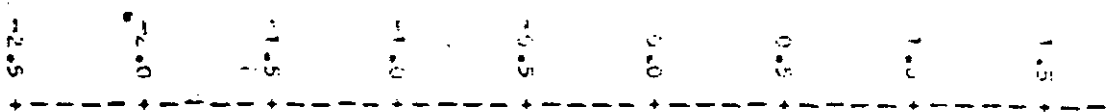
ESTACION=SANTA ISABEL

PLUT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.

A

RESIDUALS

1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000



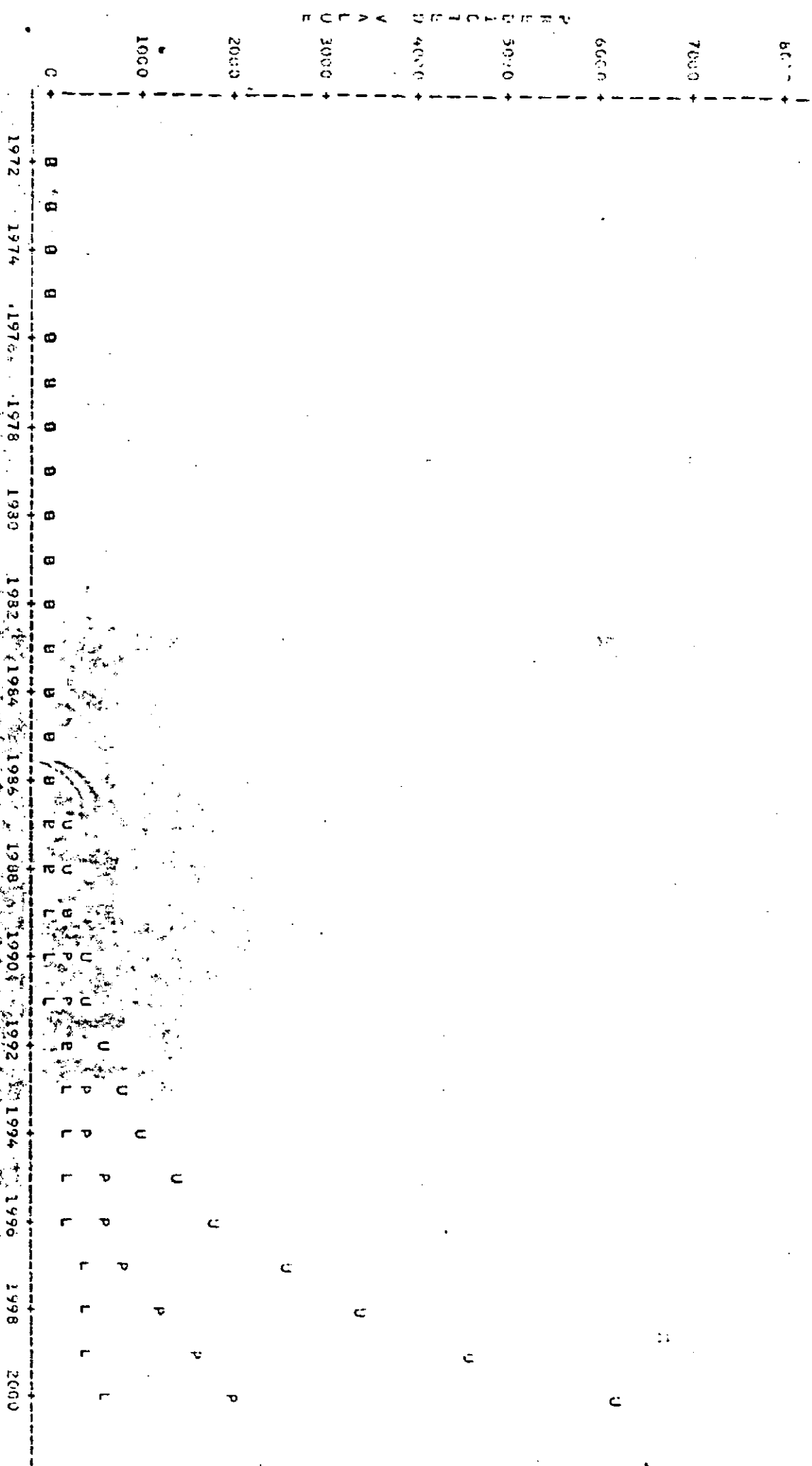


PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=SANTA ISABEL.

PLOT OF INDUST\*ANIO  
PLOT OF PRED\*ANIO  
PLOT OF L95\*ANIO  
PLOT OF U95\*ANIO

SYMBOL USED IS O  
SYMBOL USED IS P  
SYMBOL USED IS L  
SYMBOL USED IS U



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=25 DE MAYO

ANIO	INDUST	PEEO	L95	U95	RESID
1972	.	25	1.71	330	.
1973	.	36	2.37	439	.
1974	.	49	4.77	513	.
1975	.	69	7.81	607	.
1976	.	96	12.58	731	.
1977	269	134	19.84	899	75.43
1978	229	156	30.50	1135	42.99
1979	220	259	45.55	1475	-39.06
1980	210	361	65.56	1962	-150.78
1981	502	502	91.45	2761	-6.45
1982	515	700	122.91	3984	-184.76
1983	445	975	159.78	5944	-529.53
1984	4245	1357	201.61	9136	2887.79
1985	.	1890	248.00	14406	.
1986	.	2632	298.69	23199	.
1987	.	3666	353.61	38607	.
1988	.	5106	412.58	63135	.
1989	.	7110	475.74	106049	.
1990	.	9902	545.55	179741	.
1991	.	13791	619.79	306864	.
1992	.	19206	699.95	527015	.
1993	.	26748	780.63	909525	.
1994	.	37251	830.49	1576018	.
1995	.	51879	982.23	2740131	.
1996	.	72251	1092.03	4777635	.
1997	.	106622	1212.52	8350222	.
1998	.	146134	1342.80	14624251	.
1999	.	195161	1484.47	25657496	.
2000	.	271795	1638.59	45083357	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL  
ESTACION=25, DE MAYO

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	4.60785711	4.60785711	10.749	0.0169
ERROR	9	2.57203059	0.2867176		
TOTAL	10	7.17988769			

ADJ MSE 0.4547302 R-SQUARE 0.6413  
DEP MEAN 6.053891 ADJ R-SQ 0.5921  
C.V. 11.81503

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEPT	1	-649.93986	200.09426	-3.248	0.0175
ANID	1	0.33122633	0.10102708	3.279	0.0169

CAS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1974	3.2385	3.2385	0.6894	1.0622	5.4147	0.5361	5.9403	0.4477	0.5031
2	1973	3.5697	3.5697	0.7923	1.6311	5.5093	1.0548	6.0846	0.2077	0.5579
3	1974	3.9009	3.9009	0.6963	2.1972	5.6047	1.5623	6.2395	0.1534	0.5934
4	1975	4.2321	4.2321	0.5719	2.7593	5.7050	2.0559	6.4084	0.3412	0.6104
5	1976	4.5634	4.5634	0.3102	3.3151	5.8117	2.5324	6.5944	0.5936	0.5936
6	1977	4.8946	4.8946	0.4226	3.8605	5.9237	2.9978	6.8014	0.4477	0.5031
7	1978	5.2258	5.2258	0.3426	4.3675	6.0641	3.4177	7.0340	0.2077	0.5579
8	1979	5.5571	5.5571	0.2767	4.8801	6.2540	3.8178	7.2963	0.1534	0.5934
9	1980	5.8883	5.8883	0.2369	5.3985	6.4480	4.1845	7.5920	-0.3412	0.6104
10	1981	6.2195	6.2195	0.2369	5.8390	6.7993	4.5158	7.9232	-0.0504	0.6104
11	1982	6.5507	6.5507	0.2767	6.2737	7.2277	4.8115	8.2901	-0.3656	0.5936
12	1983	6.8820	6.8820	0.3426	6.7043	7.7203	5.0735	8.6901	-0.7839	0.5579
13	1984	7.2132	7.2132	0.4226	7.1791	8.2473	5.3063	9.1200	1.1403	0.5031
14	1985	7.5444	7.5444	0.5102	7.6961	8.7927	5.5134	9.5754	0.4477	0.5031
15	1986	7.8756	7.8756	0.6063	8.2031	9.3435	5.6994	10.0519	0.2077	0.5579
16	1987	8.2068	8.2068	0.6963	8.7093	9.9106	5.8832	10.5455	0.1534	0.5934
17	1988	8.5381	8.5381	0.7923	9.2155	10.4767	6.0670	11.0391	0.3412	0.6104
18	1989	8.8693	8.8693	0.8894	9.7215	11.0456	6.2508	11.5717	0.5936	0.5936
19	1990	9.2005	9.2005	0.9873	10.2275	11.6163	6.4346	12.0993	0.8894	0.5579

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=25 DE MAYO

UNOS	10	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	9.5318	1.0857	6.8750	12.1685	6.4294	12.6342			
21	1992	9.6636	1.1646	6.9643	12.7617	6.5510	13.1750			
22	1993	10.1942	1.2939	7.0527	13.3358	6.6570	13.7207			
23	1994	10.5234	1.3834	7.1405	13.9104	6.7305	14.2704			
24	1995	10.8527	1.4631	7.2277	14.4850	6.8398	14.8235			
25	1996	11.1879	1.5429	7.3146	15.0612	6.9963	15.3795			
26	1997	11.5191	1.6829	7.4011	15.6371	7.1005	15.9378			
27	1998	11.8504	1.7631	7.4873	16.2134	7.2025	16.4982			
28	1999	12.1816	1.8333	7.5734	16.7898	7.3029	17.0603			
29	2000	12.5126	1.9835	7.6592	17.3665	7.4016	17.6240			
UNOS	10	STUDENT RESIDUAL	-2-1-0 1 2	COOK'S D						
1	1972									
2	1973									
3	1974									
4	1975									
5	1976									
6	1977	0.6954			0.286					
7	1978	0.3726			0.026					
8	1979	-0.2754			0.008					
9	1980	-0.8366			0.059					
10	1981	-0.0148			0.000					
11	1982	-0.5166			0.029					
12	1983	-1.4053	*		0.372					
13	1984	2.2964	**		1.857					
14	1985		****							
15	1986									
16	1987									
17	1988									
18	1989									
19	1990									
20	1991									
21	1992									
22	1993									
23	1994									
24	1995									
25	1996									
26	1997									
27	1998									
28	1999									
29	2000									

SUM OF RESIDUALS -4.60075E-13  
SUM OF SQUARED RESIDUALS 2.572031  
PREDICTED ESTD ERROR

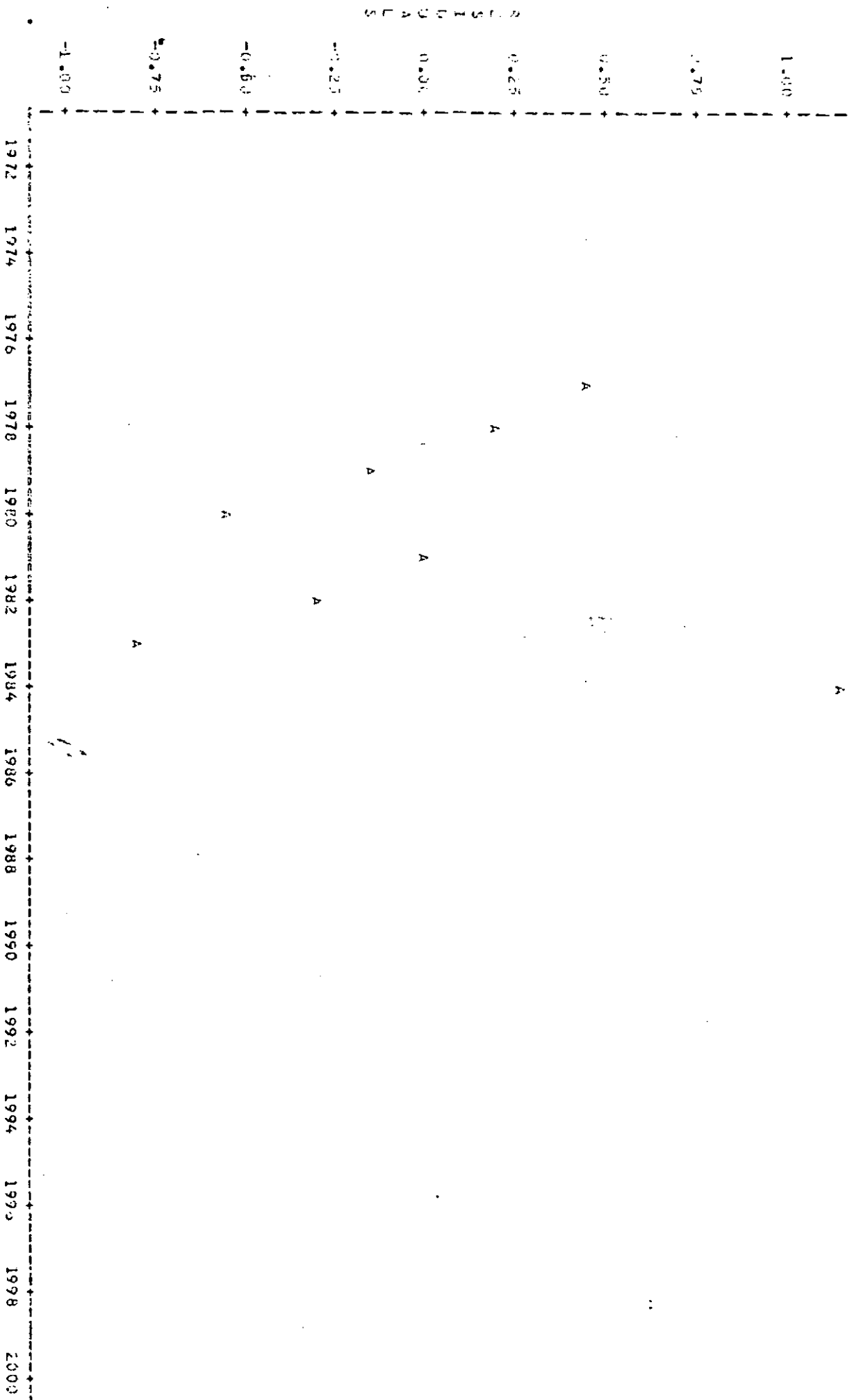
1ST ORDER AUTOCORRELATION -0.196

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL  
ESTACION=25 DE MAYO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION=25 DE MAYO

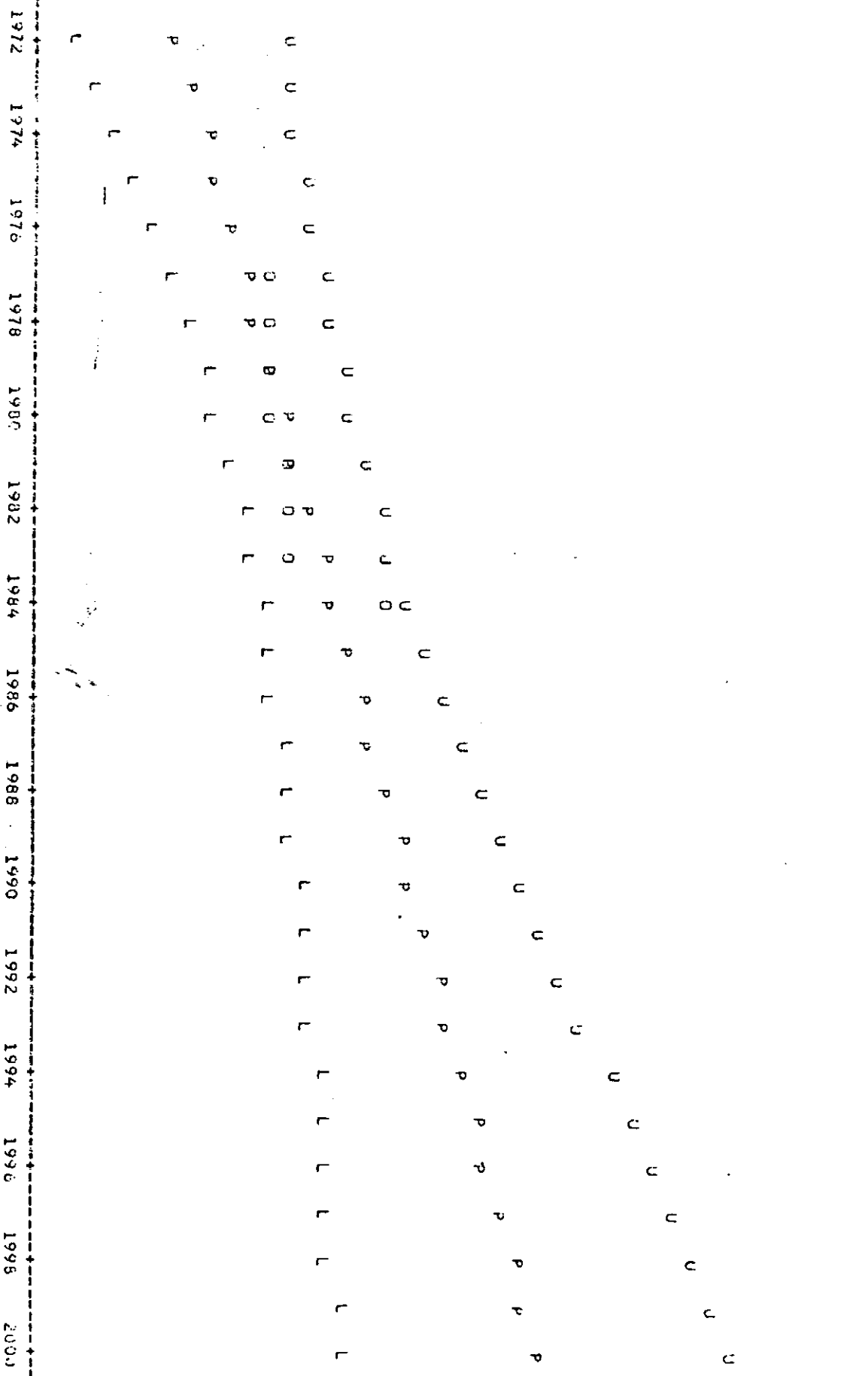
PLOT OF RESIDUANO      LEGEND: A = 1 OBS, B = 2 OBS, ETC.



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACIONES DE MAYO

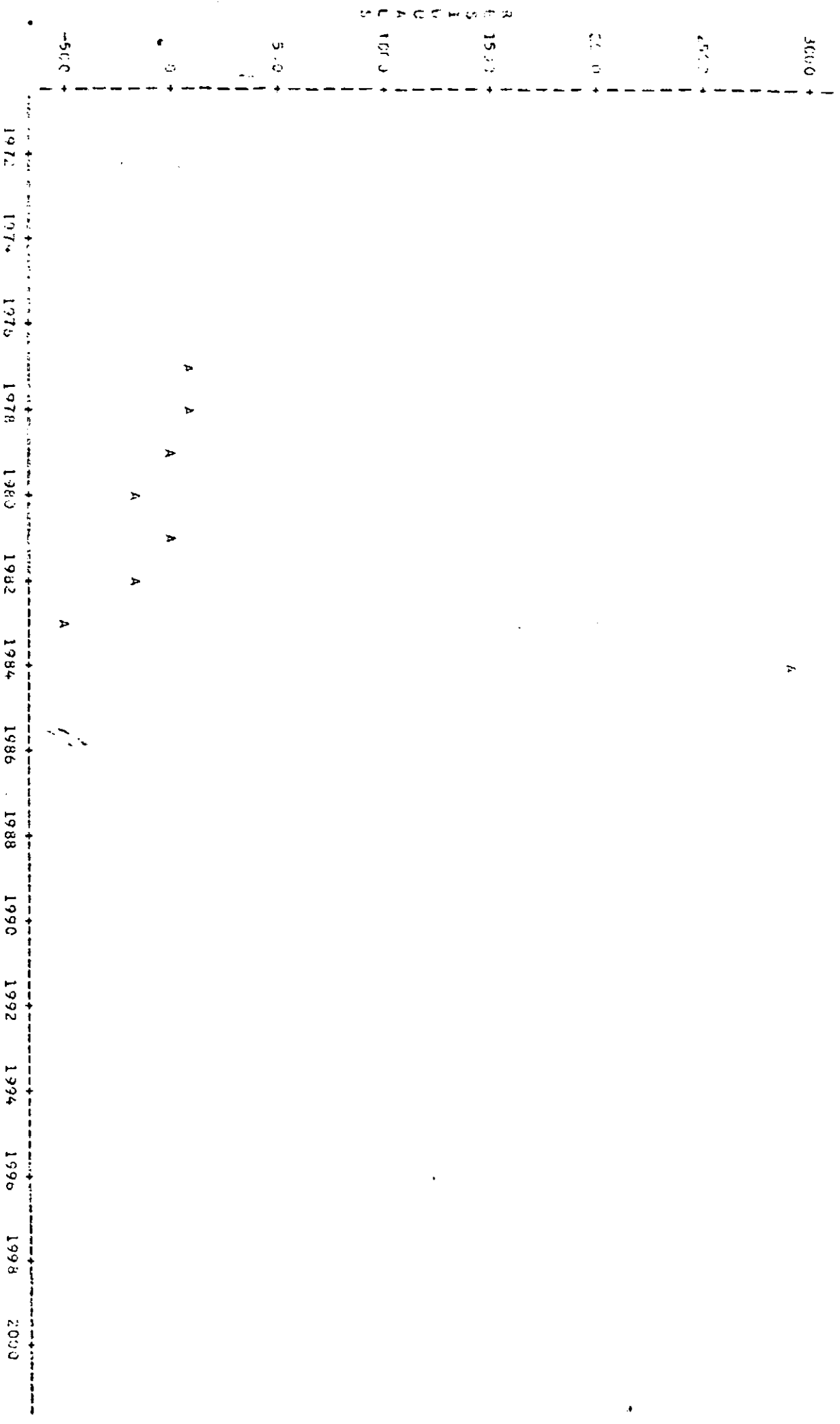
PLOT OF INDUSTRIAL  
 PLOT OF PREDICTION  
 PLOT OF OBSERVATION  
 SYMBOL USED IS O  
 SYMBOL USED IS P  
 SYMBOL USED IS L  
 SYMBOL USED IS U



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION=25 DE MAYO

PLUOT OP RESIDUO=ANIO      LEGEND: A = 1.055, B = 2.085, ETC.





PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION=25 DE MAYO

PLOT OF INDUSTRIAL  
 PLOT OF PREDICTION  
 PLOT OF 1955-1990  
 PLOT OF 1955-1990  
 PLOT OF 1955-1990

SYMBOL USED IS O  
 SYMBOL USED IS P  
 SYMBOL USED IS L  
 SYMBOL USED IS U



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

STACION=LOCAL. ALTURA=5

ANIO	INDUST	PRED	L95	U95	RESID
1972	.	0	0.0	10.35405	.
1973	.	0	0.0	24.40765	.
1974	.	0	0.0	37.35923	.
1975	.	0	0.0	58.55114	.
1976	.	1	0.0	94.98312	.
1977	.	3	0.0	161.0589	.
1978	1	6	0.1	289.2382	-5.42
1979	31	10	0.4	589.494	15.44
1980	94	39	1.3	1177.384	63.32
1981	294	95	3.3	2742.397	199.08
1982	361	755	7.7	7089.896	125.07
1983	446	372	15.1	20251.71	-125.80
1984	477	1403	21.2	63156.83	-924.67
1985	.	73442	55.9	211773.2	.
1986	.	48447	34.9	752063.2	.
1987	.	20727	153.9	2792151	.
1988	.	50363	241.2	10726275	.
1989	.	124413	369.3	42302387	.
1990	.	306481	581.0	170462659	.
1991	.	751591	811.3	696293844	.
1992	.	1844345	1179.6	2383634696	.
1993	.	4525079	1697.9	12065124876	.
1994	.	11106154	2424.1	50963175985	.
1995	.	27253037	3437.7	216061903474	.
1996	.	66878304	4848.2	922553095045	.
1997	.	164114155	6605.7	3.95740E+12	.
1998	.	402723364	9526.5	1.70427E+13	.
1999	.	988251798	13262.3	7.36376E+13	.
2000	.	2425093009	18431.5	3.19076E+14	.

PROVINCIA DE LA PAMP

SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL  
ESTACION=LOCAL. AISLAS

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	22.50360656	22.50360656	15.061	0.0116
ERROR	5	7.48357289	1.49671457		
C TOTAL	6	30.05417941			

ROOT MSE 1.223973 R-SQUARE 0.7509  
DEP MEAN 4.553071 ADJ R-SQ 0.7009  
C.V. 26.88241

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0: PARAMETER=0	PROB >  T
INTERCEPT	1	-1773.76614	458.22438	-3.871	0.0117
ANID	1	0.63706764	0.23130952	3.881	0.0110

JMS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	.	-3.5261	2.1326	-9.0080	1.9557	-9.0467	2.7945	.	.
2	1973	.	-2.6284	1.9074	-7.5316	2.2747	-8.4542	3.1974	.	.
3	1974	.	-1.7337	1.6840	-6.0594	2.5979	-7.0821	3.6206	.	.
4	1975	.	-0.8331	1.4629	-4.5936	2.9275	-5.7362	4.0701	.	.
5	1976	.	0.0646	1.2456	-3.1373	3.2666	-4.4244	4.5537	.	.
6	1977	.	0.9623	1.0344	-1.6968	3.6214	-3.1571	5.0818	.	.
7	1978	3.4340	2.7577	0.8340	-0.2838	4.0038	-1.9472	5.6673	-1.8630	0.8959
8	1979	4.5451	3.6554	0.6172	2.3258	4.9849	0.2397	7.0711	0.6765	1.0344
9	1980	5.6836	4.5531	0.4426	3.3639	5.7423	1.1396	7.9162	0.9397	1.1093
10	1981	6.8172	5.4530	0.3172	4.1212	6.7803	2.0351	8.8604	1.1305	1.1593
11	1982	8.0346	6.3460	0.2340	4.6667	7.0302	2.7809	9.9160	0.4381	1.0344
12	1983	9.2461	7.2461	0.1344	5.1023	9.3900	3.4389	11.0534	-0.4481	0.6959
13	1984	10.413	8.1438	1.0344	5.4847	10.8029	4.0244	12.2653	-1.0765	.
14	1985	11.645	9.0415	1.2456	5.8395	12.2435	4.5524	13.5306	.	.
15	1986	12.892	9.9392	1.4629	6.1787	13.6997	5.0361	14.8423	.	.
16	1987	14.136	10.8369	1.6840	6.5082	15.1656	5.4856	16.1632	.	.
17	1988	15.374	11.7346	1.9074	6.8314	16.6377	5.9088	17.5604	.	.
18	1989	16.612	12.6323	2.1326	7.1504	18.1141	6.3117	18.9529	.	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=LOCAL. AISLADAS

	IO	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	19.5297	2.3539	7.4663	19.5936	6.6986	20.3013	.	.
21	1992	.	14.4476	2.5951	7.7799	21.0754	7.0723	21.7823	.	.
22	1993	.	15.3253	2.3147	8.0918	22.5568	7.4372	23.2135	.	.
23	1994	.	16.2435	3.0424	8.4024	24.0436	7.7932	24.0529	.	.
24	1995	.	17.1207	3.2712	8.7119	25.5295	8.1426	26.0903	.	.
25	1996	.	18.0164	3.5003	9.0206	27.0162	8.4864	27.5504	.	.
26	1997	.	18.9161	3.7290	9.3285	28.5036	8.8255	29.0066	.	.
27	1998	.	19.8133	3.9594	9.6360	29.9915	9.1608	30.4507	.	.
28	1999	.	20.7114	4.1892	9.9429	31.4800	9.4927	31.9302	.	.
29	2000	.	21.6091	4.4192	10.2495	32.9688	9.8213	33.3955	.	.

STD  
RESIDUAL  
CDBK'S  
0

1	1972	.	.	.	.	.	.	.	.	.
2	1973	.	.	.	.	.	.	.	.	.
3	1974	.	.	.	.	.	.	.	.	.
4	1975	.	.	.	.	.	.	.	.	.
5	1976	.	.	.	.	.	.	.	.	.
6	1977	.	.	.	.	.	.	.	.	.
7	1978	.	.	.	.	.	.	.	.	.
8	1979	.	.	.	.	.	.	.	.	.
9	1980	.	.	.	.	.	.	.	.	.
10	1981	.	.	.	.	.	.	.	.	.
11	1982	.	.	.	.	.	.	.	.	.
12	1983	.	.	.	.	.	.	.	.	.
13	1984	.	.	.	.	.	.	.	.	.
14	1985	.	.	.	.	.	.	.	.	.
15	1986	.	.	.	.	.	.	.	.	.
16	1987	.	.	.	.	.	.	.	.	.
17	1988	.	.	.	.	.	.	.	.	.
18	1989	.	.	.	.	.	.	.	.	.
19	1990	.	.	.	.	.	.	.	.	.
20	1991	.	.	.	.	.	.	.	.	.
21	1992	.	.	.	.	.	.	.	.	.
22	1993	.	.	.	.	.	.	.	.	.
23	1994	.	.	.	.	.	.	.	.	.
24	1995	.	.	.	.	.	.	.	.	.
25	1996	.	.	.	.	.	.	.	.	.
26	1997	.	.	.	.	.	.	.	.	.
27	1998	.	.	.	.	.	.	.	.	.
28	1999	.	.	.	.	.	.	.	.	.
29	2000	.	.	.	.	.	.	.	.	.

SUM OF RESIDUALS  
SUM OF SQUARED RESIDUALS  
PREDICTED RESIDU SS (PRESS)

-1.02740E-12  
7.490573  
20.44297

201 00078 AUTODIAGNOSTICO 2.146

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=LOCAL. AISLADAS

RESIDUALS



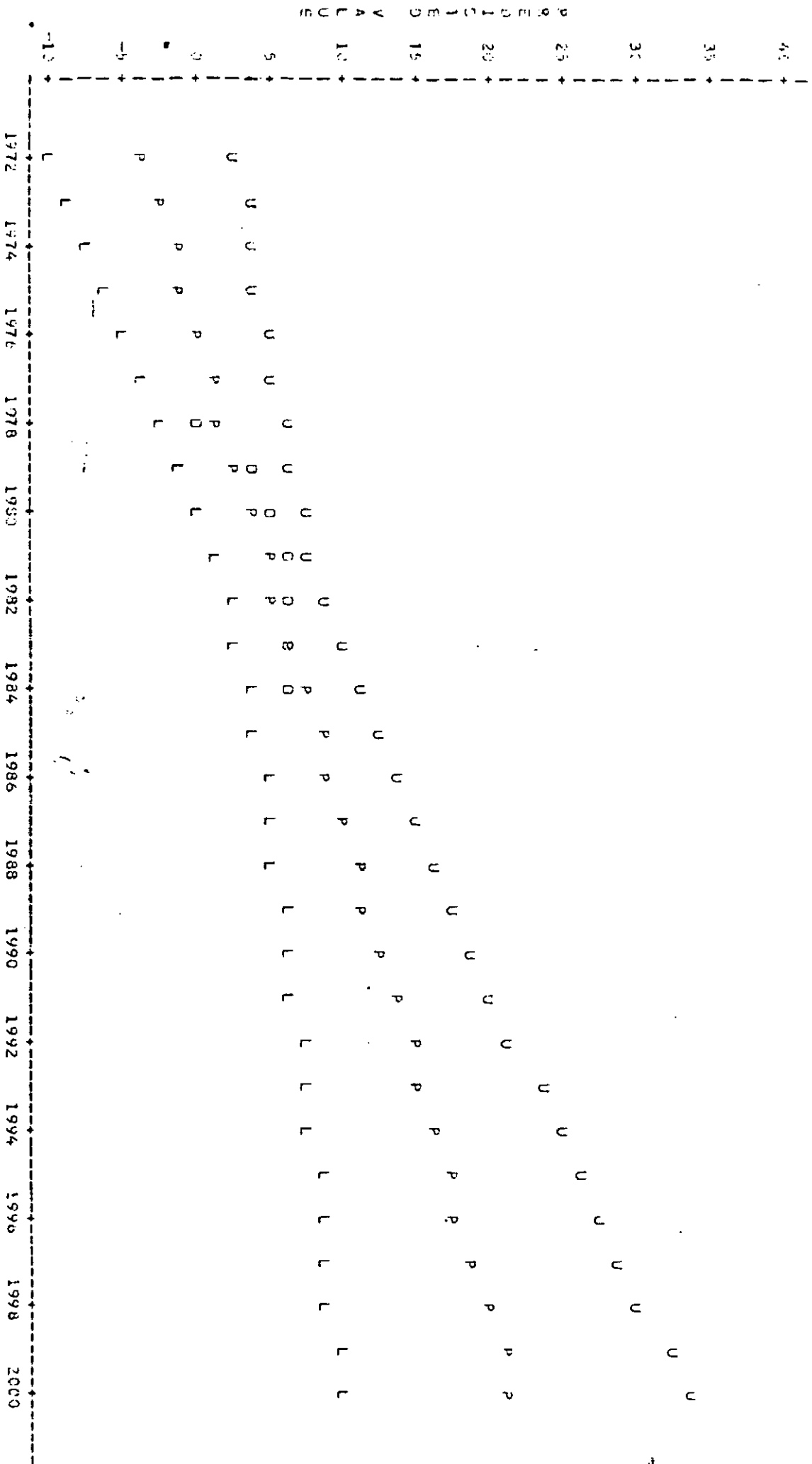
NOTE: 12 OBS HAD MISSING VALUES

ANID

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR INDUSTRIAL

ESTACION=LOCAL. AISLADAS

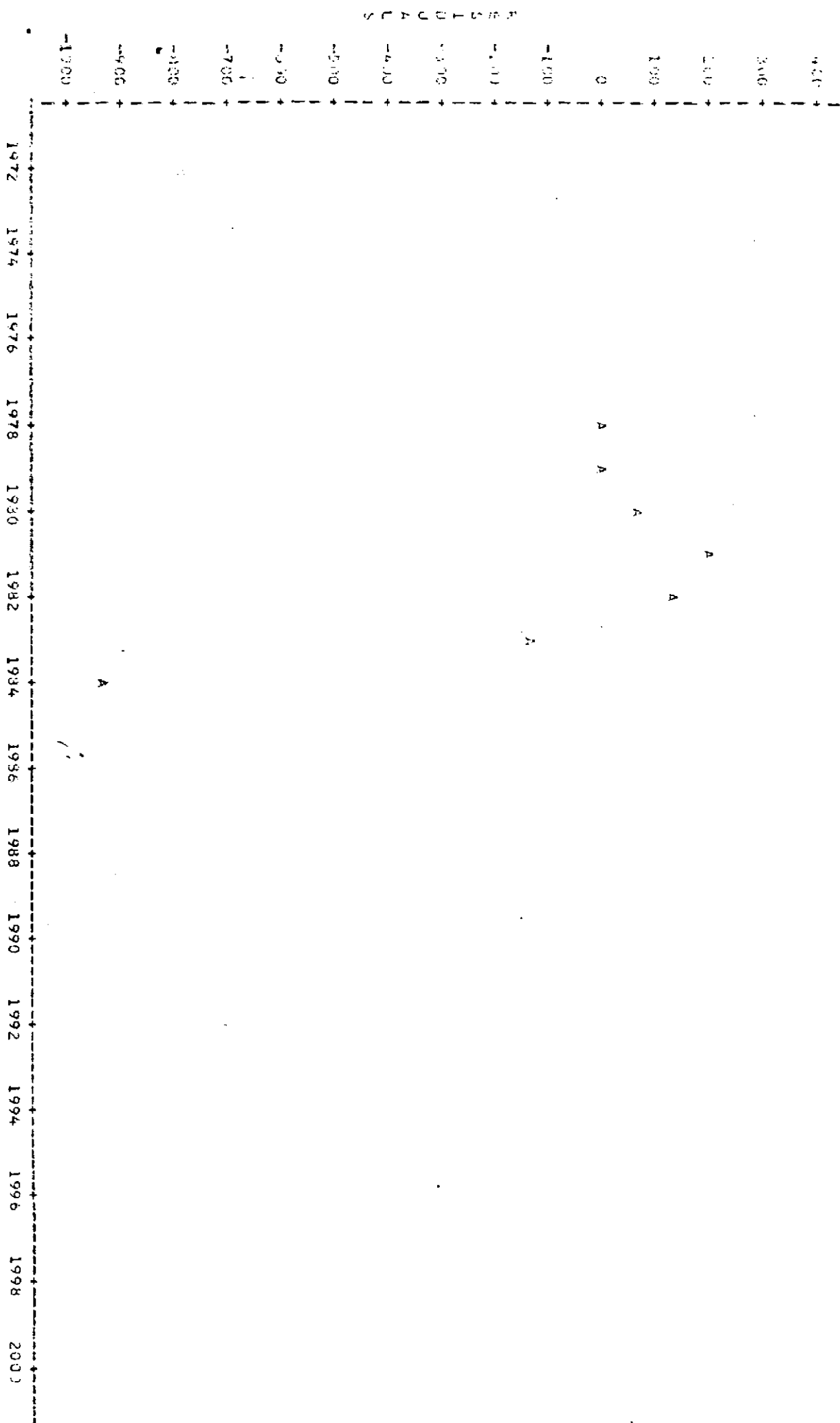
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 PLOT OF PREMANIO      SYMBOL USED IS P  
 PLOT OF 1934ANIO      SYMBOL USED IS L  
 PLOT OF 0954ANIO      SYMBOL USED IS U



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR INDUSTRIAL

ESTACION=LOCAL. AISLADAS

PLOT OF RESIDUANO LEGENDA: A = 1 OBS, B = 2 OBS, ETC.





## ESTACION=LOCAL. AISLADAS

PLOT GF INJUST#ANIO	SYMBOL USED IS O
PLOT GF PRED#ANIO	SYMBOL USED IS P
PLOT GF C95#ANIO	SYMBOL USED IS L
PLOT GF U95#ANIO	SYMBOL USED IS U

$$3.26670 \pm 14$$

2.5000E+14

$$2.5 \text{ CO} + 14$$

1-500000-14

71-60979-14

[illegible][illegible]

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

-----ESTACION=TOTAL PROVINCIAL-----

ANIO	TERCIA	PREC	L95	U95	RESID
1972	21865	22513	19183	26415	-648.3
1973	22841	24436	21085	28797	-1797.2
1974	24827	26964	23144	31414	-2136.6
1975	31719	29509	25393	34292	2210.5
1976	35341	32294	27941	37459	2747.3
1977	36023	35342	30502	40949	661.5
1978	39774	38477	33394	44797	1096.6
1979	43793	42328	36532	49044	1465.1
1980	51347	46323	39935	53733	5024.0
1981	50233	50655	43624	58913	-462.2
1982	51209	54480	47620	64637	-3271.0
1983	59417	60716	51948	70965	-1697.5
1984	63074	66447	56633	77962	-3373.2
1985	.	72719	61705	85698	.
1986	.	77582	67136	94252	.
1987	.	87094	73139	103711	.
1988	.	94314	79572	114170	.
1989	.	104810	86336	125734	.
1990	.	114155	94075	138521	.
1991	.	124930	102238	152656	.
1992	.	136721	111076	168287	.
1993	.	149625	120645	185666	.
1994	.	163748	131059	204668	.
1995	.	179203	142231	225784	.
1996	.	196117	154385	249127	.
1997	.	216627	167559	274931	.
1998	.	234484	181808	303456	.
1999	.	257354	197251	334987	.
2000	.	281316	213979	369642	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO

ESTACION=TOTAL PROVINCIAL

ANALYSIS OF VARIANCE

SOURCE	DF	CUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.48049293	1.48049293	357.977	0.0001
ERROR	11	0.04549295	0.004135723		
C TOTAL	12	1.52598593			

ROOT MSE 0.66430923 R-SQUARE 0.9702  
DEP MEAN 10.56501 ADJ R-SQ 0.9675  
C.V. 0.60982197

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEPT	1	-167.83655	9.42903119	-17.600	0.0001
MM13	1	0.09019169	0.004766944	18.920	0.0001

DATE	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1972	9.9926	10.0219	0.0337	9.9477	10.0960	9.6621	10.1917	-0.0292	0.0548
1973	10.0303	10.1121	0.0293	10.0465	10.1776	9.9561	10.2689	-0.0767	0.0570
1974	10.1197	10.2023	0.0261	10.1448	10.2597	10.0495	10.3550	-0.0346	0.0582
1975	10.3047	10.2924	0.0229	10.2421	10.3428	10.1422	10.4427	0.0722	0.0601
1976	10.4643	10.3626	0.0302	10.3381	10.4271	10.2342	10.5213	0.0816	0.0610
1977	10.6919	10.4723	0.0135	10.4322	10.5135	10.3256	10.6201	0.0191	0.0616
1978	10.5915	10.5635	0.0176	10.5239	10.6023	10.4161	10.7099	0.0260	0.0618
1979	10.5372	10.6534	0.0195	10.6125	10.6938	10.5059	10.8095	0.0340	0.0615
1980	10.8464	10.7434	0.0202	10.6939	10.7879	10.5950	10.8918	0.1030	0.0613
1981	10.3244	10.8336	0.0229	10.7233	10.8639	10.6834	10.9433	-0.0919	0.0601
1982	10.3536	10.9238	0.0261	10.8663	10.9812	10.7716	11.0765	-0.0606	0.0598
1983	10.9056	11.0149	0.0298	10.9484	11.0795	10.8580	11.1699	-0.0284	0.0570
1984	11.0521	11.1042	0.0337	11.0309	11.1784	10.9444	11.2640	-0.0521	0.0548
1985		11.1944	0.0379	11.1111	11.2776	11.0301	11.3586		
1986		11.2845	0.0421	11.1919	11.3772	11.1154	11.4537		
1987		11.3747	0.0465	11.2725	11.4770	11.2001	11.5494		
1988		11.4649	0.0509	11.3529	11.5770	11.2844	11.6454		
1989		11.5551	0.0554	11.4332	11.6770	11.3693	11.7419		
1990		11.6453	0.0599	11.5134	11.7772	11.4519	11.8383		

PROVINCIA DE LA PAMPA  
SÉRIES HISTÓRICAS DE ENERGÍA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO

ESTACION=TOTAL PROVINCIAL

035	13	ACTUAL	PREDICT VALUE	STD. ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD. ERR RESIDUAL
1	1961	.	11.7355	0.0545	11.5936	11.9774	11.5351	11.9360	.	.
21	1962	.	11.8457	0.0691	11.6737	11.9777	11.6136	12.0354	.	.
22	1963	.	11.9159	0.0737	11.7537	12.0781	11.7006	12.1312	.	.
23	1964	.	12.0091	0.0783	11.8337	12.1785	11.7839	12.2291	.	.
24	1965	.	12.0963	0.0833	11.9136	12.2789	11.8652	12.3273	.	.
25	1966	.	12.1859	0.0879	11.9936	12.3794	11.9472	12.4257	.	.
26	1967	.	12.2767	0.0923	12.0735	12.4798	12.0290	12.5243	.	.
27	1968	.	12.3663	0.0970	12.1534	12.5803	12.1107	12.6230	.	.
28	1969	.	12.4570	0.1017	12.2332	12.6808	12.1922	12.7219	.	.
29	1970	.	12.5472	0.1064	12.3131	12.7814	12.2736	12.8203	.	.

035 10 51 JUEVE  
RESIDUAL -2-1-0 1 2

COOK'S  
0

1	1972	-0.5535	*	0.054
2	1973	-1.3417	**	0.241
3	1974	-1.4297	**	0.195
4	1975	1.2716	**	0.104
5	1976	1.3375	**	0.093
6	1977	0.3100	.	0.004
7	1978	0.4525	.	0.009
8	1979	0.5524	.	0.014
9	1980	1.6307	*	0.156
10	1981	-0.1524	**	0.002
11	1982	-1.0340	**	0.106
12	1983	-0.6980	.	0.034
13	1984	-0.9513	*	0.171
14	1985	.	.	.
15	1986	.	.	.
16	1987	.	.	.
17	1988	.	.	.
18	1989	.	.	.
19	1990	.	.	.
20	1991	.	.	.
21	1992	.	.	.
22	1993	.	.	.
23	1994	.	.	.
24	1995	.	.	.
25	1996	.	.	.
26	1997	.	.	.
27	1998	.	.	.
28	1999	.	.	.
29	2000	.	.	.

SUM OF RESIDUALS -6.94579E-13  
SUM OF SQUARED RESIDUALS 0.04549295  
PREDICTED RESID 55 (PAREO) 0.06330532

1001 00000 AUTOCORRELATION 0.0001

PROVINCIA DE LA PAMPA  
SECRETARIA DE ECONOMIA Y FINANZAS (SEEF)  
MODELO EXPOSICIONAL  
SECTOR TERCIARIO

ESTACION=TOTAL PROVINCIAL

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENFAGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCIARIO

ESTACION=TOTAL PROVINCIAL

PLOT DE RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.

R E S I D U O S



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACION=TOTAL PROVINCIAL

PLT OF TERCARIO  
 PLT OF PRODANIO  
 PLT OF URSANIO  
 PLT OF URSANIO

SYMBOL USED IS O  
 SYMBOL USED IS P  
 SYMBOL USED IS L  
 SYMBOL USED IS U

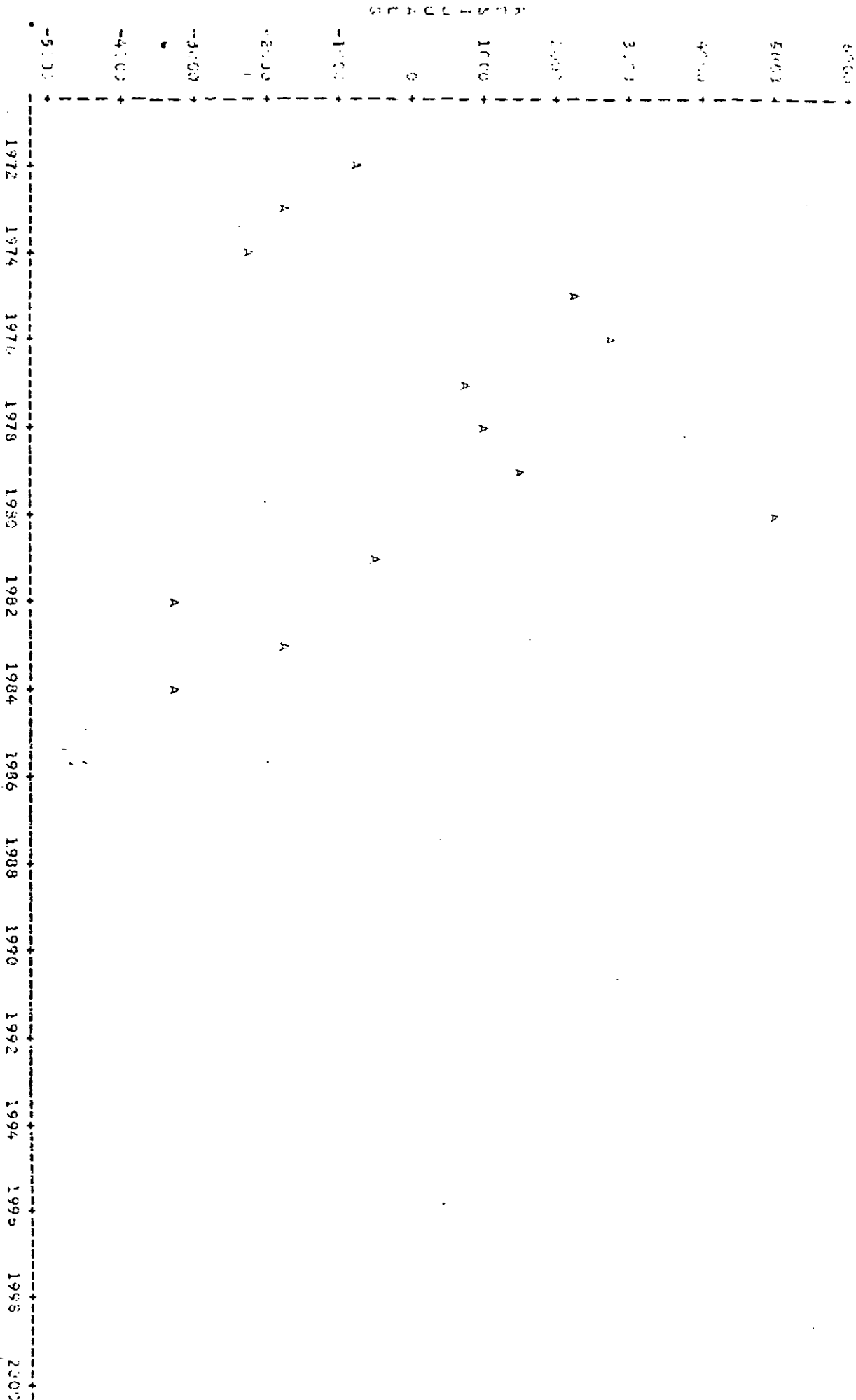
1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACION=TOTAL PROVINCIAL

PLOT OF RESIDUANO LEGEND: A = 1.035, B = 2.035, ETC.





ESTACION=TOTAL		PROVINCIAL
PL01 04-170312+AN10	SYMBOL USED IS 0	
PL02 06-170312+AN10	SYMBOL USED IS 0	
PL03 04-170312+AN10	SYMBOL USED IS 0	
PL04 04-170312+AN10	SYMBOL USED IS 0	

Year	U	P	L
1972	U		
1974	U		
1976	U		
1978	U		
1980	U		
1982	U		
1984	U		
1986	U		
1988	U		
1990	U		
1992	U		
1994	U		
1996	U		
1998	U		
2000	U		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=REALICO

ANIO	TERCIA	PRED	LYS	U45	RESID
1972	1444	1611.2	1361.1	1903.5	-167.17
1973	1835	1774.2	1503.8	2093.1	30.85
1974	1975	1953.6	1661.6	2297.0	-38.62
1975	2179	2151.3	1834.6	2522.5	27.75
1976	2487	2363.9	2024.2	2772.3	118.13
1977	2870	2658.5	2231.6	3049.1	261.49
1978	2993	2872.4	2453.3	3356.2	120.62
1979	3604	3103.0	2705.9	3697.2	301.05
1980	3336	3432.9	2970.1	4076.1	-146.91
1981	3756	3805.2	3273.7	4497.2	-79.24
1982	3761	4223.2	3591.9	4965.5	-462.22
1983	4752	4650.4	3941.8	5486.4	101.55
1984	5180	5120.5	4323.0	6066.0	-40.87
1985	.	5638.9	4736.1	6711.0	.
1986	.	6209.3	5190.1	7428.7	.
1987	.	6337.5	5692.2	8227.6	.
1988	.	7529.1	6210.1	9116.6	.
1989	.	8293.3	6801.6	10106.0	.
1990	.	9129.5	7437.0	11207.1	.
1991	.	10053.3	8127.9	12432.6	.
1992	.	11070.3	8982.4	13796.3	.
1993	.	12109.3	9703.0	15313.9	.
1994	.	13422.9	10596.6	17062.0	.
1995	.	14780.8	11570.2	18882.2	.
1996	.	16276.0	12632.5	20973.6	.
1997	.	17922.2	13705.4	23301.0	.
1998	.	19735.5	15143.5	25890.9	.
1999	.	21731.9	16413.9	28773.1	.
2000	.	23930.3	17926.6	31980.3	.

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MWH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO

ESTACION=REALICO

REP. DE CLASE: REGIA

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.69035334	1.69035334	363.793	0.0001
ERROR	11	0.05119201	0.00464509		
C TOTAL	12	1.74154535			

ROOT MSE 0.0681587 R-SQUARE 0.9707  
DEP MEAN 7.902897 ADJ R-SQ 0.9680  
C.V. 0.0559561

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEPT	1	-182.64482	9.99341619	-18.277	0.0001
ANIO	1	0.09636301	0.005052174	19.075	0.0001

ANOS	ID	ACTUAL	PREDICT VALUE	STU ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	7.2752	7.3367	0.0357	7.3061	7.4633	7.2153	7.5541	-0.1095	0.0580
2	1973	7.4983	7.4811	0.0316	7.4116	7.5505	7.3153	7.5464	0.0172	0.0574
3	1974	7.5670	7.5774	0.0277	7.5195	7.6383	7.4155	7.7394	-0.0305	0.0623
4	1975	7.6866	7.6738	0.0242	7.6205	7.7271	7.5146	7.8330	0.0128	0.0637
5	1976	7.8189	7.7702	0.0214	7.7230	7.8173	7.6129	7.9274	0.0487	0.0647
6	1977	7.9621	7.8665	0.0199	7.8235	7.9096	7.7105	8.0226	0.0955	0.0653
7	1978	8.0040	7.9629	0.0189	7.9213	8.0045	7.8072	8.1186	0.0411	0.0655
8	1979	8.1514	8.0592	0.0196	8.0162	8.1023	7.9032	8.2153	0.0909	0.0653
9	1980	8.1155	8.1550	0.0214	8.1084	8.2028	7.9934	8.3129	-0.0431	0.0647
10	1981	8.2311	8.2521	0.0242	8.1987	8.3053	8.0928	8.4112	-0.0109	0.0637
11	1982	8.3224	8.3484	0.0277	8.2874	8.4093	8.1866	8.5103	-0.0159	0.0623
12	1983	8.4553	8.4447	0.0316	8.3753	8.5142	8.2794	8.6100	0.0216	0.0604
13	1984	8.5331	8.5411	0.0357	8.4624	8.6197	8.3717	8.7105	-0.08013	0.0580
14	1985		8.6374	0.0401	8.5492	8.7257	8.4634	8.9115		
15	1986		8.7338	0.0446	8.6356	8.8320	8.5545	8.9131		
16	1987		8.8302	0.0492	8.7218	8.9386	8.6451	9.0152		
17	1988		8.9265	0.0539	8.8078	9.0453	8.7332	9.1179		
18	1989		9.0229	0.0587	8.8937	9.1521	8.8249	9.2209		
19	1990		9.1193	0.0635	8.9795	9.2590	8.9142	9.3243		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO

ESTACION=REALICO

195	10	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWF95% MEAN	UPPER95% MEAN	LOWF95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1971	9.2150	0.0635	9.0652	9.3661	9.0032	9.4281	.	.	.
2	1972	9.3120	0.0732	9.1508	9.4731	9.0718	9.5322	.	.	.
3	1973	9.4084	0.0781	9.2364	9.5803	9.1802	9.6365	.	.	.
4	1974	9.5047	0.0830	9.3229	9.6874	9.2883	9.7411	.	.	.
5	1975	9.6011	0.0879	9.4075	9.7946	9.3562	9.8460	.	.	.
6	1976	9.6974	0.0929	9.4930	9.9019	9.4439	9.9510	.	.	.
7	1977	9.7938	0.0978	9.5785	10.0091	9.5314	10.0563	.	.	.
8	1978	9.8902	0.1028	9.6639	10.1164	9.6197	10.1610	.	.	.
9	1979	9.9865	0.1075	9.7493	10.2237	9.7059	10.2672	.	.	.
10	1980	10.0829	0.1127	9.8347	10.3311	9.7929	10.3729	.	.	.

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RESIDUAL  
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COOK'S  
D

1	1971	-1.8571	***	0.674
2	1972	0.2953		0.611
3	1973	-0.4891		0.024
4	1974	0.2012		0.003
5	1975	0.7521	*	0.031
6	1976	1.4532	**	0.096
7	1977	2.5262	*	0.616
8	1978	1.3023	**	0.037
9	1979	-0.6651		0.024
10	1980	-0.3577	#	0.008
11	1981	-1.0579	***	0.342
12	1982	0.3570		0.017
13	1983	-0.1581		0.004

SUM OF RESIDUALS  
SUM OF SQUARED RESIDUALS  
PREDICTED RESID SS (1985-9)

-3.7439E-13  
0.061102  
0.073398-1

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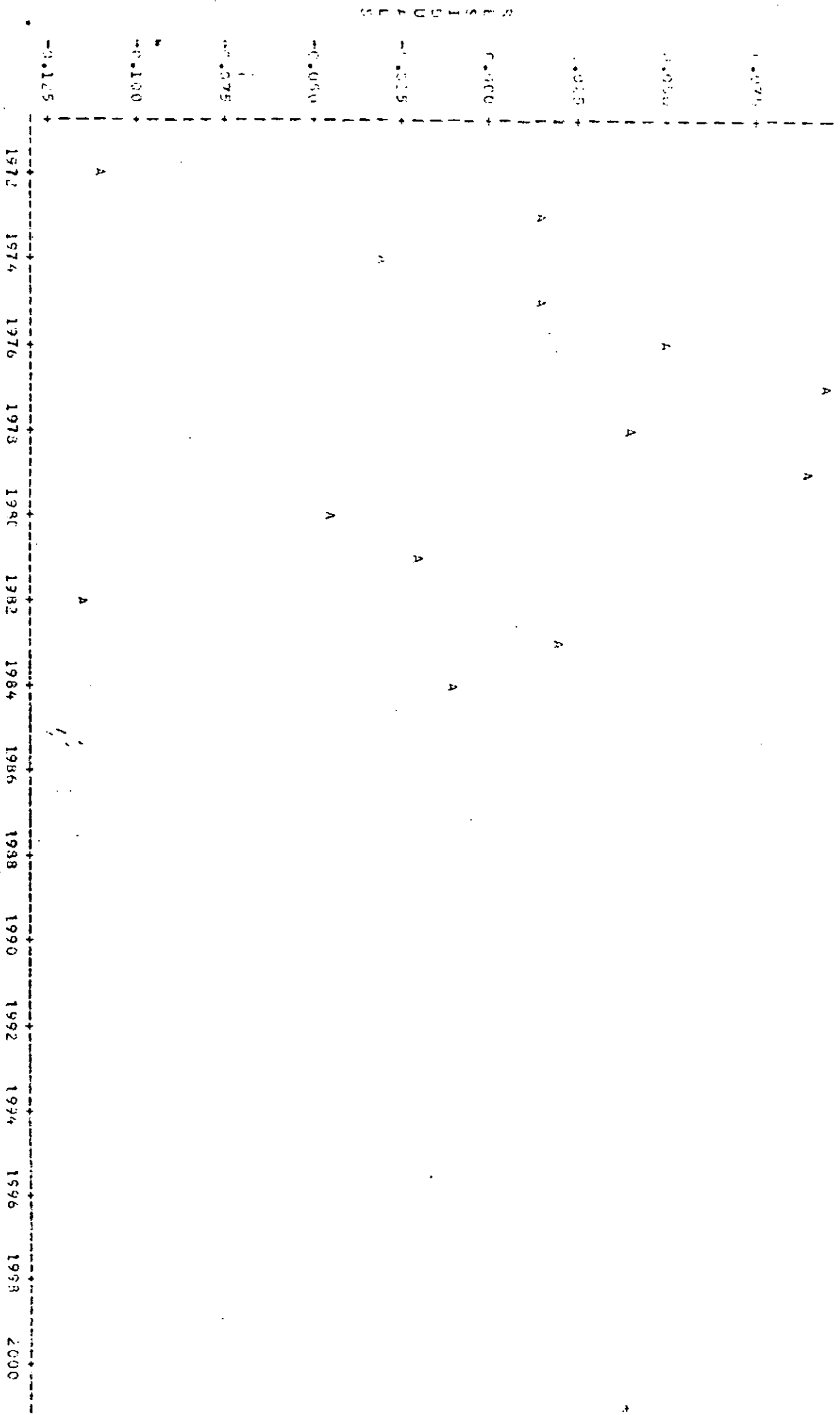
MSI 10334 601006R-LATIN 3.1.24

PROVINCIA DE LA PAMPA  
SERIES HISTÓRICAS DE ENERGÍA (MWH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO  
ESTACION=REALICO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCIARIO

ESTACION=REALICO

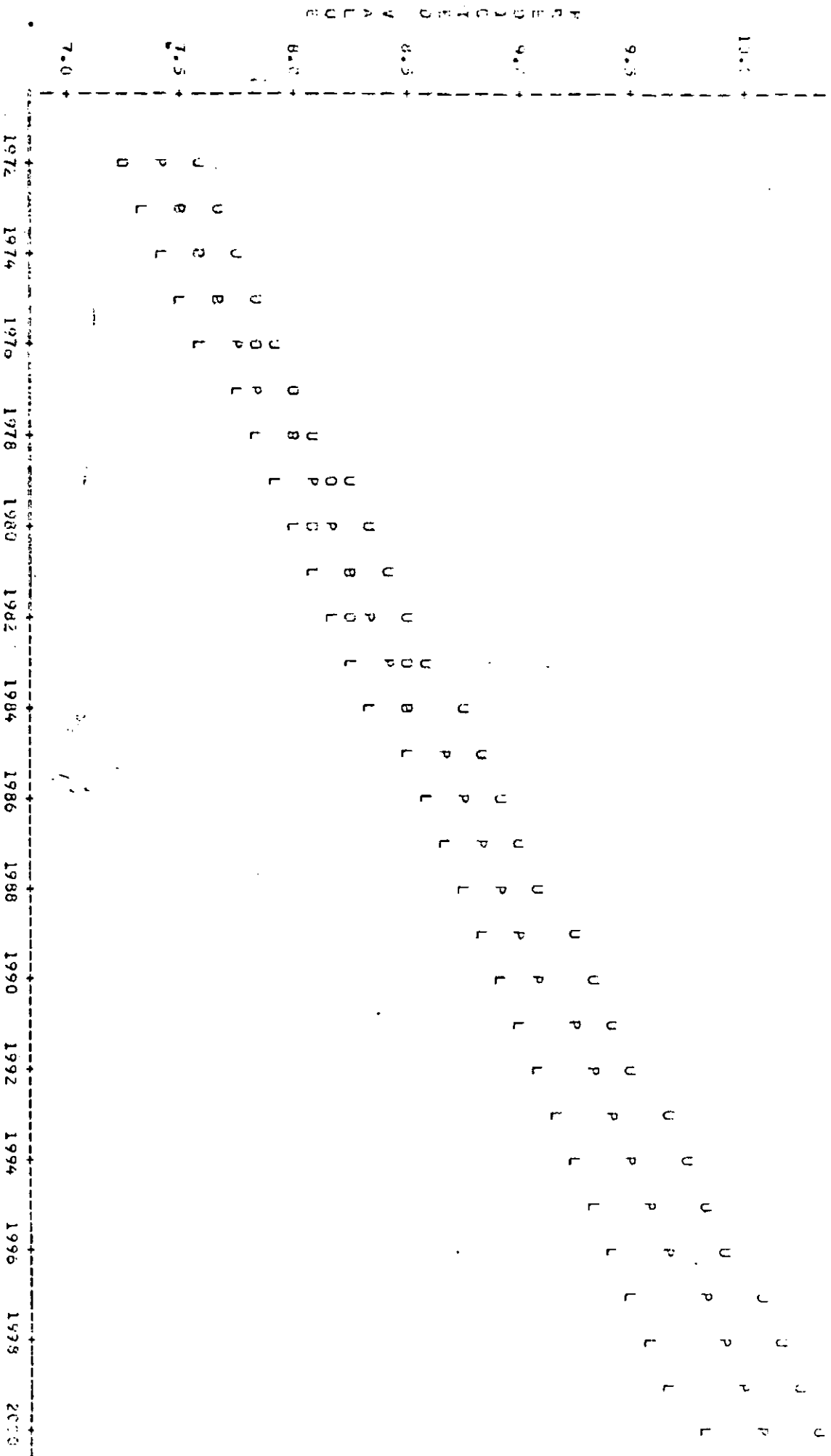
PLOT OF RESIDU\*ANID      LEGEND: A = 1 OBS, B = 2 OBS, ETC.



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR RERLIARIO

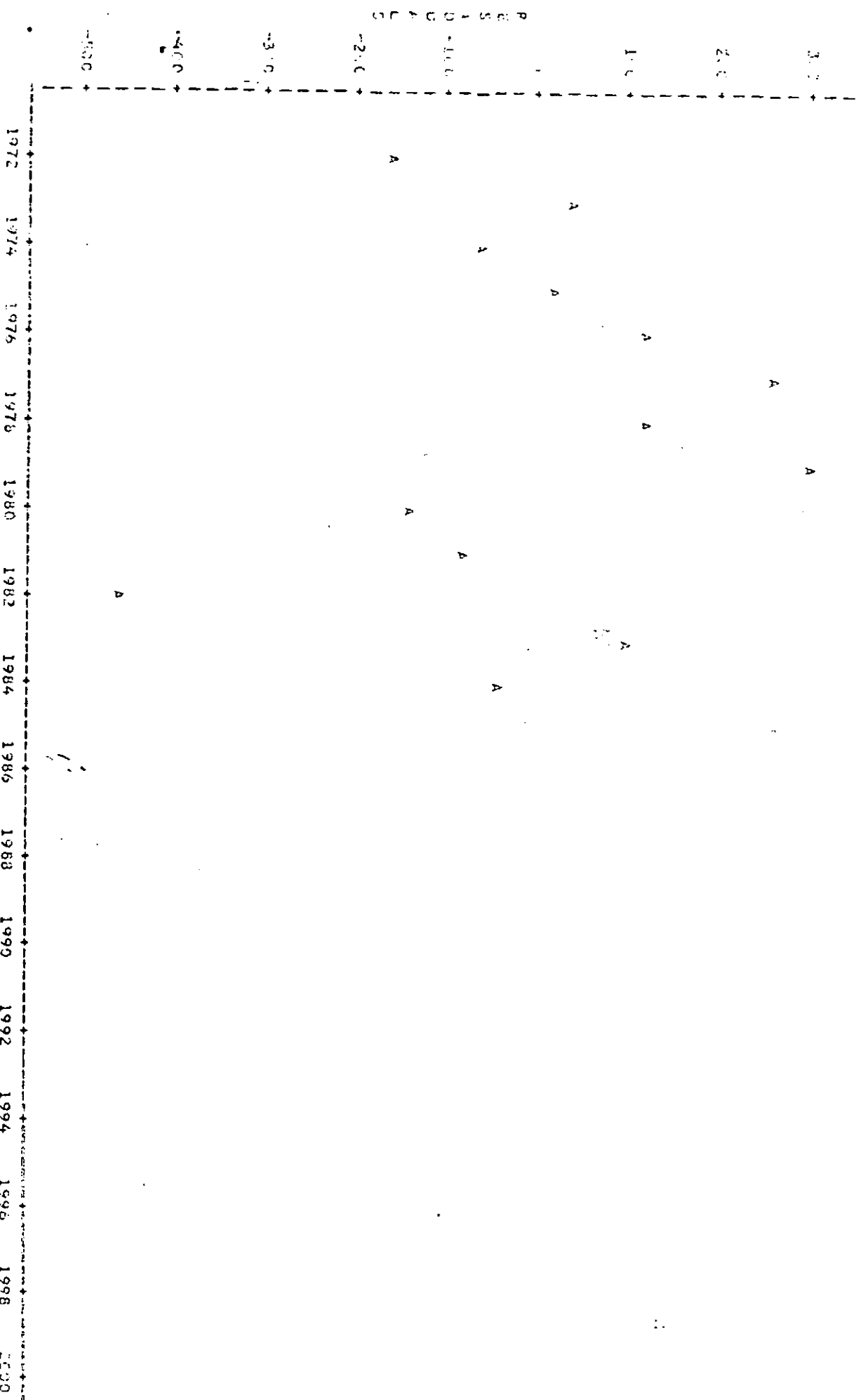
ESTACION=ITALCO

PLOT OF TERCIANIO SYMBOL USED IS U  
 PLOT OF PREDICADO SYMBOL USED IS P  
 PLOT OF URSANIO SYMBOL USED IS L  
 PLOT OF URSANIO SYMBOL USED IS U



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR TERCIARIO  
 ESTACION=REALICO

PLOT OF RESID=ANIO      LEGEND: A = 1 OBS, B = 2 OBS, ETC.

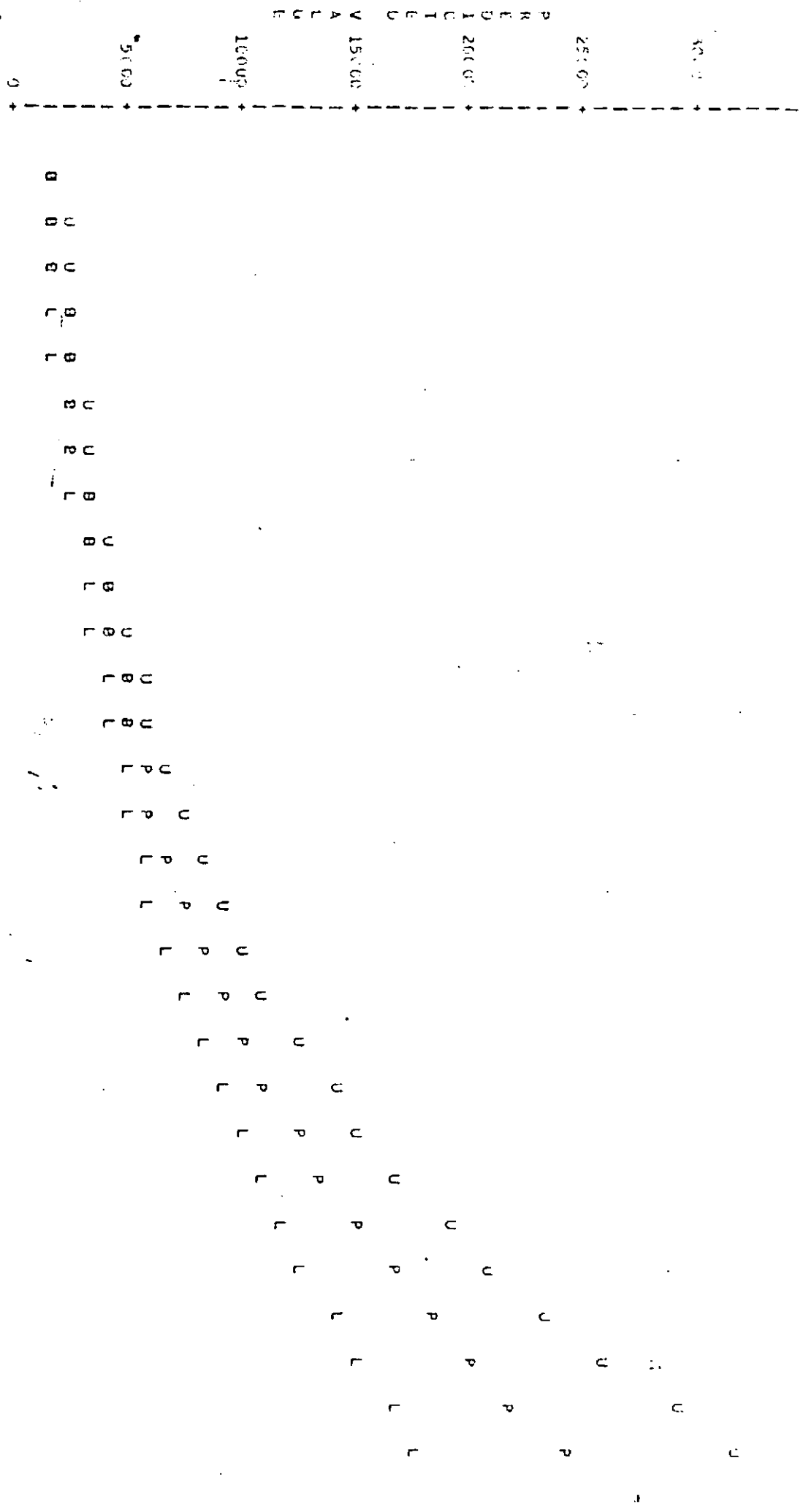




PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCIARIO

ESTACION=REALICO

PLOT OF TERCIAARIO      SYMBOL USED 15 0  
 PLOT OF PREDICARIO      SYMBOL USED 15 P  
 PLOT OF 1954-1910      SYMBOL USED 15 L  
 PLOT OF 0954-1910      SYMBOL USED 15 U



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPERIENCIAL  
SECTOR TERCIARIO

ANIO	TERCIA	PRED	L95	U95	RESID
1972	6392	6825.9	5355.7	8599.9	-443.9
1973	4587	7335.8	5820.5	9360.0	-799.8
1974	7379	7992.7	6339.3	10079.8	-614.7
1975	9309	8650.4	6885.6	10865.9	658.0
1976	13878	9361.1	7473.3	11725.8	1515.9
1977	10593	10130.3	8101.1	12667.7	462.7
1978	11983	10962.0	8771.0	13700.7	1020.4
1979	12446	11803.2	9480.9	14334.3	584.3
1980	14439	12537.9	10249.7	16080.9	1501.1
1981	12712	13899.7	11060.0	17450.9	-1180.7
1982	13138	15024.1	11922.6	18957.7	-1896.1
1983	16019	16269.3	12839.5	20515.4	-250.3
1984	17225	17603.0	13613.7	22459.4	-381.0
1985	.	19052.5	14848.0	24446.4	.
1986	.	20617.9	15945.4	26554.5	.
1987	.	22311.9	17116.3	29083.9	.
1988	.	24146.0	18358.2	31755.9	.
1989	.	26138.8	19677.7	34694.9	.
1990	.	28275.5	21080.2	37926.9	.
1991	.	30593.7	22571.6	41480.4	.
1992	.	33112.7	24157.0	45367.4	.
1993	.	35835.2	25844.0	49682.3	.
1994	.	38777.3	27639.4	54403.3	.
1995	.	41963.2	29549.5	59592.3	.
1996	.	45410.9	31581.9	65295.4	.
1997	.	49141.9	33745.4	71563.0	.
1998	.	53179.4	36048.6	78451.0	.
1999	.	57543.7	38500.7	86020.4	.
2000	.	62276.9	41111.6	94338.5	.

DEP VARIABLE: DEP10

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE EMERGENCIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO  
ESTACION=GRAL. PICO

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.13469211	1.13469211	119.078	0.0001
ERROR	11	0.1061074	0.00964607		
C TOTAL	12	1.2408000			
ROOT MSE		0.09771443	R-SQUARE	C.9154	
DEP MEAN		4.372241	ADJ R-SQ	0.9077	
C.V.		1.049397			

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0: PARAMETER=0	PROB >  T
INTERCEP	1	-146.87927	14.31246711	-10.262	0.0001
ANIO	1	0.07895931	0.007235815	10.912	0.0001

U35	U3	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1972	8.7912	8.6285	0.0912	8.7159	8.9411	8.5859	9.0711	-0.0672	0.0931
2	1973	8.7929	8.9074	0.2452	8.8080	9.0069	8.6707	9.1442	-0.1114	0.0805
3	1974	8.9064	8.9864	0.0596	8.8992	9.0736	8.7545	9.2193	-0.0800	0.0692
4	1975	9.1387	9.0654	0.0747	8.9890	9.1417	8.0373	9.2934	0.0734	0.0912
5	1976	9.2945	9.1443	0.0307	9.0768	9.2119	8.9191	9.3695	0.1502	0.0927
6	1977	9.2679	9.2233	0.0280	9.1616	9.2850	8.9997	9.4469	0.0447	0.0935
7	1978	9.3912	9.3822	0.0271	9.2427	9.3618	9.0793	9.5252	0.0890	0.0938
8	1979	9.4293	9.3812	0.0280	9.3195	9.4429	9.1577	9.5647	0.0447	0.0935
9	1980	9.5777	9.4102	0.0507	9.3926	9.5277	9.2349	9.6854	0.1175	0.0927
10	1981	9.4503	9.5391	0.0347	9.4627	9.6155	9.3111	9.7671	-0.0838	0.0912
11	1982	9.4333	9.6181	0.0396	9.5308	9.7053	9.3862	9.8500	-0.1346	0.0892
12	1983	9.6315	9.6977	0.0452	9.5976	9.7965	9.4603	9.9338	-0.0155	0.0865
13	1984	9.7541	9.7765	0.0312	9.6634	9.8866	9.5334	10.0186	-0.0219	0.0821
14	1985		9.8550	0.0574	9.7285	9.9814	9.6057	10.1042		
15	1986		9.9534	0.0639	9.7933	10.0746	9.6771	10.1907		
16	1987		10.0129	0.0705	9.8575	10.1681	9.7478	10.2779		
17	1988		10.0913	0.0773	9.9218	10.2619	9.8178	10.3658		
18	1989		10.1708	0.0841	9.9857	10.3558	9.8872	10.4543		
19	1990		10.2496	0.0910	10.0496	10.4499	9.9561	10.5434		



LISTA DE SUBORDINADOS 1965

PROVINCIA DE LA PAMPA  
SERIES HIDRÓGRAFICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO  
VESTIACION=GRAL. PICO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR TERCIARIO

ESTACION=GRAL. PICO

PLOT OF RESIDUANO      LEGEND: A = 1.035, B = 2.065, ETC.



## ESTACILIN=63AL. PICO

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PLOT OF TERCIA*ANIO          SYABOL USED IS 3
PLOT OF PRSD*ANIO          SYABOL USED IS P
PLOT OF LQSVANIO          SYABOL USED IS L
PLOT OF Q3*ANIO          SYABOL USED IS U

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[illegible]

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACION=GRAL. PICO

PLOT OF RESIDU+ANIO      LEGEND: A = 1 OBS, 3 = 2 OBS, ETC.

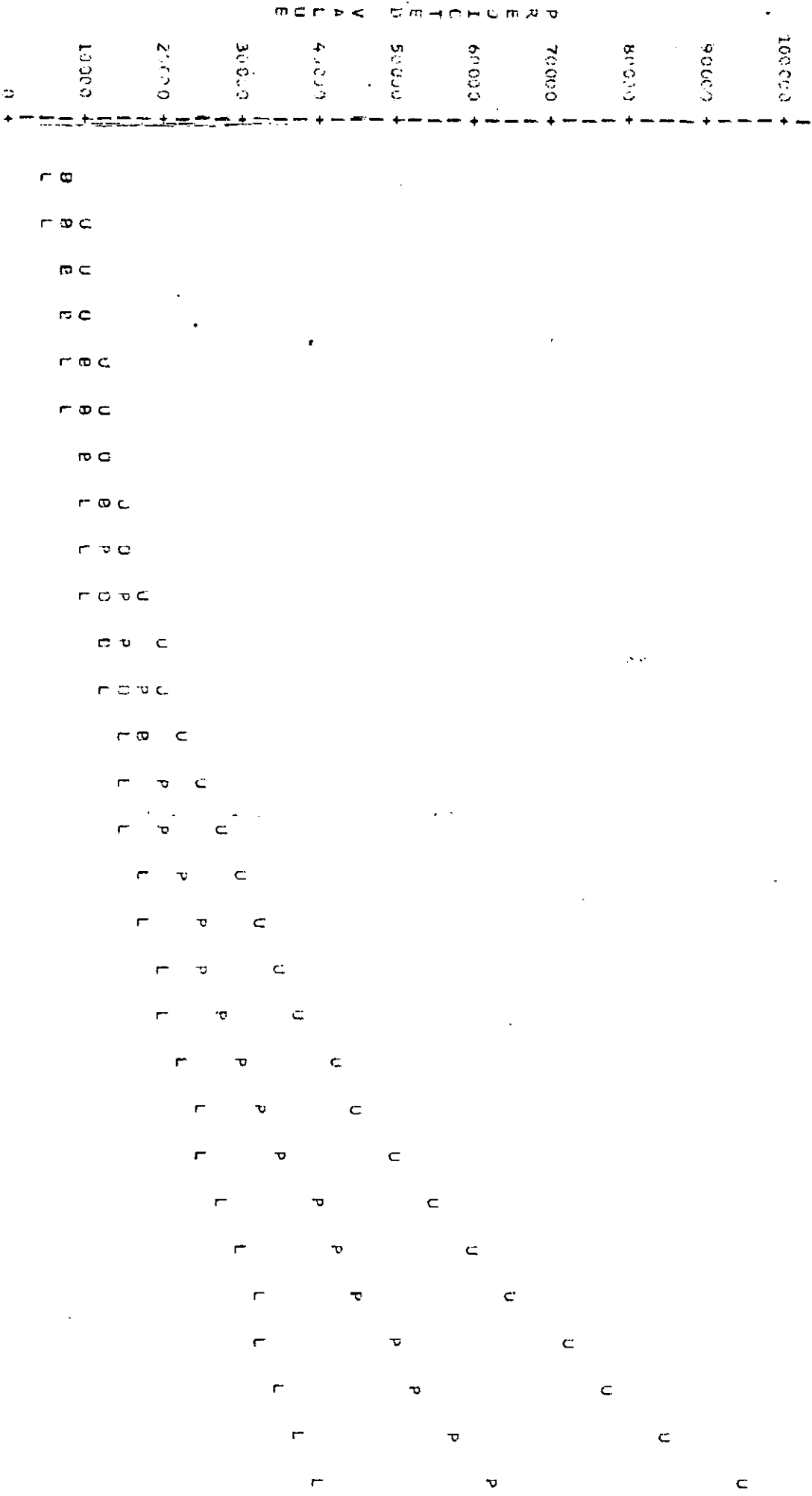




PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=GRAL. PICO

PLOT OF FERCI\*ANIO SYMBOL USED IS O  
PLOT OF PRED\*ANIO SYMBOL USED IS P  
PLOT OF L95\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=SANIA ROSA

ANIO	TERCIA	FRED	L79	U95	RESID
1972	11496	11537	9493.0	13534	-139.4
1973	11579	11564	10450.3	14751	-95.3
1974	12427	12782	11845.9	16034	-1354.9
1975	16457	14992	12923.8	17405	1450.9
1976	17583	16122	14090.0	18907	1206.3
1977	17712	17762	15358.4	20553	210.0
1978	19894	19329	16711.2	22358	564.5
1979	21855	21035	18172.2	24340	819.8
1980	24465	22892	19761.6	26517	1573.5
1981	25324	24912	21460.2	28910	412.4
1982	26109	27110	23301.7	31541	-1001.0
1983	23097	24592	25177.5	34433	-1405.4
1984	30655	32106	27405.9	37615	-1450.9
1985	.	34939	29692.0	41114	.
1986	.	38622	32154.0	44962	.
1987	.	41378	34803.3	49194	.
1988	.	45029	37654.2	53849	.
1989	.	49093	40722.3	58967	.
1990	.	53327	44024.5	64596	.
1991	.	58153	47579.0	70785	.
1992	.	63155	51405.4	77589	.
1993	.	68728	55525.0	85070	.
1994	.	74793	59960.6	93294	.
1995	.	81395	64735.9	102335	.
1996	.	88575	69380.0	112273	.
1997	.	96392	75419.0	123198	.
1998	.	104896	81384.3	135207	.
1999	.	114155	87309.1	148407	.
2000	.	124229	94729.1	162915	.

DEP VARIABLE: TERCIA

PROVINCIA DE LA PAJPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIAHIO  
ESTACION=SANIA ROSA

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.33162113	1.33162113	320.535	0.0001
ERROR	11	0.0466350	0.00423955		
C TOTAL	12	1.36825613			

ROUT MSE 0.00372413 R-SQUARE 0.9668  
DEP MEAN 9.359185 ADJ R-S 0.9638  
C.V. 0.6456753

PARAMETER ESTIMATES

VARIABLE	OF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEP	1	-157.40633	9.34320096	-16.847	0.0001
LN10	1	0.008456311	0.004723551	17.904	0.0001

ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1974	9.3640	0.0334	9.2865	9.4435	9.2036	9.5203	-0.0120	0.0343
2	1973	9.2655	0.0295	9.3016	9.5115	9.2920	9.6011	-0.0010	0.0565
3	1974	9.4271	0.0259	9.4742	9.5881	9.3797	9.6925	-0.1035	0.0562
4	1975	9.6157	0.0227	9.5554	9.6655	9.4668	9.7645	0.0928	0.0596
5	1975	9.7700	0.0200	9.6561	9.7444	9.5532	9.8473	-0.0747	0.0595
6	1977	9.7966	0.0183	9.7466	9.8251	9.6389	9.9307	-0.0113	0.0610
7	1975	9.8964	0.0177	9.8305	9.9083	9.7238	10.0149	0.0284	0.0612
8	1979	9.9932	0.0183	9.9137	9.9942	9.8080	10.0999	0.0865	0.0605
9	1983	10.1050	0.0200	9.9944	10.0926	9.9742	10.2719	0.0164	0.0596
10	1981	10.1391	0.0227	10.0732	10.1730	9.9742	10.2719	-0.0376	0.0592
11	1984	10.1700	0.0259	10.1507	10.2646	10.0563	10.3590	-0.0438	0.0565
12	1985	10.2634	0.0295	10.2273	10.3572	10.1377	10.4464	-0.0462	0.0543
13	1984	10.3768	0.0334	10.3033	10.4503	10.2184	10.5351		
14	1985	10.4614	0.0375	10.3786	10.5439	10.2986	10.6241		
15	1985	10.5459	0.0417	10.4541	10.6378	10.3783	10.7136		
16	1986	10.6305	0.0460	10.5292	10.7318	10.4575	10.8035		
17	1988	10.7151	0.0504	10.6041	10.8251	10.5362	10.8934		
18	1989	10.7996	0.0549	10.6786	10.9204	10.6145	10.9847		
19	1990	10.8843	0.0594	10.7535	11.0149	10.6925	11.0759		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIALIJO

ASOCIACION=SANJA RUSA

	1.	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
21	1992	.	10.9535	0.0939	10.5281	11.1094	10.7701	11.1674	.	.
21	1991	.	11.0533	0.1005	10.9027	11.2040	10.8475	11.2592	.	.
21	1990	.	11.1379	0.0730	10.9772	11.2986	10.9246	11.3512	.	.
21	1989	.	11.2225	0.0776	11.0516	11.3933	11.0014	11.4433	.	.
21	1988	.	11.3070	0.0822	11.1261	11.4880	11.0781	11.5303	.	.
21	1987	.	11.3915	0.0868	11.2005	11.5827	11.1543	11.6207	.	.
21	1986	.	11.4752	0.0915	11.2749	11.6775	11.2308	11.7215	.	.
21	1985	.	11.5507	0.0961	11.3492	11.7723	11.3069	11.8145	.	.
21	1984	.	11.6252	0.1008	11.4236	11.8671	11.3829	11.9077	.	.
21	1983	.	11.7099	0.1054	11.4979	11.9619	11.4588	12.0010	.	.

1985  
12  
RESIDUAL  
-2-1-0 1 2

COOK'S  
D

1	1972	-0.2220			0.009
2	1973	-1.4340		**	0.280
3	1974	-1.7770		***	0.212
4	1975	1.5585		***	0.176
5	1976	1.2333		**	0.054
6	1977	0.1925			0.002
7	1978	0.4702			0.009
8	1979	0.6253		*	0.018
9	1980	1.0989		**	0.066
10	1981	0.2750			0.005
11	1982	-0.6461		*	0.041
12	1983	-0.8641		*	0.102
13	1984	-0.8521		*	0.138
14	1985	.			.
15	1986	.			.
16	1987	.			.
17	1988	.			.
18	1989	.			.
19	1990	.			.
20	1991	.			.
21	1992	.			.
22	1993	.			.
23	1994	.			.
24	1995	.			.
25	1996	.			.
26	1997	.			.
27	1998	.			.
28	1999	.			.
29	2000	.			.

SUM OF RESIDUALS

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SUM OF SQUARED RESIDUALS

0.0446685

PREDICTED RESID SS (PRESS)

0.00364492

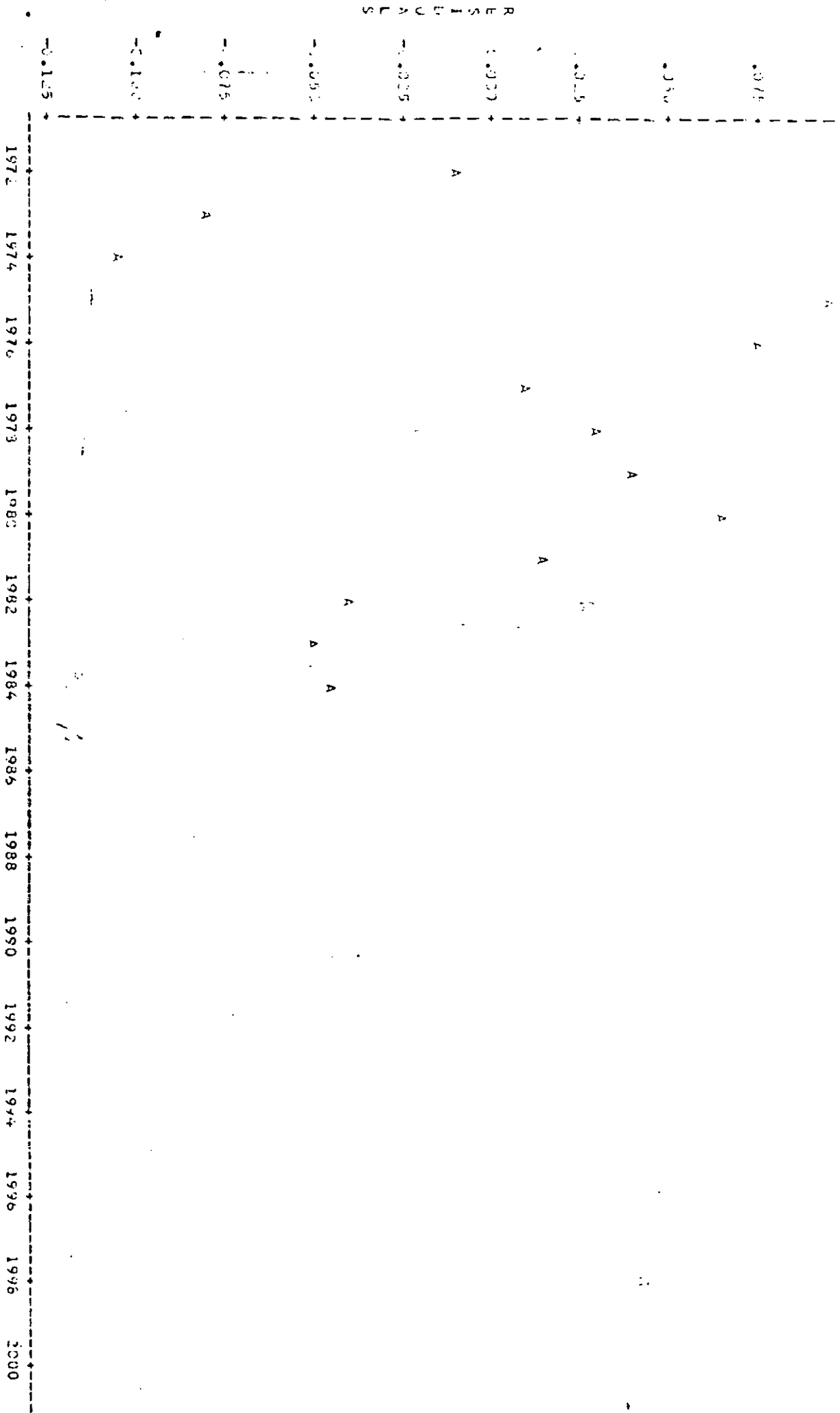
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PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO  
ESTACION=SANTA ROSA

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (WHH)  
 MODELO EXPONENCIAL  
 SECTOR TERCERARIO

ESTACION=SANITA ROSA

PLCI OF RESIDUANO LEVEND: A = 1.035, B = 2.045, ETC.

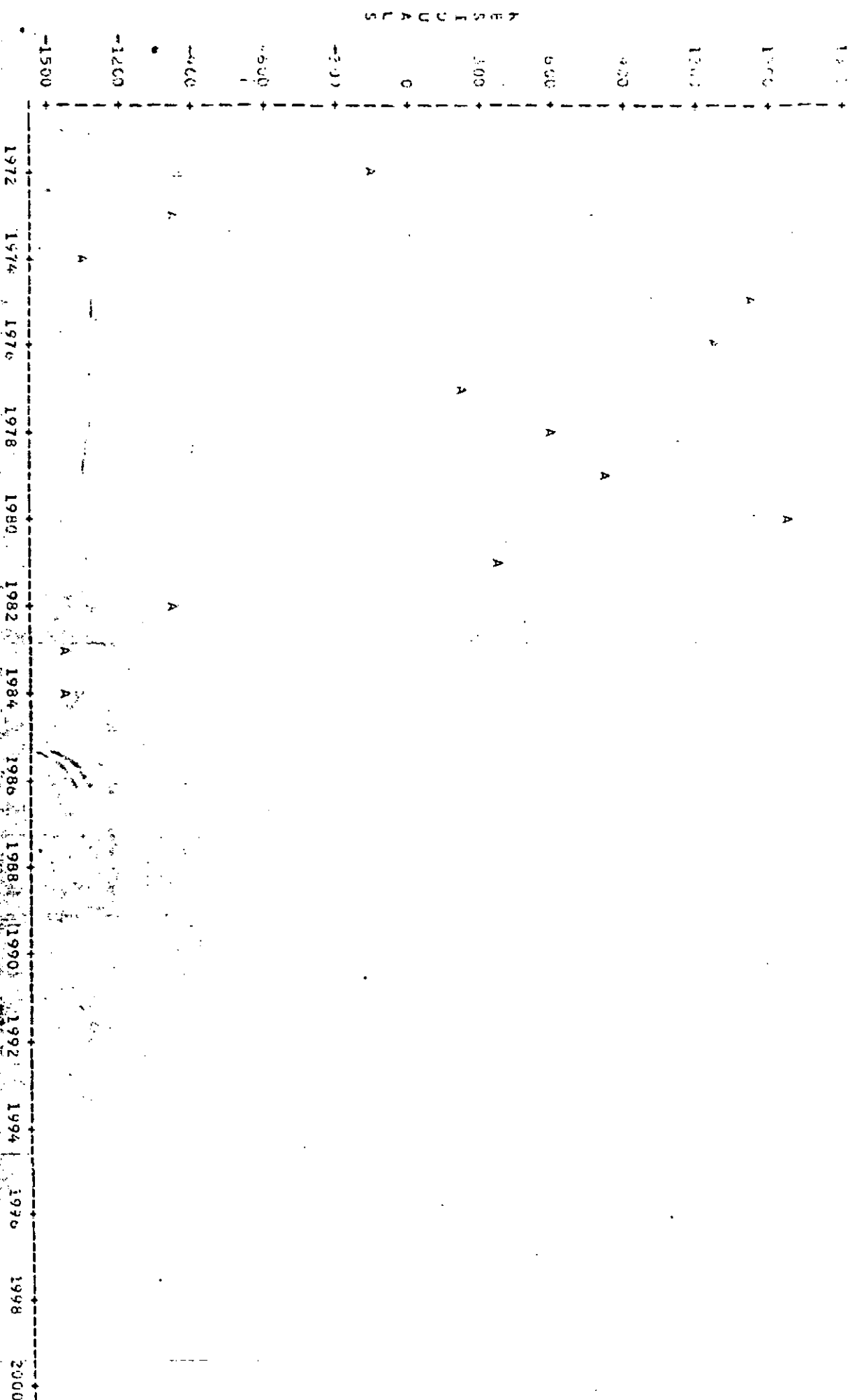




PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=SAVIA RUSA

PLOT OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.





## ESTACION=SANTA ROSA

SYN3DL USED IS 2  
SYN3DL USED IS 4  
SYN3DL USED IS 1  
SYN3DL USED IS 0

[illegible]

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=SERAL ACHA

ANIO	TERCIA	PREO	95	95	RESID
1976	894	616.6	591.16	1141.9	79.37
1977	956	637.4	645.39	1247.7	58.63
1978	1065	904.5	715.79	1365.2	76.49
1979	1178	1000.9	752.73	1495.8	89.69
1976	924	1149.2	876.55	1641.3	-275.51
1977	1092	1321.3	987.97	1803.7	-229.34
1978	1400	1455.5	1067.13	1985.3	-255.54
1979	1747	1673.4	1174.59	2186.7	143.62
1980	4019	1766.2	1290.33	2416.7	252.77
1981	2105	1945.6	1416.41	2672.6	159.38
1982	2299	2143.2	1591.91	2959.9	155.77
1983	2393	2360.9	1697.97	3282.7	-57.91
1984	2579	2600.7	1855.34	3645.5	-21.70
1985	.	2864.8	2024.79	4053.4	.
1986	.	3155.8	2207.22	4512.1	.
1987	.	3476.3	2473.59	5027.9	.
1988	.	3829.4	2674.97	5607.9	.
1989	.	4218.4	2842.50	6260.2	.
1990	.	4645.6	3087.46	6993.7	.
1991	.	5118.8	3351.19	7818.6	.
1992	.	5636.6	3635.19	8746.3	.
1993	.	6211.3	3941.05	9789.5	.
1994	.	6842.2	4270.49	10962.6	.
1995	.	7537.1	4625.37	12281.9	.
1996	.	8302.7	5007.71	13765.6	.
1997	.	9145.9	5419.66	15434.2	.
1998	.	10074.9	5863.56	17310.8	.
1999	.	11095.1	6341.92	19421.3	.
2000	.	12225.3	6857.45	21795.0	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=GRAL ACHA

DEP VARIABLE: TERCIA

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.70302790	1.70302790	92.211	0.0001
ERROR	11	0.20315901	0.01846891		
C TOTAL	12	1.90618691			

ROOT MSE 0.1359004 R-SQUARE 0.8934  
DEP MEAN 7.283135 ADJ R-SQ 0.8837  
C.V. 1.86596

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR H0: PARAMETER=0	PROB >  T
INTERCEPT	1	-184.05497	19.92562744	-9.237	0.0001
ANNO	1	0.09673312	0.01007301	9.603	0.0001

ANO	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
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1	1972	6.7957	6.7027	0.0712	6.5460	6.8595	6.3650	7.0404	0.1157
2	1973	6.8623	6.7995	0.0629	6.6610	6.9379	6.4699	7.1291	0.1205
3	1974	6.9707	6.8962	0.0552	6.7746	7.0176	6.5734	7.2190	0.1242
4	1975	7.0716	6.9929	0.0493	6.8866	7.0993	6.6755	7.3104	0.1270
5	1976	6.8297	7.0697	0.0427	6.9956	7.1837	6.7761	7.4032	0.1290
6	1977	6.9952	7.1664	0.0390	7.1006	7.2723	6.8752	7.4976	0.1302
7	1978	7.3911	7.2431	0.0377	7.2002	7.3661	6.9727	7.5935	0.1306
8	1979	7.4657	7.3792	0.0390	7.2940	7.4657	7.0637	7.6911	0.1302
9	1980	7.6104	7.4766	0.0427	7.3825	7.5767	7.1535	7.7902	0.1339
10	1981	7.6921	7.5733	0.0483	7.4670	7.6797	7.2359	7.8903	0.1270
11	1982	7.7402	7.6781	0.0552	7.5446	7.7915	7.3472	7.9927	0.1242
12	1983	7.7420	7.7696	0.0629	7.6283	7.9053	7.4372	8.0904	0.1205
13	1984	7.8352	7.8635	0.0712	7.7063	8.0203	7.5253	8.2012	0.1157
14	1985		7.9673	0.0803	7.7643	8.1363	7.6132	8.3073	
15	1986		8.0570	0.0890	7.8612	8.2526	7.6945	8.4145	
16	1987		8.1537	0.0982	7.9376	8.3698	7.7847	8.5227	
17	1988		8.2535	0.1070	8.0137	8.4672	7.8690	8.6319	
18	1989		8.3472	0.1170	8.0896	8.5648	7.9524	8.7420	
19	1990		8.4437	0.1260	8.1652	8.7226	8.0351	8.8528	

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACION=GRAL ACHA

JOS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
2	1991	.	8.5407	0.1353	8.2407	8.8406	8.1171	8.9643	.	.
21	1972	.	3.6373	0.1460	3.3151	3.9587	3.1904	3.0754	.	.
22	1973	.	8.7341	0.1557	8.3914	9.0769	8.2792	9.1891	.	.
23	1974	.	8.8309	0.1635	8.4605	9.1952	8.3595	9.3022	.	.
24	1975	.	8.9278	0.1754	8.5417	9.3135	8.4393	9.4159	.	.
25	1976	.	9.0242	0.1852	8.6157	9.4320	8.5187	9.5299	.	.
26	1977	.	9.1211	0.1951	8.6917	9.5504	8.5978	9.6443	.	.
27	1978	.	9.2175	0.2050	8.7657	9.6689	8.6765	9.7591	.	.
28	1979	.	9.3145	0.2147	8.8416	9.7875	8.7549	9.8741	.	.
29	1980	.	9.4113	0.2248	8.9165	9.9061	8.8331	9.9894	.	.

OSJ  
 ID  
 STUDENT RESIDUAL  
 --2-1+0 1 2  
 CUCK'S  
 0

1	1972	0.3233			0.122
2	1973	0.5254			0.038
3	1974	0.6301			0.036
4	1975	-0.6191			0.028
5	1976	-1.0223			0.225
6	1977	-1.4044			0.090
7	1978	-1.4786			0.091
8	1979	0.6599			0.020
9	1980	1.0368			0.059
10	1981	0.6109			0.028
11	1982	0.5649			0.031
12	1983	-0.2961			0.006
13	1984	-0.0724			0.001
14	1985	.			.
15	1986	.			.
16	1987	.			.
17	1988	.			.
18	1989	.			.
19	1990	.			.
20	1991	.			.
21	1992	.			.
22	1993	.			.
23	1994	.			.
24	1995	.			.
25	1996	.			.
26	1997	.			.
27	1998	.			.
28	1999	.			.
29	2000	.			.

SUM OF RESIDUALS  
 SUM OF SQUARED RESIDUALS  
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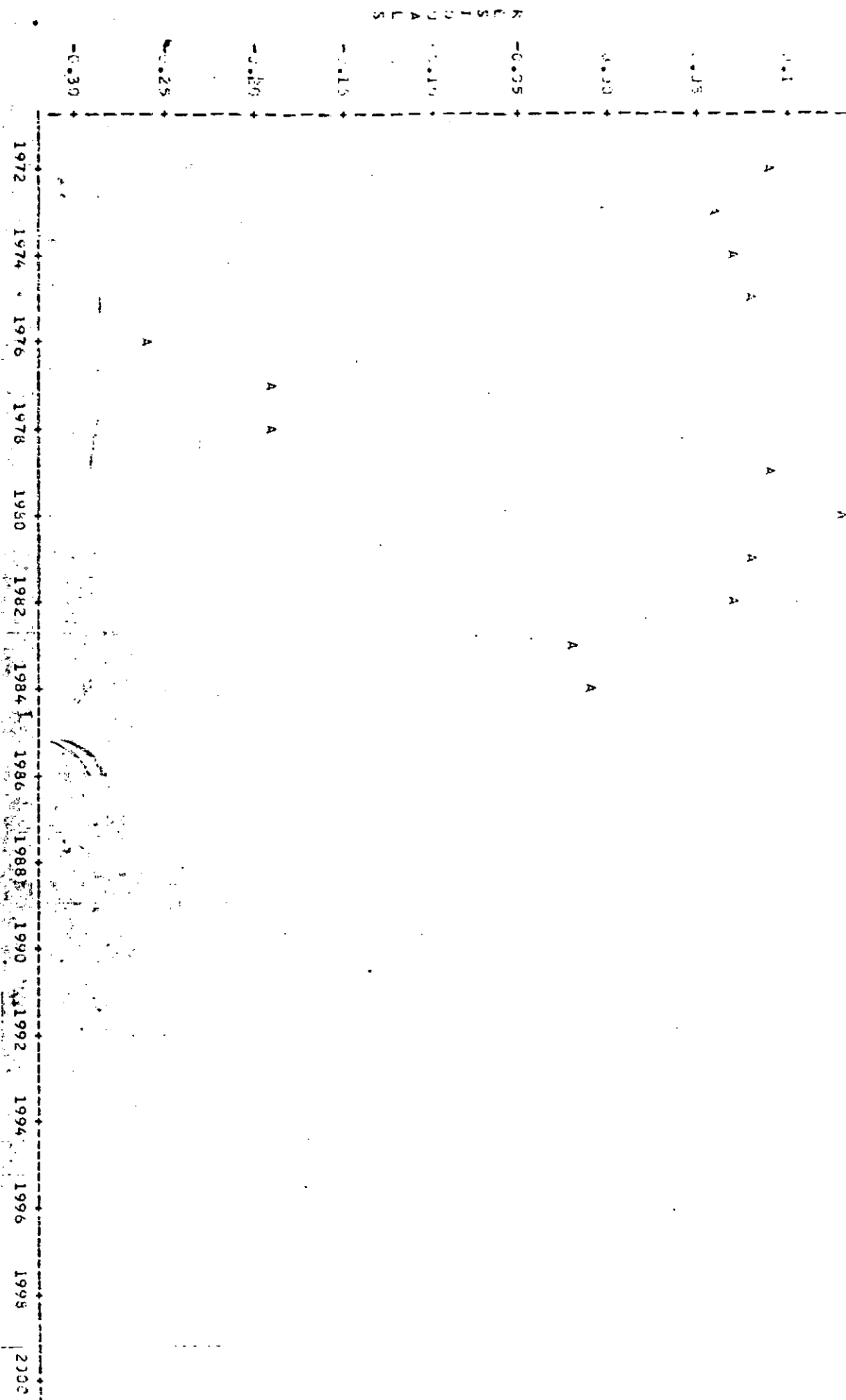
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PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO  
ESTACION=GRAL AGUA

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR AGRICARIO

ESTACION: GRAL AGUA

PLANT OF RESIDUATION LEGEND: A = 1 095, B = 2 095, ETC.



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=GRAL ACHA

PL0T OF TERCIA\*ANIO  
PL0T OF PRED\*ANIO  
PL0T OF L95\*ANIO  
PL0T OF U95\*ANIO

SYMBOL USED IS O  
SYMBOL USED IS P  
SYMBOL USED IS L  
SYMBOL USED IS U



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENTESIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIAID

ESTACION=GRAL ACHA

PL01 OF RESIDUANO LEGEND: A = 1 OBS, B = 2 OBS, ETC.



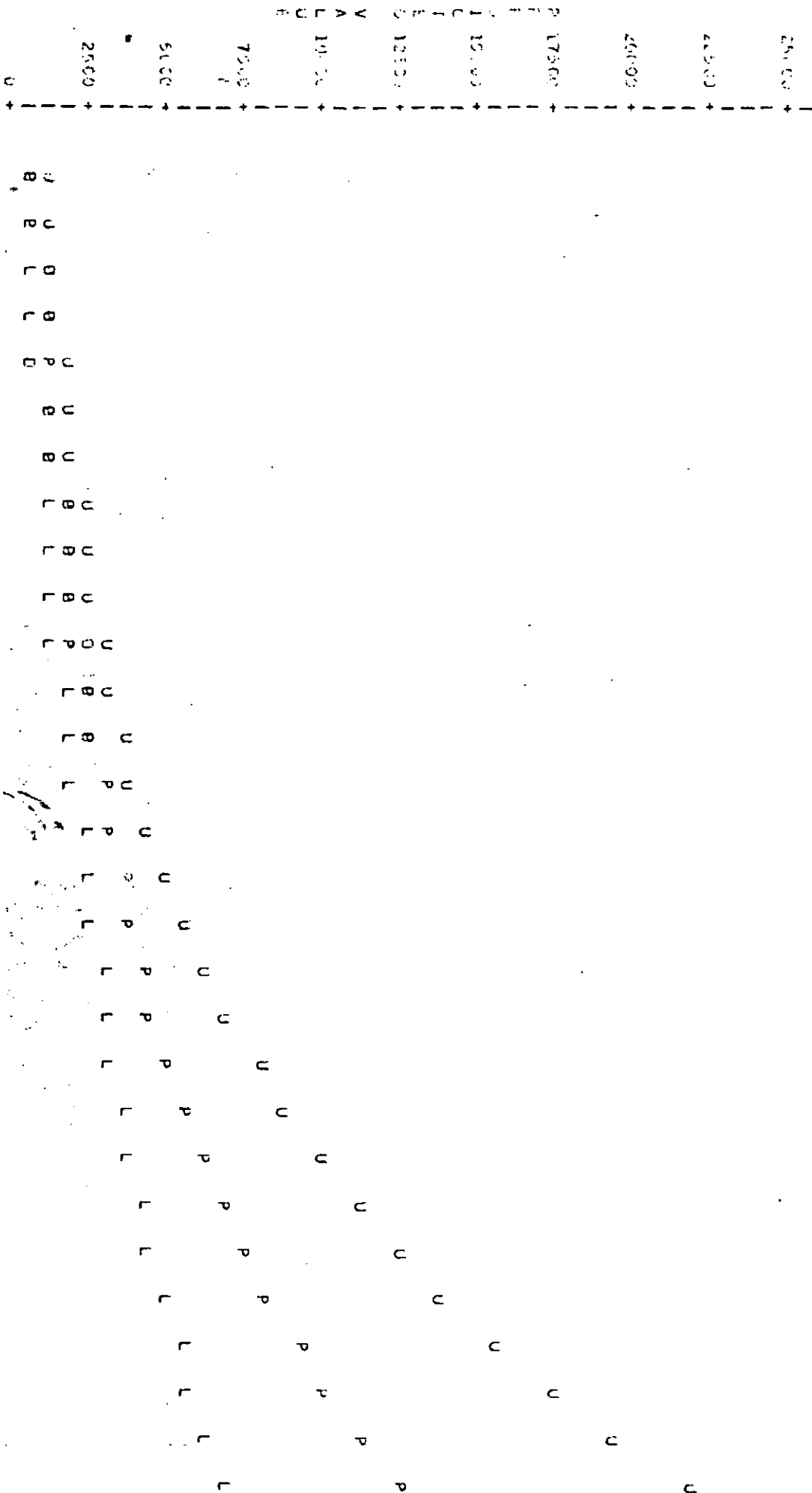


PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACION=GRAL ACHA

PLOT OF TERCIA\*ANIO SYMBOL USED IS O  
 PLOT OF PRED\*ANIO SYMBOL USED IS P  
 PLOT OF L95\*ANIO SYMBOL USED IS L  
 PLOT OF U95\*ANIO SYMBOL USED IS U

1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=GUATRACHE

ANIO	ENERGIA	PREO	LYS	U95	RESID
1971	1610	1750.2	1545.0	2357.3	-170.76
1972	1754	1971.6	1499.2	2592.9	-217.59
1973	1993	2182.9	1669.2	2854.6	-169.86
1974	2498	2410.6	1858.3	3146.4	61.23
1975	2603	2675.7	2061.9	3472.3	392.25
1976	3392	2952.5	2287.3	3938.9	429.52
1977	3549	3279.5	2534.1	4245.2	209.07
1978	4083	3631.4	2803.9	4703.2	451.63
1979	4632	4020.5	3098.2	5217.5	611.46
1980	3980	4481.4	3419.1	5795.3	-471.37
1981	4515	4928.4	3708.6	6445.0	-415.38
1982	5205	5455.5	4149.0	7175.0	-251.49
1983	5538	6001.2	4562.8	7958.7	-503.20
1984		6638.6	5012.7	8924.7	
1985		7405.3	5501.6	9967.4	
1986		8198.8	6033.4	11141.5	
1987		9077.4	6611.2	12463.7	
1988		10050.1	7239.2	13952.0	
1989		11127.1	7921.7	15629.5	
1990		12319.5	8663.6	17517.9	
1991		13039.6	9470.1	19644.6	
1992		15101.2	10346.9	22040.1	
1993		16719.4	11300.1	24737.6	
1994		18511.0	12336.4	27776.1	
1995		20494.6	13463.3	31198.2	
1996		22690.6	14688.6	35052.6	
1997		25132.3	16021.0	39394.0	
1998		27814.4	17469.9	44264.2	
1999		30704.9	19045.6	49792.5	
2000					

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO

ESTACION=GUATRACHE

3 VARIABLE: TERCIA

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	1.88598672	1.88598672	147.043	0.0001
ERROR	11	0.14032400	0.01275673		
C TOTAL	12	2.02631072			

ROOT MSE 0.1129457  
DEP MEAN 8.095576  
C.V. 1.395153  
R-SQUARE 0.9307  
ADJ R-SQ 0.9245

PARAMETER ESTIMATES

VARIABLE	OF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEP	1	-193.25826	16.56002542	-11.670	0.0001
ANID	1	0.10179563	0.008372091	12.159	0.0001

POS	ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1971	7.3844	7.4848	0.0592	7.3545	7.6151	7.2041	7.7655	-0.1008	0.0962
2	1973	7.4597	7.5660	0.0523	7.4715	7.7017	7.3127	7.8605	-0.1109	0.1001
3	1974	7.5974	7.6484	0.0459	7.5875	7.7893	7.4201	7.9567	-0.0919	0.1032
4	1975	7.3232	7.7922	0.0402	7.7013	7.8786	7.5264	8.0540	0.0351	0.1056
5	1976	3.0238	7.8929	0.0355	7.8138	7.9702	7.6314	8.1525	0.1366	0.1072
6	1977	3.1292	7.9923	0.0324	7.9224	8.0651	7.7351	8.2524	0.1354	0.1082
7	1978	3.1744	8.0953	0.0313	8.0266	8.1645	7.8376	8.3536	0.0768	0.1035
8	1979	1.3146	8.1974	0.0324	8.1290	8.2687	7.9387	8.4550	0.1172	0.1082
9	1980	3.4407	8.2992	0.1355	8.2210	8.3774	8.0386	8.5590	0.1410	0.1072
10	1981	3.2597	8.4913	0.0402	8.3126	8.4893	8.1371	8.6646	-0.1119	0.1056
11	1982	4.4147	8.5028	0.0459	8.4018	8.6037	8.2345	8.7711	-0.0889	0.1032
12	1983	8.5574	8.6066	0.0523	8.4895	8.7196	8.3306	8.9785	-0.0472	0.1001
13	1984	8.6194	8.7034	0.0592	8.5761	8.8367	8.4257	8.9870	-0.0370	0.0962
14	1985	.	8.8002	0.0665	8.6619	8.9544	8.5197	9.0966	.	.
15	1986	.	8.9100	0.0737	8.7472	9.0727	8.6128	9.2071	.	.
16	1987	.	9.0117	0.0816	8.8321	9.1914	8.7051	9.3184	.	.
17	1988	.	9.1135	0.0894	8.9158	9.3105	8.7965	9.4305	.	.
18	1989	.	9.2153	0.0975	9.0012	9.4294	8.8973	9.5434	.	.
19	1990	.	9.3171	0.1052	9.0855	9.5488	8.9774	9.6569	.	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR TERCIANO

ESTACION=GUAIKACHE

	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1981	9.4189	0.1133	9.1697	9.6602	9.0669	9.7713			
1982	9.5207	0.1215	9.2537	9.7678	9.1559	9.8850			
1983	9.6225	0.1294	9.3377	9.9074	9.2444	10.0000			
1984	9.7242	0.1376	9.4215	10.0271	9.3326	10.1161			
1985	9.8261	0.1457	9.5054	10.1469	9.4203	10.2319			
1986	9.9279	0.1537	9.5891	10.2667	9.5077	10.3481			
1987	10.0297	0.1621	9.6729	10.3866	9.5948	10.4646			
1988	10.1315	0.1703	9.7566	10.5064	9.6817	10.5814			
1989	10.2333	0.1785	9.8402	10.6264	9.7682	10.6984			
1990	10.3351	0.1868	9.9234	10.7463	9.8546	10.8150			

STUDENT  
ID  
RESIDUAL  
-2-1-0 1 2  
COOK'S  
D

1	1972	-1.0480	**	0.208
2	1973	-1.1681	**	0.196
3	1974	-0.8916	*	0.077
4	1975	0.3131		0.007
5	1976	1.2759	**	0.069
6	1977	1.4514	**	0.070
7	1978	0.7265	*	0.022
8	1979	1.0634	**	0.053
9	1980	1.3205	**	0.096
10	1981	-1.1563	**	0.091
11	1982	-0.9530	*	0.072
12	1983	-0.4713	*	0.030
13	1984	-0.9042	*	0.155
14	1985			
15	1986			
16	1987			
17	1988			
18	1989			
19	1990			
20	1991			
21	1992			
22	1993			
23	1994			
24	1995			
25	1996			
26	1997			
27	1998			
28	1999			
29	2000			

SUM OF RESIDUALS  
SUM OF SQUARED RESIDUALS  
PREDICTED RESIDUALS (PRESS)

-3.63931E-12  
0.140324  
0.1934047

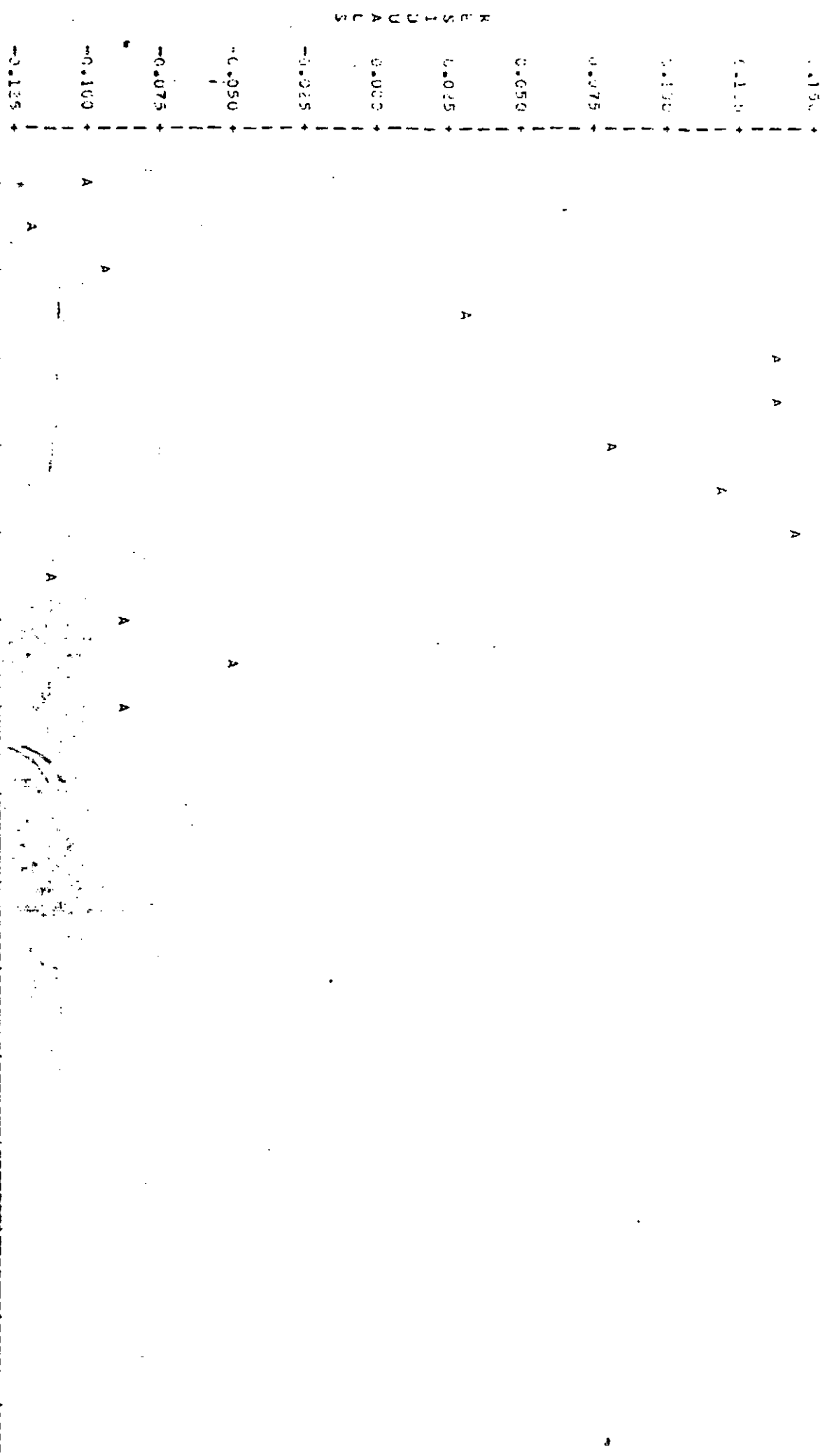
1ST ORDER AUTOCORRELATION 0.579

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO  
ESTACION=GUATRACHE

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACION=GUATRACHE

PLUJ DE RESIDUAVIO      LEGEND: A = 1.035, B = 2.035, ETC.



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=GUATRACHE

PLOT OF TERCIA\*ANIO SYMBOL USED IS O  
PLOT OF PRED\*ANIO SYMBOL USED IS P  
PLOT OF L95\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U



PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACIONEQUATRACHE

PLAT DE RESIDUANO LEGEND: A = 1 OBS, S = 2 OBS, ETC.

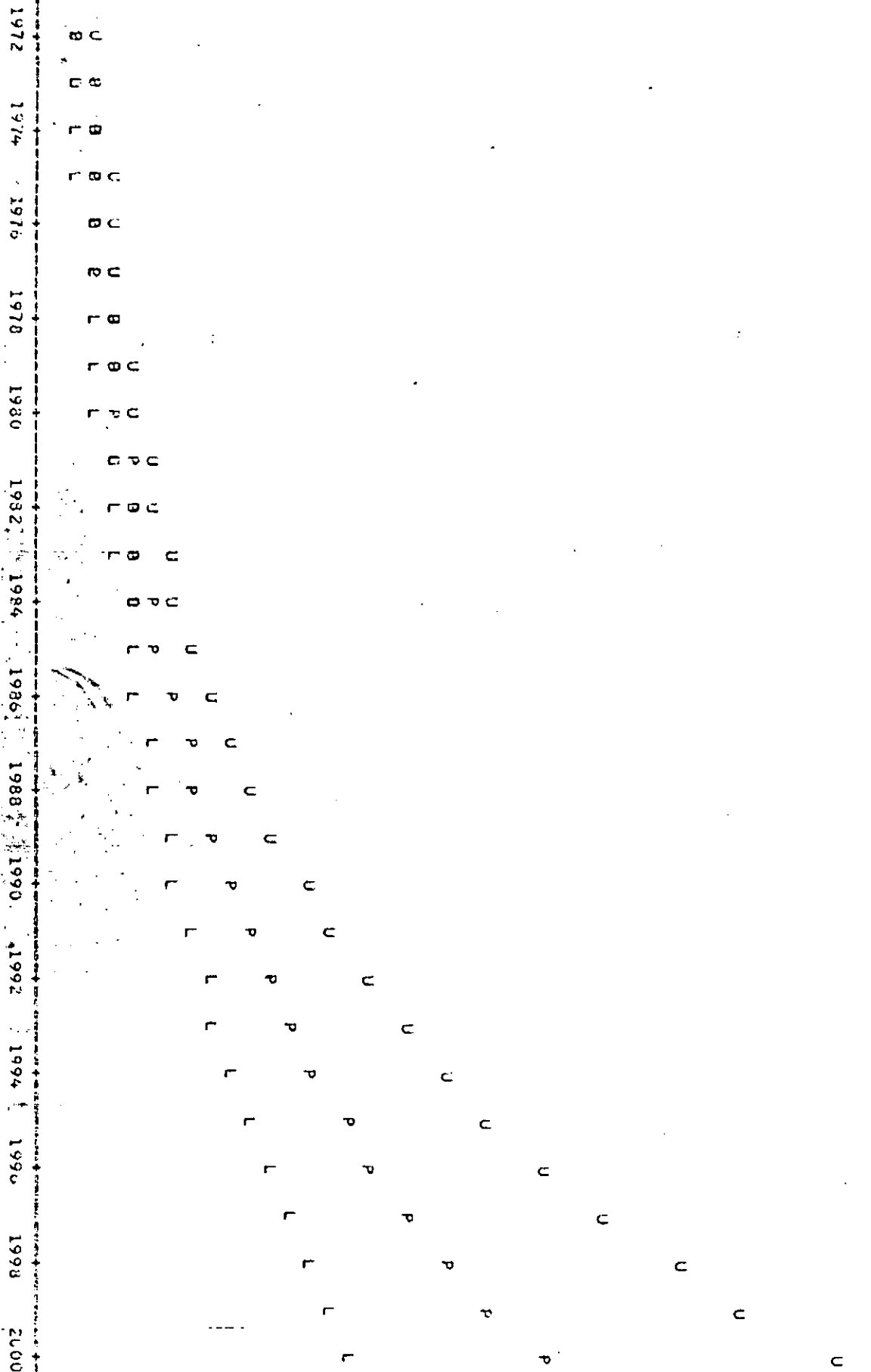




PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCIARIO

ESTACION=GUATRACHE

PLOT OF TERCIA\*ANIO SYMBOL USED IS D  
 PLOT OF PRD\*ANIO SYMBOL USED IS P  
 PLOT OF L95\*ANIO SYMBOL USED IS L  
 PLOT OF U95\*ANIO SYMBOL USED IS U



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIANO

ESTACION=SANJA 1519EL

ANIO	FECHA	PRED	L95	U95	RESID
1972	21	14.31	14.33	25.7	1.039
1973	23	23.97	18.16	31.6	-0.971
1974	25	29.76	42.63	39.0	-6.756
1975	42	30.94	28.28	40.2	5.064
1976	40	45.85	35.21	59.7	0.151
1977	59	56.91	43.30	74.0	2.087
1978	54	70.65	54.40	91.7	-1.647
1979	103	87.69	67.49	114.3	17.336
1980	190	103.85	83.61	141.7	-3.456
1981	131	135.12	103.44	176.5	-4.124
1982	168	167.73	127.03	220.1	0.268
1983	222	203.21	157.77	274.8	13.793
1984	232	258.45	194.51	343.4	-26.450
1985	.	320.82	239.56	429.6	.
1986	.	398.23	294.76	538.0	.
1987	.	494.33	362.36	674.4	.
1988	.	613.62	445.12	845.9	.
1989	.	761.70	546.33	1061.9	.
1990	.	945.57	670.24	1333.8	.
1991	.	1173.66	821.70	1676.4	.
1992	.	1456.89	1006.87	2108.0	.
1993	.	1800.44	1233.17	2652.1	.
1994	.	2244.84	1509.70	3338.0	.
1995	.	2786.55	1847.54	4202.9	.
1996	.	3456.93	2250.20	5293.6	.
1997	.	4293.67	2764.18	6669.5	.
1998	.	5329.79	3379.59	8405.3	.
1999	.	6615.93	4130.98	10595.7	.
2000	.	8212.43	5043.28	13359.8	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=SANTA ISABEL

OTR VARIABLE: TERCIA

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	8.50467186	8.50467186	650.107	0.0001
ERROR	11	0.14390149	0.01308195		
C TOTAL	12	8.64857336			

R-DI MSE 0.1143764 R-SQUARE 0.9634  
DEP MEAN 4.257639 ADJ R-SQ 0.9818  
C.V. 2.686348

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEP	1	-423.32427	16.759792200	-25.243	0.0001
AMID	1	0.21018884	0.008478141	25.497	0.0001

ID	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	3.0445	2.9607	0.0399	2.8287	3.0926	2.6765	3.2449	0.0838	0.0974
2	3.1355	3.1760	0.0329	3.0803	3.2934	2.8994	3.4543	-0.0414	0.1014
3	3.1355	3.3937	0.0464	3.2996	3.4952	3.1213	3.6647	-0.1575	0.1045
4	3.7377	3.6092	0.0407	3.5197	3.6987	3.3420	3.8764	0.1285	0.1069
5	3.8289	3.8254	0.0363	3.7462	3.9045	3.5615	4.0892	0.032890	0.1086
6	4.0375	4.0415	0.0328	3.9692	4.1138	3.7796	4.3034	0.0360	0.1096
7	4.2341	4.2577	0.0317	4.1879	4.3275	3.9964	4.5189	0.0330	0.1099
8	4.6340	4.4739	0.0328	4.4016	4.5461	4.2119	4.7358	0.1801	0.1096
9	4.6340	4.6900	0.0363	4.6109	4.7692	4.4261	4.9539	-0.0361	0.1086
10	4.8752	4.9062	0.0407	4.8167	4.9957	4.6390	5.1734	-0.0310	0.1069
11	5.1240	5.1224	0.0464	5.0202	5.2246	4.8567	5.3941	0.015992	0.1045
12	5.4227	5.3385	0.0529	5.2226	5.4551	5.0611	5.6159	0.0641	0.1014
13	5.4227	5.5547	0.0599	5.4228	5.6807	5.2705	5.8389	-0.01060	0.0974
14	5.4407	5.7739	0.0673	5.6228	5.9190	5.4788	6.0630		
15		5.9870	0.0749	5.8222	6.1518	5.6862	6.2879		
16		6.2032	0.0826	6.0213	6.3851	5.8926	6.5138		
17		6.4194	0.0905	6.2201	6.6186	6.0983	6.7404		
18		6.6355	0.0985	6.4187	6.8524	6.3033	6.9678		
19		6.8517	0.1066	6.6172	7.0863	6.5076	7.1958		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIAPIO

ESTACION=SANTA ISABEL

OS	10	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1991	.	7.0579	0.1147	6.8155	7.3203	6.7116	7.4244	.	.
21	1992	.	7.2541	0.1229	7.1130	7.5545	6.9146	7.6535	.	.
22	1993	.	7.5304	0.1311	7.2117	7.7857	7.1173	7.8831	.	.
23	1994	.	7.7106	0.1373	7.4093	8.0230	7.3197	8.1131	.	.
24	1995	.	7.9329	0.1476	7.6077	8.2574	7.5216	8.3435	.	.
25	1996	.	8.1487	0.1559	7.8057	8.4918	7.7232	8.5741	.	.
26	1997	.	8.3649	0.1642	8.0035	8.7263	7.9245	8.8052	.	.
27	1998	.	8.5811	0.1725	8.2014	8.9607	8.1255	9.0365	.	.
28	1999	.	8.7972	0.1809	8.3992	9.1953	8.3263	9.2652	.	.
29	2000	.	9.0134	0.1892	8.5970	9.4298	8.5268	9.5000	.	.

STUDENT  
RESIDUAL  
-2 -1 0 1 2  
COOK'S  
D.

1	1972	0.8603			0.140
2	1973	-0.4079			0.023
3	1974	-2.4637	***		0.599
4	1975	1.2119	**		0.104
5	1976	1.0303			0.000
6	1977	0.3287			0.005
7	1978	-0.2145			0.002
8	1979	1.6435		***	0.121
9	1980	-0.3322			0.006
10	1981	-0.2930			0.006
11	1982	0.0153			0.000
12	1983	0.5327		*	0.055
13	1984	-1.1084	**		0.233
14	1985	.			.
15	1986	.			.
16	1987	.			.
17	1988	.			.
18	1989	.			.
19	1990	.			.
20	1991	.			.
21	1992	.			.
22	1993	.			.
23	1994	.			.
24	1995	.			.
25	1996	.			.
26	1997	.			.
27	1998	.			.
28	1999	.			.
29	2000	.			.

SUM OF RESIDUALS  
SUM OF SQUARED RESIDUALS  
RESIDUAL DEVIATION

0.97442E-13  
0.14390E15  
0.10947E07

1ST ORDER AUTOCORRELATION -0.297

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO  
ESTACION=SANITA ISABEL

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCIARIO

ESTACION= SANTA ISABEL

PLOT OF RESID\*ANIO LEGEND: A = 1.035, B = 1.035, ETC.

RESIDUALS



ESTACION=SANTA ISABEL

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PLOT OF TERCIA*ANIO      S*W3CL USED IS 0
PLOT OF PRED*ANIO        S*W3DL USED IS P
PLOT OF LY5*ANIO         S*W3DL USED IS L
PLOT OF U95*ANIO         S*W3DL USED IS 0

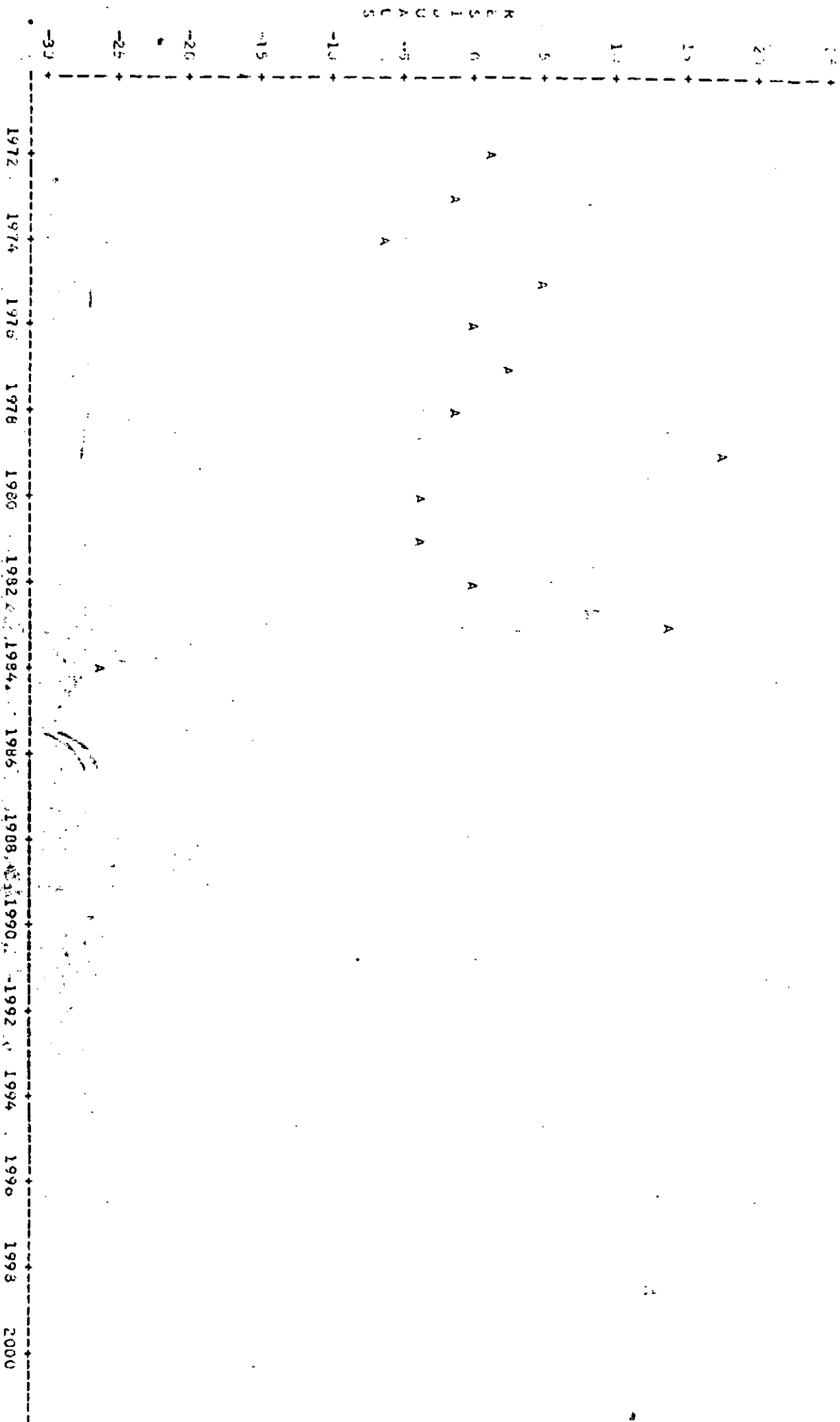
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PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACION= SANTA ISABEL

PLOT OF RESIDUANO      LEGEND: A = 1 ODS, B = 2 ODS, ETC.

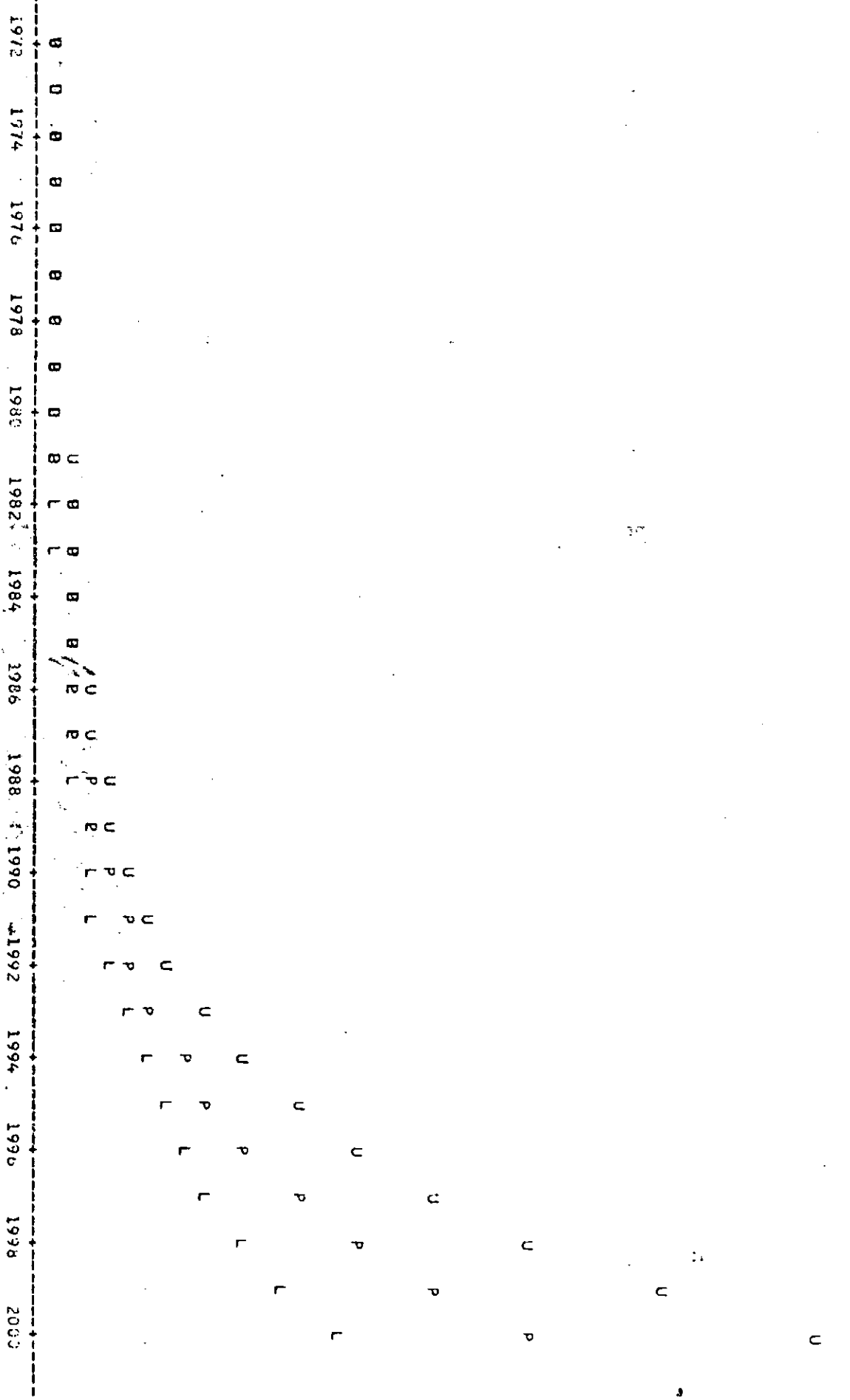




PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACION= SANTA ISABEL

PLUJ DE TERCIA\*ANIO      SYMBOL USED IS O  
 PLOT OF PRED\*ANIO      SYMBOL USED IS P  
 PLOT OF L95\*ANIO      SYMBOL USED IS L  
 PLOT OF U95\*ANIO      SYMBOL USED IS U



PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=25 DE MAYO

ANIO	TERCIA	PREJ	L95	U95	RESID
1972	.	10581.0	381.063	493802	.
1973	.	1357.4	424.494	183107	.
1974	.	7414.5	479.700	114603	.
1975	.	6236.7	535.997	72142	.
1976	.	5195.7	589.697	45778	.
1977	.	4544.3	643.763	29584	.
1978	.	3640.5	690.929	19165	.
1979	.	3047.7	722.620	12854	.
1980	4225	2551.3	726.361	8961	-325.26
1981	1049	2155.7	603.231	6627	-86.67
1982	2082	1787.8	602.291	5307	294.23
1983	2156	1495.5	432.271	4644	659.45
1984	292	1252.8	356.570	4460	-360.76
1985	.	1048.7	246.646	4423	.
1986	.	577.9	166.595	4626	.
1987	.	734.9	106.771	4965	.
1988	.	615.2	69.819	5420	.
1989	.	514.9	44.304	5985	.
1990	.	431.1	27.389	6663	.
1991	.	360.8	17.455	7460	.
1992	.	302.1	10.879	8387	.
1993	.	252.9	6.758	9461	.
1994	.	211.7	4.188	10698	.
1995	.	177.2	2.590	12120	.
1996	.	148.3	1.600	13753	.
1997	.	124.2	0.927	15626	.
1998	.	103.9	0.608	17772	.
1999	.	87.0	0.374	20251	.
2000	.	72.8	0.239	23046	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=25 DE MAYO

DEP VARIABLE: IEQUA

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	0.31615973	0.31615970	3.246	0.1094
ERROR	3	7.29217593	0.09739298		
C TOTAL	4	0.50833363			

ROOT MSE 0.3120735 R-SQUARE 0.5197  
DEP MEAN 7.4488726 ADJ R-SQ 0.3596  
C.V. 4.107311

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB >  T
INTERCEP	1	359.92577	195.59943	1.840	0.1630
AM10	1	-0.17720580	0.09968783	-1.802	0.1694

DEP	10	ACTUAL	PREDICT VALUE	STU ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STU ERR RESIDUAL
1	1972	.	9.2653	0.9457	6.0940	12.4388	5.9430	12.5907	.	.
2	1973	.	9.0390	0.8991	6.2277	11.9504	6.0602	12.1178	.	.
3	1974	.	8.9112	0.8917	6.3590	11.4627	6.1732	11.6492	.	.
4	1975	.	8.7334	0.7049	6.4904	10.9703	6.2804	11.1864	.	.
5	1976	.	8.5556	0.5084	6.6195	10.4917	6.3796	10.7315	.	.
6	1977	.	8.3773	0.5125	6.7456	10.0097	6.4673	10.2662	.	.
7	1978	.	8.2000	0.4187	6.8675	9.5325	6.5380	9.9619	.	.
8	1979	.	8.0222	0.3273	6.9805	9.0636	6.5829	9.4614	.	.
9	1980	7.7080	7.8443	0.2417	7.0750	8.6137	6.5880	9.1006	-0.1364	0.1974
10	1981	7.6251	7.5655	0.1709	7.1225	8.2105	6.5341	8.7989	-0.0414	0.2611
11	1982	7.5411	7.4387	0.1395	7.0446	7.9329	6.4007	8.5767	0.1524	0.2791
12	1983	7.6760	7.3109	0.1709	6.7659	7.8549	6.1785	8.4433	0.3651	0.2611
13	1984	6.7935	7.1331	0.2417	6.3633	7.9024	5.8768	8.3894	-0.3396	0.1974
14	1985	.	6.9553	0.3273	5.9136	7.9970	5.5160	8.3946	.	.
15	1986	.	6.7773	0.4187	5.4450	8.1102	5.1156	8.4394	.	.
16	1987	.	6.5997	0.5128	4.9677	8.2317	4.6892	8.5101	.	.
17	1988	.	6.4219	0.6084	4.4858	8.3580	4.2459	8.5978	.	.
18	1989	.	6.2441	0.7048	4.0011	8.4870	3.7911	8.6971	.	.
19	1990	.	6.0663	0.8017	3.5147	8.6178	3.3282	8.8043	.	.

PROVINCIA DE LA PAMPA  
SERIES MISTOCICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=25 DE MAYO

Y	Y	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
1	1971	5.4836	0.3991	3.0271	0.7498	2.8596	5.9173			
2	1972	5.7109	0.9907	2.5386	0.3826	2.3363	9.0345			
3	1973	5.5353	1.0945	2.0490	0.0161	1.9107	9.1549			
4	1974	5.3550	1.1923	1.5600	0.1500	1.4332	9.2778			
5	1975	5.1772	1.2903	1.0702	0.2843	0.9518	9.4026			
6	1976	4.9954	1.3887	0.5897	0.4188	0.4598	9.5290			
7	1977	4.8216	1.4869	0.0890	0.5536	-0.0135	9.6567			
8	1978	4.6438	1.5852	-0.4010	0.6886	-0.4978	9.7854			
9	1979	4.4665	1.6835	-0.8917	0.8237	-0.9830	9.9150			
10	1980	4.2882	1.7819	-1.3826	0.9589	-1.4689	10.0452			

CHS

10

STUDENT  
RESIDUAL

-2-1-0 1 2

COOK'S  
D

1	1972	1972	-0.491	*	0.353					
2	1973	1973	-1.1507	*	0.005					
3	1974	1974	0.5458	*	0.037					
4	1975	1975	1.3983	**	0.419					
5	1976	1976	-1.7208	**	2.221					
6	1977	1977								
7	1978	1978								
8	1979	1979								
9	1980	1980								
10	1981	1981								
11	1982	1982								
12	1983	1983								
13	1984	1984								
14	1985	1985								
15	1986	1986								
16	1987	1987								
17	1988	1988								
18	1989	1989								
19	1990	1990								
20	1991	1991								
21	1992	1992								
22	1993	1993								
23	1994	1994								
24	1995	1995								
25	1996	1996								
26	1997	1997								
27	1998	1998								
28	1999	1999								
29	2000	2000								

SUM OF RESIDUALS

1.45217E-13

SUM OF SQUARED RESIDUALS

0.2921789

PREDICTED RESIDUALS

1.45217E-13

0.2921789

1.45217E-13

0.2921789

1ST ORDER AUTOCORRELATION -0.230

ESTACION=25 DE MAYO

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR TERCIARIO

ESTACION=25 DE MAYO

PLUJ DE RESIDUANO LEGENDA: A = 1 QRS, B = 2 QRS, ETC.

A

A

A

A

A

1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000

R E S I D U A N O

0.0

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0.2

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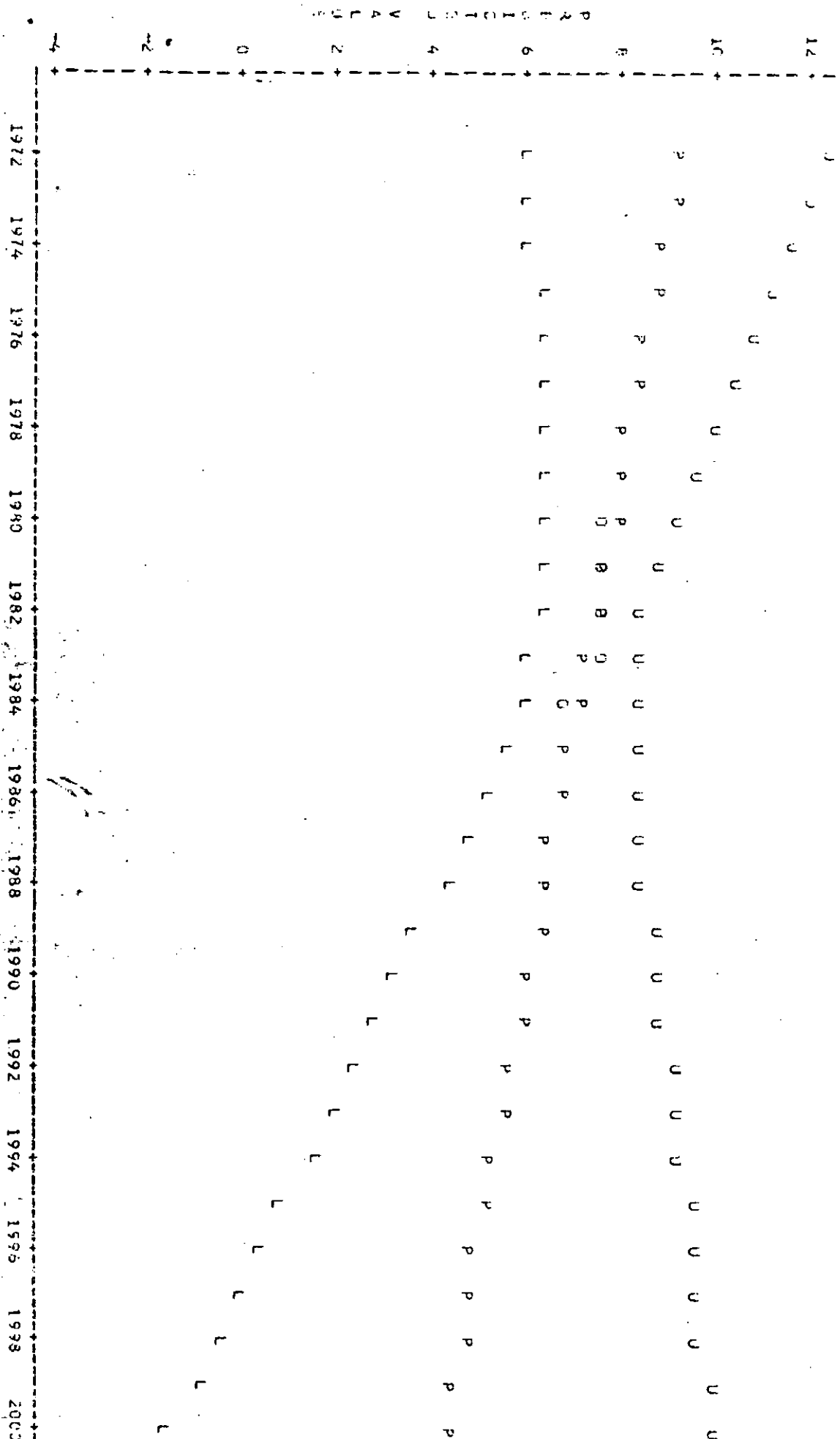
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PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=25 DE MAYO

PLOT OF TERCIA\*ANIO SYMBOL USED IS D  
PLOT OF PRED\*ANIO SYMBOL USED IS P  
PLOT OF L95\*ANIO SYMBOL USED IS L  
PLOT OF U95\*ANIO SYMBOL USED IS U

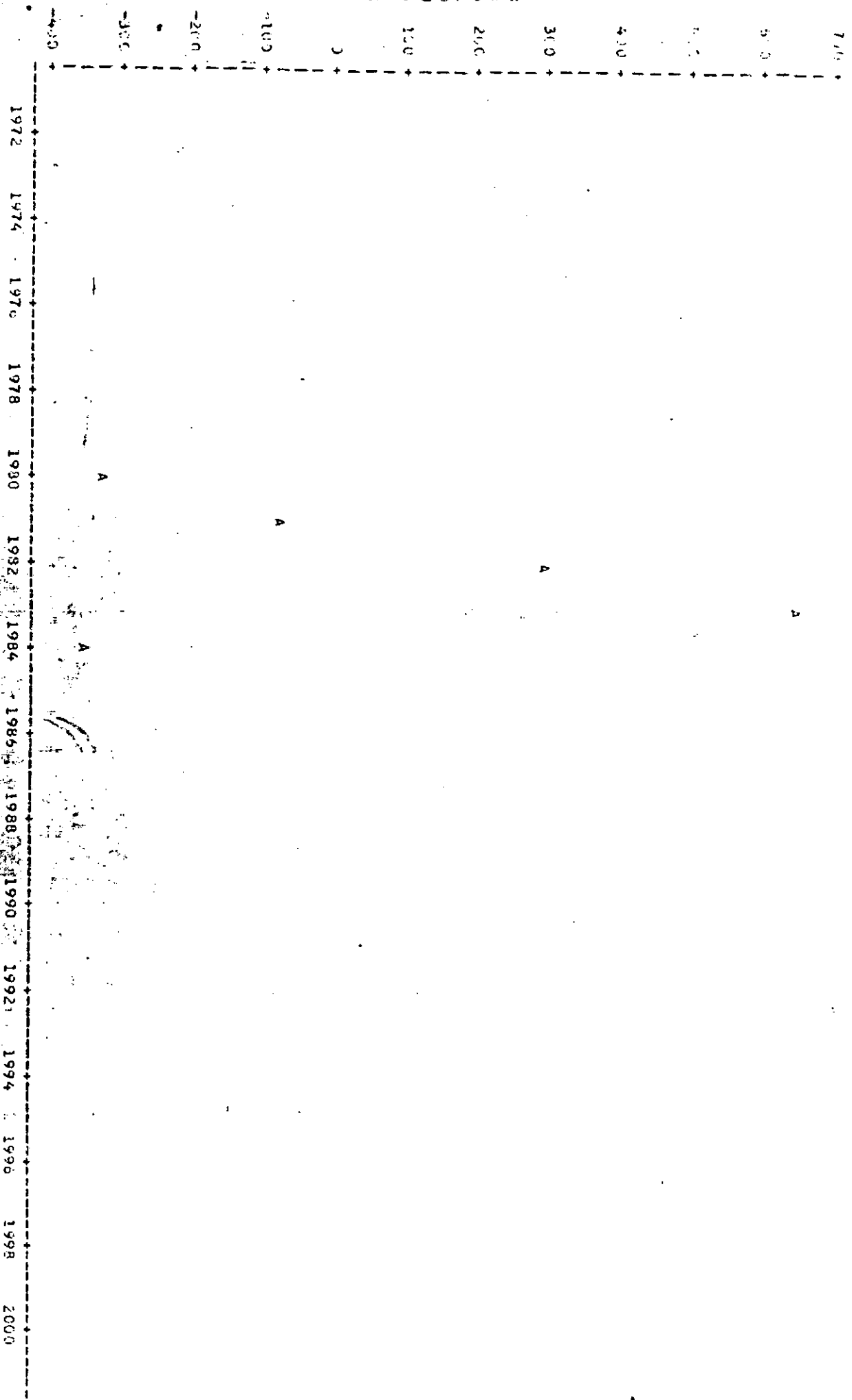


PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACION=25 DE MAYO

PLUJ DE RESIDUAMIO      LEGEND: A = 1.035, B = 2.035, ETC.

RESIDUAMIO





65146194=25 DE MAY

SYMBOL	USED	IS	0
SYMBOL	USED	IS	P
SYMBOL	USED	IS	L
SYMBOL	USED	IS	U

[illegible]

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=LOCAL. AISLADAS

ANIO	TERCIA	PREO	L95	U95	RESID
1971	10	20.4	7.95	52.3	-4.393
1973	37	26.6	10.37	65.3	10.390
1974	45	33.2	13.43	81.7	11.824
1975	56	42.3	17.45	102.6	13.585
1976	50	54.0	22.50	129.5	-3.973
1977	45	68.8	28.38	164.1	-23.842
1978	36	87.8	36.92	208.8	-1.807
1979	91	112.0	46.99	266.9	-20.996
1980	125	142.8	59.54	342.7	-17.050
1981	175	182.2	75.12	441.9	-0.205
1982	139	232.4	94.39	572.2	-93.397
1983	263	298.4	118.14	743.7	-33.420
1984	673	378.1	147.32	970.3	494.921
1985	.	432.2	183.07	1270.3	.
1986	.	615.1	226.78	1608.2	.
1987	.	784.5	280.12	2197.2	.
1988	.	1000.7	345.09	2901.6	.
1989	.	1276.3	424.12	3840.9	.
1990	.	1627.9	520.13	5095.3	.
1991	.	2076.4	636.64	6772.3	.
1992	.	2448.4	777.89	9017.0	.
1993	.	3378.1	948.99	12024.6	.
1994	.	4308.7	1156.11	16057.8	.
1995	.	5495.6	1406.65	21471.0	.
1996	.	7009.6	1709.54	28741.6	.
1997	.	8940.7	2075.52	38513.6	.
1998	.	11403.7	2517.53	51655.7	.
1999	.	14545.3	3051.13	69340.2	.
2000	.	18552.3	3695.02	93149.4	.

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO

ESTACION=LOCAL. AISLAJAS

DEP VARIABLE: TERCLA

ANALYSIS OF VARIANCE

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PROB>F
MODEL	1	10.77594340	10.77594340	74.909	0.0001
ERROR	11	1.59239236	0.14385335		
C TOTAL	12	12.35833576			

ROOT MSE	0.3792807	R-SQUARE	0.8720
DEP MEAN	4.475156	ADJ R-SQ	0.8603
C.V.	8.475268		

PARAMETER ESTIMATES

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HQ:	PROB >  T
INTERCEP	1	-476.82750	55.60990337	-8.575	0.0001
ANIO	1	0.24352793	0.02811416	8.655	0.0001

US\$	10	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
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1	1971	2.7720	3.0152	0.1908	2.5776	3.4527	2.0727	3.9577	-0.2426	0.3230
2	1973	3.6109	3.2583	0.1756	2.6721	3.6449	2.3360	4.1784	0.3524	0.3352
3	1974	3.8057	3.5018	0.1540	3.1629	3.8408	2.6009	4.4020	0.3048	0.3406
4	1975	4.0254	3.7452	0.1348	3.4434	4.0419	2.8592	4.6311	0.2832	0.3545
5	1976	3.9123	3.9885	0.1192	3.7259	4.2510	2.1134	4.8635	-0.9755	0.3600
6	1977	3.8067	4.2313	0.1097	3.9922	4.4715	3.3633	5.1003	-0.4251	0.3633
7	1978	4.4543	4.4751	0.1052	4.2436	4.7067	3.6083	5.3414	-0.0204	0.3644
8	1979	4.5109	4.7185	0.1089	4.4783	4.9581	3.8560	5.5873	-0.2070	0.3633
9	1980	4.8285	4.9013	0.1193	4.6993	5.2243	4.0867	5.8369	-0.1335	0.3600
10	1981	5.1775	5.2951	0.1348	4.9084	5.5019	4.3191	6.0911	-0.0346	0.3545
11	1982	4.9345	5.4434	0.1540	5.1095	5.7874	4.5475	6.3494	-0.5149	0.3466
12	1983	5.5722	5.6913	0.1756	5.3053	6.0782	4.7719	6.6117	-0.1196	0.3352
13	1984	6.7719	5.9351	0.1988	5.4976	6.3727	4.9925	6.8776	0.8308	0.3230
14	1985		6.1784	0.2231	5.6873	6.6696	5.2099	7.1470		
15	1986		6.4218	0.2483	5.8753	6.9683	5.4240	7.4195		
16	1987		6.6651	0.2749	6.0620	7.2662	5.6352	7.6950		
17	1988		6.9036	0.3002	6.2477	7.5691	5.8438	7.9730		
18	1989		7.1517	0.3267	6.4328	7.8707	6.0500	8.2535		
19	1990		7.3951	0.3534	6.6173	8.1729	6.2541	8.5361		

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
SECTOR FERVIARIO

ESTACION=LOCAL. AISLADAS

	ACTUAL	PREDICT VALUE	STD ERR PREDICT	LOWER95% MEAN	UPPER95% MEAN	LOWER95% PREDICT	UPPER95% PREDICT	RESIDUAL	STD ERR RESIDUAL
20	1591	7.6334	0.3803	6.8613	8.4755	6.4562	8.8200	.	.
21	1592	7.5017	0.4074	6.9350	8.7784	6.6565	9.1069	.	.
22	1593	8.1251	0.4346	7.1604	9.0817	6.8554	9.3947	.	.
23	1594	8.3534	0.4620	7.3910	9.3852	7.0528	9.6840	.	.
24	1595	8.6117	0.4894	7.5346	9.6888	7.2490	9.9745	.	.
25	1596	8.8550	0.5167	7.7174	9.9927	7.4440	10.2061	.	.
26	1597	9.0934	0.5444	7.9001	10.2967	7.6380	10.5586	.	.
27	1598	9.3417	0.5720	8.0826	10.6007	7.8310	10.8524	.	.
28	1599	9.5850	0.5997	8.2651	10.9049	8.0233	11.1463	.	.
29	1600	9.8284	0.6274	8.4475	11.2092	8.2147	11.4420	.	.

035 STUDENT  
T

-2-1-0 1 2

COOK'S  
D

1	1972	-0.7510	*	0.107
2	1973	1.0483	**	0.150
3	1974	0.8795	*	0.076
4	1975	0.7904	*	0.045
5	1976	-1.2124		0.062
6	1977	-1.1702	**	0.061
7	1978	-0.0571		0.000
8	1979	-0.5714	*	0.015
9	1980	-0.3747		0.003
10	1981	-0.0977		0.001
11	1982	-1.4626	**	0.217
12	1983	-0.3358		0.017
13	1984	2.5978	*****	1.271
14	1985	.		.
15	1986	.		.
16	1987	.		.
17	1988	.		.
18	1989	.		.
19	1990	.		.
20	1991	.		.
21	1992	.		.
22	1993	.		.
23	1994	.		.
24	1995	.		.
25	1996	.		.
26	1997	.		.
27	1998	.		.
28	1999	.		.
29	2000	.		.

SUM OF RESIDUALS

-0.0131E-13

SUM OF SQUARED RESIDUALS

1.562392

PREDICTED RESIDUALS

1.562392

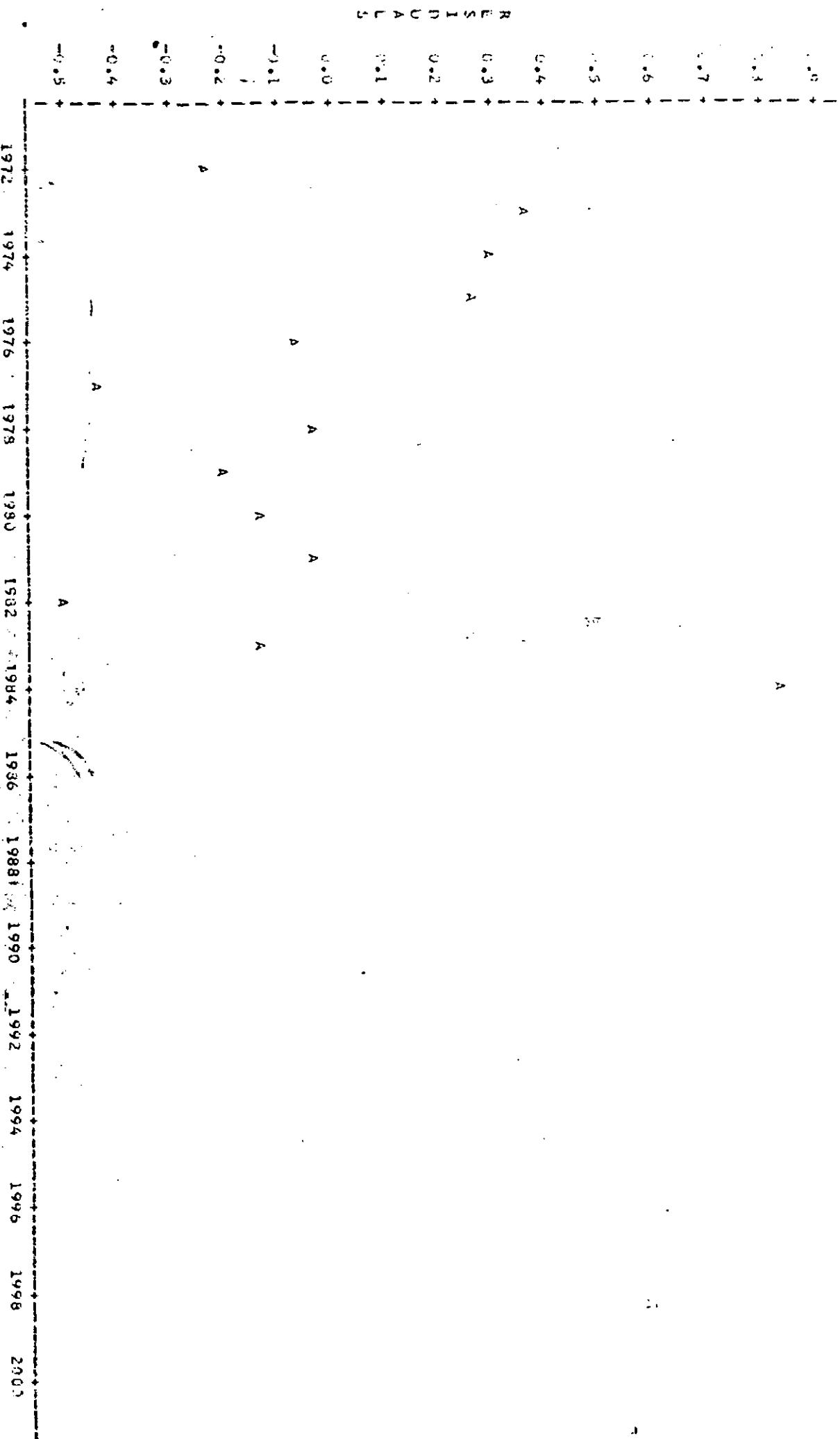
1ST ORDER AUTOCORRELATION 0.351

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MMH)  
MODELO EXPONENCIAL  
SECTOR TERCARIO  
ESTACION=LOCAL. AISLADAS

PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (TWh)  
 MODELO EXPONENCIAL  
 SECTOR TERCARIO

ESTACION=LOCAL, AISLADAS

PLAT OF RESIDUARIOS LEGEND: A = 1 OBS, B = 2 OBS, ETC.



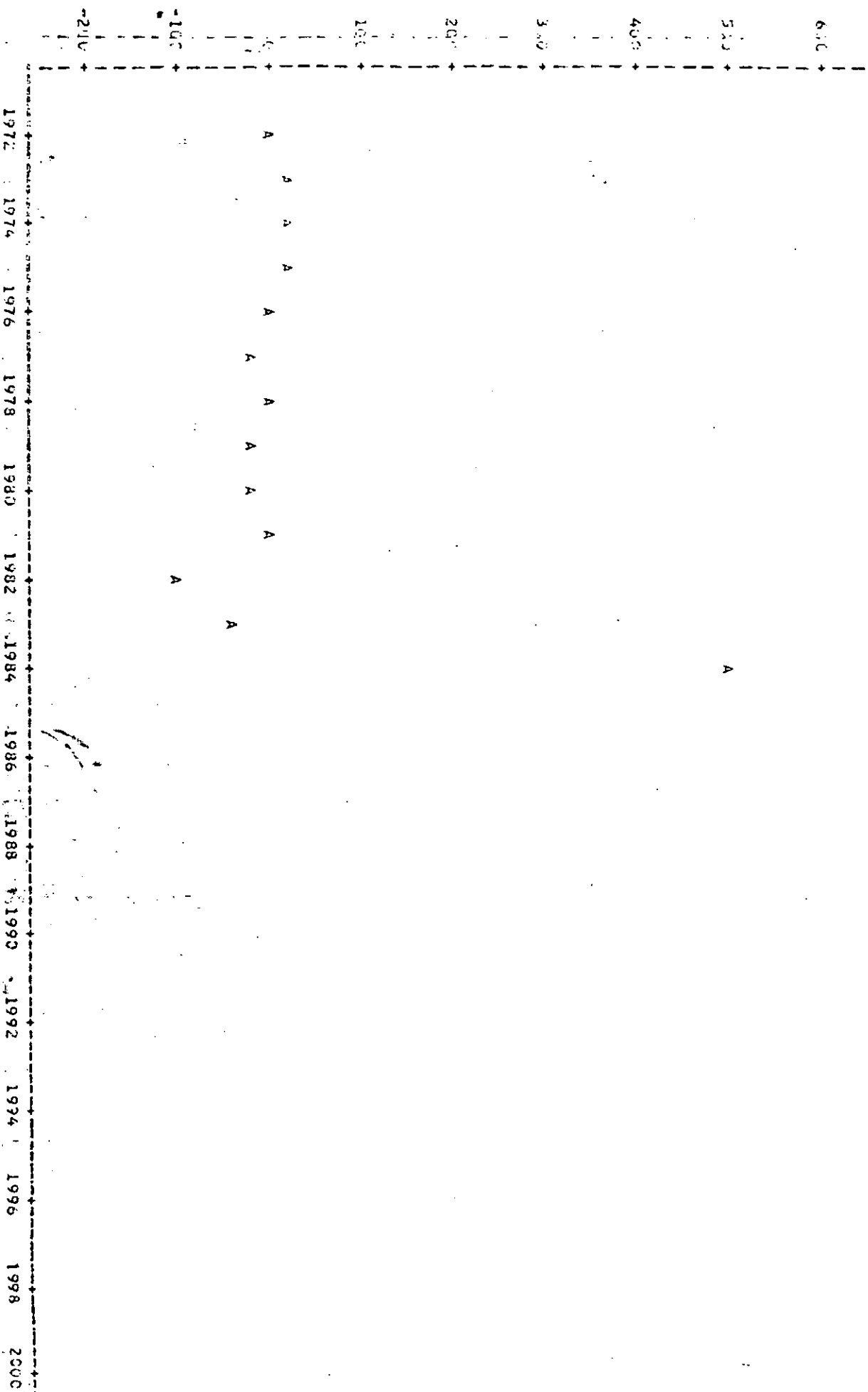


PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MMH)  
 MODELO EXPONENCIAL  
 SECTOR TERCIARIO

ESTACION=LUCAL, AISLAJAS

PLOT OF RESIDUANO LEGEND: A = 1.035, B = 2.035, ETC.

R E S I D U A L S



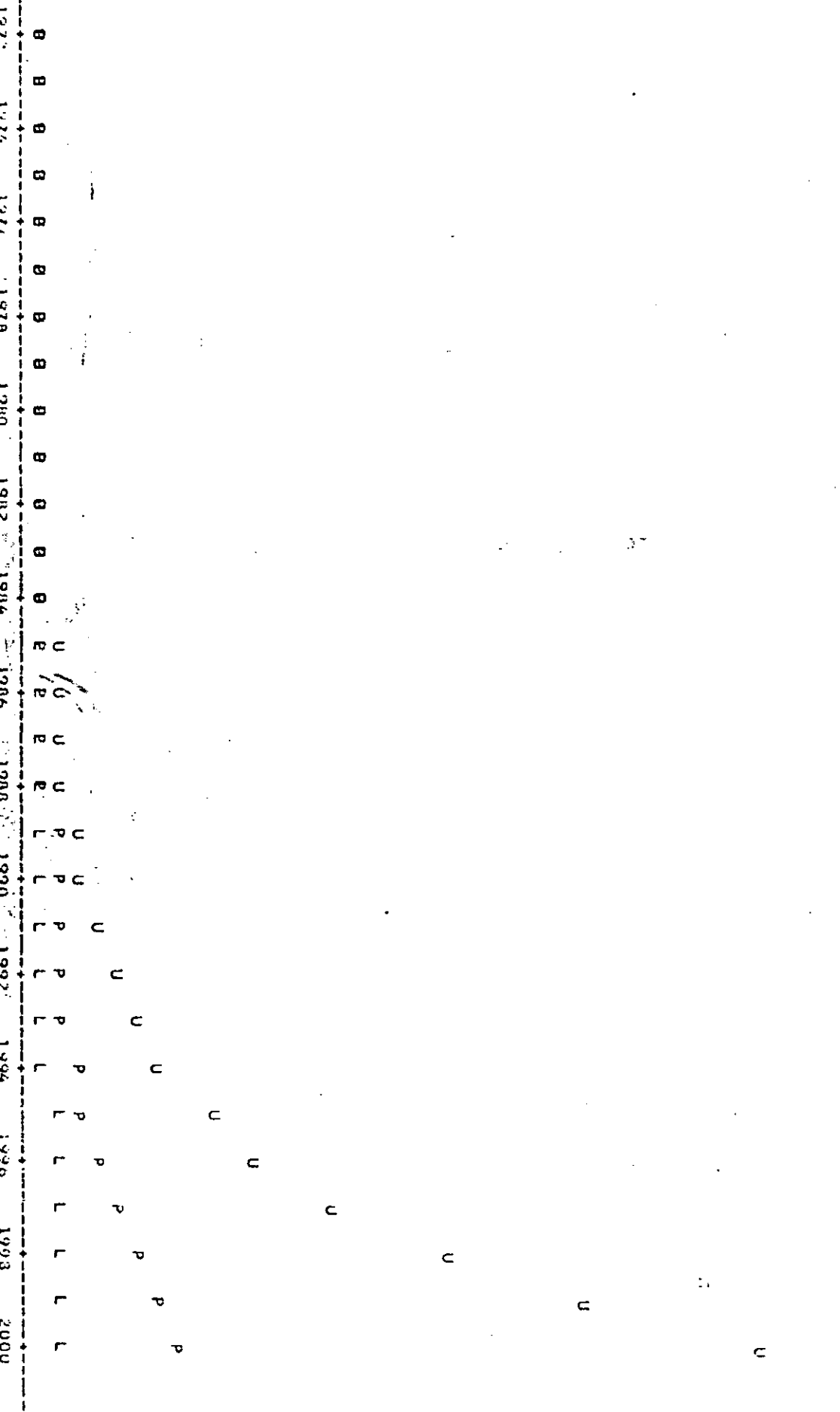


PROVINCIA DE LA PAMPA  
 SERIES HISTORICAS DE ENERGIA (MWH)  
 MODELO EXPONENCIAL  
 SECTOR TERCIAARIO

ESTACION=LOCAL. AISLADAS

PLOT OF TERCIAARIO  
 PLOT OF PREDICADO  
 PLOT OF LOGICARIO  
 PLOT OF URGENTARIO

SYMBOL USED IS O  
 SYMBOL USED IS P  
 SYMBOL USED IS L  
 SYMBOL USED IS U



CONSEJO FEDERAL DE INVERSIONES

MODELO EXPONENCIAL  
ESTACION TOTAL PROVINCIAL  
ENERGIA TOTAL (Años 1972 a 1986)

14666123

PROPOSED  
SCHEDULE  
OF  
EXPENSES  
(WU)

ESTABLISHED TOTAL PROVISIONAL

LINE	DESCRIPTION	TOTAL	PER	EST	WU	REMARKS
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CONFIDENTIAL

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SECRET	CONFIDENTIAL	TOP SECRET
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SECRET  
STANDARD  
100-100000  
100-100000  
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[illegible]

SECRET  
REF ID: A66541

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

2. Next, it is important to gather relevant information and data. This can be done through research, consultation with experts, or by analyzing existing resources.

3. Once the information is gathered, the next step is to develop a plan or strategy. This involves breaking down the problem into smaller, manageable parts and determining the best approach to solve each part.

4. After the plan is developed, the next step is to implement the solution. This involves putting the plan into action and monitoring the progress to ensure that the solution is effective.

5. Finally, it is important to evaluate the results of the solution. This involves comparing the actual outcomes with the expected results and identifying any areas for improvement.

[illegible][illegible]

1. The first part of the document is a letter from the author to the editor, dated 19th March 1964. The letter is signed 'J. H. W.' and is addressed to 'The Editor, The Times, London W.C.2'. The letter is enclosed in a separate sheet of paper.

[illegible]

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ORDER AUTOCORRECTION 0.530

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (1941)  
MODELO EXPONENCIAL  
TOTAL  
ESTACION=TOTAL PROVINCIAL

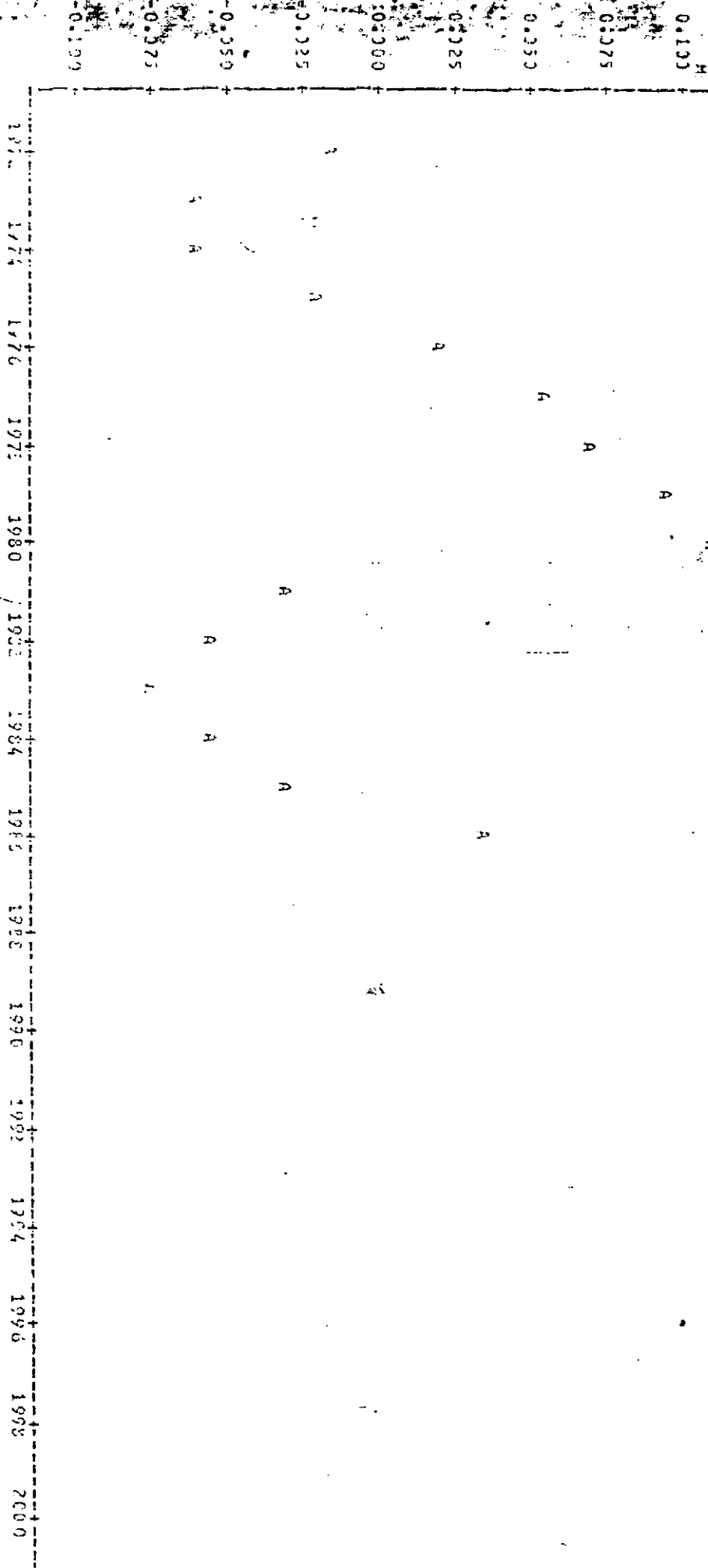
14666118

14666119

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (Wh)  
MODELO EXPERIMENTAL  
TOTAL

ESTACION=TOTAL PROVINCIAL

PLU OF RESID+ANIO    LEGEND: A = 1 025, B = 2 305, ETC.

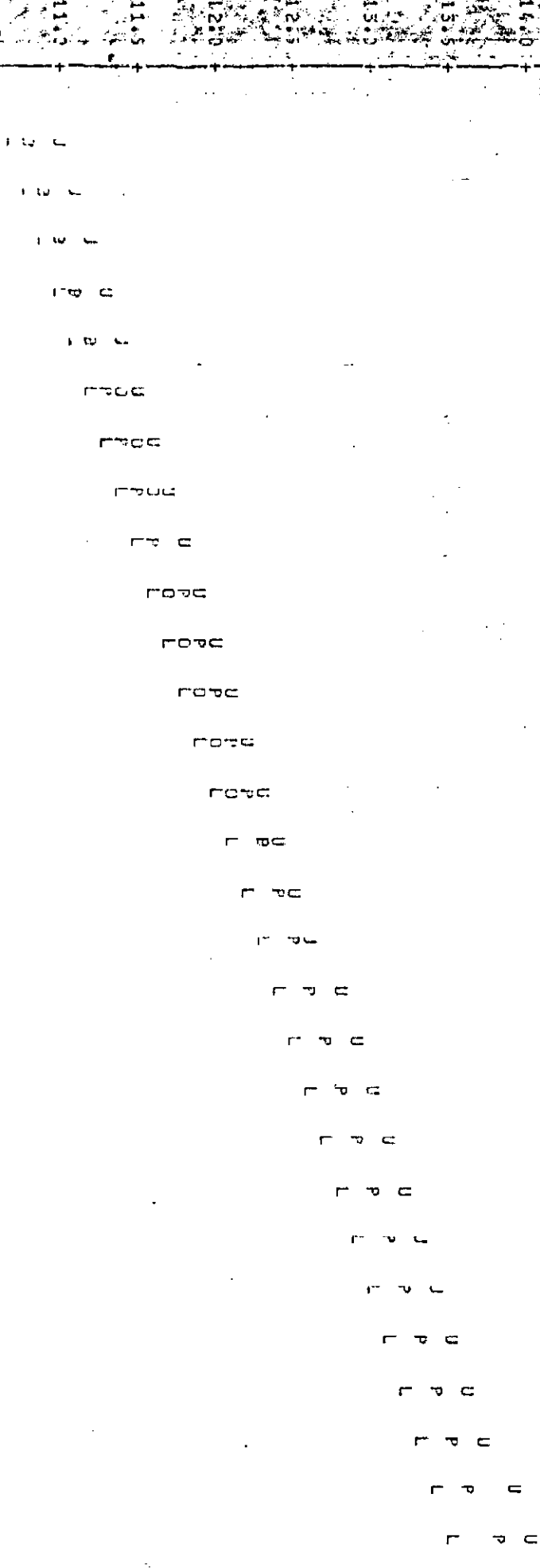


14666120

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MW)  
MODELO EXPONENCIAL  
TOTAL

ESTACLN=TOTAL PROVINCIAL

PLOT OF TOTAL+ANNO SYMBOL USED IS O  
PLOT OF PRED+ANNO SYMBOL USED IS P  
PLOT OF L95+ANNO SYMBOL USED IS U  
PLOT OF U95+ANNO SYMBOL USED IS U



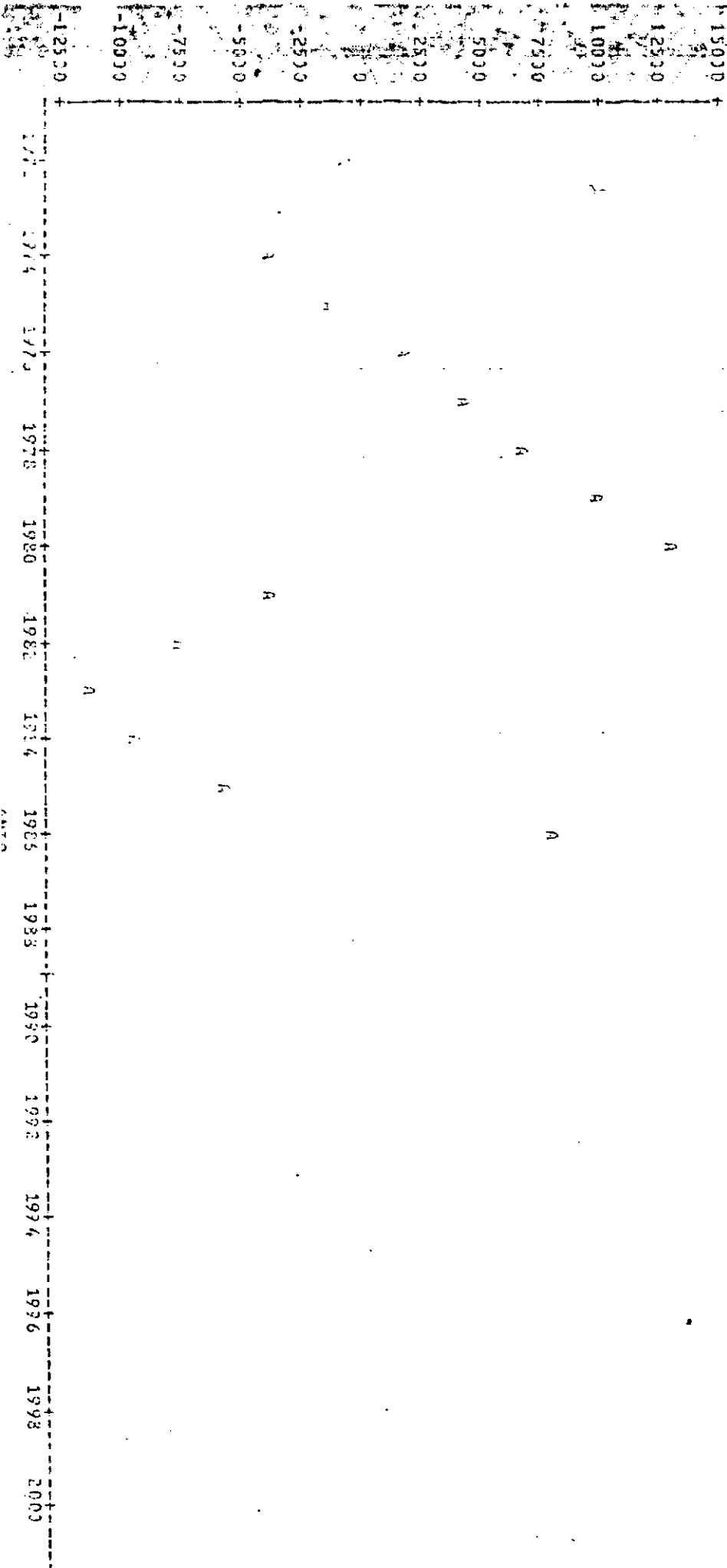


14666121

PROVINCIA DE LA PAMPA  
SISTEMAS DE ENERGIA (MWh)  
MODELO EXPONERENCIAL  
TOTAL

ESTIMACION TOTAL PROVINCIAL

PLOT OF RESID\*ANIO LEGEND: A = 1.05, C = 1.205, ETC.



14666122

PROVINCIA DE LA PAMPA  
SERIES HISTORICAS DE ENERGIA (MWH)  
MODELO EXPONENCIAL  
TOTAL

ESTACION=TOTAL PROVINCIAL

PLOT OF TOTAL\*ANIO SYMBOL USED IS O  
PLOT OF PRED\*ANIO SYMBOL USED IS P  
PLOT OF L95\*ANIO SYMBOL USED IS U

