Weekly and Seasonal Variation of Traffic Volume in Nicaragua 4-4 Annex

ESTIMATED COMPOSITION OF THE TRAFFIC - DAILY AND MONTHLY

Year:1982 MANAGUA--SAN BENITO Section : Location No. 100 ercent (%) Type of Ve ercent (%) ercent (%) ercent (%) ercent (%) ercent (%) ercent (%) ck-up as. Car eavy-T Sug hers

ESTIMATED COMPOSITION OF THE TRAFFIC - DAILY AND MONTHLY

MANAGUA--MATEARES Section: Location No. 2800

Š	ype of Ve JANUARY FEBRUARY	FEBRUARY	MARCH	APRIL	WAY	JONE	JULY	AUGUST	SEPTEMBER		NOVEMBER	DECEMBER	AVEREGE
	5, 116	4,870	0	3,954	3.645	2.915	3,370	2,958	3,047	2,850	ŀ	3,751	3, 342
	153.1	145.7	0.0	118.3	109.1	87.2	100.8	88.5			108.6	112.2	100.0
_	0	219	0	186	131	72	186	091 190				197	138
rcent (%)	0.0	158.3	0.0		94.7	52.0	134.5	72.3	113.5		177.8	142.4	100.0
ž	648	724	0		712	530	685	614	780		279	721	585
rcent (%)	110.9	123.7	0.0	103.1	121.7	9.06	117.1	104.9			47.7	123.2	100.0
٠.	2,501	1.371	0	3.042	2.360	2.547	2, 791	2,638		L	3,088	2, 794	2, 306
	108.5	59.5	0.0		102.4	110.5	121.0	114.4			133.9	121.2	100.0-
ŧ	2, 101	2,085	0	2.454	2,119	2.900	3,057	2,655	2.618	2.428	3,536	3, 234	2,432
ercent (%)	86.4	85.7	0.0	100.9	87.1	119.2	125.7	109.2			145.4	133.0	100.0
	920	741	0	1.054	962	670	867	821			815	969	763
ercent (%)	120.6	97.1	0.0	138.2	126.1	87.8	113.6	107.6		98.8	106.8	91.2	100.0
4	129	41	0	42	62	53	29	87	70		101	35	99
•	215.9	68.6	0.0	70.3	103.8	88.7	93.7	145.6	117.2	68.6		58.6	100.0
-	11.416	10,051	0	11.335	9.991	9.687	11,012	9.873	9,836	9,190	11,696	11.428	9.626
ercent (%)	118.6	104.4	0.0	117.8	103.8	100.6	114.4	102.6		95.5	_	118.7	100.0

ESTIMATED COMPOSITION OF THE TRAFFIC - DAILY AND MONTHLY

		4) UMAIEU	EDITMATEL CONTUDITION OF THE TRAFFIC - DAILS AND MONTH.	וו שנו אי	WELL - UN	TIFE MAD ME					ĺ	0000
Location No. 400	No. 400									Section:	MANAGU	MANAGUA-MASAYA	1ear: 1967
Type of V	ype of Ve JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER .	NOVEMBER	DECEMBER	AVEREGE
Pas. Car	20,154	22, 280	25.092	22,856	30,025	21,468	22, 611	22,496	24, 194	25, 284	26.345	29.076	24.073
Percent (%)	83.7	97.6	91.8	94.9	124.7	89.2	93.9	93.4	100.5	105.0	109.4	120.8	100.0
M-Bus	321	260	191	132	150	109	149	66	98	95	47	17	138
Percent (%)	3] 232.6		138.4	95.7	108.7	79.0	108.0	71.7	62.3	68.8	34.1	12.3	100.0
H-Bus	3,057	3,389	3,404	3,105	4.326	3,439	3, 397	4.021	4,453	4, 186	4,488	4,130	3, 783
Percent (%)	8.08	89.6	90.0	82.1	114.4	90.9	89.8	106.3	117.7	110.7	118.6	109.2	100.0
Pick-up	8,573	9,536	9,411	9,105	12,083	9, 995	9.446	10,452	11,946	11,569	12.040	12,598	10,568
Percent (%)	3] 81.1	90.8	89.1	85.2	114.3	94.6	89.4	98. 9	113.0	109.5	113.9	119.2	106.0
Light-T	3.880	4,197	4,241	3,781	4,662	3.952	4.079	4.138	4,834	4.713	5, 104	4.968	4.379
Percent (%)	3] 88.6	95.8	96.8	86.3	106.5	90.2	93.1	94.5	110.4	107.6	116.8	113.4	100.0
Heavy-T	129	464	517	423	611	361	368	446	424	491	929	471	473
Percent (%)	3) 120.7	98.1	109.3	89.4	129.2	76.3	77.8	94.3	89.7	103.8	111.6	93.6	100.0
Others	315	524	572	409	353	159	465	238	160	25	33	54	278
Percent (%)	0 113.3	188.4	205.7	147.1	126.9	57.2	167.2	85.6	57.5	19.8	11.9	19.4	100.0
lotal	36,871	40,710	40.428	39,811	52,210	39, 483	40,515	41,890	760.037	46, 393	48,585	51,314	43, 692
Percent (%)	3) 84.4	93.2	92.5	91.1	119.5	90.4	92.7	95.9	105.5	106.2	111.2	117.4	100.0

ESTIMATED COMPOSITION OF THE TRAFFIC - DAILY AND MONTHLY

Location No. 1205

Vear: 1982

CHINANDEGA--LEON

Section :

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ras. Lar	a	Ð	0	7,013	0	0	6,580	6.172	6, 127	27	27 0	0	0 6,543
Percent (%)	0.0	0.0	0.0	107.9	0.0	0.0	101.2	6 76	94.2			0.0	
f-Bus	0	0	0	431	0	5	363	429	367		0	0	0
Percent (%)	0.0	0.0	0.0	123.0	0.0	0.0	103.6	122.5	104.8		0.0	0.0 79.1	79.1
H-Bus	0	0	0	1, 129	0	-	1.072	1,082			0	66 0	0 994 1.087
ercent (%)	0.0	0.0	0.0	107.6	0.0	0.0	102.1	103.1	88.9	L	0.0	0.0 94.7	94.7
ick-up	0	0	0	4, 105	0	0	4.774	4,302	4, 130	Ĺ	0	0 4,192	4,192
ercent (%)	0.0	0.0	0.0		0.0	0.0	111.0	100.0	98.0		0.0	0.0 97.4	0.0 97.4 100.2
ight-T	0	0	Ð		0	0	4.642	4,373		L	û	9 3,694	
ercent (%)	0.0	0.0	0.0	91.0	0.0	0.0	113.9	107.3			0.0	0.0 90.6	90.6
eavy-T	0	0	0	1,249	0	0	179	1,348			0	0 881	381
ercent (%)	0.0	0.0	0.0	123.0	0.0	0.0	76.7	132.8			0.0	0.0 86.8	86.8
thers	0	0	0	319	0	0	214	173	208		0	0 238	0 238 263
ercent (%)	0.0	0.0	0.0	135.3	0.0	0.0	90.7	73.4	88.2		0.0	0.0 100.9	100.9
lotal	0	0	0	17,956	0	0	18, 424	17,879	16,627		G	0 16.919	
ercent (%)	0.0	0.0	0.0	102.4	0.0	0.0	105	102.0			0	98 100	5 98

TRAFFIC VOLUME

Point No.	400 (%	(Kanagua-Masaya)	aya)						Year: 1982
									*24hours
Month	Monday	Tuesday	Tuesday WednesDay	Thursday	Friday	Saturday	Sunday	Average	Percent (%)
January	7980.3	8162.5	8088.0	8028.5	7693.4	7799.3	6545.5	7756.8	104.2
February	8056.7	7895.8	7238.0	6833.0	7845.5	8204.0	6461.3	7504.9	100.8
March	7898.8	7876.4	7819.8	7617.3	7718.5	7847.8	6002.8	7540.2	101.3
April	7954.7	8111.3	8076.0	7692.2	8078.8	7722.5	6223.5	7681.3	103.2
Pay	7108.7	7115.7	7256.3	6966.3	7565.8	7876.3	6282.5	7167.4	96.3
June	7788.8	7903.0	7720.0	8280.3	8319.5	8487.8	7197.0	7956.6	106.9
July	8015.5	8002.0	7687.0	7405.5	8108.3	8022.0	7548.0	7826.9	105.2
August	6873.2	6575.6	6833.5	6794.0	7334.8	7153.0	5190.2	6679.2	89.7
September	6345.7	6220.3	6442.0	7082.6	7345.0	7326.8	5460.0	6603.2	88.7
October	7308.3	7293.3	7377.3	7647.0	7624.0	7486.8	6038.4	7253.6	97.5
November	7699.2	7822.0	7.7077	7813.8	8203.3	8334.8	6112.5	7670.5	103.
December	7704.5	8017.8	7346.0	8091.3	7854.0	8410.3	6250.3	7.5957	103.0
Averege	7.1967	7583.0	7466.0	7513.5	7807.6	7889.3	6276.0	7442.4	100.0
Percent (%)	101.6	101.9	100.3	101.0	104.9	106.0	84.3	100.0	

TRAFFIC	

1205 (Chinandega-Leon)

Point No.

						:					. •		:		
*24hours	Percent (%)	0.0	115.4	115.7		104.7		0.0	97.5					100.0	
	Average	0.0	4232.4	4244.0	3919.7	3840.7	0.0	0.0	3574.7	3255.8	3431.7	3301.5	L		100.0
	Sunday	0.0	2810.0	2688.8	2835.5	2692.0	0.0	0.0	2047.0	1925.0	2056.4	2124.0	1831.8	2334.5	63.7
	Saturday	0.0	4095.0	4181.8	3742.0	3553.7	0.0	0.0	3267.0	3362.5	3483.4	3334.3	2617.0	3515.2	95.8
	Friday	0.0	4786.0	4725.0	4091.4	4284.5	0.0	0.0	3880.0	3800.0	3941.0	3905.3	3355.4	4085.4	111.4
	Thursday	0.0	4500.0	4565.3	3974.0	4194.5	0.0	0.0	3836.0	3668.2	3682.0	3533.3	3602.4	3320.6	ł
	Tuesday WednesDay	0.0	4650.0	4656.8	4109.0	4020.0	0.0	0.0	4213.0	3280.2	3665.5	3631.8	3528.0	3972.7	108.3
	Tuesday	0.0	4351.0	4512.6	4361.8	4097.0	0.0	0.0	3824.5	3269.8	3636.0	3000.4	3790.3	3871.5	105.6
	Monday	0.0	4435.0	4377.4	4324.5	4043.3	0.0	0.0	3955.5	3485.0	3557.3	3581.3	3718.3	3942.0	107.5
	Wonth	January	February	March	April	Kay	June	July	August	September	October	November	December	Averege	Percent (%)

YEAR=1993

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YEAR-1993

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Annex 6-1 Damaged Roads and Structures by Hurricane "Joan" in October in 1988

SECTION	DAMAGED AREA	TYPE OF DAMAGE
REGION I		
Palacaguina – Quilali	Sector Pericon	<ul><li>Road Crackings</li><li>Small slope collations</li><li>One (1) culvert destroyed</li></ul>
REGION III		
San Francisco Libre	Culverts	-Twelve (12) pipe culverts in 48" dia destroyed
Ramal a Xiloa	Km 15+200 Km 24+25 Km 35+35	- Drainage ditch obstructed due to slope collation
Managua – Masaya	Km 12+100 Km 14	- Bridges damaged at wing wall due to slope collation
REGION IV		
Masaya-Tipitapa (22.2 km)	Km 44 1/2	<ul><li>Road bank erosion</li><li>Drainage ditches obstructed</li></ul>
Masaya – Granada (17 km)	Km 35 to 37 Km 43 to 45	<ul><li>Slope collations</li><li>Road bank erosions</li><li>Drainage ditches obstructed</li></ul>
Masaya – Empalme Guanacaste (25 km)	Km 33 Km 43 to 45	- Drainage ditches obstructed - Drainage ditches scoured
Granada – Empalme Guanacaste (10 km)	Cuesta La Fuente	-Slope collation and erosion of road and shoulder
Empalme Guanacaste – Empalme Grajino (10 km)	Mayaris bridge (5 m) La Barraca bridge (10 m) El Arroyo bridge (24 m)	-Bridge scoured -Bridge scoured -Bridge scoured

### APPENDIX 6-1 DAMAGED ROADS AND STRUCTURES (2/5) BY HURRICANE "JOAN" IN OCT.1988

SECTION	DAMAGED AREA	TYPE OF DAMAGE
Empalme Nandaime – Rivas (41 km)	Ochomogo bridge (54 m)	-Bridge approach scoured
Jinotepe-Empalme Nandaime (19 km)	Drainage ditches	-Scouring
Circomvention of Laguna de Apoyo (4.5 km)	Drainage system	-Scouring -Slope collation
Granada-Paso Panaloya (21 km)	Tepetate bridge	-Structure destroyed
Sn.Marcos – Ticuantepe (20 km)	Las Gradas	-Road bank and drainage ditches eroded
REGION V	·	
San Benito-Rama	Km 220	–Slope collation of 25 m in height and 80 m in length
Sto Domingo-Los Chiles Kuriwancito	La Cusuca bridge (40 m) Siquia bridge	-Bridge superstructure destroyed -Access and foundation damaged
La Gateada-Nueva Guinea	Rio Rama bridge (40 m)	-Bridge opening obstructed by wooden logs
Sector Camoapa	Verberena bridge Tierra bridge (30 m)	<ul><li>Access destroyed</li><li>Superstructure destroyed</li></ul>
Muy Muy-Boaco	Saca bridge (20 m)	-Concrete beam and steel girder damaged
Rio Rama-Amado Caballero (8 km)	Wooden bridge Timber bridge	<ul><li>Four (4) wooden bridges</li><li>destroyed</li><li>Destruction</li></ul>

### APPENDIX 6-1 DAMAGED ROADS AND STRUCTURES (3/5) BY HURRICANE "JOAN" IN OCT.1988

SECTION	DAMAGED AREA	TYPE OF DAMAGE
Las Miradas-Taloliba (22 km)	Culverts	-Four (4) culverts destroyed and other four (4) damaged
	Timber bridges (10 m)	-Two (2) timber bridges destroyed
	Wooden bridges	-Six (6) wooden bridges destroyed
El Triunfo-El Almendro (22 km)	Wooden bridges	-Two (2) wooden bridges destroyed
(22 Kill)	Timber bridges (18 m)	-Destruction
	Road Surface	-Slope collations at four (4) places
		-Destruction of road surface 400 m.
San Juan—El Chamosla (9 km)	Timber bridge (12 m) Road Surface	-Two (2) timber bridges destroyed -Destructions at 3 points, 200 m.
Nueva Guinea-Verdum	Timber bridge (15 m)	-Destruction
(5 km)	Road surface	-0.5 km of surface coarse damaged
Nueva Guinea – La Fonseca (34 km)		-Destructions at 8 points
	Culverts	-Four (4) culverts partially damaged
	Timber bridges (8 m, 12 m)	-Destruction
Nueva Guinea Nuevo Leon (15.5 km)	Road surface	-Destructions at 8 points, 2 km
,	Culverts	-Four (4) culverts destroyed
Nuevo Leon – Jose Benito Escobar (10 km)	Timber bridges Road surface	-Two (2) bridges destroyed -Destruction of 2 km

### APPENDIX 6-1 DAMAGED ROADS AND STRUCTURES (4/5) BY HURRICANE "JOAN" IN OCT.1988

SECTION	DAMAGED AREA	TYPE OF DAMAGE
Nueva Ginea-Talolinga (28 km)	Timber bridges Road surface	-Destruction of two (2) bridges -Destruction of 2 km
Nueva Guinea - San Antonio	Timber bridge (14 m)	Total destruction
Nueva Guinea-Los Pintos (5 km)	Timber bridge (12 m)	-Total destruction
REGION VI		
Sebaco-Matagalpa-Jinotega (58 km)	Km 140 Km 145 Km 146 Km 153 Km 156159	-Slope collation -Lateral cracking (left) -Lateral cracking (center) -Lateral cracking (right) -Slope collation
El Tuma-La Dalia-La Mora (55 km)	Km 180	-Erosion and settlement
La Mora-El Carmen-Waslala Iyas (87 km)	Cuesta La LLorona Rancho Grande Zinica Bridges *El Carmen (22 m) *Babasca (18 m) *Manceras (18 m) *Yaosca #1 (12 m) *Yaosca #2 (48 m) *Waslala #1 (18 m) *Waslala #2 (18 m) *Zinica (22 m)	-Transversal cracking -Road bank erosion -Slope collation -Destruction
Jinotega – Asturias – Pantasma Wiwili (97 km)	Sector Hosp.de Apanas Cuesta Wale El Cua bridge (60 m)	-Inundation -Slope collation at 3 places -Destruction

### APPENDIX 6-1 DAMAGED ROADS AND STRUCTURES (5/5) BY HURRICANE "JOAN" IN OCT.1988

SECTION	DAMAGED AREA	TYPE OF DAMAGE
San Gabriel-Mancotal Las Cruces	Culverts	Erosion
Sta.Rita—San Dionisio Esquipulas—Muy Muy (55 km)	Sn.Dionisio Sta.Rita	-Slope collation
Sn.Ramon-El Jobo-Matibuas (54 km)	Sector Yucul Cusuca Cusile (culverts)	-Slope collation -Erosion -Erosion
Matibuas – Rio Blanco Mulukuku (82 km)	Sector Paiwita Sector La Ponzola Sector Rio Blanco Bridges *BulBul bridge *Wilike bridge (25 m) *Mulukuku bridge (65 m)	- Settlements and slope collations at 7 places - Settlement at 2 places - Settlement and slope collations  - Slab damaged - Destruction - Superstructure damaged - Destruction
Pueblo Nuevo-La Colonia- Abisnia-El Cua-Bocay (89 km)		-Deep cracking on surface
Matagalpa-Apante (32 km)		-Slope collations
La Mora-La Chata-El Portillo El Cua (30 km)		Slope collations and cracks

### Annex 7-1 Environmental Checklist

### (1) Section - 1 Between Managua and Masaya

Environmental items			ndi *2					Problems
I. Living environment  1) Air quality  - Heavy machine  - Transportation  - Dust  - Quarry  - Traffic	•		3	0		2	<b>=</b> 3	passing city area dust from bare ground by cutting and embankment traffic safety emission gas from automobiles
<pre>2) Water quality   - Cutting   - Embankment   - Discharge of     water pumped   - Quarry   - Waste   - Drainage   - Traffic</pre>		2-	-3	<b>:</b>		2		SS from bare ground by cutting and embankment treatment of sur- face water
<ul><li>3) Soil contamination</li><li>- Waste</li></ul>	:		3	*		3	:	
<ul><li>4) Noise and vibration</li><li>- Heavy machine</li><li>- Transportation</li><li>- Traffic</li><li>- Bus stop area</li></ul>	:	2.	-3		1-	2		traffic increase construction by heavy machine
5) Land subsidence - Excavation - Pumping	:		3	:	÷	3	:	
6) Odor - Waste - Asphalt plant	•		3	:		3	:	
<pre>II. Natural environment 7) Land    - Cutting    - Embanking    - Quarry    - Waste dump area    - Soil dump area</pre>	•		2	<b>t</b> ,	1-	2	- -	cutting at narrow part, collapse dropped stone unused soil traffic safety
· · · · · · · · · · · · · · · · · · ·				· car sub =				(Continued)

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: 2-3 :- bridge
                            : 2~3
  8) Soil
                                             - side gutter
     - Soil erosion
                                             - Drainage
     - Soil dump area
                                             - resedimentation
     - Drainage
                                            :- Drainage
                                         2
                                2
   9) Water
                                             - damaged in side
     - Cutting
                                                water course
     - Embankment
     - Water course
     - Bridge
     - Drainage
                                         3 :- water well
  10) Underground water
                            :
                                 3
     - Cutting
     - Pumping
     - waste
                                         3:
                                 3
                                     :
  11) Sea
     - Filling
     - Water course
     - Drainage
                                            :- emission gas
  12) Flora and fauna
                            •
                                 3
     - Cleaning
                                             - cutting
                                             - domestic animals
     - Cutting
     - Embankment

    Parking area

     - Greening
                                3 : 3 :- planting
  13) Landscape
     - Cleaning
     - Cutting
     - Embankment
     - Greening
III. Social environment
  14) Waste
                                3
                                         2 :- bus stop area
     - Waste
     - Worker's facilities
     - Bus stop area
 15) Historical and
       cultural monuments
                                3
                                         3 :- access road
 16) Traffic
                                3
                                        2
                                           :- traffic safety
                                2
 17) Hazards
                                     :
                                        2
                                            :- cutting
    - Flood
                                             - water course
    - Earthquake
    - Landslide
    - Collapse
```

3 18) Relocation : : 3 : 19) Socio-economic 3 : : 3 condition 20) Cutting district 3 3 21) Safety : 2 2 :- side walk in town - Sidewalk site - Domestic animals - traffic increase 22) Recreation facilities: 3 : 3 23) Water right and right of common 3 3

* 1 : 1 : Major influence 2 : Small influence

3 : None influence

4 : Not clear

* 2 : Present environmental condition

* 3 : Environmental evaluation (Examination)

### (2) Section - 2 Between Masaya and San Benito

Environmental items		Condi P *2				Problems
I. Living environment  1) Air quality  - Heavy machine  - Transportation  - Dust  - Quarry  - Traffic	:	3	:	2	-	emission gas at town site traffic increase passing in a town site dust from cut and banked area
<ul> <li>2) Water quality</li> <li>Cutting</li> <li>Embankment</li> <li>Discharge of water pumped</li> <li>Cleaning</li> <li>Quarry</li> <li>Waste</li> <li>Drainage</li> <li>Traffic</li> </ul>	:	3	:	2-3	:-	SS from cut and banked area
<ul><li>3) Soil contamination</li><li>Quarry</li><li>Waste</li></ul>	:	3	:	3	:	
<ul> <li>4) Noise and vibration</li> <li>- Heavy machine</li> <li>- Transportation</li> <li>- Quarry</li> <li>- Traffic</li> <li>- Bus stop area</li> </ul>	:	2-3	:	2-3		passing in the town site traffic increase
<ul><li>5) Land subsidence</li><li>- Embankment</li><li>- Pumping</li></ul>	:	2	: ,	2	:-	Tipitapa river, wetland
6) Odor - Waste	:	2-3	:	2-3	: -	illegal disposal
					·	(Continued )

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II. Natural environment
                         : 3 : 3 :
  7) Land
    - Cutting
    - Embanking
    - Soil dump area
    - Waste dump area
                         : 2-3 : 2-3 :- drainage
  8) Soil
                                        - resedimentation
    - Soil erosion
    - Soil dump area
    - Drainage
                          : 2-3 : 2-3 :- drainage
  9) Water
                                        - gutter
    - Cutting
                                        - resedimentation
    - Embankment
    - Water course
    - Bridge
    - Drainage
                         : 3 :
                                     3:
 10) Underground water
    - Cutting
    - Pumping
    - waste
                          : 3 : 3 :
 11) Sea
    - Filling
    - Water course
    - Drainage
                          : 2-3 : 4 :- deforestation
  12) Flora and fauna
    - Cleaning
    - Cutting
    - Embankment
    - Parking area
    - Greening
  13) Landscape
                         : 3 : 3 :- planting
    - Cleaning
    - Cutting
    - Embankment
    - Landscape
    - Greening
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III. Social environment
                           : 2-3 : 2-3 :- illegal disposal
 14) Waste
    - Waste
    - Worker's facilities
    - Bus stop area
  15) Historical and
                               3
                                  : 3:
      cultural monuments :
                                     2-3 :- traffic increase
 16) Traffic
                               3
                               3
                                     2-3 :- flood
  17) Hazards
    - Flood
    - Earthquake
    - Landslide
    - Collapse
                               3
                                       3
 18) Relocation
                                       4
 19) Socio-economic
      condition
 20) Cutting district
                              3
                                  :
                                       3
                                          :- side walk
 21) Safety
                              2-3 : 2-3
    - Sidewalk
    - Domestic animals
 22) Recreation facilities:
                             3
                                     2-3
 23) Water right and right
       of common
```

^{* 1 : 1 :} Major influence 2 : Small influence

^{3 :} None influence

^{4 :} Not clear

^{* 2 :} Present environmental condition

^{* 3 :} Environmental evaluation (Examination)

### (3) Section - 3 Between Masay and Nandaime

					Problems
:	3	:	2-3		passing in town site dust from bare ground
•	2-3	:	2-3	:-	SS from bare ground
. •	3	:	3	* .	
*	3	:	2-3	9	traffic increase
:	3	:	3	•	
:	3	:	2-3	:	waste
:	2-3	:	2		cutting narrow part unstable slope
		: P *2 : 3 : 3 : 3	: P *2 : : 3 : : 3 : : 3 :	: P *2 : E *3  : 3 : 2-3  : 3 : 2-3  : 3 : 3	: P *2 : E *3 :  : 3 : 2-3 :-  : 3 : 2-3 :-  : 3 : 2-3 :-  : 3 : 2-3 :-

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: 2-3 : 2
                                         :- Drainage
  8) Soil
                                          - resedimentation
    - Soil erosion
    - Soil dump area
    - Drainage
                              2-3 : 2
                                         :- Drainage
  9) Water
                                          - resedimentation
    - Cutting
    - Embankment
    - Water course
    - Bridge
    - Drainage
                         : 3 : 3
  10) Underground water
    - Cutting
    - Pumping
    - waste
                              3
                                   :
                                     3
  11) Sea
    - Filling
    - Water course
    - Drainage
                              2-3 : 2-3 :- cutting
  12) Flora and fauna
                                          - planting
    - Cleaning
    - Cutting
    - Embankment
    - Parking area
    - Greening
                               3
                                   : 3
  13) Landscape
    - Cleaning
    - Cutting
    - Embankment
    - Landscape
    - Greening
III. Social environment
                              3 : 2-3 :- illegal disposal
  14) Waste
    - Waste
    - Worker's facilities
    - Bus stop area
 15) Historical and
                              3 : 3 :
      cultural monuments
 16) Traffic
                              3
                           :
                                : 2-3
                                        :- traffic safety
                                         - traffic increase
```

:- flood in small 3 : 2-3 : 17) Hazards scale - Flood - Earthquake - Landslide - Collapse 3 3 18) Relocation 4 4 19) Socio-economic condition 20) Cutting district 3 3 2-3 : 2-3 :- traffic safety 21) Safety - sidewalk - Sidewalk - Domestic animals : 2-3 :- landscape 3 22) Recreation facilities: 23) Water right and right of common 4 4

^{* 1 : 1 :} Major influence

^{2 :} Small influence

^{3 :} None influence

^{4 :} Not clear

^{* 2 :} Present environmental condition

^{* 3 :} Environmental evaluation (Examination)

### (4) Section - 4 Between Telica and San Isidro

```
: Condition *1:
                                             Problems
 Environmental items
                           : P *2 : E *3:
I. Living environment
                               3 : 2-3 :- dust from bare
  1) Air quality
                                             ground
    - Heavy machine
                                          - asphalt plant
    - Transportation
                                          - heavy machines
    - Concrete plant
    - Asphalt plant
    - Dust
    - Quarry
    - Traffic
  2) Water quality
                              3
                                  : 2-3 :- SS from bare
                                             ground
    - Cutting
                                          - SS from quarry
    - Embankment
                                          - asphalt plant
    - Concrete plant
    - Asphalt plant
    - Quarry
    - Waste
    - Drainage
    - Traffic
  3) Soil contamination : 3 : 3 :
    - Asphalt plant
    - Quarry
    - Waste
  4) Noise and vibration : 3 : 2-3:
    - Heavy machine
    - Transportation
    - Asphalt plant
    - Quarry
    - Traffic
    - Bus stop area
  5) Land subsidence
                          : 3
                                  : 2-3 :- embankment
    - Excavation
    - Pumping
  6) Odor
                              3:3:
    - Waste
    - Asphalt plant
```

```
II. Natural environment
                          : 2-3 : 2-3 :- cutting
  7) Land
                                          - embankment
    - Cutting
                                          - collapse
    - Banking
                                          - soft ground
    - Quarry
    - Waste dump area
    - Soil dump area
                             2-3 : 2-3 :- drainage
   8) Soil
    - Soil erosion
                                          - resedimentation
    - Soil dump area
    - Drainage
                            2-3 : 2-3 :- drainage during
  9) Water
                                            wet season
    - Cutting
                                          - gutter
    - Embankment
                                          wetland
    - Water course
    - Bridge
    - Drainage
                         : 3 :
 10) Underground water
    - Cutting
    - Pumping
    - waste
                          : 3 :
                                     3:
 11) Sea
    - Filling
    - Water course
    - Drainage
                                     2-3 :- passing wetland
 12) Flora and fauna : 2-3 :
    - Cleaning
                                         - cutting
    - Cutting
    - Embankment
    - Parking area
    - Planting
                                     3:
                         : 3 :
 13) Landscape
    - Cleaning
    - Cutting
    - Embankment
    - Landscape
    - Planting
                                           (Continued..)
```

A7-11

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III. Social environment
                           : 3 : 2-3 :- village site
 14) Waste
    - Waste
    - Worker's facilities
    - Bus stop area
  15) Historical and
      cultural monuments
                               3
                                   : 2-3 :- traffic increase
 16) Traffic
                              2-3:
                                      2-3 :- landslide
 17) Hazards
                                           - flood
    - Flood
    - Earthquake
    - Landslide
    - Collapse
                           : 3
 18) Relocation
 19) Socio-economic
                             4
      condition
 20) Cutting district :
                               3
                                       3
                               2
                                      2
                                         :- village and town
 21) Safety
                                              sites
    - Sidewalk
    - Domestic animals
 22) Recreation facilities: 3 : 2-3:- traffic increase
 23) Water right and right
       of common
            * 1 : 1 : Major influence
                  2 : Small influence
                  3 : None influence
                  4 : Not clear
```

* 2 : Present environmental condition

* 3 : Environmental evaluation (Examination)

Nicaragua
9
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Areas
de
Nacional de Areas Silvestres de Nicar
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į		• 1			
ž∭	No. Nombre	286	Decreto   reche		Hectraes due protége
ā. J	RESERVAS BIOLOGICAS (I)				
				- [	A STATE OF THE PARTY OF THE PAR
8	66 Rio Indio Maiz	295,000	# 527	17/04/1890	Pluviceeiva Tropical pristinas / Humedales/mamiferce en peligro de extinsión / Manaties
3.4	Cayos Miskitos	50,000		# 43-91   04/11/1991	Bancos de coral/pastos submarinos / tortugas marinas/ Manatios
-					
ď	PARQUES NACIONALES (II)				
위	13 Volcan Massys	5,100 # 79	# 79	24/05/1979	Formaciones voicanicas/eucesiones vegetales pioneras/Bosque tropical seco/feuna asociada
œ	Archipielago Zapatera	5,237	# 1194	05/02/1983	Sistema insular/Recursos arqueológicos/Bosque Tropicsi seco/fauna asociada
<del>4</del>	_	15,000	# 1789	1161/80	Bosque de Nebilaelva/Boeque humedo tropical/fauna seociada
Ĭ	MONUMENTO NACIONAL (III)				
<u>_</u>					
8	Archipielago Bolentiname	15,930 # 627	# 627	17/04/1890	Sietema Insular / Bellezas Escenicas / Recursos Arqueológicos
Įž	MONUMEN TO HISTORICO (III)				
	()				
Ē	Fortsieza la inmeculada	376	8 # 527	17/04/1890	Bitio Historico de la epoca colonia; (1700)
	REFUGIO DE VIDA SILVESTRES (IV)				
				ſ	
Ŗ	Rio Escalante - Chococente	4,800	# 1204	П	Anidacion masiva de tortugas marinas/bosques tropical seco/fauna asociada
2	Los Guatuzos	43,750	# 527	17/04/1990	Mamileros en peligro de extinsion / Bosque humedo tropical/Aves Acuaticas Migratorias
	RESERVAS GENETICAS (IV)				
				г	
2	Tusui	4,626	\$ 526	17/04/1890	Bosque de Pinares Patula sop. Tocunumanii / Isuna asociada
a	RESERVAS NATURALES (IV)				
-	Voican Coalgūina	12,420		09/1958	Boeques Tropical Seco / Fauna asociada
	_		# 1320	06/09/1963	
N	$\rightarrow$	009'9	# 1320		Manglares del Pacifico/ Fauna Marina / Estuarios
63	Τг	35,000	# 1320	08/09/1963	Mangleres del Pacifico/ Fauna Marina / Estuarico
4	_	4,600	# 1320	08/09/1983	Manglares del Pacifico/ Fauna Marina / Estuarios
(د	Complejo Volcanico San Cristobal	17,950	# 1320	05/09/1983	Bosque Tropical Seco /Limite Sur de los pinares dol continente/fauna acociada
•	6   Complejo Volcanico Telica - Rota	9,068	# 1320	08/09/1983	Bosque Tropical Seco / Fauna Asectada
		7,422	# 1320	$\neg \neg$	Bosque Tropical Seco/ Fauna Asociada
60	_ (	6,500	T	06/09/1983	Bosque Tropical Seco / Fauna Asociada / Sistema Insular/Bellezas Escenicas
•	Peninsula de Chillepe	1,600	1,800 # 1320	06/09/1983	Bosque Tropical Seco / Lagunas Cratericas / fauna acociada •
1					

	* ***	1,13%	0.64%	0.76%	9,00	90.0	0.47%	2,72%	13.52%	5.80%	0.15%	2,83%	0.75%	43.00%	6.26%	0.52%	2.96%		0.69%	28%	0.60%	0.05%	0.89%	0.62%	3.25%	0.20%		4.91%	0.19%	0.08%	76600	7.97%	10000%
SUPERIOR TOTAL	POR CLASE (ha)	147,280.0	82,880,0	28,240.0	1.150.0	3,900.0	60,750,0	354,050.0	1,756,510.0	767,149.0	15,931.0	121,490.0	0.000.98	5.599,306.0	813,393.0	81,190.0	384.600.0		89,300.0	75,000.0	78,570,0	6,200.0	115,190.0	90,380.0	421,960.0	28,000.0		638,650.0	25,250.0	10.350.0	3 900 0	1.035,335.0	128949140
						-		130.0	5,600.0			-	-	313,700.0	2.5	5,800.0			-		18,000.0	2,350.0	6,000.0	1,700.0	7,500.0						i	12,500.0	-
GRANADA SAN CARLOS PUNTA NACO				2,500.0			11,000.0	32,000.0	223,000.0	162,775.0	8,225.0	26,050,0		644,000.0	55.260.0	13,000.0					18,000.0				31,700.0			51,700.0				470,000.0	
		1,480.0	19,000.0	32,100.0			7,500.0	6.6,800.0	60,600.0	49,356.0	7,144,0		46,000.0	44,800.0	61,800.0										7,200.0			80,070.0	3,650.0		0 000 8	280,500.0	749,900,0
HOW NOT HOW NO S HOW NO S WANTEDS			1,300.0					0.000	21,450.0	3,280.0				297,400.0	8,510.0	0'006'6			2,000.0		40,570.0	3,200.0	20,500.0		34,000.0							67,060.0	510070 0
HOLA TO S				0.000	_			1,500.0	704,000.0	174,000.0				879,000.0	28,830.0									-				~	2,000.0				349 275 0 1 786 140 0 1 812 990 0
		L	28,000.0	0.000.0	650.0	_	41,000.0	199,400.0	167,000.0	167 439.0	3,562.0	0.004.00		200,000.0	L	1,540.0							0'000'2	5,850.0	9,000,0	2,000.0		N	11,500.0			152,900.0	1 786 140.0
HOLA NO 6 CHINANDEGA		52,600.0	34,580.0		500.0			54,620.0	27 760.0	8,800.0		5,040.0	48,500.0	45,340.0	0,008								39,000.0		1 200.0	24,000.0		660.0	1,300.0			4,375.0	349 275 0
MA HOLA NO S. HOLA NO B.									15,500.0	450.0			3,500.0	183,000.0	41,000.0	25,000.0	0.000.01		64,000.0		2,000.0	0.050	23,620.0	34,800.0	145,500.0					7,000.0		14.750.0	150.0
2 §								2,550.0	212	1,600.0				1,453,300,0			0.000.69		15.700.0					21,240,0	6,760.0								
HOLA NO 1 HOLA NO 2 HOLA NO 3 HOLA BOCAY PUENTO ESTELLI SIC				54,000.0		3,900.0	1,250.0	15,000.0	L	124,000.0				400,766.0	297,193.0					75,000.0								210,000.0	6,800.0			4.350.0	1 433 2590
HOUA No 2	CABEZAS							150.0	25,600.0	520.0				186,000.0	·	19,000.0	282.000.0		700.0				19,070.0	15,800.0	176,400.0					3,350.0		26,900.0	785.220.0
HOLA NO	A A								21,000.0	75,200.0				952,000.0		0.059,0	15,600.0		6,900.0														1 077 650 0
CC.ASE.		Aigodon	Cana de Azucar	Cafe	Banano	Tabaco	Arroz	Areas Fuertemente Humanizadas	Arees Humanizades	Pasto Natural	Pasto Irrigado	Savena Arbolada	Savana Erosiva	Bosque Lattolisdo Denso	Bosque Lettfolisado Raio	Bosque Latifollado Pantanoso	Bosque de Pino Denso · (Pinus Caribee)	Bosque de Pino Rato	con Letifoliada	Bosque de Pino Denso (Pinus Occarpa)	Yoillo (Palma)	Coco (Palma)	Manglar	Tierras Sujetas a Inundacion	Pentano	Terrenos Arenosos y Salados	Terrenos Rocosos con	Vegetacion Kala	Afforeciones Rocosas	Areas Incendiadas	Area Afectada por Gases Volcanicos	Lagunas	SUPERFICIE TOTAL Pa) 1 077 650:0 785 220:0 1 433 259:0 1 789
70.00	Ŝ.	gg (g)	8	ซี	рa	Ð	a	ົວ	ວິ	a	α	SB	Se	ጀ	ρ	å	š		ö	Ę	ý	8	ma	ŧ	o O	æ			α		ç		

FUENTE: MINISTERIO DE PLANIFICACION INSTITUTO NICARAGUENSE DE ESTUDIOS TERRITORIALES

### **USO POTENCIAL DE LA TIERRA**

VOCACION DE	CLASE DE UTILIZACION	SIMBOLO	AREA	
LA TIERRA			Ha	%
	Cultivos Anuales Intensivos	CAI	579,714	5.72%
AGRICOLA	Cultivos Anuales Extensivos	CAE	103,486	1.02%
	Cultivos Perennes Intensivos	CPI	728,860	7.19%
	Cultivos Perennes Extensivos	CPE	1,879,579	18.54%
(SUBTOTAL)	The state of the s	ach ambity careto.	3,291,639	32.47%
AGRICOLA/	Sistemas Agroforestales	SAF	105,550	1.04%
FORESTAL				
(SUBTOTAL)			105,550	1:04%
	Pastoreo Intensivo	Pl	658,080	6.49%
,	Pastoreo Extensivo (Suelos Acidos)	PEo	56,273	0.56%
PECUARIA	Pastoreo Extensivo (Suelos Sodificados)	PEs	17,425	0.17%
1	Pastoreo Extensivo (Suelos Superficiales)	PEp	95,905	0.95%
!	Pastoreo Extensivo (15-30 % de Pendiente)	PEt	81,386	0.80%
(SUBTOTAL)		A THE RESERVE OF THE PARTY OF THE PARTY.	909,069	8.97%
PECUARIA/	Sistemas SilvoPastoriles	SSP	255,384	2.52%
FORESTAL				. *
(SUBTOTAL)		PARKANDER MAGICA	255,384	2.52%
	Bosques de Humedad	Bh	1,419,969	14.01%
FORESTAL	Bosques de Produccion	Be	2,134,052	21.05%
	Bosques de Proteccion	Вр	1,365,873	13.47%
(SUBTOTAL)		AND THE PROPERTY OF THE PARTY.	4,919,894	48.54%
	Vegetacion de Humedades	Vh	10,318	0.10%
VIDA	Plantas y Esteros	PE	145,839	1.44%
SILVESTRE	Conos y Lavas Volcanicas	Cv	32,881	0.32%
7,2,2,7,2	Gases Volcanicos	Gv	8,662	0.09%
(SUBTOTAL)		02.734922742750	197,700	1,95%
	Cultivos Perennes Intensivos con	CPI+Bp	30,313	0.30%
·	Bosques de Proteccion		1	
VOCACION	Bosques de Proteccion con	Bp+Be	41,749	0.41%
ASOCIADA	Bosques de Produccion			
60%+40%/1	Sistemas SilvoPastoriles con	SSP+Be	194,150	1.92%
1	Bosques de Produccion	4.00		
(SUBTOTAL)	Contraction of the Contraction and the Contraction of the Contraction	water was property of the contract	266,212	2.63%
	Cultivos Perennes Intensivos con Inclusiones	CPI (CAI)	106,196	1.05%
	de Cultivos Anuales Intensivos			
	Sistemas Agroforestales con Inclusiones de	SAF (Be)	6,999	0.07%
VOCACION	Bosques de Produccion			
CON INCLUSIONES	Bosques de Produccion con Inclusiones de	Be (CAI)	5,904	0.06%
	Cultivos Anuales Intensivos		,	
70%+30%/2	Bosques de Produccion con Inclusiones de	Be (CPE)	14,792	0.15%
,	Cultivos Perennes Extensivos			
!	Bosques de Produccion con Inclusiones de	BE (CPE/SSP)	217,289	2.14%
!	Cultivos Perennes Extensivos y Sistemas	' ' ' '		.,
	Sivopastoriles			*
	Bosques de proteccion con Inclusiones de	Bp (CPI)	10,000	0.10%
	Cultivos Perennes Intensivos	12 12 12 13		
1	Cultivos referires interisivos			
!		BE (CAI/SAF)	191.041	1.88%
	Bosques de Produccion con Inclusiones de	BE (CAI/SAF)	191,041	1.88%
	Bosques de Produccion con Inclusiones de Cultivos Perennes Intensivos y Sistemas	BE (CAI/SAF)	191,041	1.88%
(SUBTOTAL)	Bosques de Produccion con Inclusiones de	BE (CAI/SAF)	191,041 552,221	1.88% 5.45%

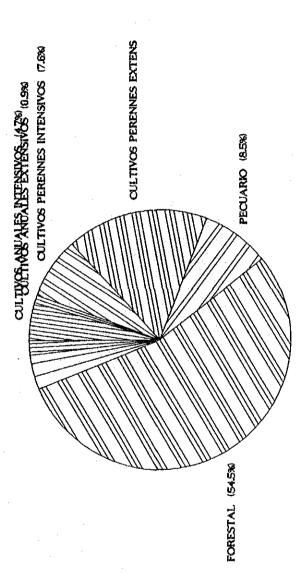
^{/1:} EL 60% DEL AREA CORRESPONDE AL PRIMER SIMBOLO Y EL 40% AL SEGUNDO SIMBOLO /2: EL 70% DEL AREA CORRESPONDE AL PRIMER SIMBOLO Y EL 30% AL (LOS) SIMBOLO (S) ENTRE PARENTESIS. Source:INETER

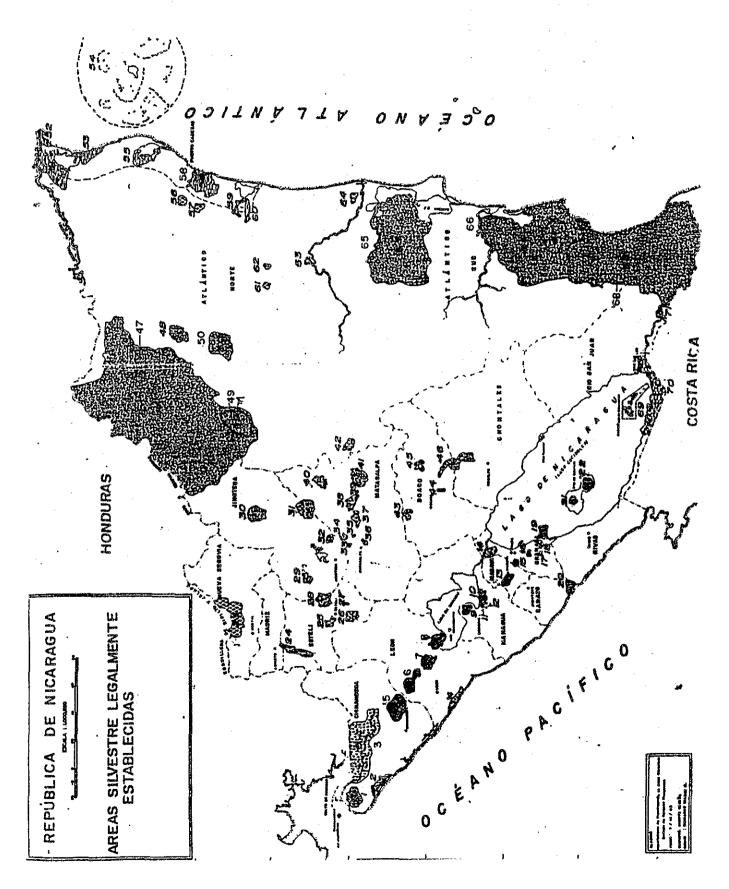
## CONFRONTACION USO ACTUAL Y USO POTENCIAL DE LA TIERRA

CLASE DE UTILIZACION	TOTALES PARCIALES	TOTALES PARCIALES   CLASE DE CONFRONTACION	FRON	TACION			
	AREA Km2	ADECUADO	%	SOBREUTILIZADO	%	SUBUTILIZADO	2%
CULTIVOS ANUALES INTENSIVOS (CAI)	5,054	2,847 56	56.33%	289	13.59%	1,520	30.08%
CULTIVOS ANUALES EXTENSIVOS (CAE)	1,000	200 20	50.00%	400	40.00%	100	10.00%
CULTIVOS PERENNES INTENSIVOS (CPI)	8,163	3,750 45.94%	5.94%	2,413	29.56%	2,000	24.50%
CULTIVOS PERENNES EXTENSIVOS (CPE)	18,759	11,338 60	60.44%	7,421	39.56%		0.00%
PECUARIO (P)	060'6	4,817 52	52.99%	666'8	43.99%	274	3.01%
FORESTAL (B)	58,150	25,859 44	44.47%	27,841	47.88%	4,450	7.65%
SISTEMA SILVOPASTORIL (SSP)	3,452	2,150 62	62.28%	305	26.13%	400	11.59%
SISTEMA AGROFORESTAL (SAF)	1,125	455 40	40.44%	414	36.80%	256	22.76%
AREAS DE CONSERVACION (VS)	1,977	1,886 95	95.40%	16	4.60%		%00.0
TOTAL ESTUDIADO	106,770	53,602 50.20%	0.20%	44,168	41.37%	000'6	8.43%
AREA SIN ESTUDIOS	13,500	-				and the second s	
CUERPOS DE AGUA	10,352						
TOTAL NACIONAL	130622				-		
Source: INETER							

## CONFRONTACION USO ACTUAL/USO POTENCIAL

DE LA TIERRA (CLASE DE UTILIZACION)





A8- 4

# Sistema Nacional de Areas Silvestres de Nicaragua

3	RESERVAS BIOLOGICAS (I)				
·					
8	68 Rio Indio-Malz	295,000	# 527	17/04/1890	Pluvioseiva Tropical priatinas / Humedales/mamiferoe en peligro de extinsión / Manatles
20	Cayos Miskitos	50,000	# 43-91	04/11/1891	Bancos de coral/pastos submarinos / tortugas marinas/ Manalies
A	PARQUES NACIONALES (II)			·	
		5,100	* 79	24/05/1979	Formaciones volcanicas/aucesiones vegetales ploneras/Bosque tropical seco/feuns asociada
6	Archipieiago Zapatera	5,227	# 1194	05/02/1983	Sistema insutar/Recursos arqueológicos/Bosque Tropical seco/fauna seociada
40	Sasinya	15,000	# 1789	09/1971	Bosque de Nebliseiva/Bosque fumedo tropical/fauna secciada
2	MONUMENTO NACIONAL (1))				
<b>G</b>	89 Archiplelago Solentiname	18,930	# 527	17/04/1990	Sistema Insular / Beliezas Escenicas / Recursos Arqueológicos
٦٥	MONUMENTO HISTORICO (11)				
	Fotaleza la Inmaculada	375	# 827	17/04/1990	Billo Historico de la epoca colonial (1700)
Ü	REFUGIO DE VIDA SILVESTRES (IV)				
0	20 Rio Escalante - Chococente	4.800	# 1284	11/08/1963	Anidecion mesive de iortuges marines/bosques tropical secolfatms esocieda
6	70 Los Gustuzos	43,750	# 527	17/04/1990	Mamiliace en pelloro de extinsion / Bosque humado tropical/Aves Acuetices Morotorias
S	RESERVAS GENETICAS (IV)				
•					
37	Yucui	4,828	# 628	17/04/1890	Bosque de Pinares Patula sop. Tecunumanii / fauna secciada
	RESERVAS NATURALES (IV)				
-	Volcan Cosimina	000			
		075,	1930	08/1808	Docation I control associates
~	Estero Padre Ramos	9,600	# 1320	08/09/1983	Mangiares del Pacifico/ Fauna Marina / Estuarios
9	Delta del Estero Resi	35,000	# 1320	08/09/1983	Manglares del Pacifico/ Fauna Marina / Estuarios
-	lete Juan Vensdo	4,600	1320	08/09/1983	Menglares del Pacifico/ Fauna Marina / Estuarios
_	Complejo Volcanico San Cristobal	17,950	1320	08/09/1963	Bosque Tropical Seco /Limite Sur de los pinares doi continente/fauna asociada
	Complejo Volcanico Telica - Rota	8,088	# 1320	08/09/1963	Bosque Tropical Seco / Fauna Asociada
7	Completo Volcanico Pitas - El Hoyo	7,422	1320	08/09/1963	Bosque Tropical Secol Fauna Asociada
	8   Complejo Volcanico Momotombo -	5,500		08/09/1983	Bosque Tropical Seco / Fauna Asociada / Sistema insular/Bellezas Escericas
<u>~</u>	Peninsula de Chillepa	009	4 4200	##O#/ OV/ 60	6

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11.03		# C7	1000	40 4 40 04 104 14004	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
-	Lagura de Hacapa	2	2	1881/11/20	Delieza Cacenicas / recurso nigino
11 L	Laguna de Asosoca	140 #	# 42-91	04/11/1981	Fuente de agua potable de la capital/Belleza Escenica
12 1.	Laguna de Nejapa	\$20	# 42-91	04/11/1891	Bellezas Escenicas / Recursos Hidricos
14 1.0	Legune de Tieme	10,295	# 1320	05/09/1983	Humedales / Aves Migratorias / Recursos pesqueros
15 6	Leguna de Apoyo	3,500 *	42-91	04/11/1991	Belleza Escanicas / Recursos Hidricos / Fauna del trópico seco
16 Vc	Volcan Mombacho	2,487	# 1320	08/09/1983	Bosque de Nebilselva / Bosque
17 La	Laguna de Mecatepe	1,200	# 1320	08/09/1983	Humedales / Sistema Lagunar / Fauna Asociada
18 H	18 Rio Manares	1,100	# 1320	08/08/1983	08/08/1953 Humedales / Sistema Riberino / Fauna Asociada
21 Vc	Volcan Concepcion	2,200	# 1320	06/09/1983	Bosque Tropical Saco / Fauna
22 Vc	Voican Madera	4,100	# 1320	05/09/1963	Boeque de Nebliseiva / Fauna / Laguna Craterica
23	Cordillers Diplito y Jalapa	41,200 #	# 42-81	04/11/1981	Bosques de Pinos / Maximinol / Occarcapa
24 Te	Tepesomoto / Pataste	8,700	18-27 #	04/11/1991	Bosque Humedo tropical
25 Ce	Cerro Quiabuc (Les Brisss)	3,630	# 42-91	04/11/1991	Bosquas de Nebileelva/Bosque Humedo tropical y fauna asociada
28 C	Cerro Tisey - Setanzuela	6,400	42-91	# 42-91 04/11/1991	Asociaciones de pinus occarpa y Quercus /orquideas
27 C	Cerro Tomabu	850 #	42-91	# 42-91 04/11/1991	Asociaciones de Pinus occarpa y Quercus
28 M	Meses de Monopolente	7,500	42.91	7,500 # 42-91 04/11/1991	Bosque tropical Humedo / Palsaje Escenico
29 14	29 Volcan Yali	\$,500	42-91	3,500 # 42-91 04/11/1991	Asociaciones de pinus occarpa y Liquidarba
30 C	30 Cerro Kilambe	10,128 #	42-91	10,128 # 42-91 04/11/1991	Bosque Humedo Tropical/ Cabezera de rios de abastecimiento de agua potable
31 M	Macizos de Peñas Blancas	11,308 #	42.91	# 42-91  04/11/1991	Bosque Humedo Tropical/Bosque Nebliseiva/cabeceras rios abastecimiento agua potable
32 C	Cerro Datanii - El Diabio	2,216	# 42-91	04/11/1991	Bosque muy Mumedo / Nabileelva
33 C	Cerro El Arenal	£ 878	# 42-91	04/11/1991	Bosque Humedo Tropical
34 F	Fila Cerro Frio - La Cumpilda	1,761	# 42-91	04/11/1991	Bosque Numedo Tropical
35 8	Salto Rio Yasica	445 #	# 42-91	04/11/1991	Bosque de Galeria / Belleza Escenicas / orquideas en peligro de extinsión
36 A	Apante	1,230 #	18-27#	04/11/1991	Asociacion pine occarpa y quercue/cabecera rice shasteciemientos agua potable
38 G	Guabule	1,100	42-91	# 42-91 04/11/1991	Bosque Tropical - Sub Humedo
39 C	Cerro Pancasan	\$30	42-91	# 42-91 04/11/1891	Bosque Tropical - Sub Humado
<del>ე</del>	Cerro Kuskawas	4,760	42-91	04/11/1991	# 42-91 04/11/1991   Bosque Tropical Humedo
41	Sierra Kiragua	# 190'9	42-01	04/11/1991	# 42-91 (04/11/1991   Bosque Humedo Tropical
42 C	42 Cerro Mueun	4,142	42-01	04/11/1881	4,142   # 42.91   04/11/1991   Boeque Humedo Tropical/Boeque Nebilselva/cabeceras rios abastecimeinto agua potable
43 0	43 Cerro Cumaica - Cerro Alegre	2,000	42-91	# 42-91 04/11/1991	Bosque Tropical Humedo / Nebliselva
44 C.	44   Cerro Mombachito - La Vieja	\$40	# 42-91	04/11/1991	Bosque Humado Tropical premontano
45 FII	File Masigüe	4,580	# 42-91	04/11/1991	Bosque Humedo Tropical
46 S	Sierra Amerriaque	12,073	# 42.91	04/11/1991	Boeque Tropical Semi-Humedo
44	Cerro Cole Manes	4 000 00			The same of the sa

# Sistema Nacional de Areas Silvestres de Nicaracua

50 Cerroe Bana Cruz 51 Laguna Tala - Sulama 52 Cabo Vielo 53 Laguna de Pahara 55 Laguna de Pahara 56 Yulu 57 Kilgna 58 Laguna Yulu Karata 58 Laguna Yulu Karata 59 Laguna Euyasica 60 Laguna Layasica 60 Laguna Layasica 61 Alamikamba 62 Limbaika 63 Makantaka 64 Liance de Karawaia 65 Cordillera de Yolaina 66 Liance de Karawaia 67 Cordillera de Yolaina 67 Cordillera de Yolaina 68 Hannes de Karawaia 69 Liance de Karawaia 60 Liance de Karawaia	Cerros Bana Cruz Laguna Tala - Sulamas Cabo Viejo Laguna Bismuna - Raya Laguna de Pahara Yulu Kilgna Laguna Yulu Karata Laguna Layasica Laguna Layasica Alamikamba Limbaika Limbaika Limbaika	10,130 31,400 11,800 1,000 1,000 25,300 1,800 1,800 1,800	43-91 ( 43-91 ( 43-91 ( 43-91 ( 43-91 ( 43-91 ( 43-91 (  43-91 (  43-91 (  43-91 (  43-91 (  43-91 (  43-91 (  43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (      43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (      43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (      43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (     43-91 (      43-91 (     43-91 (      43-91 (     43-91 (     43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (      43-91 (	10,130 # 42-91 04/11/1981 5,800 # 43-91 04/11/1981 11,800 # 43-91 04/11/1991 10,200 # 43-91 04/11/1991 10,000 # 42-91 04/11/1991 1,000 # 42-91 04/11/1991	10,130 # 42-91 04/11/1981 Bosque Tropical Humedo 31,400 # 43-91 04/11/1981 Bosque Tropical Humedo de sitios pantanosos 5,800 # 43-91 04/11/1981 Bosque Tropical Humedo de sitios pantanosos
51 Laguna T 52 Cabo Vie 53 Laguna D 55 Laguna V 56 Laguna D 60 Laguna D 60 Laguna D 61 Alamikan 62 Limbalka 63 Makantal 64 Liance d 64 Liance d 67 Cordiller 76 Cordiller 77 Bosawas	Tale - Sulamas ejo Bjamuna - Raya de Pahara  Yulu Karata Kukalaya Layasica mba mba ea	31,400 5,800 (1,1,800 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,000 (1,0)(1,000 (1,000 (1,0)(1,000 (1,0)(1,0)(1,0)(1,000 (1,0)(1,0)(1,0)(1,0)(1,00	43-91 ( 43-91 ( 43-91 ( 43-91 ( 43-91 (  43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (   43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (    43-91 (     43-91 (	4/11/1981 4/11/1981 4/11/1991 4/11/1991 4/11/1991	Bosque Tropical Humedo de sitios pantanosos Bosque Tropical Humedo de sitios pantanosos
52 Cabo Vie 53 Leguna d 55 Leguna d 56 Yulu 57 Kilgna 58 Laguna d 60 Laguna d 61 Alamikan 62 Limbalkan 62 Limbalkan 63 Makantal 64 Lianos d 67 Cordiller 7 Cordiller 7 Bosawas 87 Bosawas	ejo Bjamune - Raya de Pahara  Vulu Karata Kukalaya Layasica mba mba ea	5,800 4 11,800 4 1,000 1,000 25,300 25,300 1,800 1	43-91 ( 42-91 ( 42-91 ( 42-91 ( 43-91 (		Bosque Tropical Humedo de sitios pantenosos
53 Leguna E 55 Leguna d 56 Yulu 57 Kilgna 58 Laguna L 60 Laguna L 61 Alamikan 62 Limbalkan 62 Limbalkan 63 Makantal 64 Liance d 67 Cordiller 7 Bosawae	Giamune - Raya de Pahara  Ge Pahara  Yulu Karata  Kukalaya  Layasica  mba mba  ea  ea  de Karaweia	10,200 1,000 1,000 1,000 25,300 3,500 1,800 1,800 1,800	43-91 ( 42-91 ( 42-91 ( 43-91 ( 43-91 (		
55 Leguna d 56 Yulu 57 Kilgna 58 Laguna l 60 Laguna L 60 Laguna L 61 Alamikan 62 Limbalkan 62 Limbalkan 63 Makantal 64 Lianos d 67 Cordillar RESERVA N	de Pahara  Yulu Karata  Kukalaya  Layasica  mba  mba  ea  fea	10,200 1,000 1,000 25,300 1,800 1,800 1,800	43-91	4/11/1991 4/11/1991 4/11/1991	Mangiares / Anidación de Aves / Manaties
56 Yulu 58 Laguna V 59 Laguna L 60 Laguna L 61 Alamikan 62 Limbaikan 63 Makantal 64 Lianos d 67 Cordillar RESERVA W	Yulu Karata Kukalaya Layasica mba mba sa aka da Karawala	1,000 1,000 1,000 3,500 1,800 1,800 1,800	# 42-91 # 43-91 # 43-91 # 43-91		10,200  # 43.91  04/11/1991   Vegetación Acualica / Anidacion de aves
57 Kilgna 58 Laguna N 59 Laguna L 60 Laguna L 61 Alamikan 62 Limbelka 63 Makantal 64 Liance d 67 Cordiller RESERVA N 77 Bosawas	Yutu Karata Kukalaya Layasica mba mba se	25,300   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000	43-91		Bosque de Pinca Caribea de alto valor genético
58 Laguna Y 59 Laguna L 60 Laguna L 61 Alamikan 62 Limbelka 63 Makantal 64 Liance d 67 Cordiller RESERVA N 77 Bosawas	Yulu Karata Kukalaya Layasica mba mba se	25,300 3,500 1,800 2,100	# 43-91 # 43-91		Boeque de Pinos caribea de aito valor genálico
59 Laguna M 60 Laguna L 61 Alamikan 62 Limbelka 63 Makantah 64 Liance d 67 Cordiller 87 Bosawae 47 Bosawae	Kukalaya Layasica Imba si asi asi asi asi asi asi asi asi asi a	3,500 1,800 2,100	43-91	# 43-81 04/11/1981	Mangiares del Atlantico
60 Laguna L 61 Alamikan 62 Limbalka 63 Makanta 64 Liance d 67 Cordiller 97 Cordiller 97 Bosawas 47 Bosawas	Layasica imba a aka de Karawala	2,100	43-91	# 43-91 04/11/1991	Mangiares del Atlantico
61 Alamikar 62 Limbaika 63 Makanta 64 Liance d 67 Cordiller RESERVA N 47 Bosawae 77 Bosawae	mba aka de Karawala	2,100	, , , , ,	# 43-91 04/11/1991	Mangiares del Atlantico
62 Limbaike 63 Makantal 64 Liance di 67 Cordiller RESERVA NJ 47 Bosawae	aka de Karawala	1,800		# 42-91 04/11/1981	Bosque de Pinos Caribea de alto valor genético
63 Makanta 64 Liance d 67 Cordiller RESERVA NJ 47 Bosawae RESERVAS F	aka de Karawaia		£ 42-91 (	1,800 # 42-91 04/11/1991	Bosque de Pinos Caribea de aito valor genélico
64 Liance d 67 Cordiller RESERVA NA 47 BOSAWAS RESERVAS F	ie Kerawaia	2,000	# 42-81.	# 42-81. 04/11/1981	Bosque de Pinos Caribea de alto valor genético
97 Cordiller RESERVA NJ 47 BOSAWAS RESERVAS F	A Valuation	2,000	# 42-91	# 42-91 04/11/1991	Bosque de Pinos Caribes de alto valor genético
RESERVA NA 47 Bosawas RESERVAS F	THE CONTROL	40,000	# 42-91	# 42-91 04/11/1991	Bosque Humedo Tropical / Bosques de nebilesiva
RESERVA NA 47 BOSAWSS RESERVAS F					
47 Bosawas RESERVAS P	RESERVA NACIONAL DE RECURSOS (VI)				
47 Bosawae					
RESERVAS F	•	730,000	# 44-91 (	14/11/1991	730,000  # 44-91  04/11/1991   Bosque Humedo Tropical (Seiva tropical más extensa de Centro Amorica)
RESERVAS					
	RESERVAS FORESTALES				
85 Cerro Wawashan	awashan	231,500	# 42-91 C	4/11/1991	231,500 # 42-91 04/11/1991 Boeque Humedo Tropical Pluvioselv. / Zonas Estuarinas
		*	\$ 36-92	# 36-92 26/06/1992	asociaciones de pinos caribes / Mangiares del Atlántico
86 Cerro Silva	IV.	286,000	# 42-81 (	# 42-81 04/11/1991	Bosque Humedo Tropical Pluvioseiva / Zonas Estuarinao
		*	\$ 38-82	# 38-92 28/08/1991	Mangiares del Atlantico.
	TOTAL	2,153,855			Extensión Territorial de Nicaragua 130,000 Km2

Jacinto Cedeño S. Departamento Ordenamiento de Areas Silvestres Servicio de Parques Nacionales - IRENA Agosto 31/82

Annex 8-2 Population Data

### Population by Municipality (Estimation 1/3)

anos	REGION	DEPATRENT	D-RUNBER		STAT N-No.ZONE	K-Bo.ARE		20P 90	POP 91	POP 92	PGP 93
25		Nueva Segovia		Santa Karia	1	. 1	168	3,293	3,426	3,570	3,687
25		Rueva Segovia		Macuelizo	2	2	250	3,388	3,524	3,674	3,798
25		Nueva Segovia		Dipilto	3	3	85	3,?13	3,864	4,026	4,158
25		Nueva Segovia		Ocotal	4	4	104	25,704	26,747	27,875	28,785
25		Nueva Segovia	l	Monzonte	5	: 5	242	3,909	4,068	4,240	4,378
25		Nueva Serovia		San Fernando	<b>6</b> .	6	269	5,071	5,277	5,499	5,679
25		Rueva Segovia		Ciudad Antigua	7	7	154	2,355	2,451	2,555	2,638
25	1	Nueva Segovia		El Jicaro(Ciudad Sandi'no)	8	8	101	15,321	15,943	16,616	17,158
25	ì	Nueva Segovia	. 1	Jalapa	9	9	629	29,865	31,077	32,389	33,446
25	1	Nueva Segovia	1	Kurra	10	10	479	6.042	6,287	8,551	6.765
25	1	Nueva Segovia	1	Quilali'	11	11	329	14,571	15,162	15,802	16,318
24	i	Madriz	2	Somoto	1	1	474	2€,910	28,002	29, :83	30,136
24	1	Nadriz	2	Totogalpa	2	2	137	7,682	7,994	8,331	8,603
24	1	Madriz	. 2	<b>Telpaneca</b>	ŝ	Ç	272	9,469	9,853	10,269	10,604
24	1	Madriz	2	San Juan del Ri'o Coco	4	4	221	12,925	13,454	14,021	14,479
24	Į	<b>Kadris</b>	2	Yalagu'ina	5	5	53	7,168	7,459	7,773	8,027
24	1	Madris		Palacagu'ina	6	6	136	10,454	10,878	11,337	11,707
24	1	Madriz	2	San Lucas	7	7	139	7,727	8,041	8,380	8,654
24	. 1	Madriz	2	Las Sabanas	8	8	69	2,478	2,579	2,688	2,776
24	į	Madris	2	San Jose' de Cusuapa	9	. 9	101	4,867	5,064	5,277	5,450
19	1	Esteli'		Pueblo Nuevo	1	1	224	18,219	18,958	19,757	20,403
19	1	Esteli'		Condega	2	2	398	20.396	21,224	22,:20	22,842
19	i	Esteli'		San Juan de Limay	3	3	535	13,148	13,681	14,258	14,724
19	1	Esteli'		Esteli'	į.	4	754	79,498	82,723	86,213	\$9,028
19		Esteli'		La' Trinidad	5	5	261	18,322	19,065	19,870	20,518
19		Esteli'		San Nicola's	6	6	163	5,939	6,180	6,441	6,851
22		Chinandega		El Viejo	1	Ī	1,308	60,200	62,643	65,056	67,41?
22		Chinandega		Puerto Moraza'n'	2	2	264	10,408	10,830	11,246	11,655
23		Chinandega		Somotillo	3	1	1,089	22,367	23,275	24,171	25,049
23		Chinandega		Santo Toma's del Morte	1	2	50	5,707	5,939	6,168	6,392
23		Chinandega		Ciaco Pinos	5	3	79	6,437	6,698	6,955	7,208
23		Chinandega		San Pedro del Norte	6	4	60	3,398	3,536		3,805
23		Chinandega		San Prancisco del Horte	7	. 5	121	7,015	7,300	7,581	7,856
23		Chinandega		Villanneva	8	6	781	18,154	18,891	19,619	20,331
22		Chinandega		Chinandega	. 9	3	647	90,329	93,994	97,615	101,158
22		Chinandega		El Realejo	10	4	97	6,181	6,432	6,680	5,922
21		Chinandega		Corinto	11	;	49	21,064	21,919	22,764	23,590
22		Chinandega		Chichigalpa	12	5	257	42,668	44,399	46,109	47,783
22		Chinandega		Posoltega	13	6	124	14,118	14,691	15,256	15,811
17		Leo'n		Le'on	. 1	. 1	920	152,949	159,155	165,286	171,285
17		Leo'n		Quesalguaque	2	2	80	8,447	8,790	9,128	9,460
17		Leo'n		Telica	. 3	3	100	19,391	20,698	21,496	22,276
17		Leo'n		Larreynaga	ı	ĭ	988	31,705	32,991	34,261	35,505
18		Leo'n		El Sauce	. \$	1	727	25,335	26.883	27,913	28,332
13		Leo'n		Achuapa	6	2	099	15.080	15.692	16.298	16,388
18		Leo'n		Santa Rosa del Peno'n	7	3	238	7,342	7.640	7,934	3,222
18		Leo'n		El Jicaral	8	.4	434	7,851	8,170	8,485	8,793
17		Leo'n		La Paz Centro	9	-3 -5	508	26,295			
	•	**	J	THE COURTS	,	Ų	- 000	50,634	27,466	28,524	23,559

### Population by Municipality (Estimation 2/3)

LONE	REGION	DEPATHERT	D-AUNBER	Municipality	STAT N-No.ZONE	X-No.AR	EATR12}	202 90	POP 91	POP 92	PGP 93
17	2	Leo'n	5	Ragarote	10	6	581	26,023	27,079	28,123	29,143
30	2	Leo'n		Pro.Sandino	11	1	9	0	0	0	9
12	3	Kapagua	8	San Prancisco Libre	1	1	664	6,958	7,251	7,511	7,804
12		нападца	6	Tipitapa	2	2	973	86,993	69,711	72,204	75,024
31	3	Kanagua	6	Nateare	. 3	1	328	12,265	12,763	13,220	13,736
31	3	Kanagua	б	Villa Carlos Ponseca	4	2	581	22,844	23,771	24,621	25,583
31	3	Hanagua	6	San Rafael del Sur	5	3	375	34,285	35,676	36.951	38,395
11	3	Kanagua	6	Kanagua	6	1	683	868.015	903,233	935,520	972,072
31	3	Managua	6	Ticuantepe	?	4	. 68	14,431	15,017	15,554	16,162
3	4	Hasaya	7	La Concepcio'n	1	1	73	21,802	22,687	23,559	24,416
10	4	Kasaya	. 7	Nindirf	2	1	132	23,293	24,238	25,171	26,085
10	4	Nasaya	?	Kasaya	3	2	141	90,575	94,250	97,877	101,433
10	4	Kasaya	7	lisma	1 4	3.	198	11,131	11,583	12,029	12,466
9	4	Kasaya	7	Nasatepe	5	2	62	20,468	21,238	22,117	22,921
9	4	Kasaya	7	Nandasmo	8	3	13	7,268	7,562	7,852	8,138
9	4	Kasaya	7	Catarina	7	4	13	5,681	5,891	6,118	6,340
9	4	Kasaya	7	Niquinohomo	8	5	35	10,935	11,379	11,816	12,246
9	4	Kasaya	1.7	San Juan de Oriente	9	6	13	2,681	2,790	2,898	3,003
8	4	Carzo	. 8	San Warces	1	1	108	21,503	22,375	23,235	24,080
8	4	Carzo	8	Diriamba	2	2	345	51,564	\$3.558	55,720	57,745
8	4	Carro	8	Dolores	3	3	25	5,274	5,488	5,699	5,906
8	. 4	Carzo	. 3	Jinotepe	4	1	25?	33,862	35,236	35,591	37,922
8		Carso	3	El Rosario	5	5	11	3,788	3,942	4,094	4,242
8	. 4	Carzo	8	La Paz de Carazo	6	6	19	5,174	5,384	5,591	5,794
8	- 4	Carzo	8	Santa teresa	7	7	194	14,765	15,364	15,955	16,535
8	4	Carzo	8	La Conquista	8	8	31	5,353	6,611	6,866	7,115
ŧ	4	Granada		Granada	1	1	531	31,729	85,045	38,319	91,527
ŧ	4	Granada	3	Diria'	2	2	16	8,089	8,417	8,749	9,058
4	4	Granada	ĝ	Diriogo	3	3	42	19,879	20,586	21,482	22,263
4	. 4	Granada	9	Nandaine	1	4	340	32.513	33,332	35.134	36.411
2	4	Rivas	10	Tola	1	ì	474	18,549	19,302	20.845	20,773
2	4	Rivas	10	Bele'n	3	9	282	15,213	<b>:5,</b> 836	18,439	17,037
2	4	Rivas	10	Potosi';	3	3	146	8,485	8.329	3,168	9,592
3	4	Rivas	16	Buencs Aires	4	4	65	5.054	5,259	5,462	5,660
2	- 4	Rivas	10	Rivas .	5	£	139	31.738	33,926	34.298	35,543
2		Rivas	. 10	San Jorge	Ę	5	22	7,065	7,341	7,824	7,901
3	4	Rivas		San Juan del Sur	7	1 -	598	14,793	15.300	15,889	16,466
. 9	4	Rivas	19	Ca'rdenas	8	- 1	163	3,091	3,316	3,340	3,481
2	4	Eivas	10	Koyogalpa	3.	. 8	53	9,098	9,467	9,831	10,189
Ç	1	Rivas	10	Altagracia	10	. 9	203	14.320	14.901	15,475	18.037
ő	£	Boacc	11	Sn.Jose' de los Remaies	1	1	254	6,045	6,632	5.373	7,105
€	5	Boaco	\$ 1	Teustepe	2	2	669	18.687	19.445	29,244	20.327
. ;	5	Boaco	11	Santa Luci's	ç	3	120	7.701	3,013	8,342	8,624
6	5	Boaco	11	Boaco	1	‡	1,042	34.599	36,003	37,434	33.747
6	5	Boaco	11	Савоара	5	5	1.478	25,527	28,563	27,654	28,537
6	- 5	Boaco	11	Sn. Lorenso	ĝ	5	881	17,307	18,634	19,339	20.054
5	5	Chontales	12	Comalaça	1	1	536	7,157	7,44?	7,753	8,015
5	5	Chontales	12	Juigalpa	2	9	1,037	43,794	45,571	47.443	49,044
Ş	5	Chontales	12	la Libertad	:	3	761	5.26;	5.474	5.898	£.801

SONE	REGION	DEPATHENT	D-NUNBER	. Municipality	STAT K-No.	ZORR N-Ro.	ARRA(km2)	POP 90	POP 91	POP 92	POP 93
5		Chontales		Santo Domingo	4	4	717	16,851	17.535	18.254	18,370
î		Chontales		San Pedro de Lo'vago	5	ŗ	604	12,828	13,348	13,895	14,365
5		Chontales		Santo Toma's	,	î	450	12.935	13,469	14,013	14,486
5		Chontales		Acoyapa	,	,	1,655	14.046			
5		Chontales		Villa Sandino	6	9	1.168	16,225	14,616	15.217	15,730
20				Riwili'	1				16.883	17,578	18,170
		Jinotega Jinotega			i		3,011	24,279	25,264	26,224	27,190
20		Jinotega		Cu'a-Bocay	Ž	2	1,234	29,168	30,351	31,503	32,664
20		Jinotega		San Sebastia'n de Yali	<u>ئ</u>	3	311	13,473	14,020	14,552	15,088
20		Jinotega		La Concordia	4	4	122	5,397	5,616	5,830	6,044
20		Jinotega		San Rafael del Rorte	, 5	‡	395	14,620	15,213	15,791	16,372
20		Jinotega		Santa Mari'a de Pantasma	6	E	563	15,584	16.216	16,832	17,452
20		Jinotega		Jinotega	7	7	1,119	61,138	63,619	65,034	68,468
13	δ	Matagalpa		San Isidro	1	1	150	12,819	13,339	13,846	14,356
13	б	Katagalpa	14	Se'baco	2	2	282	20,575	21,410	22,223	23,042
13	. 6	Matagalpa	14	Ciudad Dario	3	3.	308	33,195	34,542	35,854	37,175
13	6	Natagalpa	- 14	Terrabona	. 4	4	282	10,090	10,499	10,898	11,299
14		Katagalpa	14	San Dionisio	5	i	152	10,630	11,061	11,481	11,904
. 14		Matagalpa	14	Esquipulas	6	2	216	12,615	13,127	13,625	14,127
14		Matagalpa		Nuy Kuy	. 7	3		8,224	8,558	8,882	9,210
14		Matagalpa		Katagalpa	8	1		84,740	88,178	91,527	94,898
14		Matagaipa		San Rano'n	. ŷ	5	487	19,819	20,623	21,406	
14		Katagalpa		El Tuma-La Dalia	10	6.	462				22,195
14		Matagalpa		Rancho Grande	11	7	648	31,796	33,086	34,342	35,608
14					12	ľ		15,487	16,115	16,727	17,343
14		Matagalpa		Katigua's		8	1,335	28,700	29,864	30,998	32,140
		Matagalpa		Ri'o Blanco	13	9	2,684	33,333	34,685	36,003	37,329
29		Atla'ntico Norte		Waspa'n	1	1	8,133	23,239	24,182	25,108	26,025
15		Atla ntico Norte		Bonanza	ż	I	2,039	7,426	7,727	8,023	8,316
15		Atla atico Borte		Rosita	3	2	4,418	11,650	12,123	12,588	13,047
16		Atla'ntico Norte		Puerto Cabezas	4	i	5,787	28,450	29,604	30,739	31,860
15		Atla'ntico Norte		Paslala	5	3	1,291	21,285	22,149	22,990	23,837
15		Atla atico Borte		Siuna	б	4	4,238	25,544	26,580	27,598	28,606
16		Atla'ntico Norte		Prinsapolka	7	2	6,253	2,935	3,054	3,171	3,287
7		Atla'ntico Sur	16	Paiwas	1	1	1,478	4,488	4,670	4,848	5,026
28	. 8	Atla'ntico Sur	16	La Crus de Ri'o Grande	2	1 -	6,360	12,176	12,670	13,190	13,635
28		Atla'ntico Sur	16	Laguna de Perlas	3	2	3,876	4,697	4,888	5,090	5,261
28	8	Atla'ntico Sur	16	Kukra Hill	4	3	1,262	6,141	8,390	6,653	6,877
7	8	Atla'ntico Sur	16	El Rama	5	2	5,618	32,915	34,250	35,658	36,860
7	8	Atla'ntico Sur	16	Muelle de los Baeyes	6	3	1,391	23,420	24,370	25,370	26,227
7		Atla'ntico Sur		Nueva Guinea	7	4	2,774	43,736	45,511	47,381	48,980
27		Atla'ntico Sur		Bluefilds	8	i	4,639	34,142	35,527	36,988	38,235
27		Atla'ntico Sur		Corn Island	q	2	9	5,079	5,285	5,502	5,688
1		Rio San Juan		Moritto	1	1	677	4,501	4,884		
1		Rio San Juan		El Almendro	2	2	993	8,417		4,869	5,041
i		Rio San Juan		San Riguelito	?	. 3	923		8,758	9,117	9,425
1		Rio San Juan		San Carlos	J.	. 3		7,628	7,937	8,251	8,542
i		Rio San Juan		El Castillo	r r	•	1,462	14,621	15,214	15,816	16,374
26		Rio San Juan		San Juan del Korte	. e	1	1,656	5,042	5,247	5,454	5,646
32					i) t	1	1,762	551	573	598	616
32 32		Prontera Norte		Honduras Pl Calcadan	1	1					
		Prontera Norte		El Salvador	2	2					
32		Prontera Horte		Guatemala	3	3			÷		
32		Prontera Norte		Mexico	- 4	4					
32		Proatera Borte		EEUU	5	5					
32		Prontera Norte	18	Canada	6	6					
33	11	Prontera Sur	19	Costa Ricá	1	1					
33	11	Prontera Sur	19	Рапана	2	2					
33	11	Prontera Sur		Sur America	3	3					
TOTAL					•	-	121,428 3	.673.044 2	822 072 2	,968,500 4,	113 360
					x0 10		,.00 0	12.01011 0	inemining	Induiang #	1191961

# Population by Municipality (Estimation 1995-2025: 1/3)

ZONE	REGION DEPAINENT	D-RUMBER . Municipality	STAT M-No.20	98 X-No.AGE	A(ka2)	EST 1995	EST2000	EST2005	EST2010	8ST2015	EST2020	2S72025
17	2 Leo'n	S Magarote	10	б	581	31,196	16,339	41,761	47,320	52,917	58,466	63,887
30	ž teo'n	5 Pro.Sandino	11	1	Ø	0	0	0	Q.	C	0	O
12	3 Managua	6 San Francisco Libre	1	1	664	8,342	9,710	11,153	12,632	14,122	15,598	17,041
12	3 Kanagna	6 Tipitapa	2	2	973	80,193	93,334	107,192	121,400	135,707	149,889	163,741
31	3 Managua	6 Nateare	3	1	328	14,684	17,091	19,629	22,232	24,852	27,450	29,988
31	3 Kanagua	6 Villa Carlos Ponseca	į.	2	581	27,345	31,828	36,553	41,399	46,278	\$1,11\$	55,839
31	3 Kanagua	6 San Bafael del Sur	\$	3	375	41,040	47,765	54,857		69,449	76,706	83,795
11	3 Managua	6 Nanaguá	8	. 1	683	1,039,030	1,209,300	1,388,847	1,572,924	1,758,301	1,942,041	2,121,514
31	3 Nanagua	6 ficuantepe	7	ţ	68	17,276	20,109	23,095	26,158	29,241	32,298	35,283
3	4 Nasaya	7 La Concepcio'n	. !	1	73	26,135	30,443	34,984	39,640	44,328	48,976	53,516
10	4 Kasaya	7 Riadirf	2	1	132	27,922	32,523	37,375	42,348	47,357	52,322	\$7,172
10	4 Nasaya	7 Masaya	3	2	141	108,575	125,471	145,336	164,678	184,155	203,463	222,324
- 10	4 Nasaya	7 Tisma	Į.	3	198	13,344	15,545	17,854	20,243	22,637	25,011	27,330
3	4 Nasaya	7 Masatepe	5	2	62	24,534	28,576	32,838	37,208	41,508	45,970	50,230
9	4 Kasaya	7 Mandasmo	6	3	13	8,710	10,143	11,655	13,204	14,764	16,311	17,822
9	4 Nasaya	7 Catarina	7	4	13	6,787	7,905	9,085	10,296	11,514	12,721	13,901
9	4 Masaya	7 Hiquinohomo	. 8	5	35	13,108	15,269	17,546	19,881	22,232	24,565	26,840
9	4 Nasaya	7 San Juan de Oriente	9	6	13	3,215	3,745	4,306	4,880	5,457	6,030	6,590
8	4 Carzo	8 San Marcos	1	I	108	25,774	30,022	34,498	39,089	43,711	48,293	52,769
8	4 Carzo	8 Diriamba	2	. 5	145	61,810	71,997	82,736	93,746	104,834	115,324	126,561
8	4 Carso	8 Dolores	3	3	25	6,321	7,364	8,461	9,587	10,721	11,845	12,942
8	4 Carzo	8 Jinotepe	4	1	257	40,592	47,283	\$4,336	61,568	68,850	76,089	83,121
8	4 Carzo	8 El Rosario	\$	5	11	4,541	5,239	5,078	6,887	?,702	8,509	9,298
8	4 Carro	8 La Paz de Carazo	6	6	19	6,202	7,224	8,301	9,405	10,517	11,620	12,696
8	4 Carso	8 Santa teresa	7	7	194	17,699	20,617	23,891	26,845	30,019	33,167	36,241
8	4 Carzo	8 La Conquista	8	8	91	7,617	8,873	10,197	11,554	12,922	14,277	15,601
	4 Granada	9 Granada	1	ł	531	97,972	114,121	131,146	148,600	166,176	183,600	200,620
4	4 Granada	9 Dicia'	2	2	16	3,695	11,292	12,975	14,701	16,439	18,162	19,845
41	4 Graeada	9 Diriono	3	ĵ	12	23,831	27,760	31,302	36,148	10,424	44,663	48,804
1	4 Granada	3 Handaime	4	4	340	38,975	45,393	52,172	59,115	56,108	73,039	79,810
2	f Bivas	10 Tola	1	i	(?(	22,237	25,902	29,786	33,728	37,718	41,572	45,538
2	4 Rivas	10 Bele'n	3	2	282	18,236	21,243	24,411	27,561	30,932	34,176	37,344
2	4 Rivas	10 Potosi'	3	3	146	10,171	11,8		15,425	17,249	19,057	20,823
2	4 Rivas	10 Buenos Aires	į.	4	55	6,059	7,558	8,111	9,191	10,278	11,357	12,409
. 2	4 Rivas 4 Rivas	10 Rivas	\$	5	139	38,047	44,318	50,930	57,708	64,535	71,301 15,852	77,911
2 3	4 Rivas	10 San Jorge	5	6	22	8,458 17,526	9,852 20,532	11,323	12,829	14,348 29,898	33,033	17,322 36,095
2	4 Kivas 4 Rivas	10 San Juan del Sur	? 8	1	598	2,705	4,315	23,595 4,958	26,736 5,617	6,281	6,939	30,033 ?,582
2	4 Bivas	10 Ca'rdenas	•	7	163	10,908	12,704	14,599	18,543	18,459	20,440	22,334
2	4 Rivas	19 Moyogalpa	9 10	. 8	63	17.167	19,997	22,380	26,039	29,119	32,173	35,155
<i>t</i> 5	5 Boace	10 Altagracia		9	203	7,815	8,877	10,205	11,568	12,940	14,301	15,630
i E	5 Boaco	11 Sa.Jose' de los Remate		1	254	22,430	26,148	30,065	34,082	28,126	12,137	46,053
: (5	5 Boaco	11 Yeusteps	\$	2	559	9,243	10,775	12,389	14,044	15,710	17,352	18,976
- 5 5	5 Boaco	11 Santa Suci'a 11 Boaco	3	3	120	11,533	48,417	55,572	63,111	70,601	78,027	85,281
e E	5 Boaco		4 5	4 5	1,042	30,542	35,719	41,071	48,557	52,082	57,559	62,511
6	5 Boaco	li Camoapa li Sn.Lorenso	5 8		1,478 681	21,495	25,058	28,812	32,652	36,538	10,381	44,135
o 5	5 Ovaco 5 Chontales	11 Sh.Lorenso 12 Comalaga	-	8	586	8,591	10.015	11,515	13,054	14,603	16,139	17,639
Ş	5 Chontales	:2 Juigalpa 12 Juigalpa	1	1	1,037	52,568	61,280	70,462	79,875	89,355	98,752	107,933
5	5 Chontales		<b>?</b> 3	9		6,313	7.250	9,460		10.727	11.854	15.022
,	A ORGITTIER	12 La Libertad	ú	÷	761	0.019	1122	3.700	2.103	10.141	11.007	16

### Population by Municipality (Estimation 1995-2025: 2/3)

ZONE	REGION	DEPATHENT	D-FONBER	Nunicipality	STAT N-No. ZONE	N-Ho.A	REA(ka2)	EST1995	8812900	2812005	EST2010	EST2015	EST2020	25 <b>7</b> 2025
25	1	Ngeva Segovia	1	Santa Maria	1	1	168	3,353	1,509	5,300	6,008	6,721	7,428	8,119
25		Nueva Segovia	ţ	Macuelizo	<b>2</b>	2	250	4,068	1,712	5,454	6.183	6,918	7.645	8,357
25	1	Nueva Segovia		Dipilto	3	3	85	4,459	5,199	5,979	€,779	7,584	8,382	9,162
Ž5	I	Nueva Segovia	I	Ocotal	4	4	104	30,871	35,998	41,402	46.941	52,520	58,049	63,453
25	j	Nueva Segovia	Į	Ronsonie	5	5	242	4,695	5.477	6,299	7,143	7,991	8,834	9,656
25	1	Nueva Segovia		San Fernando	6	6	269	5,091	7,102	8,168	9,261	10,362	11,453	12,518
25	1	Nueva Segovia		Ciudad Antigua	7	7	154	2,830	3,301	3,797	4.307	4,619	5,327	5,823
25	1	Bueva Segovia		El Jicaro Ciudad Sandi'no	8	8	101	18,402	21,459	24,681	27,984	31,317	31,608	37,830
25	1	Nueva Segovia	Į	Jalapa	9	ĝ	629	35,871	41,830	48,112	54,550	61,935	87,462	73,743
25		Nueva Segovia		Rurra	10	10	179	7,255	8,460	9,729	11,030	12,340	13,639	14,903
25	. 1	Nueva Segovia	1	Quilali'	11	12	339	17,501	20,408	23,473	26,613	29,777	32,913	35,977
21	1	Madriz	Z	Somoto	1	l	474	32,320	37,688	13,345	49,146	54,986	60,777	66,434
24	1	Madriz	Ş	Tetogalpa	2	3	137	9,227	10,760	12,375	14,030	15,698	17,351	18,966
24	1	Madriz	3	Telpaneca	Ĉ.	3	272	11,372	13,262	15, 352	17.294	19,348	21,386	23,376
24	1	Madris		San Juan del Ri'o Coco	,4	Ę	221	15,529	18,107	20,826	23,612	26,418	29,200	31,918
24	1	Nadriz	Ş	Yalago'ina	5	5	53	8,609	10,037	11,544	13,088	14,643	16,185	17,691
24	1	Madris	Ş	Palacagu'ina	6	6	136	12,555	14,640	16,838	19,091	21,360	23,609	25,806
24	i	Madrit	S	San Lucas	. 7	7	139	9,282	10,824	12,450	14,116	15,795	17,458	19,084
24	1	Kadriz	2	Las Sabanas	8	8	69	2,977	3,474	3,99£	4,532	5,071	5,606	6,128
24	1	Madriz	2	San Jose' de Cusmapa	9	9	101	5,844	6,814	7,835	3,884	9,940	10,986	12,008
19	1	Esteli'	3	Pueblo Nuevo	1	1	224	21,881	25,516	29,345	33,272	37,225	41,146	14,975
19	1	Esteli'	3	Condega	2	2	398	24,498	28,569	32,858	37,256	41,685	15,076	50,366
19	į	Esteli'	3	San Juan de Liway	3	3	535	15,791	18,413	21,178	24,011	26,865	29,693	32,457
19	1	Esteli'		Esteli'	4	ŧ.	754	95,480	111,340	128,054	145,188	162,444	179,550	196,263
19	1	Esteli'	- 3	La' Triaidad	5	5	251	22,005	25,660	29,511	33,461	37,437	41,380	45,231
19	1	Esteli'	3	San Ricola's	δ	8	163	7,134	8,318	3,567	10,847	12,137	13,415	14,664
22	2	Chinandega	4	El Viejo	1	1	1,308	72,165	-84,061	96,601	109,459	122,406	135,240	147,778
22	2	Chinandega	4	Puerto Moraza'n	2	2	264	12.475	14,530	16,696	18,917	21,154	23,371	25,537
23	2	Chinandega	4	Somotillo	3	1	1,089	26,813	31,233	35,893	10,671	45,482	50,251	56,310
23	2	Chinandega	4	Saato Toma's del Norte	4	2	50	6.843	7,972	9,162	10,382	11,511	12,829	14,019
23	2	Chinandega	4	Cinco Pinos	Ş	3	79	7,715	8,985	10,325	11,698	13,081	14,451	15,790
23	2	Chinandega	ł	San Pédro del Borte	δ	4	80	4,073	4,743	5,451	6,176	6,906	7,530	8,337
23	2	Chinandega	4	San Francisco del Morte	7	5	121	8,409	9,795	11,256	12,755	14,263	15,759	17,220
23	2	Chinaadega	4	Villanneva	8	6	781	21,763	25,352	29,134	33,013	36,918	40,790	44,572
22	. 2	Chinandega		Chinandega	9	3	847	108,283	126,133	144,950	164,242	183,569	202,927	221,740
. 55		Chimandega		El Realejo	10	4	97	7,410	8,631	9,919	11,239	12,569	13,887	15,174
21	2	Chinandega	4	Corinto	11	1	49	25,252	29,416	33,805	38,306	42,817	47,330	\$1,718
22		Chinandega		Chichigalpa	12	5	257	\$1,148	39,580	68,467	77,580	86,755	95.352	104,737
22		Chinandega		Posoltega	13	5	124	16,924	19,714	22,655	25,671	28,707	31,718	34,658
i7		leo'n		Le*on	1	1	820	183,349	213,573	245,434	278,100	310,994	343,803	375,456
17		Leo n	\$	Caesa i gasque	. 5	2	80	10,128	11,796	13,555	15,360	17,176	18,978	20,737
17		reo a		Telica	3	ç	400	23,848	27,777	31,922	36,170	10,450	44,691	48,835
17		reo u	5	Larreynaga	ţ	ţ	888	38,005	44,268	50,871	57,840	64,457	71,215	77,816
18		Leo'n		El Sauce	5	1	727	30,970	36,075	11,457	16,974	52.531	58,638	63,419
13		Lee 't:	ŧ,	Achuapa	δ	2	333	18.07	21.05?	24,199	27,419	30.663	33.876	37,018
18		Leo'a	5	Santa Rosa del Peno'n	?	3	238	3,801	10.251	11,780	13,348	14,926	16,491	18,020
18		Leo'c		El Jicaral	3	į	131	9,413	10,966	12.602	14,281	15,970	17,646	19,282
t?	2	Leo'n	5	La Par Centro ·	3	5	30c	31,841	36,857	42,355	47,991	53,668	59,294	64,791
													-	•

## Population by Municipality (Estimation 1995-2025: 3/3)

JONE	REGION DEPATMENT	D-RUKBER	Municipality	STAT X-No. 2	ORZ N-Ro.	AREA(1m2)	EST1995	EST2000	2ST2005	EST2010	EST2015	ESF2020	2ST2025
5	5 Chontales		Santo Domingo	1	4	717	20,225	23,575	27,105	30,725	34,370	37,984	41,514
5	5 Choatales	12	San Pedro de Lo'vago	5	5	103	15,397	17,947	20,635	23,391	26,166	28,917	31,605
5	5 Chomtales	12	Santo foma's	δ	б	450	15,528	18,101	20,814	23,595	26,395	29,171	31,883
5	5 Chontales		Acoyapa	7	. 1	1,055	16,861	19,655	22,601	25,620	28,662	31,676	34,621
5	5 Chontales		Villa Sandino	8	8	1,168	19,477	22,705	26,107	29,596	33,108	36,590	39,992
20	6 Jinotega		Vivili'	1	·• 1	3,011	29,097	33,888	38,940	44,119	49,335	\$4,504	59,555
20	6 Jinotega		Cu'a-Bocay	. 2	3 .	4,234	34,954	40,708	46,775	52,994	59,257	65,466	11,530
20	δ Jinotega		San Sebastia'a de Yali	3	1	311	16,146	18,804	21,606	24,480	27,372	30,241	33,942
20	6 Jinotega		la Concordia	4	4	122	6,168	7,534	8,657	9,809	10,958	12,118	13,240
20	6 Jinotega		San Bafael del Rorte	5	5	395	17,520	20,404	23,444	26,562	29,701	32,812	35,852
20			Santa Mari'a de Pantasma	6	6	563		21,751	24,992	28,316	31,662	34,980	38,220
20	6 Jinotega		Jinotega	7	?	1,119	73,270	85,333	98,053	111,092	124,224	137,240	149,956
13 13	6 Matagalpa		San Isidro Se'baco	1 2	1 2	150	15,363	17,893	20,550	23,295	26,048	28,778	31,445
13	8 Matagalpa 6 Matagalpa		se paco Ciudad Dario	3	3	282 806	24,6\$8	28,718	12,999	37,388	11,807	48,188	50,468 81,423
13	ô Watagalpa		Terradona	4	j	282	39,783	16,334	53,240 16 100	60,321	67,481	74,519	24,742
16	6 Matagaipa		San Dienisio	5	1	152	12,092	14,082	16,180	18,331 19,313	20,497 21,595	22,545 23,858	26,668
14	6 Matagalpa		Esquipulas	ñ	2	216	12,739 15,117	14,836 17,605	17,047 20,229	22,919	25,627	28,312	30,935
14	6 Matagalpa		Nuy Nuy	7	3	375	9,855	11,478	13,188	14,942	16,708	18,458	20,168
14	6 Matagalpa		Matagalpa	8	4	544	101,553	118,272	135,900	153,972	172,171		207,833
- 14	6 Matagalpa		San Ramo'n .	ğ	5	487	23,752	27,662	31,785	36,012	10,269	11,188	48,610
14	6 Matagalpa		El Tuma-La Dalia	10	6	462	38,105	44,379	50,993	57,775	64,604	71.373	77,986
14	6 Matagalpa		Bancho Grande	11	1	648	18,559	21,614	24,835	28,137	31,462	34,758	37,978
14	6 Natagalpa		Matigna's	12	8	1,335	14,393	40,055	46,024	52,145	58,307	64,417	70.384
14	6 Natagalpa		&i'o Blanco	13	9	2,681	39,947	16,525	53,459	60,569	57,728	74,825	81.758
29	7 Atla atico Hor		Vaspa'n	1	1	8,133	27,855	32,444	37,283	42,243	47,238	\$2,190	57,027
15	7 Atla'ntico Hor	te 15	Bonanza	2	1	2,039	8,900	10,367	11,912	13,497	15,093	16,675	18,220
15	7 Atla'ntico Ror	te 15	Rosita	3	2	4,418	13,965	15,287	18,693	21,181	23,686	26,169	28,595
16	7 Atla'ntico Bor		Puerto Cabezas	4	1	5,787	34,100	39,719	45,641	51,714	57,829	63,891	69,811
15	7 Atla atico Ror		Vaslala	5	3	1,291	25,509	29,709	34,137	38,678	43,249	47,782	52,208
15	7 Atla'ntico Ror		Siuna	6	ł	1,238	30,617	35,661	40,978	46,431	51,921	57,363	62,679
16	7 Atla'ntico Bor		Prinsapolka	7	2	6,253	3,518	4,098	4,709	5,336	5,967	6,593	7,204
7	8 Atlaintico Sur		Paivas	1	. 1	1,478	5,379	5,264	7,198	8,156	9,120	10,075	11,009
28	8 Atlaintico Sur		La Cruz de Bi'o Grande	2	1	8,360	14,615	17,035	19,587	22,202	24,837	27,448	30,000
28	8 Atlaintico Sur		Laguna de Perlas	3	2	3,876	5,640	6,577	7,563	8,575	9,534	10,694	11,591
28 7	8 Atlaintice Sur	16	Mokra Mill		3	1,262	7,371	8,593	9,880	11,201	12,529	13,848	15,135
,	8 Atla'ntico Sur 8 Atla'ntico Sur		El Bana	•	,	5,618	39,509	46,055	52,95£	60,030	67,154	74,215	81,115
;	8 Atla atico Sur		Muelle de los Bueyes Ruéva Guinea	6 7	3 4	1,391	28,111	32,768	37,677	42,710	47,977	52,802	57,709
27	8 Atlaintico Sur		Bluefilds	8	1	2,774	\$2,501	61,202	70,374	79,776	89,245	98,631	107,802
27	8 Atla atico Sur		Corn Island	9	2	4,639 9	40,983 6,097	47,776 7,107	54,935 8,172	62,274 9,284	69,665 10,364	76,993 11,454	84,151 12,518
1	9 Rio San Juan		Moritto	1	l l	677	5,400	δ,291	7,232	8,196	9,168	10,130	11,071
i	9 Rio San Juan		El Almendro	2	. 2	993	10,101	11,774	13,536	15,344	17,163	18,958	20,730
1	9 Rio San Juan		San Miguelito	3	3	923	9,148	10,659	12,251	13,884	15,528	17,158	18,759
1	9 Rio San Juan		San Carlos	i	4	1,462	17,537	20,434	23,489	28,619	29,773	32.898	15,952
1	9 Rio San Juan		El Castillo	Ş .	5		6,047	7,044	8,097	9,175	10,262	11,338	12,391
26	9 Rio Sam Juan		San Juan del Norte	6	1	1,762	559	767	881	997	1,111	1,231	1,344
32	10 Brontera Borte	18	<b>Eonduras</b>	1	1								
32	10 Prontera Morte	18	El Salvador	2	2								
32	10 Prontera Horte	18	Guaterala	3	1					**			
32	10 Frontera Rorte	18	Kezico	4	4								
32	10 Prontera Norte	18	REOU	5	5								
. 32	10 Frontera Borte	18	Canada		б								
33	II Frontera Sur		Costa Rica	1	1								
33	11 Prontera Sur	19	Panana	2	2				~				
33	II Frontera Sur	19	Sur America	3	3								
TOTAL	•		-			121,428	4,402,505	5,127,996	5,892,714	5,676,755	7,456.274 1	3,348,923 9	,013,442

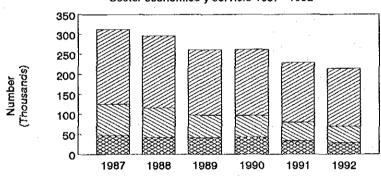
### Annex 8-3 Employment Data

INDICADORES DE EMPLEO: ASEGURADOS ACTIVOS DEL INSSBI POR ACTIVIDAD ECONOMICA

		100	PROMEDIO	ANUAL		
ACTIVIDAD ECONOMICA ANO 1987-1992	1987	1988	1989	1990	1991	1992
Total	311,873	295,936	261,209	N. W		214,675
ASEOTOR PRIMARIO	46,995	42,177	41,516	42,629	33,293	
Agricultura,Sulvicultura y Pesca	46,995	42,177	41,516			28,042
SECTOR SECUNDARIO	78,573	74,416			47,928	41,282
Industria Manufacturera	61,837	56,136	45,279	43,402	36,695	33,436
Construccion	14,534	15,873	9,460	9,353	9,219	6,578
Mineria y Cantera	2,202	2,407	1,739	1,489	1,414	1,268
SECTOR TERGIARIO	186,305	179,343	163,215	164,566	148,309	145,351
Cornercio	26,019	27,786	22,789	21,608	21,133	
Transporte	17,665	12,722		11,186	· · · · · · · · · · · · · · · · · · ·	8,832
Electricidad,gas y agua	7,949	6,468	5,339	6,033	5,809	6,095
Establecimientos financieros	17,108	16,313	16,029	15,851	14,221	11,234
Servicios comunales	114,796	113,574	104,591	107,588	95,718	96,308
Actividades no especificadas	2,768	2,480	2,259	2,300	1,602	1,373

FUENTE: instituto Nacional de Estadisticas y Censos, basados en datos suministrados por el Instituto Nicaraguense de Seguridad Social y Bienestar (INSSBI)

Seguros pagados – miembros Sector economico y servicio 1987 – 1992



Year

SECTOR PRIMARIO SECTOR SECUNDARIO SECTOR TERCIARIO

2-4-2 INSURANCE PAYING-MENBERS BY ZONE OF SERVICE AND ECONOMICAL SECTOR 1991

ESTELI	6,523	<b>(季冬*1210</b>	1,210	1,007	8	406		4,306	452	36	8	256	3,522	φ
RIVAS	4,872	688	889	1,509	1,447		62	2,474	185	397	32	177	1,682	-
CARAZO	2,096	365,1	1,596	349	314	24	<del>-</del>	5,151	364	2	6	181	4,433	157
GRANADA	8,941	<b>7</b> 26'1	1,374	3,362	2,894	468		~ ~ 4,205	988	38	19	347	2,955	10
MASAYA	5,528	068 🐎 🚱	068	<ul><li>₹.204</li></ul>	1,177	22		3,434	468	თ	10	324	2,623	
LEON	13,221	2.519	2,519	2,307	1,607	641	69	8,395	1,064	422	34	729	5,226	920
CHINANDEGA	24,997	9,454	9,454	3,580	3,482	91	7	11,963	792	2,238	2	222	8,268	86
MANAGUA	117,663	989'Z	989'4	28,599	22,148	6,138	313	<b>81,37</b> 8	15,104	806,3	5,328	9,901	44,533	204
TOTAL	228,930	***33,293	33,293		36,695	9,219	1,414	148,309	21,133	9,826	5,809	14,221	95,718	1,602
Economy Sector , Year 1991	Total	Primary Sector Style	Agricultural and Livestock	Secondary Sector	Manufacturing industry	Construction	Mining and quary	Tertiary Sector	Trade in high and low scale restaurants and hotels	Transportation, storage and comunication	Power, gas and water	Financials, insurances, real state/serv.establishment	Comunal, social, and personal services	Not specified activities

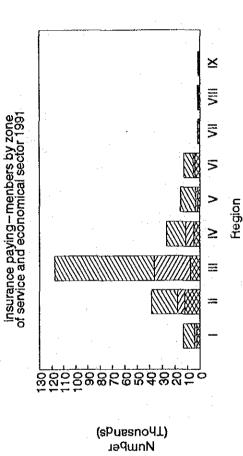
Economy Sector	NUEVA		잂					ZELAYA	ZELAYA
Year 1991	SEGOVIA	MADRIZ	SAN JUAN	MATAGALPA JINOTEGA	JINOTEGA	BOACO	CHONTALES	NORTE	SUR
Total	3,702	3,016	1,333	690'8	4,779	5,280	10,321	1,762	1,827
Primary Sector:	896			SE 2,285	FE 1.562	382	1,207		282
Agricultural and Livestock	896	290	148	2,285	1,562	382	1,207	55	783
Secondary Sector	622	24	422.	1111	142	71	569'1	896	332
Manufacturing industry	209	42	345	277	86	13	1,006	ល	332
Construction	15		22	240	44	58	425	265	
Mining and quary							264	869	
Tertiary Sector	1.2 2.117	-:2,684	763	4,667	3,075	** * 4,82T	419	739	712
Trade in high and low scale restaurants and hotels	169	19	15	707	103	158	430	82	143
Transportation, storage and comunication	40			13	99	1	183	ဖ	72
Power, gas and water	8	10	80	131	61	2	100	13	ဇ
Financials, insurances, real state/serv.establishment	167	28	. 67	522	261	185	260	92	104
Comunal, social, and personal services	1,715	2,516	673	3,292	2,491	4,472	6,429	295	326
Not specified activities	18	10		2	103	7	17		64
Note: Includes the extention to the county and faculty	1								

Source: National Industry for statistic and census, based on the data supplied by the Nicaraguan Institute for Social Security and Welfare(INSSBI)

2-4-2 INSURANCE PAYING-MENBERS BY ZONE OF SERVICE AND ECONOMICAL SECTOR BY REGION 1991

×	1333	148 JA8	148	422	345	77	O	763	15	0	80	29	673	0
NIII NIII	1827	783	783		332	0	0	5 8 712	143	72	3	104	326	64
ij	1762		55	896	5	265	869	739	82	9	13	9/	295	0
7	12848	3847	3847	1259	675	584	0	27.45	810	69	192	783	5783	105
>	15601	1589	1589	99/1-	1019	483	264	-1224e	588	184	107	445	10901	21
2	26437	4749	4749	· * 6424	5832	519	73	15284	1853	451	70	1029	11693	168
F12	117663		7686	28599	22148	6138	313	9/218 × 5/0	15104	8308	5328	9901	44533	204
=	33218	444 11973	11973	5887	5089	732	99	20358	1856	2660	98	1306	13494	1006
	13241	2463	2463	1291	1250	421	0	2016	682	76	52	510	7753	34
TOTAL	228930	33293	33293	47328	36695	9219	1414	148309	21133	9856	5809	14221	95718	1602
Economy Sector Year 1991/Region	Total	Pimary Sectors and Sectors an	Agricultural and Livestock	Secondary Sector	Manufacturing industry	Construction	Mining and quary	Tertiary Sector	Trade in high and low scale restaurants and hotels	Transportation, storage and comunication	Power, gas and water	Financials, insurances, real state/serv.establishment	Comunal, social, and personal services	Not specified activities

Note: Includes the extention to the county and faculty Source: National Industry for statistic and census, based on the data supplied by the Nicaraguan Institute for Social Security and Welfare(INSSBI)



VEEKLY AVERAGE SALARY OF THE INSURED EMPLOYEES TO INSSBI BY ZONE OF SERVICE AND ECONOMICAL SECTOR 1991

Economy Sector, Year 1991	TOTAL	MANAGUA	MANAGUA CHINANDEGA	LEON	MASAYA	GRANADA	CARAZO	RIVAS	ESTELI
Total	168.53	206.33	167.51	142.11	121.99	122.58	104.23	114.82	111.82
Primary Sector	120.10	05.651	166.82	33.15	50.05	52.14	96:59	92.90	9261
Agricultural and Livestock	120.10	159.40	166.82	93.15	50.05	52.14	64.96	92.90	92.61
Secondary Sector	62 665	763.65	468.03	457.60	346,11	262.93	262.04	242.98	21998
Manufacturing industry	210.17	245.49	172.49	198.00	222.53	148.41	109.49	125.79	115.78
Construction	173.05	196.67	128.28	158.99	123.58	114.52	74.66		104.20
Mining and quary	156.57	321.49	167.26	100.61			77.89	117.19	
Tertialy, Sector	1239.58	139247	20'578 : : : : : :	*** 1121.12	485.81	10.669	658.86	708.54	734.61
Trade in high and low scale restaurants and hotels	226.97	256.08	158,56	154.78	111.84	157.83	148.80	136.83	139.98
Transportation, storage and comunication	221.71	222.60	243.30	234.32	66.89	91.45	62.63	140.66	109.87
Power, gas and water	291.62	308.87	50.09	277.56	41.13	104.33	68.03	114.98	114.33
Financials, insurances, real state/serv.establishment	229.67	255.40	176.99	176.39	168.06	161.29	175.34	176.02	164.89
Comunal, social, and personal services	135.36	153.16	147.47	130.23	97.89	117.50	112.24	101.96	111.17
Not specified activities	134.25	196.36	58.70	147.84		66.61	91.82	38.09	94.37

Economy Sector	NUEVA		RIO					ZELAYA	ZELAYA
Year 1991	SEGOVIA	MADRIZ	SAN JUAN	MATAGALPA JINOTEGA	JINOTEGA	BOACO	CHONTALES	NORTE	SUR
Total	89.98	117.10	118.60	95.85	90.31	114.86	114.29	119.32	215.30
Primary Sector	1000	43.35	11.85	37.25	36,56	36.94	54.15	48:74	331.90
Agricultural and Livestock	49.29	43.35	11.85	37.25	36.56	36.94	54.15	48.74	331.90
Secondary Sector	247.78	54.80	367.47	211.49	347,53	372.90	342.81	385.57	82.25
Manufacturing industry	81.17	54.80	116.88	106.55	255.59	116.14	167.46	118.12	82.25
Construction	166.61		250.59	104.94	91.94	256.76	93.22	147.13	
Mining and quary					:		82.13	120.32	
Tertiary Sector	611.94	646.56	443.20	710.09	607.66	706.47	740.04	714.28	833,35
Trade in high and low scale restaurants and hotels	173.84	57.19	85.01	175.76	109.15	176.09	155.54	67.94	131.79
Transportation, storage and comunication	70.81			72.25	150.90	40.75	185.44	264,49	250.02
Power, gas and water	73.55	201.90	34.92	142.83	23.07	116.86	67.23	118.12	13.81
Financials, insurances, real state/serv.establishment	166.03	173.34	201.97	166.43	172.14	165.84	164.53	150.02	199.88
Comunai, social, and personal services	100.79	125.93	121.30	103.05	110,42	115.43	114.05	113.71	127.90
Not specified activities	26.92	88.20		49.77	41.98	91.50	53.25		139.95
Note: Includes the extention to the county and faculty	2								

Note: Includes the extention to the county and faculty

Source: National Industry for statistic and census, based on the data supplied by the Nicaraguan Institute for Social Security and Welfare(INSSBI)

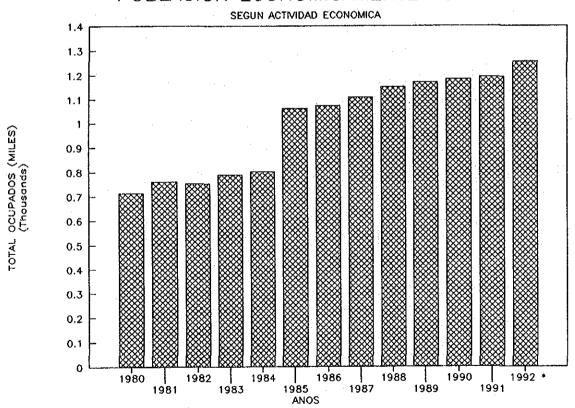
# POBLACION ECONOMICAMENTE ACTIVA OCUPADA SEGUN ACTIVIDAD ECONOMICA (MILES)

ACTIVIDAD ECONOMICA	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 *
Agricultura, Sulvicultura, Casa y pesca	275.5	295.5	281.4	301.6	304.1	375.5	373.0	382.6	385.1	387.5	400.1	415.4	453.6
Industria Manufacturera	97.0	99.7	85.8	89.7	89.9	162.5	166.0	169.8	178.0	188.7	188.7	188.2	192.0
Explotacion de Minas y Canteras	5.2	4.9	3.5	3.9	3.0	1	8.6		9.0	9.6	9.6	9.0	9.0
Electricidad,gas y agua	5.6	5.9	6.4	6.6			9,8	10.0	10.6	10.3	10.3	10.3	10.7
Construccion	14.5	15.9	14.0	15.2	15.6	35.3	36.1	36.9	37.9	31.2	31.2	30.2	39.3
Comercio	110.0	117.3	102.1	103.1	101.0	155.5	158.8	165.8	173.4	182.3	182.3	195.5	203.7
Transporte, Almacenamiento y Comunicaciones	24.0	25.6	27.7	28.2	27.2		37.7	38.5	41.9	42.6	42.6	42.6	44.4
Establecimiento financiero y seguros	7.9	8.5	8.8	9.1	13.9		22.6	23.0	25.2	24.7	24.7	24.7	24.7
Servicios Comunales y Sociales	126.1	132.7	164.4	166.9	165.4	179.3	183.1	193.4	214.8	221.6	221.6	182.7	186.5
Gobjerno Central	47.5	54.2	58.3	64.8	74.8	76.0	77.0	78.0	75.5	71.3	72.3	93.5	91.1
TOTAL OCUPADOS	713.3	760.2	752.4	789.1	801.6	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4,072.7	1,106.8	1,151.4	1,169.8	1,183.4	1,192,1	(1:255.Q)

* PRELIMINAR

FUENTE: SPP - DGNV (1980-1984) y MITRAB (1985-1992)

### POBLACION ECONOMICAMENTE ACTIVA

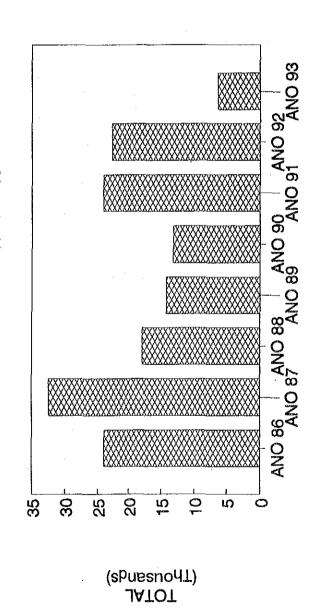


# PARQUE AUTOMOTOR POR ANO DE LA CIUDAD DE MANAGUA

ANO 93	2,249	383	89	233	715	1,885	49	541	55	7.1	52	6,314
ANO 92	8,877	1,465	274	748	1,370	7,298	506	2,058	182	137	112	22,727
ANO 91	5,942	1,658	372	652	3,748	8,295	207	2,478	230	1771	313	24,072
ANO 90	504	1,790	227	286	3,103	4,953	9/	1,757	112	149	247	13,204
ANO 89	3,270	1,178	256	41	2,713	3,538	46	2,167	69	203	869	14,203
ANO 88	4,742	1,778	173	285	3,328	4,183	129	2,079	142	99	920	17,825
ANO 87	8,157	3,248	517	644	7,293	6,619	572	3,878	278	136	1,086	32,428
ANO 86	12,234	2,611	285	393	22	5,703	79	1,690	69	102	735	23,947
TIPO	AUTOMOVIL	JEEP	MICROBUS	AUTOBUS	MOTO	CAMIONETA	FURGONETA	CAMION	CABEZAL	REMOLQUE	TRACTOR	TOTAL

NOTA: Para el ano 1993 se tomaron en cuenta desde Enero hasta Abril.

# PARQUE AUTOMOTOR POR ANO



Annex 8-5 Agricultural Data

Corn

REGION	COIN							
Area   (Mz)   36,500   43,023   33,782   20,897   25,493   Yield   (QQs/Mz)   36.4   32.2   42.1   36.3   40.6   Area   (Mz)   36,699   49,351   27,441   19,456   17,828   Yield   (QQs/Mz)   32.3   21.1   25.3   14.6   16.6   Production   (QQ)   1,186,874   1,043,200   694,900   283,800   295,987   Yield   (QQs/Mz)   28.2   24.3   29.7   23.7   25.1   Yield   (QQs/Mz)   28.2   24.3   29.7   23.7   25.1   Yield   (QQs/Mz)   20,241   29,124   14,891   21,336   16,140   Yield   (QQs/Mz)   44.2   38.2   33.1   30.1   29.0   Production   (QQ)   894,000   1,13,600   492,600   642,000   468,700   Yield   (QQs/Mz)   10.0   11.0   11.5   9.8   11.3   Production   (QQ)   578,800   686,700   1,288,200   932,600   1,126,797   Yield   (QQs/Mz)   21.4   19.7   19.5   20.8   Production   (QQ)   1,731,170   1,916,100   1,977,900   1,758,100   1,003,309   Yield   (QQs/Mz)   8.0   9.1   8.3   12.8   9.9   Production   (QQ)   68,400   89,600   119,300   108,800   150,270   Yield   (QQs/Mz)   8.0   9.1   8.3   12.8   9.9   Production   (QQ)   68,400   89,600   119,300   108,800   150,270   Yield   (QQs/Mz)   8.0   9.1   8.3   12.8   9.9   Production   (QQ)   68,400   89,600   119,300   108,800   150,270   Yield   (QQs/Mz)   14.5   10.7   7,158,100   10,725   17,760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   17,7760   18,366   17,7760   17,7760   17,7760   18,366   17,7760   17,7760   18,366   17,7760   18,366   17,7760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760   18,366   17,57760	REGION		Unit	198788	1988-89	1989-90	1990-91	1991-92
Production   (QQ)	1	Area	(Mz)	36,500	43,023	33,782	20,897	25,493
Production   (QQ)		Yield	(QQs/Mz)	36.4	32.2			
Yield   (QQs/Mz)   32.3   21.1   25.3   14.6   16.6		Production		1,330,000	1,384,900	1,421,300	758,600	1,034,510
Production   QQ   1,186,674   1,043,200   694,900   283,800   295,987	II	Area	(Mz)	36,699	49,351			17,828
Name		Yield	(QQs/Mz)	32.3	21.1			
Yield         (QQs/Mz)         28.2         24.3         29.7         23.7         25.1           Production         (QQ)         181,663         185,700         112,600         97,600         85,916           IV         Area         (Mz)         20,241         29,124         14,891         21,336         16,140           Yield         (QQs/Mz)         44.2         38.2         33.1         30.1         29.0           Production         (QQ)         894,000         1,113,600         492,600         642,000         468,700           Yield         (QQs/Mz)         57,900         68,457         112,288         95,491         99,790           Yield         (QQs/Mz)         10.0         10.0         11.5         9.8         11.3           Production         (QQ)         578,800         686,700         1,288,200         932,600         1,126,797           VI         Area         (Mz)         80,830         97,148         100,385         90,321         86,531           Yield         (QQs/Mz)         21.4         19.7         19.7         19.5         20.8           Production         (QQ)         1,731,170         1,916,100         1,977,900 <td< td=""><td></td><td>Production</td><td>(QQ)</td><td>1,186,874</td><td>1,043,200</td><td></td><td></td><td></td></td<>		Production	(QQ)	1,186,874	1,043,200			
Production   QQ   181,663   185,700   112,600   97,600   85,916   IV   Area   (Mz)   20,241   29,124   14,891   21,336   16,140   Yield   QQs/Mz   44.2   38.2   33.1   30.1   29.0   Production   QQ   894,000   1,113,600   492,600   642,000   468,700   Yield   QQs/Mz   10.0   10.0   11.5   9.8   11.3   Production   QQ   578,800   686,700   1,288,200   932,600   1,126,797   VI   Area   (Mz )   80,830   97,148   100,385   90,321   86,531   Yield   QQs/Mz   21.4   19.7   19.7   19.5   20.8   Production   QQ   1,731,170   1,916,100   1,977,900   1,758,100   1,803,309   Yield   QQs/Mz   8.0   9.1   8.3   12.8   9.9   Yield   QQs/Mz   8.0   9.1   8.3   12.8   9.9   Production   QQ   68,400   89,600   119,300   108,800   150,270   Yield   QQs/Mz   14.5   10.7   13.3   15.0   17.1   Production   QQ   107,200   77,300   119,100   112,200   100,725   IX   Area   (Mz )   6,617   6,529   10,497   10,192   12,593   Yield   QQs/Mz   12.5   11.5   13.7   15.5   14.5   Production   QQ   82,752   74,800   144,300   157,800   182,369   Yield   QQs/Mz   23.6   20.6   19.5   17.5   18.6   Production   QQ   6,160,859   6,571,900   6,370,200   4,851,500   5,248,583   Production   QQ   6,160	III	Area	(Mz)	6,453	7,630			
Name		Yield	(QQs/Mz)	28.2	24.3	29.7		
Yield         (QQs/Mz)         44.2         38.2         33.1         30.1         29.0           Production         (QQ)         894,000         1,113,600         492,600         642,000         468,700           V         Area         (Mz)         57,900         68,457         112,288         95,491         99,790           Yield         (QQs/Mz)         10.0         10.0         11.5         9.8         11.3           Production         (QQ)         578,800         686,700         1,288,200         932,600         1,126,797           VI         Area         (Mz)         80,830         97,148         100,385         90,321         86,531           Yield         (QQs/Mz)         21.4         19.7         19.7         19.5         20.8           Production         (QQ)         1,731,170         1,916,100         1,977,900         1,758,100         1,803,309           VII         Area         (Mz)         8,600         9,800         14,408         8,473         15,196           Yield         (QQs/Mz)         8.0         9.1         8.3         12.8         9.9           Production         (QQ)         68,400         89,600         119,300		Production	(QQ)	181,663	185,700	112,600		
Production   (QQ)   894,000   1,113,600   492,600   642,000   468,700   V   Area   (Mz)   57,900   68,457   112,288   95,491   99,790   Yield   (QQs/Mz)   10.0   10.0   11.5   9.8   11.3   Production   (QQ)   578,800   686,700   1,288,200   932,600   1,126,797   VI   Area   (Mz)   80,830   97,148   100,385   90,321   86,531   Yield   (QQs/Mz)   21.4   19.7   19.7   19.5   20.8   Production   (QQ)   1,731,170   1,916,100   1,977,900   1,758,100   1,803,309   VII   Area   (Mz)   8,600   9,800   14,408   8,473   15,196   Yield   (QQs/Mz)   8.0   9.1   8.3   12.8   9.9   Production   (QQ)   68,400   89,600   119,300   108,800   150,270   VIII   Area   (Mz)   7,400   7,257   8,943   7,478   5,875   Yield   (QQs/Mz)   14.5   10.7   13.3   15.0   17.1   Production   (QQ)   107,200   77,300   119,100   112,200   100,725   IX   Area   (Mz)   6,617   6,529   10,497   10,192   12,593   Yield   (QQs/Mz)   12.5   11.5   13.7   15.5   14.5   Production   (QQ)   82,752   74,800   144,300   157,800   182,369   TOTAL   Area   (Mz)   261,240   318,319   326,425   277,760   282,866   Yield   (QQs/Mz)   23.6   20.6   19.5   17.5   18.6   Production   (QQ)   6,160,859   6,571,900   6,370,200   4,851,500   5,248,583   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.	IV	Area	(Mz)	20,241	29,124			
V         Area (Mz)         57,900 (G8,457)         112,288 (GV)         95,491 (GV)         99,790 (GV)           Yield (QQs/Mz)         10.0 (GV)         10.0 (G8,700)         11.5 (G8,700)         9.8 (GV)         11.3 (G8,707)           VI         Area (Mz)         80,830 (G86,700)         1,288,200 (G8,600)         932,600 (G8,631)         1,126,797           VII         Area (Mz)         80,830 (G8,700)         1,288,200 (G8,600)         932,600 (G8,531)         1,26,797           VII         Area (Mz)         80,830 (G8,400)         19.7 (G8,400)         1,977,900 (G8,510)         1,758,100 (G8,309)           VIII         Area (Mz)         8,600 (GR)         9,800 (GR)         14,408 (GR)         8,473 (GR)         15,196 (GR)           VIII         Area (Mz)         68,400 (GR)         89,600 (GR)         119,300 (GR)         108,800 (GR)         150,270 (GR)           VIII         Area (Mz)         7,400 (GR)         7,257 (GR)         8,943 (GR)         7,478 (GR)         5,875 (GR)           Yield (GQs/Mz)         14.5 (GR)         10.7 (GR)         119,100 (GR)         112,200 (GR)         100,725 (GR)           IX         Area (Mz)         6,617 (GR)         6,529 (GR)         10,497 (GR)         10,192 (GR)         12,593 (GR)           Yield		Yield	(QQs/Mz)	44.2	38.2		30.1	29.0
Yield         (QQs/Mz)         10.0         10.0         11.5         9.8         11.3           Production         (QQ)         578,800         686,700         1,288,200         932,600         1,126,797           VI         Area         (Mz)         80,830         97,148         100,385         90,321         86,531           Yield         (QQs/Mz)         21.4         19.7         19.7         19.5         20.8           Production         (QQ)         1,731,170         1,916,100         1,977,900         1,758,100         1,803,309           VIII         Area         (Mz)         8,600         9,800         14,408         8,473         15,196           Yield         (QQs/Mz)         8.0         9.1         8.3         12.8         9.9           Production         (QQ)         68,400         89,600         119,300         108,800         150,270           VIII         Area         (Mz)         7,400         7,257         8,943         7,478         5,875           Yield         (QQs/Mz)         14.5         10.7         13.3         15.0         17.1           Production         (QQ)         107,200         77,300         119,100		Production	(QQ)	894,000	1,113,600	492,600		468,700
VI         Area (Mz)         578,800 (Mz)         686,700 (Mz)         1,288,200 (Mz)         932,600 (Mz)         1,126,797 (Mz)           VI         Area (Mz)         80,830 (Mz)         97,148 (Mz)         100,385 (Mz)         90,321 (Mz)         86,531 (Mz)           Yield (QQs/Mz)         21.4 (Mz)         19.7 (Mz)         19.7 (Mz)         19.5 (Mz)         20.8 (Mz)           VII         Area (Mz)         8,600 (Mz)         9,800 (Mz)         14,408 (Mz)         8,473 (Mz)         15,196 (Mz)           Yield (QQs/Mz)         8.0 (Mz)         9,800 (Mz)         119,300 (Mz)         108,800 (Mz)         150,270 (Mz)           VIII         Area (Mz)         7,400 (Mz)         7,257 (Mz)         8,943 (Mz)         7,478 (Mz)         5,875 (Mz)           Yield (QQs/Mz)         14.5 (Mz)         10.7 (Mz)         13.3 (Mz)         15.0 (Mz)         17.1 (Mz)           Production (QQ)         107,200 (Mz)         77,300 (Mz)         119,100 (Mz)         112,200 (Mz)         10,725 (Mz)           IX         Area (Mz)         6,617 (6,529 (Mz)         10,497 (Mz)         10,192 (Mz)         12,593 (Mz)           Yield (QQs/Mz)         12.5 (Mz)         11.5 (Mz)         13.7 (Mz)         15.5 (Mz)         14.5 (Mz)           TOTAL         Area (Mz)<	V	Area	(Mz)	57,900	68,457		95,491	
VI         Area (Mz)         80,830         97,148         100,385         90,321         86,531           Yield (QQs/Mz)         21.4         19.7         19.7         19.5         20.8           Production (QQ)         1,731,170         1,916,100         1,977,900         1,758,100         1,803,309           VII         Area (Mz)         8,600         9,800         14,408         8,473         15,196           Yield (QQs/Mz)         8.0         9.1         8.3         12.8         9.9           Production (QQ)         68,400         89,600         119,300         108,800         150,270           VIII         Area (Mz)         7,400         7,257         8,943         7,478         5,875           Yield (QQs/Mz)         14.5         10.7         13.3         15.0         17.1           Production (QQ)         107,200         77,300         119,100         112,200         100,725           IX         Area (Mz)         6,617         6,529         10,497         10,192         12,593           Yield (QQs/Mz)         12.5         11.5         13.7         15.5         14.5           Production (QQ)         82,752         74,800         144,300         1		Yield	(QQs/Mz)	10.0	10.0			
Vield         (QQs/Mz)         21.4         19.7         19.7         19.5         20.8           Production         (QQ)         1,731,170         1,916,100         1,977,900         1,758,100         1,803,309           VIII         Area         (Mz)         8,600         9,800         14,408         8,473         15,196           Vield         (QQs/Mz)         8.0         9.1         8.3         12.8         9.9           Production         (QQ)         68,400         89,600         119,300         108,800         150,270           VIII         Area         (Mz)         7,400         7,257         8,943         7,478         5,875           Yield         (QQs/Mz)         14.5         10.7         13.3         15.0         17.1           Production         (QQ)         107,200         77,300         119,100         112,200         100,725           IX         Area         (Mz)         6,617         6,529         10,497         10,192         12,593           Yield         (QQs/Mz)         12.5         11.5         13.7         15.5         14.5           Production         (QQ)         82,752         74,800         144,300		Production	(QQ)	578,800				
Production (QQ)         1,731,170         1,916,100         1,977,900         1,758,100         1,803,309           VII         Area (Mz)         8,600         9,800         14,408         8,473         15,196           Yield (QQs/Mz)         8.0         9.1         8.3         12.8         9.9           Production (QQ)         68,400         89,600         119,300         108,800         150,270           VIII         Area (Mz)         7,400         7,257         8,943         7,478         5,875           Yield (QQs/Mz)         14.5         10.7         13.3         15.0         17.1           Production (QQ)         107,200         77,300         119,100         112,200         100,725           IX         Area (Mz)         6,617         6,529         10,497         10,192         12,593           Yield (QQs/Mz)         12.5         11.5         13.7         15.5         14.5           Production (QQ)         82,752         74,800         144,300         157,800         182,369           TOTAL         Area (Mz)         261,240         318,319         326,425         277,760         282,866           Yield (QQs/Mz)         23.6         20.6 <t< td=""><td>VI</td><td>Area</td><td>(Mz)</td><td>80,830</td><td>97,148</td><td></td><td></td><td></td></t<>	VI	Area	(Mz)	80,830	97,148			
VII         Area (Mz)         8,600 (QQs/Mz)         9,800 (QQs/Mz)         14,408 (QQs/Mz)         8,473 (Qqs/Mz)         15,196 (Qqs/Mz)           Production (QQ)         68,400 (Qqs/Mz)         89,600 (Qqs/Mz)         119,300 (Qqs/Mz)         108,800 (Qqs/Mz)         150,270 (Qqs/Mz)           VIII         Area (Mz) (Qqs/Mz)         14.5 (Qqs/Mz)         10.7 (Qqs/Mz)         13.3 (Qqs/Mz)         15.0 (Qqs/Mz)         17.1 (Qqs/Mz)           IX         Area (Mz) (Qqs/Mz)         12.5 (Qqs/Mz)         11.5 (Qqs/Mz)         13.7 (Qqs/Mz)         12.5 (Qqs/Mz)         14.5 (Qqs/Mz) </td <td>·</td> <td>Yield</td> <td>(QQs/Mz)</td> <td>21.4</td> <td></td> <td></td> <td></td> <td></td>	·	Yield	(QQs/Mz)	21.4				
Vield         (QQs/Mz)         8.0         9.1         8.3         12.8         9.9           Production         (QQ)         68,400         89,600         119,300         108,800         150,270           VIII         Area         (Mz)         7,400         7,257         8,943         7,478         5,875           Yield         (QQs/Mz)         14.5         10.7         13.3         15.0         17.1           Production         (QQ)         107,200         77,300         119,100         112,200         100,725           IX         Area         (Mz)         6,617         6,529         10,497         10,192         12,593           Yield         (QQs/Mz)         12.5         11.5         13.7         15.5         14.5           Production         (QQ)         82,752         74,800         144,300         157,800         182,369           TOTAL         Area         (Mz)         261,240         318,319         326,425         277,760         282,866           Yield         (QQs/Mz)         23.6         20.6         19.5         17.5         18.6           Production         (QQ)         6,160,859         6,571,900         6,370,200		Production	(QQ)	1,731,170	1,916,100	1,977,900	1,758,100	1,803,309
Production   (QQ)   68,400   89,600   119,300   108,800   150,270	VII	Area	(Mz)	8,600	9,800	14,408		15,196
VIII         Area         (Mz)         7,400         7,257         8,943         7,478         5,875           Yield         (QQs/Mz)         14.5         10.7         13.3         15.0         17.1           Production         (QQ)         107,200         77,300         119,100         112,200         100,725           IX         Area         (Mz)         6,617         6,529         10,497         10,192         12,593           Yield         (QQs/Mz)         12.5         11.5         13.7         15.5         14.5           Production         (QQ)         82,752         74,800         144,300         157,800         182,369           TOTAL         Area         (Mz)         261,240         318,319         326,425         277,760         282,866           Yield         (QQs/Mz)         23.6         20.6         19.5         17.5         18.6           Production         (QQ)         6,160,859         6,571,900         6,370,200         4,851,500         5,248,583		Yield	(QQs/Mz)	8.0				
Yield         (QQs/Mz)         14.5         10.7         13.3         15.0         17.1           Production         (QQ)         107,200         77,300         119,100         112,200         100,725           IX         Area         (Mz)         6,617         6,529         10,497         10,192         12,593           Yield         (QQs/Mz)         12.5         11.5         13.7         15.5         14.5           Production         (QQ)         82,752         74,800         144,300         157,800         182,369           TOTAL         Area         (Mz)         261,240         318,319         326,425         277,760         282,866           Yield         (QQs/Mz)         23.6         20.6         19.5         17.5         18.6           Production         (QQ)         6,160,859         6,571,900         6,370,200         4,851,500         5,248,583		Production	(QQ)	68,400	89,600			
Production   (QQ)   107,200   77,300   119,100   112,200   100,725	VIII	Area	(Mz)	7,400	7,257			
IX         Area         (Mz)         6,617         6,529         10,497         10,192         12,593           Yield         (QQs/Mz)         12.5         11.5         13.7         15.5         14.5           Production         (QQ)         82,752         74,800         144,300         157,800         182,369           TOTAL         Area         (Mz)         261,240         318,319         326,425         277,760         282,866           Yield         (QQs/Mz)         23.6         20.6         19.5         17.5         18.6           Production         (QQ)         6,160,859         6,571,900         6,370,200         4,851,500         5,248,583		Yield	(QQs/Mz)	14.5	10.7			
Yield         (QQs/Mz)         12.5         11.5         13.7         15.5         14.5           Production (QQ)         82,752         74,800         144,300         157,800         182,369           TOTAL Area (Mz)         261,240         318,319         326,425         277,760         282,866           Yield (QQs/Mz)         23.6         20.6         19.5         17.5         18.6           Production (QQ)         6,160,859         6,571,900         6,370,200         4,851,500         5,248,583		Production	(QQ)	107,200	77,300			
Production         (QQ)         82,752         74,800         144,300         157,800         182,369           TOTAL         Area         (Mz)         261,240         318,319         326,425         277,760         282,866           Yield         (QQs/Mz)         23.6         20.6         19.5         17.5         18.6           Production         (QQ)         6,160,859         6,571,900         6,370,200         4,851,500         5,248,583	ΙX	Area	(Mz)	6,617				
TOTAL         Area         (Mz)         261,240         318,319         326,425         277,760         282,866           Yield         (QQs/Mz)         23.6         20.6         19.5         17.5         18.6           Production         (QQ)         6,160,859         6,571,900         6,370,200         4,851,500         5,248,583				12.5				
Yield         (QQs/Mz)         23.6         20.6         19.5         17.5         18.6           Production         (QQ)         6,160,859         6,571,900         6,370,200         4,851,500         5,248,583		Production	(QQ)					
Production (QQ) 6,160,859 6,571,900 6,370,200 4,851,500 5,248,583	TOTAL	Area						
		Yield	(QQs/Mz)					
		Production	(QQ)	6,160,859			4,851,500	5,248,583

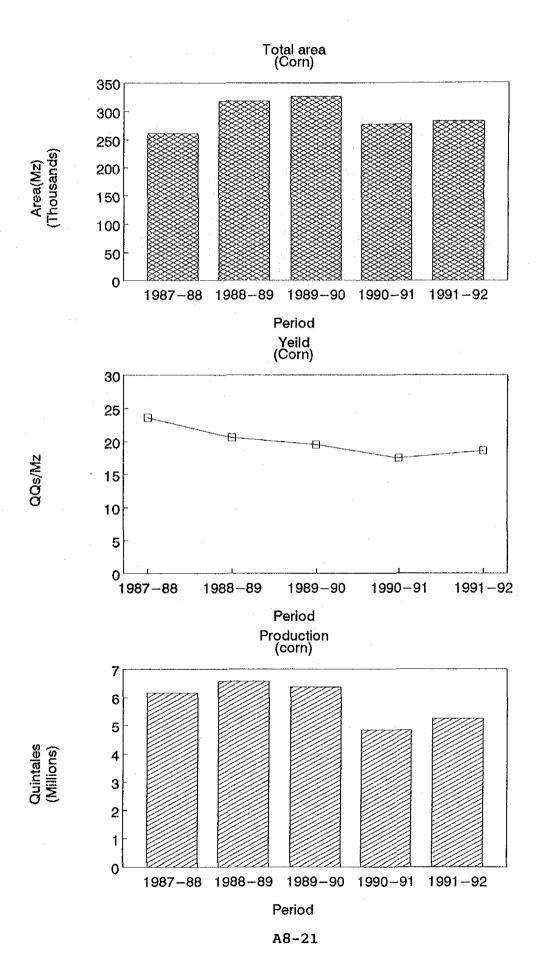
Source: Ministerio de Agricultura y Ganaderia (MAG)

Unit:

Mz Manzanas

QQs/Mz Quintales/Manzanas

QQ Quintales



### Results of the farming of wheat Period 1987/1988-1991/92

### Wheat

REGION		Unit	1987-88	1988-89	1989-90	1990-91	1991-92
1	Area	(Mz)	2,900	4,210	7,212	11,025	8,658
	Yield	(QQs/Mz)	13.4	25.3	20.2	18.5	10.1
	Production		38,800	106,400	146,000	204,000	87,500
11	Area	(Mz)	44,998	42,487	26,795	22,622	28,544
	Yield	(QQs/Mz)	19.7	24.0	15.5	15.3	17.8
	Production	(QQ)	885,519	1,018,100	416,600	345,400	507,740
111	Area	(Mz)	23,937	14,418	5,301	5,501	6,027
	Yield	(QQs/Mz)	18.2	28.3	26.1	30.8	32.3
	Production	(QQ)	435,627	408,500	138,100	169,200	194,400
IV	Area	(Mz)	27,217	18,941	19,911	18,562	13,434
-	Yield	(QQs/Mz)	30.6	29.4	36.9	39.2	35.6
	Production	(QQ)	831,800	557,800	734,800	727,700	478,700
V	Area	(Mz)	5,900	8,836	5,999	5,793	8,377
	Yield	(QQs/Mz)	20.8	20.9	21.0	20.2	22.7
	Production	(QQ)	122,800	184,900	125,700	117,000	190,400
VI	Area	(Mz)	4,405	4,498	6,307	1,578	3,580
	Yield	(QQs/Mz)	21.2	29.2	18.9	26.9	31.6
	Production	(QQ)	93,500	131,300	119,100	42,500	113,300
VII	Area	(Mz)					
	Yield	(QQs/Mz)	0.0	0.0	0.0	0.0	0.0
	Production	(QQ)			·		
VIII	Area	(Mz)					<u></u>
	Yield	(QQs/Mz)	0.0	0.0	0.0	0.0	0.0
	Production	(QQ)					
iX	Area	(Mz)					
	Yield	(QQs/Mz)	0.0	0.0	0.0	0.0	0.0
:	Production	(QQ)					-
TOTAL	Area	(Mz)	109,357	93,390		65,081	
	Yield	(QQs/Mz)	22.0			24.7	22.9
	Production			2,407,000	1,680,300	1,605,800	1,572,040

Source: Ministerio de Agricultura y Ganaderia (MAG)

Unit:

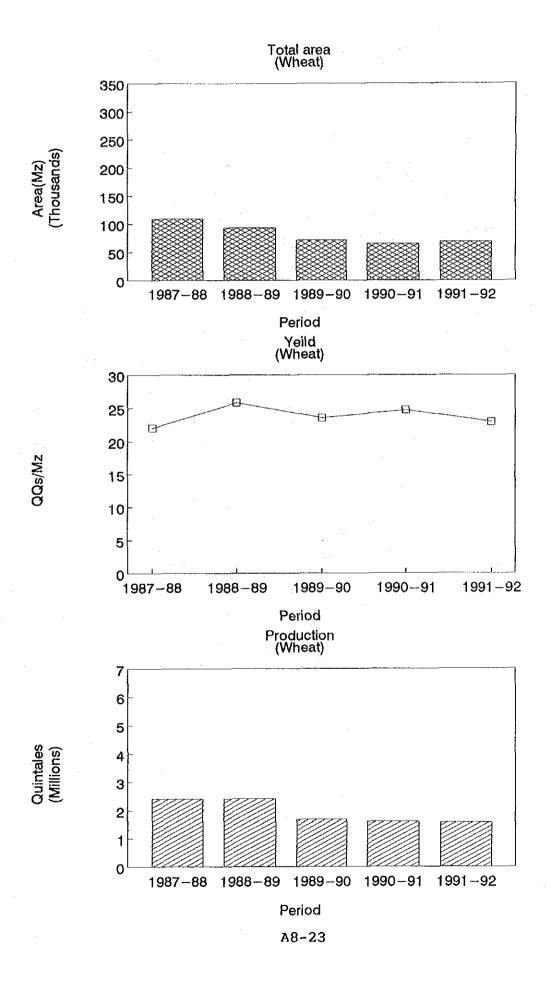
Mz

Manzanas

QQs/Mz Quintales/Manzanas

QQ

Quintales



### Results of the farming of beans Period 1987/1988-1991/92

Beans

				_		4.4	
REGION		Unit	1987-88	1988-89	1989-90	1990-91	1991-92
ı	Area	(Mz)	20,200	35,629	30,707	32,033	26,307
	Yield	(QQs/Mz)	8.0	7.8	8.6	10.3	9.6
	Production	(QQ)	160,700	279,300	263,500	328,500	253,679
11	Area	(Mz)	6,558	8,158	10,197	9,666	8,022
	Yield	(QQs/Mz)	6.4	6.9	4.7	6.1	5.9
	Production	(QQ)	42,242	56,200	48,400	58,500	47,591
III	Area	(Mz)	4,225	5,023	3,058	2,596	3,316
	Yield	(QQs/Mz)	5.5	4.7	8.1	7.4	8.3
	Production	(QQ)	23,286	23,400		19,100	27,586
- IV	Area	(Mz)	18,502	16,324	18,320	18,561	19,464
	Yield	(QQs/Mz)	5.6	6.4		8.7	9.0
	Production	(QQ)	103,700	104,000	158,200	162,400	176,000
V	Area	(Mz)	15,100	28,834	35,226	38,094	44,929
	Yield	(QQs/Mz)	8.3	9.6	9.0	8.9	8.9
**	Production	(QQ)	124,900	277,600	316,400	337,300	399,458
VI	Area	(Mz)	25,236	46,196	41,702	50,178	44,082
	Yield	(QQs/Mz)	9.5	7.8	11.2	10.6	11.5
	Production	(QQ)	238,590	360,300	465,000	533,700	506,839
VII	Area	(Mz)	4,000	10,434	5,300	3,566	8,395
	Yield	(QQs/Mz)	5.3	9.0	6.1	11.0	9.5
	Production	(QQ)	21,000	94,000	32,100	39,400	79,753
VIII	Area	(Mz)			2,548	2,204	880
	Yield	(QQs/Mz)	0.0	0.0	5.9	8.0	8.0
	Production	(QQ)			15,000	17,600	7,040
IX	Area	(Mz)	2,785	3,091	3,911	4,053	6,433
	Yield	(QQs/Mz)	9.2	10.8	9.4	13.2	12.4
	Production		25,649	33,400	36,700	53,700	79,548
TOTAL	Area	(Mz)	96,606	153,689	150,969	160,951	161,828
	Yield	(QQs/Mz)		8.0	9.0	9.6	9.7
	Production			1,228,200	1,360,200	1,550,200	1,577,494

Source: Ministerio de Agricultura y Ganaderia (MAG)

Unit:

Mz

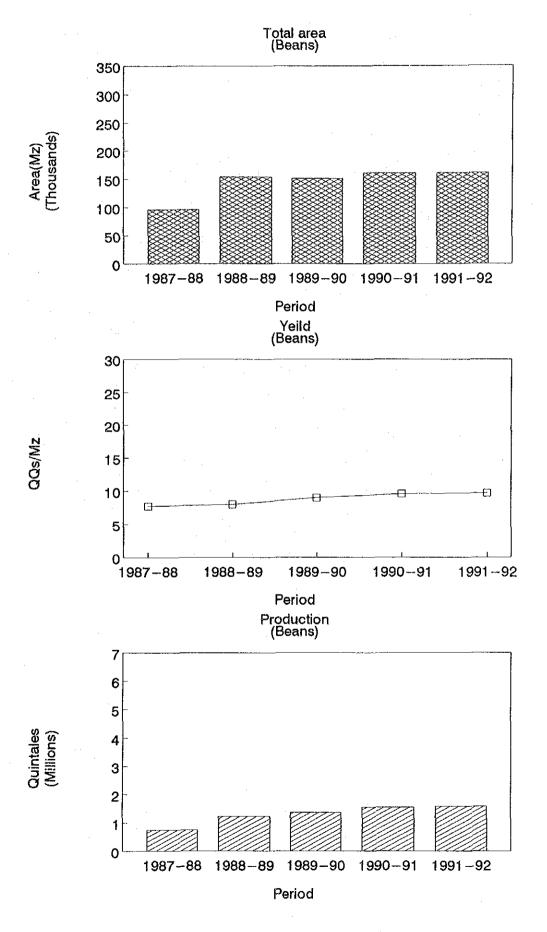
Manzanas

QQs/Mz

Quintales/Manzanas

QQ

Quintales



A8-25

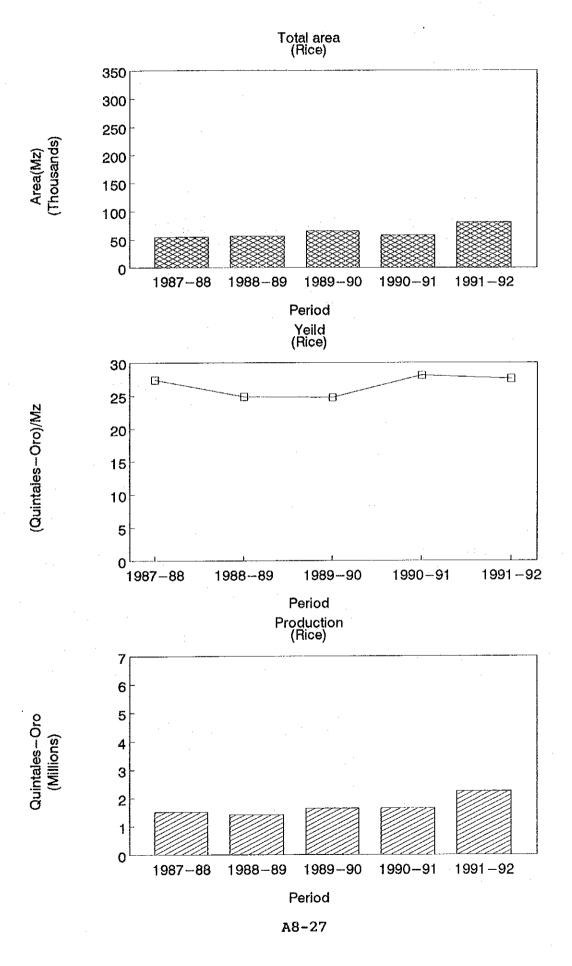
### Resalts of farming of rice

Rice

							•
REGION	:	Unit	1987-88	1988-89	1989-90	1990-91	1991-92
I	Area	(Mz)	3,200	2,980	3,380	2,473	2,023
	Yield	(QQs-Oro)/Mz	31.9	37.2	33.8	31.9	33.1
	Production		102,100	111,000	114,170		67,062
il il	Area	(Mz)	11,200	18,180	17,670	11,902	15,759
	Yield	(QQs-Oro)/Mz	27.4	26.0	20.3	26.6	25,8
	Production	(QQ-Oro)	306,500	471,800	358,570	316,726	406,009
111	Area	(Mz)	100	610	750	151	273
	Yield	(QQs-Oro)/Mz	20.0	26.7	20.0	9.7	15.4
	Production	(QQ-Oro)	2,000	16,300	15,000	1,469	4,209
ΙV	Area	(Mz)	11,400	8,490	9,510	12,744	15,432
}	Yield	(QQs-Oro)/Mz	29.1	23.9	24.8	29.0	29.8
	Production		332,300	202,700	235,440	369,249	459,396
٧	Area	(Mz)	12,000	10,650	13,880	14,456	18,228
	Yield	(QQs-Oro)/Mz	23.7	21.3	25.7	24.6	24.4
	Production	(QQ-Oro)	284,700	226,600	356,640	354,967	444,136
VI	Area	(Mz)	7,300	6,030	4,850	6,109	8,726
	Yield	(QQs-Oro)/Mz	33.6	31.4	36.0	41.3	46.2
	Production		245,600	189,100	174,550	252,352	403,031
VII	Area	(Mz)	4,200	5,610	11,160	2,102	11,700
	Yield	(QQs-Oro)/Mz	15.1	14.0	21.5	30.0	16.6
	Production	(QQ-Oro)	63,300	78,600	239,500	63,060	194,220
VIII	Area	(Mz)				3,020	3,050
	Yield	(QQs-Oro)/Mz	0.0	0.0	0.0	20.0	25.0
	Production					60,400	76,250
IX	Area	(Mz)	5,500	3,910	4,390	5,298	6,022
	Yield	(QQs-Oro)/Mz	30.2	28.1	30.9	26.6	31.0
	Production		165,900	109,800	135,530	140,778	186,527
TOTAL	Area	(Mz)	54,900	56,460	65,590	58,255	81,213
	Yield	(QQs-Oro)/Mz		24.9	24.8	28.1	27.6
	Production	(QQ-Oro)	1,502,400	1,405,900	1,629,400	1,637,992	2,240,840
L——————	<del></del>		· · · · · · · · · · · · · · · · · · ·	(14440)			

Source:Ministerio de Agricultura y Ganaderia(MAG)
Unit: Mz Manzanas

(QQs-Oro)/Mz QQS-Oro/Manzanas (QQ-Oro) Quintales-Oro



### Resalts of farming of corn by Region Period 1987/1988 - 1991/1992

Corn										
Агеа	Unit:Mz(Ma	anzanas)		·	<u> </u>			·		
Period/Region	l l	ll l	lli l	IV	. V	_ VI	VII	VIII	IX	Total
1987-88	36,500	36,699	6,453	20,241	57,900	80,830	8,600	7,400	6,617	261,240
1988-89	43,023	49,351	7,630	29,124	68,457	97,148	9,800	7,257	6,529	318,319
1989-90	33,782	27,441	3,790	14,891	112,288	100,385	14,408	8,943	10,497	326,425
1990-91	20,897	19,456	4,116	21,336	95,491	90,321	8,473	7,478	10,192	277,760
1991-92	25,493	17,828	3,420	16,140	99,790	86,531	15,196	5,875	12,593	282,866
Yield	Unit:QQs/N	/iz(Quintale	s/Manzana	ເຣ)						
Period/Region	1		III	IV	٧	VI	VII	VIII	iΧ	Total
1987-88	36.4	32.3	28.2	44.2	10.0	21.4	8.0	14.5	12,5	23.6
1988-89	32.2	21.1	24.3	38.2	10.0	19.7	9.1	10.7	11,5	20.6
1989-90	42.1	25.3	29.7	33.1	11.5	19.7	8.3	13.3	13,7	19.5
1990-91	36.3	14,6	23.7	30.1	9.8	19.5	12.8	15.0	15.5	17.5
1991-92	40.6	16.6	25.1	29.0	11.3	20.8	9.9	17.1	14.5	18.6
Production	Unit:QQ(qt	ıintales)								
Period/Region		11	111	IV	V	VI	VII	VIII	ΙX	Total
		1,186,874	181,663	894,000	578,800	1,731,170	68,400	107,200	82,752	6,160,859
1988-89	1,384,900	1,043,200	185,700	1,113,600	686,700	1,916,100	89,600	77,300	74,800	6,571,900
1989-90	1,421,300	694,900	112,600	492,600	1,288,200	1,977,900	119,300	119,100	144,300	6,370,200
1990-91	758,600	283,800	97,600	642,000	932,600	1,758,100	108,800	112,200	157,800	4,851,500
1991-92	1,034,510	295,987	85,916	468,700	1,126,797	1,803,309	150,270	100,725	182,369	5,248,583
1991-92   1,034,510   295,987   85,916   468,700   1,126,797   1,803,309   150,270   100,725   182,369   5,248,583   orce;Minsterio de Agricultura y Ganaderia(MAG)										

Results of farming of wheat by Region Period 1987/1988 —	44
- Nesalis Ol lamilio of wheat by Hanian Parian 1087/1088	1001/1009

Wheat	] 				,g		0171000		· .	
Area	Unit:Mz(M	anzanas)								
Period/Region	Î	11	111	IV	ν	Vi	VII	VIII	łΧ	Total
1987-88	2,900	44,998	23,937	27,217	5,900	4,405		<del> </del>		109,357
198889	4,210	42,487	14,418	18,941	8,836	4,498	<del></del>			93,390
1989-90	7,212	26,795	5,301	19,911	5,999	6,307	<del></del>			71,525
1990-91	11,025	22,622	5,501	18,562	5,793	1,578				65,081
1991-92	8,658	28,544	6,027	13,434	8,377	3,580		<del> </del>		68,620
Yield	Unit:QQs/I	Vz(Quintale	s/Manzana					L		00,020
Period/Region	[ I	l II	III	ÍV	٧	VI	VII	VIII	ΙX	Total
1987-88	13.4	19.7	18.2	30.6	20.8	21.2		1		22.0
198889	25.3	24.0	28.3	29.4	20.9	29.2				25.8
198990	20.2	15.5	26.1	36.9	21.0	18,9				23.5
1990-91	18.5	15.3	30.8	39.2	20.2	26.9		<del> </del>		24.7
1991-92	10.1	17.8	32.3	35.6	22.7	31.6				22.9
Production	Unit:QQ(qu	intales)					<del></del>	tl		22.8
Period/Region	1	11	111	IV	V	VI	VII	VIII	IX	Total
198788	38,800	885,519	435,627	831,800	122,800	93,500		<del> </del>		2,408,046
1988-89	106,400	1,018,100	408,500	557.800	184,900	131,300		l		2,407,000
1989-90	146,000	416,600	138,100	734,800	125,700	119,100				1,680,300
1990-91	204,000	345,400	169,200	727,700	117,000	42,500				
1991-92	87,500	507,740	194,400	478,700	190,400	113,300				1,605,800
Commence			1.00					L		1,572,040

Sorce:Minsterio de Agricultura y Ganaderla(MAG)

### Results of farming of beans by RegionPeriod 1987/1988 - 1991/1992

Beans							•	•		
	Unit:Mz(Me	inzanas)				144				•
Period/Region	i	11	111	ΙV	٧	VI	VII	VIII	iΧ	Total
1987-88	20,200	6,558	4,225	18,502	15,100	25,236	4,000		2,785	96,608
1988-89	35,629	8,158	5,023	16,324	28,834	46,196	10,434		3,091	153,689
1989-90	30,707	10,197	3,058	18,320	35,226	41,702	5,300	2,548	3,911	150,969
1990-91	32,033	9,666	2,596	18,561	38,094	50,178	3,566	2,204	4,053	160,951
199192	26,307	8,022	3,316	19,464	44,929	44,082	8,395	880	6,433	161,828
Yield	Unit:QQs/N	/Iz(Quintale	s/Manzana	ıs) ·						
Period/Region	i i	11	111	IV	V	VI	VII	VIII	ΙX	Total
1987-88	8.0	6.4	5.5	5.6	8.3	9.5	5.3	0.0	9.2	7.7
198889	7.8	6.9	4.7	6.4	9.6	7.8	9.0	0.0	10.8	8.0
198990	8.6	4.7	8.1	8.6	9.0	11.2	6.1	5.9	9.4	9.0
1990-91	10.3	6.1	7.4	8.7	8.9	10.6	11.0	8.0	13.2	9.6
1991-92	9.6	5.9	8.3	9.0	8.9	11.5	9.5	8.0	12.4	9.7
Production	Unit:QQ(qu	intales)	1,475.5							
Period/Region	. 1	lt l	111	IV	V	VI	VII	VIII	ΙX	Total
1987-88	160,700	42,242	23,286	103,700	124,900	238,590	21,000		25,649	740,067
1988-89	279,300	56,200	23,400	104,000	277,600	360,300	94,000		33,400	1,228,200
1989-90	263,500	48,400	24,900	158,200	316,400	465,000	32,100	15,000	36,700	1,360,200
199091	328,500	58,500	19,100	162,400	337,300	533,700	39,400	17,600	53,700	1,550,200
1991-92	253,679	47,591	27,586	176,000	399,458	506,839	79,753	7,040	79,548	1,577,494
Sorce; Minsterio	de Agricult	ura y Ganad	deria(MAG	)		·				

Resalts of farming of rice by	/ Region	Period 1987/1988	1991/1992
•			

Rice										
Area	ับnit:Mz(Ma	anzanas)	2.5				•			
Period/Region	l	11	111	IV	V	VI	VII	VIII	IX	Total
1987-88	3,200	11,200	100	11,400	12,000	7,300	4,200		5,500	54.900
1988-89	2,980	18,180	610	8,490	10,650	6,030	5,610		3,910	56,460
1989-90	3,380	17,670	750	9,510	13,880	4,850	11,160		4,390	65,590
1990-91	2,473	11,902	151	12,744	14,456	6,109	2,102	3,020	5,298	
1991-92	2,023	15,759	273	15,432	18,228	8,726	11,700	3,050	6,022	
Yield	Unit:(QQs-	-Oro)/Mz <	(Quintales	-Oro)/Mai	nzanas)>		· · · · · · · · · · · · · · · · · · ·			·
Period/Region	ı	11	111	IV	٧	Vi	VII	VIII	IX	Total
1987-88	31.9	27.4	20.0	29.1	23.7	33.6	15.1	0.0	30.2	27.4
1988-89	37.2	26.0	26.7	23.9	21.3	31.4	14.0	0.0	28.1	24.9
1989-90	33.8	20.3	20.0	24.8	25.7	36.0	21.5	0.0	30.9	24.8
1990-91	31.9	26.6	9.7	29.0	24.6	41.3	30.0	20.0	26.6	28.1
1991-92	33.1	25.8	15.1	29.8	24.4	46.2	16.6	25.0	31.0	27,6
	Unit:QQ~C	Pro(quintale	es-Oro)			: 1				
Period/Region	J	n ,	111	IV	٧	VI	VII	VIII	iX	Total
1987-88	102,100	306,500	2,000	332,300	284,700	245,600	63,300		165,900	1,502,400
198889	111,000	471,800	16,300	202,700	226,600	189,100	78,600		109,800	1,405,900
1989-90	114,170	358,570	15,000	235,440	356,640	174,550	239,500		135,530	1,629,400
199091	78,991	316,726	1,469	369,249	354,967	252,352	63,060	60,400	140,778	1,637,992
199192	67,062	406,009	4,209	459,396	444,136	403,031	194,220	76,250	186,527	2,240,840

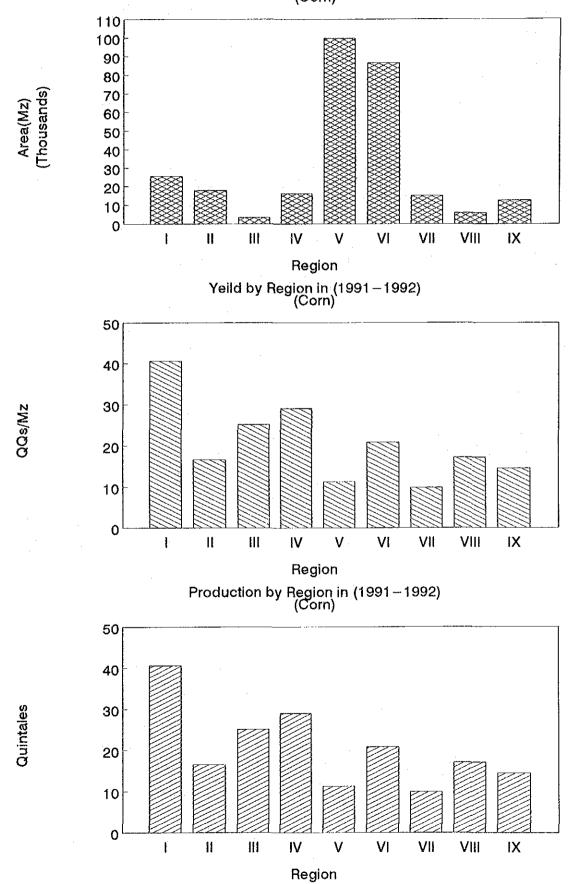
Sorce; Minsterio de Agricultura y Ganaderia (MAG)

Resalts of farming by Region Corn+Wheat+Beans+Rice

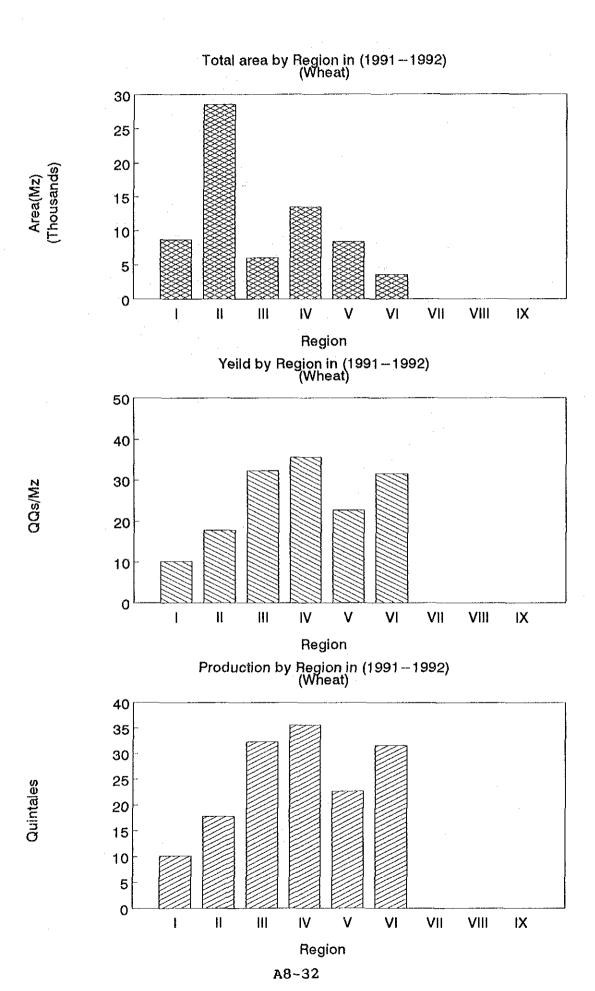
Period 1991/1992

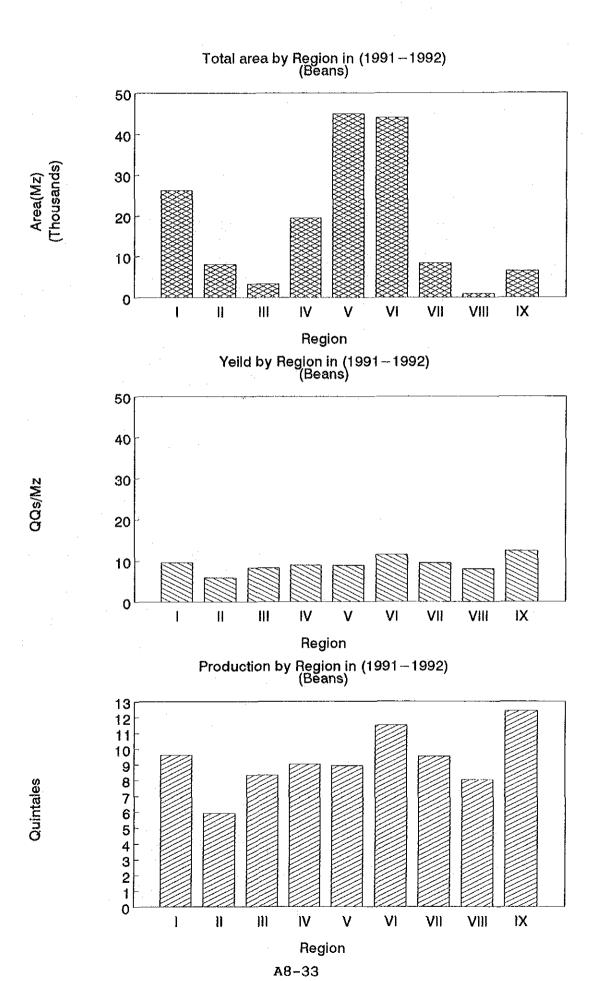
Area	Unit:Mz(Manzanas	ınzanas)				-	. !			
Period/Region		Н	1	N	^	ΙΛ		AIIIV	×	Total
Corn	25,493	17,828	3,420	16,140	99,790	86,531	15,196	5,875	12,590	282,863
Wheat	8,658	28,544	6,027	13,434	8,377	3,580		an <del>,</del>		68,620
Beans	26,307	8,022	3,316	19,464	44,929	44,082	8,395	880	6,433	161,828
Rice	2,023	15,759	270	15,432	18,228	8,726	11,700	3,050	6,022	81,210
Total	62,481	70,153	13,033	64,470	171,324	142,919	35,291	9,805	25,045	594,521
Yield	Unit:QQs/Mz(		Quintales/Manzanas		rice:(QQs-Oro)/Mz	Oro)/Mz				
Period/Region		200		2	^	I	N.	N	×	Total
Corn	40.6	16.6	25.1	29.0	11.3	20.8	9.9	17.1	14.5	18.6
Wheat	10.1	17.8	32.3	35.6	22.7	31.6				22.9
Beans	9.6	5.9	8.3	9.0	8.9	11.5	9.6	8.0	12.4	9.7
Rice	33.1	25.8	15.6	29.8	24.4	46.2	16.6	25.0	31.0	27.6
Total	23.1	17.9	23.9	24.6	12.6	19.8	12.0	18.8	17.9	17.9
Production	Unit:QQ(quint	iintales)			rice:QQ-Oro	10				
Period/Region			11	Λ	^	IX	ΝII	M	×	Total
Corn	1,034,510	295,987	85,916	468,700	1,126,797	1,803,309	150,270	100,725	182,369	5,248,583
Wheat	87,500	507,740	194,400	478,700	190,400	113,300				1,572,040
Beans	253,679	47,591	27,586	176,000	399,458	506,839	79,753	7,040	79,548	1,577,494
Rice	67,062	406,009	4,209	459,396	444,136	403,031	194,220	76,250	186,527	2,240,840
Total	1,442,751 1,257,327	1,257,327	312,111	,582,796	312,111 1,582,796 2,160,791 2,826,479	2,826,479	424,243	184,015	448,444	448,444 10,638,957
Sorce; Minsterio de Agricultura	de Agricult		y Ganaderia(MAG)	-						

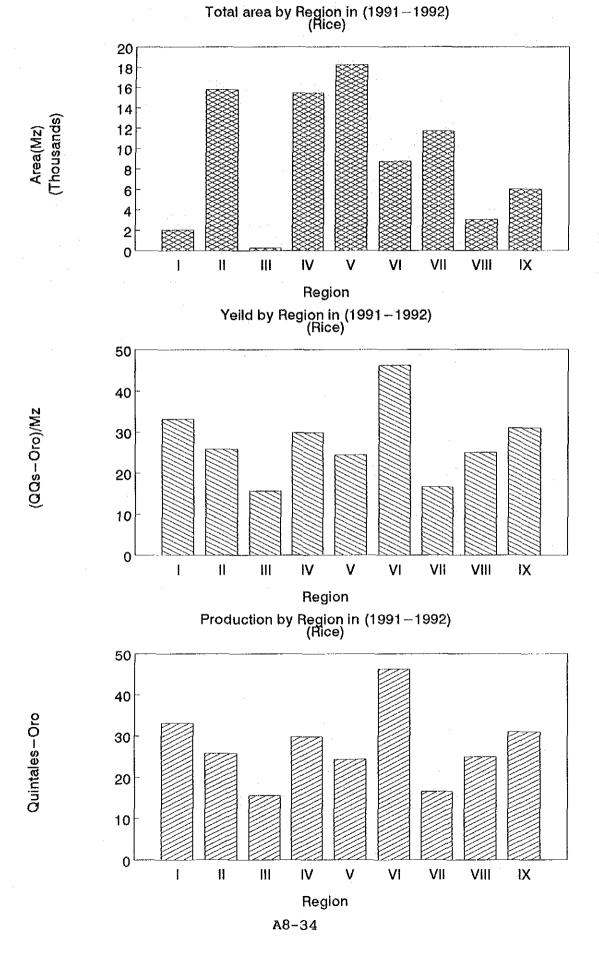
Total area by Region in (1991–1992) (Corn)



A8-31







### Production of Beef 1988-1992

1988

Region	Industrial(E	xport)	Minicipal(E	om.Cons)	Total	
	Unit	1000 pnd	Unit	1000 pnd	Unit	1000 pnd
I		40	5,767	1,596.0	5,767	1,596.0
4 3 11	22,810	7,466.3	22,107	6,117.9	44,917	13,584.2
	61,239	19,418.4	45,176	12,502.0	106,415	31,920.4
IV	38,150	10,712.5	10,573	2,926.0	48,723	13,638.5
V	40,172	13,015.5	5,768	1,596.2	45,940	14,611.7
Vi			6,728	1,861.9	6,728	1,861.9
VII					0	0.0
VIII					0	0.0
IX					0	0.0
Total	162,371	50,612.7	96,119	26,600.0	258,490	77,212.7

Source:MAG

1989

Region	Industrial(E	xport)	Minicipal(D	Oom.Cons)	Total	
	Unit	1000 pnd	Unit	1000 pnd	Unit	1000 pnd
	32,274	11,094.3	5,677	1,571.9	37,951	12,666.2
ll II			21,763	6,026.0	21,763	6,026.0
111	66,580	21,510.0	44,473	12,314.1	111,053	33,824.1
IV	61,015	18,731.2	10,409	2,882.1	71,424	21,613.3
V	50,732	17,697.8	5,677	1,571.9	56,409	19,269.7
VI			6,624	1,834.0	6,624	1,834.0
VII					0	0.0
VIII					0	0.0
IX					0	0.0
Total	210,601	69,033.3	94,623	26,200.0	305,224	95,233.3

Source:MAG

1990

Region	Industrial(E	xport)	Minicipal(D	om.Cons)	Total	
	Unit	1000 pnd	Unit	1000 pnd	Unit	1000 pnd
	25,293	8,570.9	11,269	2,863.7	36,562	11,434.6
II .			42,303	10,750.0	42,303	10,750.0
111	55,933	18,655.7	86,357	21,945.0	142,290	40,600.7
IV	38,678	12,740.0	21,013	5,339.8	59,691	18,079.8
٧	50,344	18,638.4	10,305	2,618.7	60,649	21,257.1
VI			12,522	3,182.8	12,522	3,182.8
VII					0	0.0
VIII					0	0.0
ΙX					. 0	0.0
Total	170,248	58,605.0	183,769	46,700.0	354,017	105,305.0

Source:MAG

1991

Region	Industrial(E	Export)	Minicipal(D	om.Cons)	Total	
	Unit	1000 pnd	Unit	1000 pnd	Unit	1000 pnd
1	4,241	1,404.0	10,839	3,019.8	15,080	4,423.8
- (1			41,459	11,550.9	41,459	11,550.9
III	41,474	14,251.2	95,380	26,573.8	136,854	40,825.0
IV	26,395	9,302.2	25,822	7,194.3	52,217	16,496.5
V	33,073	12,448.4	7,578	2,111.3	40,651	14,559.7
VI		:	13,769	3,836.2	13,769	3,836.2
VII					0	0.0
VIII					0	0.0
IX			1,210	336.5	1,210	336.5
Total	105,183	37,405.8	196,057	54,622.8	301,240	92,028.6

Source:MAG

1992

Region	Industrial(E	xport)	Minicipal(D	om.Cons)	Total	
-	Unit	1000 pnd	Unit	1000 pnd	Unit	1000 pnd
1			9,668	2,650.8	9,668	2,650.8
ll l			35,992	10,418.2	35,992	10,418.2
111	50,651	18,800.0	89,028	24,479.0	139,679	43,279.0
IV .	54,201	19,178.4	25,628	7,560.8	79,829	26,739.2
V	33,849	12,417.8	11,754	3,205.3	45,603	15,623.1
VI			11,817	3,295.4	11,817	3,295.4
VII					0	0.0
VIII					0	0.0
IX			1,000	283.9	1,000	283.9
Total	138,701	50,396.2	184,887	51,893.4	323,588	102,289.6

Source:MAG

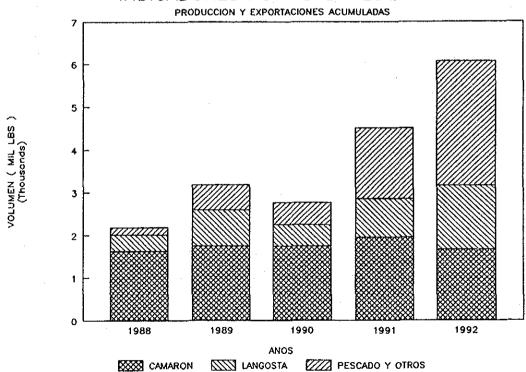
Annex 8-6 Fishery Data

# INDICADORES DE ACTIVIDAD PESQUERA: PRODUCCION Y EXPORTACIONES ACUMULADAS ANUALES.

PRODUCTO	1988	1989	1990	1991	1992
CAMARON			20月春期型台	生物的学生	1/3/4450-3
Captura (MIL LBS)	2,137.2	2,100.4	1,751.4	2,222.0	1,818.0
EXPORTACION FOB	FIXEDOVICESE	aline or or the con-		CATCAR SERVE	4 (2) September 1 (1) (2)
Volumen (MIL LBS)	1,621.0	1,736.4	1,735.1	1,943.3	1,656.4
Valor (MIL US\$)	5,689.5	5,112.0	5,001.5	6,052.5	4,524.0
Precio/Prom.(US\$/LBS	3.5	2.9	2.9	3.1	2.7
L'ANGOSTA "					1987年
Captura (MIL LBS)	467.4	908.0	583.5	954.7	1,716.5
EXPORTACION FOB		The state of the s	Prior	(_1, -1, 00, 2-1, 1, 1-2, 1, 4-1, 2, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	
Volumen (MIL LBS)	388.3	850.6	498.7	902.3	1,501.1
Valor (MIL US\$)	3,650.6	6,708.8	4,831.2	9,949.4	16,485.1
Precio/Prom.(US\$/LBS	9.4	7.9	9.7	11.0	11.0
RESCADO Y OTROS	\$ 74 / 14 / 14				
Captura (MIL LBS)	2,767.3	2,507.7	1,429.0	3,980.2	3,447.3
EXPORTACION FOB	#	LA patricular	\$ (3.7 ₄ , 400.617)	AGT 基本型 1.4 133	A Company of the Comp
Volumen (MIL LBS)	167.9	589.6	516.0	1,657.4	2,912.9
Valor (MIL US\$)	177.9	445.9	290.5	1,978.5	3,471.4
Precio/Prom.(US\$/LBS	1.1	0.8	0.6	1.2	1.2
TOTAL VOLUMEN	2,177.2	3,176.6			6,070.4
TOTAL VALOR	9,518.0	12,266.7	10,123.2	17,980.4	24,480.5
TOTAL PRECIO	14.0	11.6	13.2	15.3	14.9

FUENTE: INPESCA - CIP

### INDICADORES ACTIVIDAD PESQUERA



### Al Annex 8-7 Manufacture Data

# INDUSTRIA MANUFACTURERA: Produccion Acumulada de los productos principales.

PRODUCTOS	1988	1989	1990	1991	1992 2/
Aceite (qq)	376.7	458,0	433.0	517.5	530.8
Harina de Trigo (qq)	881.2	849.8	959.1	1,136.0	
Ron (Lts)	10,838.2	7,903.6	8,318.4	10,746.6	7,937.5
Cervezas (Cajilla)	3,544.9	4,137.0	4,281.1	6,333.5	
Gaseosas (Cajilla)	4,676.2	4,149.7	4,987.9		13,590.1
Cigarrillos (Carton)1/	7,929.7	7,678.7	6,846.2	10,293.1	9,135.5
Tela para Confeccion (Yardas)	11,760.0	6,554.5	4,795.5	3,275.5	2,712.6
Cuero Elaborado (Pie 2)	2,692.3	2,160.1	1,563.7	2,000.8	*
Carton para Cajas (Mts 2)	7,394.1	8,009.4	9,671.8	11,888.3	7,272.6
Cloro (Kls)	1,937.5	3,153.2	2,481.5	3,887.3	2,485.4
Soda Caustica (Kls)	5,727.6	19,597.4	10,982.0	9,715.5	3,608.8
Pinturas Preparadas (Glnes)	216.8	342.1	412.3	313.5	313.0
Jabon de Lavar (Kls)	11,272.2	19,567.0	6,858.5	11,662.0	13,000.0
Resinas y Compuestos PVC (Kls)	1,602.0	1,222.9	1,519.2	1,739.7	75.5
Varilla Laminada (Kls)	19,009.1	17,269.1		13,385.2	<del></del>
Alambre de Puas (Kis)	6,862.6		2,894.3	3,472.0	
TOTAL	96,721.1	105,303.0	82,423.7	101,020.8	81,257.0

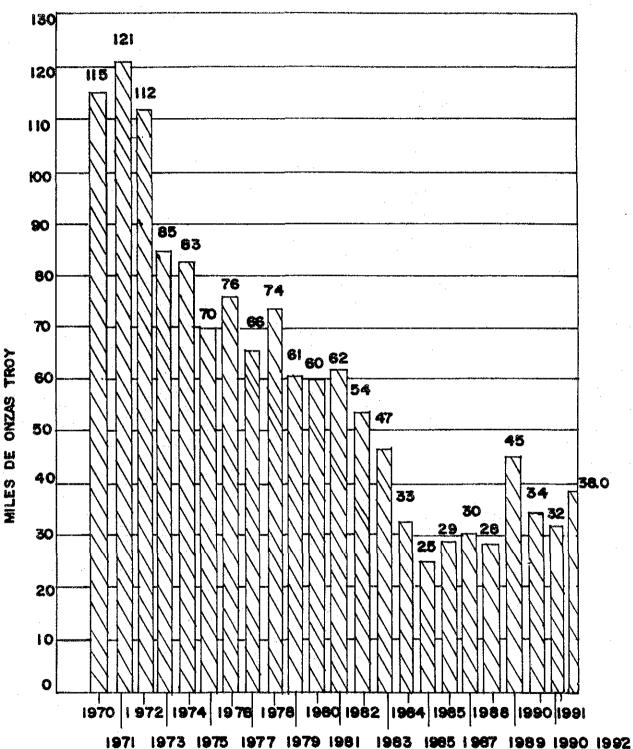
^{1/:}Carton de 10 Cajetillas.

2/:Preliminar

FUENTE: Ministerio de Economia y Desarrollo (MEDE).

### CORPORACION NICARAGUENSE DE MINAS

### NICARAGUA: PRODUCCION DE ORO 1970-1992



### VOLUMEN Y VALOR DE LA PRODUCCION DE LA RAMA METALICA DEL SECTOR MINERO SEGUN ANO.

	Volume	en (Onzas	Troy)	Valor (N	liles de Dol	ares)
ANOS	Total	Oro	Plata	Total	Oro	Plata
1987	59,090.30	29,951.40	29,138.90	116.56		116.56
1988	47,117.41	28,006.91	19,110.50	12,293.38	12,216.94	76.44
1989	81,538.60	45,334.30	36,204.30	17,464.30	17,319.48	144.82
1990	67,159.55	34,044.45	33,115.10	13,268.65	13,136.19	132.46
1991	82,022.58	32,440.38	49,582.20	11,927,85	11,729.47	198.38

NOTE: Valor calculado en base alPrecio Internacional FUENTE: Instituto Nicaraguense de la Mineria (INMINE)

# VOLUMEN Y VALOR DE LA PRODUCCION DE LA GRANDE Y PEQUENA MINERIA. ANOS 1987-1991

	VOLUM	N (ONZAS	TROY)	VAL	OR EN DOLA	RES
ANOS	TOTAL	ORO	PLATA	TOTAL	ORO*	PLATA
1987	59,090.25	29,951.35	29,138.90	116,555.60		116,555.60
GRAN MINERIA	57,294.70	28,155.80	29,138.90	116,555.60		116,555.60
PEQUENA MINERIA	1,795.55	1,795.55				<u> </u>
1988	47,117.41	28,006.91		12,293,382.31		76,442.00
GRAN MINERIA	43,568.80	24,458.30	19,110.50	10,770,041.42	10,693,599.42	76,442.00
PEQUENA MINERIA	3,548.61	3,548.61		1,523,340.89		
1989	81,538.60	45,334.30		17,464,298.94		
GRAN MINERIA	70,364.30	34,160.00	36,204.30	13,206,462.02	13,061,644.82	144,817.20
PEQUENA MINERIA	11,174.30	11,174.30		4,257,836.92	4,257,836.92	
1990	67,159.55	34,044.45	33,115.10	13,268,650.63	13,136,190.63	132,460.00
GRAN MINERIA	62,527.50	29,412.40	33,115.10	11,464,066.66	11,331,606.66	132,460.00
PEQUENA MINERIA	4,632.05	4,632.05		1,804,583.97	1,804,583.97	
1991	82,022.58	32,440.38	49,582.20	11,927,837.83	11,729,509.03	198,328.80
GRAN MINERIA	79,081.60	29,499.40	49,582.20	10,869,651.86	10,671,323.06	198,328.80
PEQUENA MINERIA	2,940.98	2,940.98	,_	-1,058,185.97	1,058,185.97	

NOTA: El valor de la Pequena Mineria 1988 y 1989 se calculo en base al Precio de la Gran Mineria por no contarse con informacion de INMINE. FUENTE:Instituto Nicaraguense de la Mineria (INMINE)

Direccion Financiera y Direccion de Planificacion