

Anexos 8-5 Datos de Agricultura

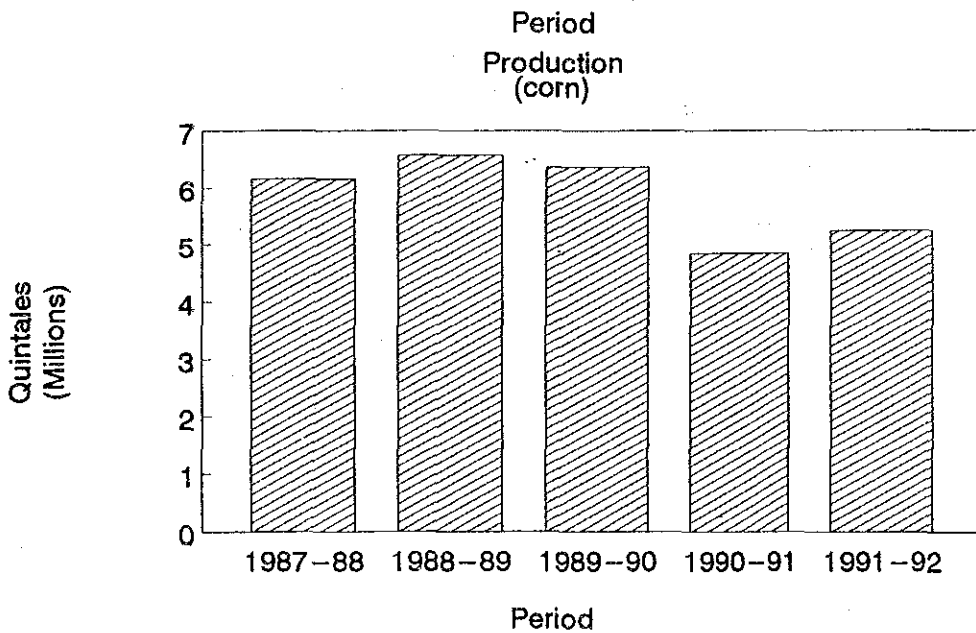
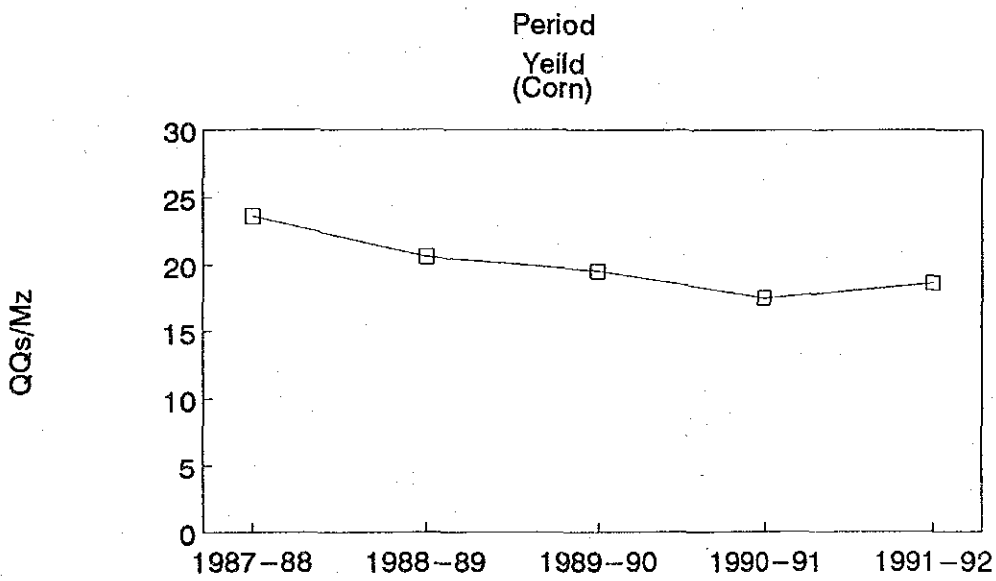
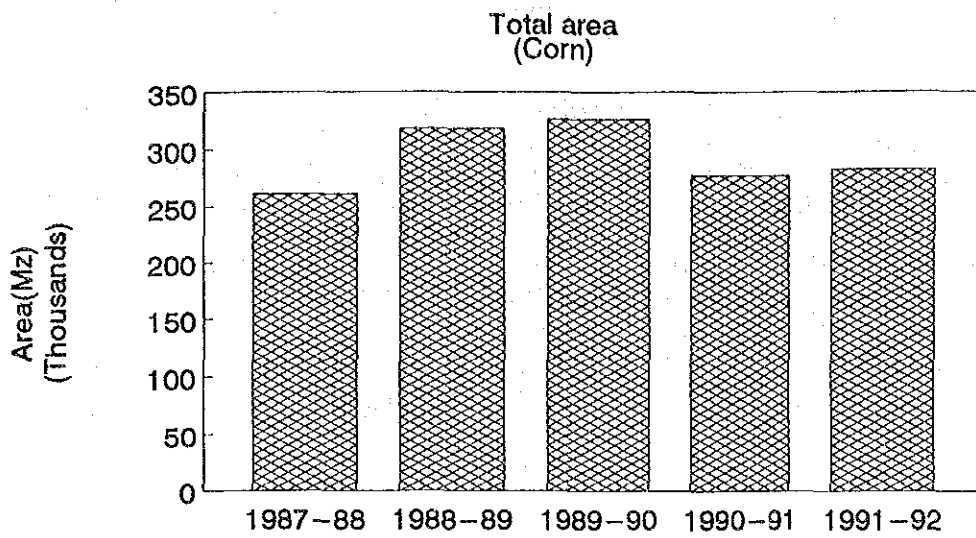
Results of farming of corn Period 1987/1988 - 1991/1992

Corn

REGION		Unit	1987-88	1988-89	1989-90	1990-91	1991-92
I	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
	Production	(QQ)	1,330,000	1,384,900	1,421,300	758,600	1,034,510
II	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
III	Area	(Mz)	6,453	7,630	3,790	4,116	3,420
	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
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

Source: Ministerio de Agricultura y Ganaderia (MAG)

Unit: Mz Manzanas  
 QQs/Mz Quintales/Manzanas  
 QQ Quintales



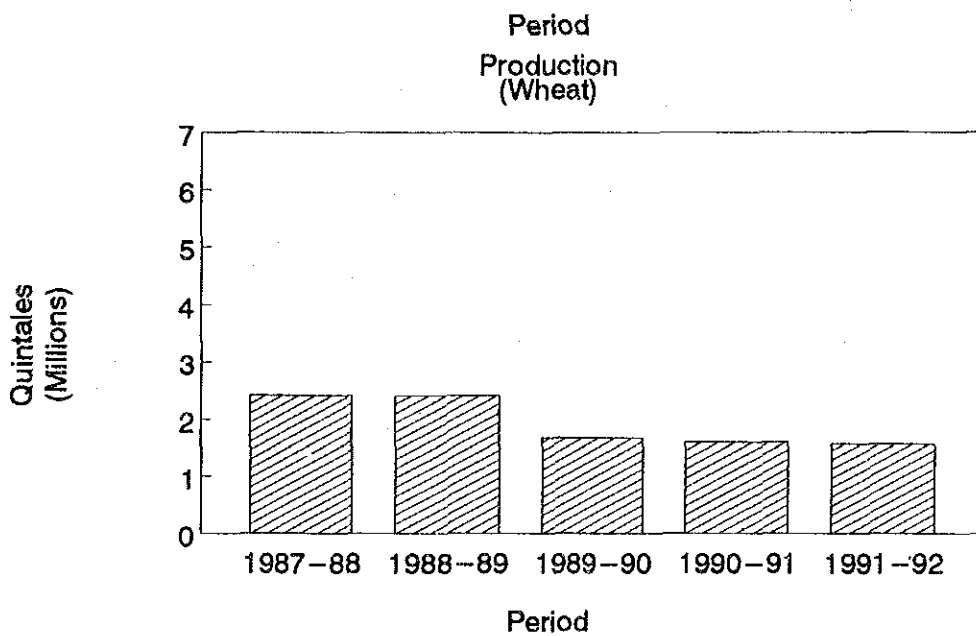
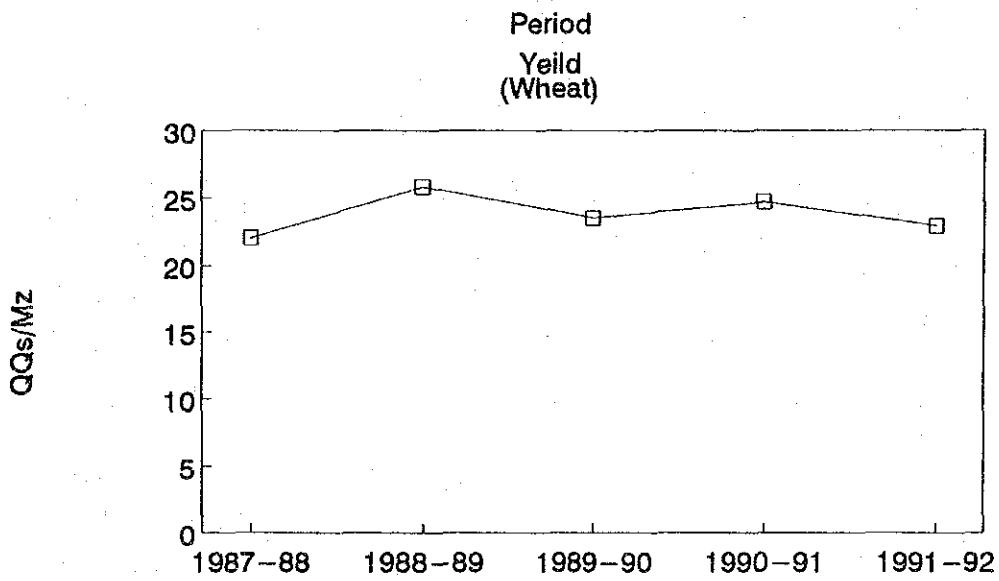
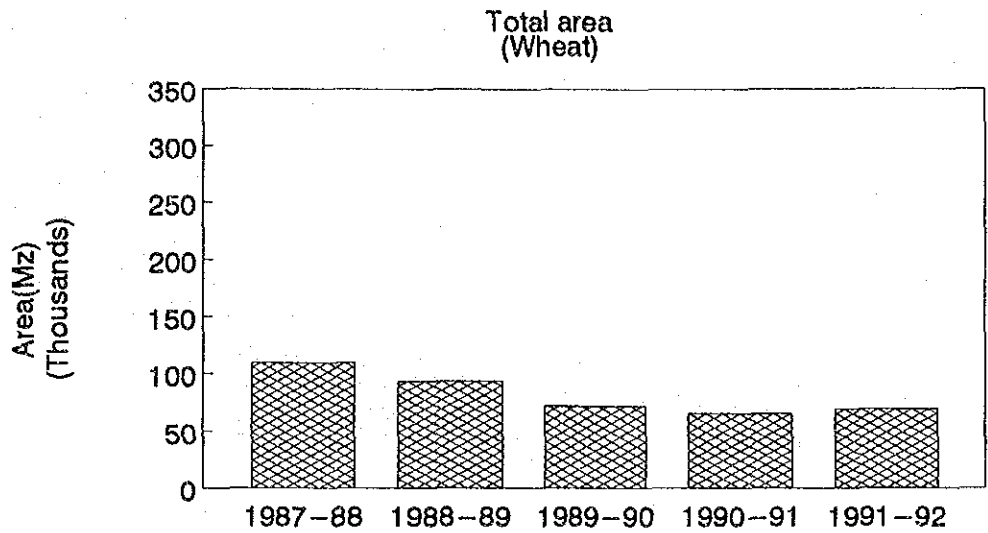
Results of the farming of wheat Period 1987/1988-1991/92

Wheat

REGION		Unit	1987-88	1988-89	1989-90	1990-91	1991-92
I	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	(QQ)	38,800	106,400	146,000	204,000	87,500
II	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
III	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)					
	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	71,525	65,081	68,620
	Yield	(QQs/Mz)	22.0	25.8	23.5	24.7	22.9
	Production	(QQ)	2,408,046	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



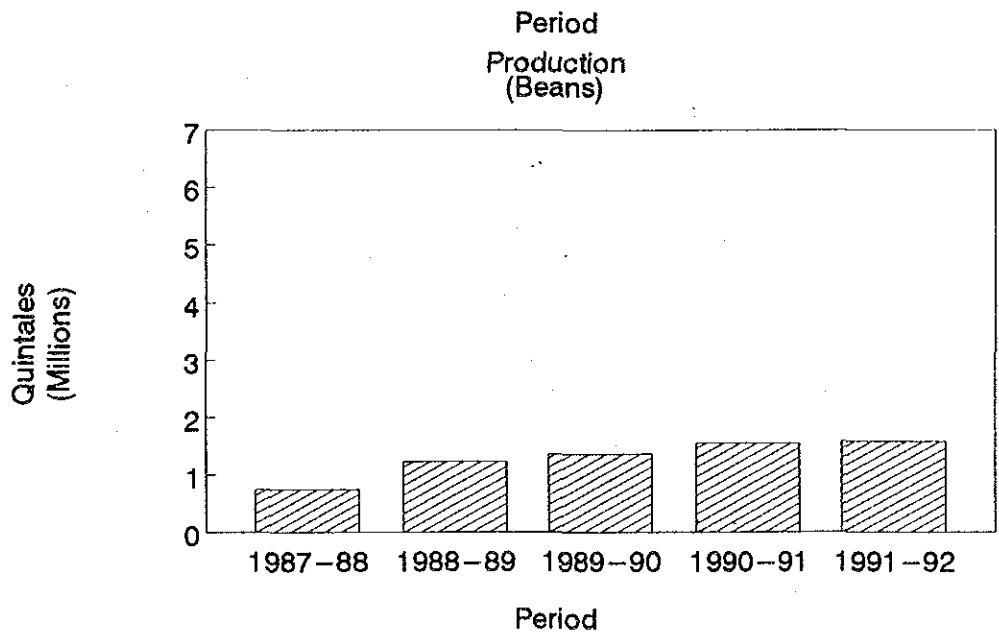
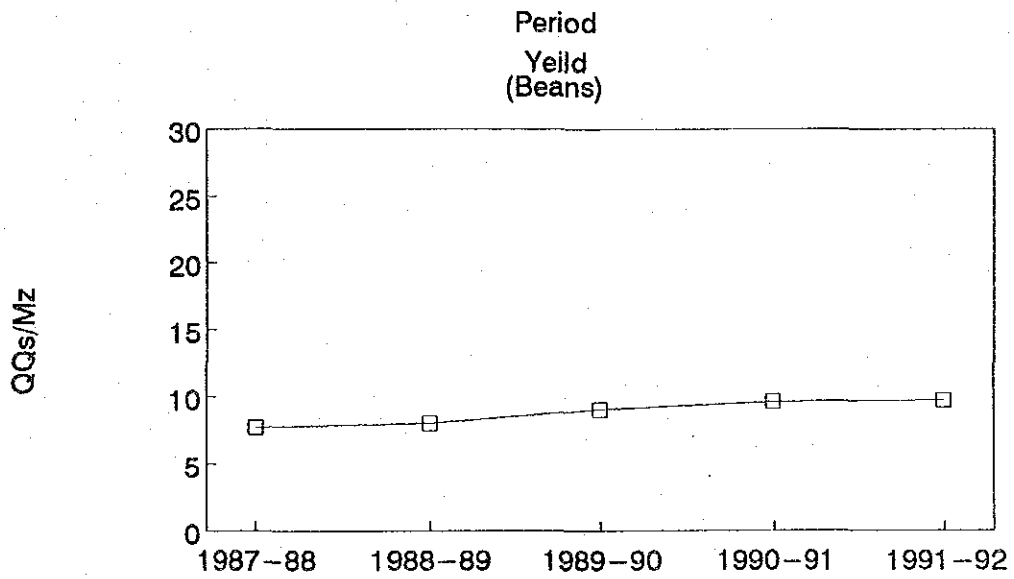
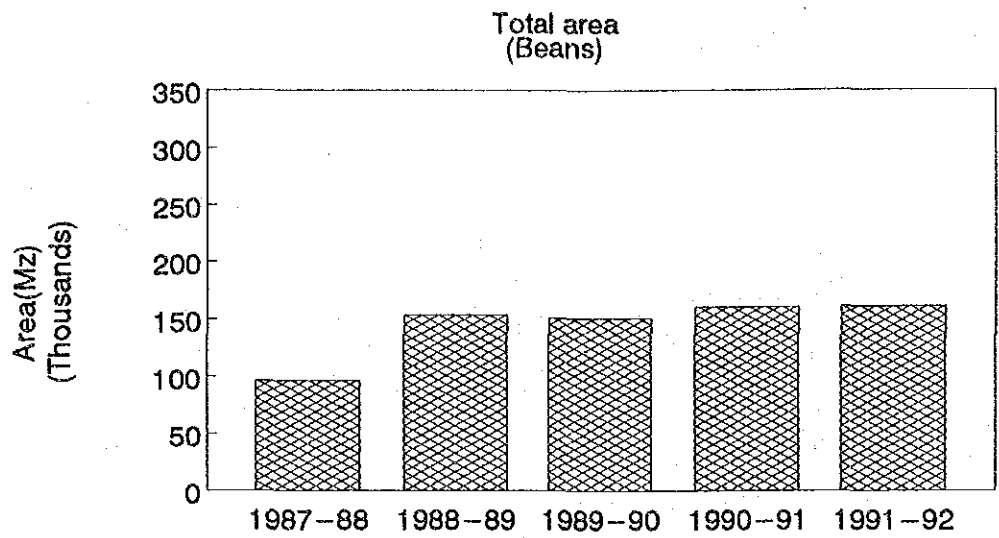
Results of the farming of beans Period 1987/1988-1991/92

Beans

REGION		Unit	1987-88	1988-89	1989-90	1990-91	1991-92
I	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
II	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	24,900	19,100	27,586
IV	Area	(Mz)	18,502	16,324	18,320	18,561	19,464
	Yield	(QQs/Mz)	5.6	6.4	8.6	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	(QQ)	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)	7.7	8.0	9.0	9.6	9.7
	Production	(QQ)	740,067	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



## Results of farming of rice

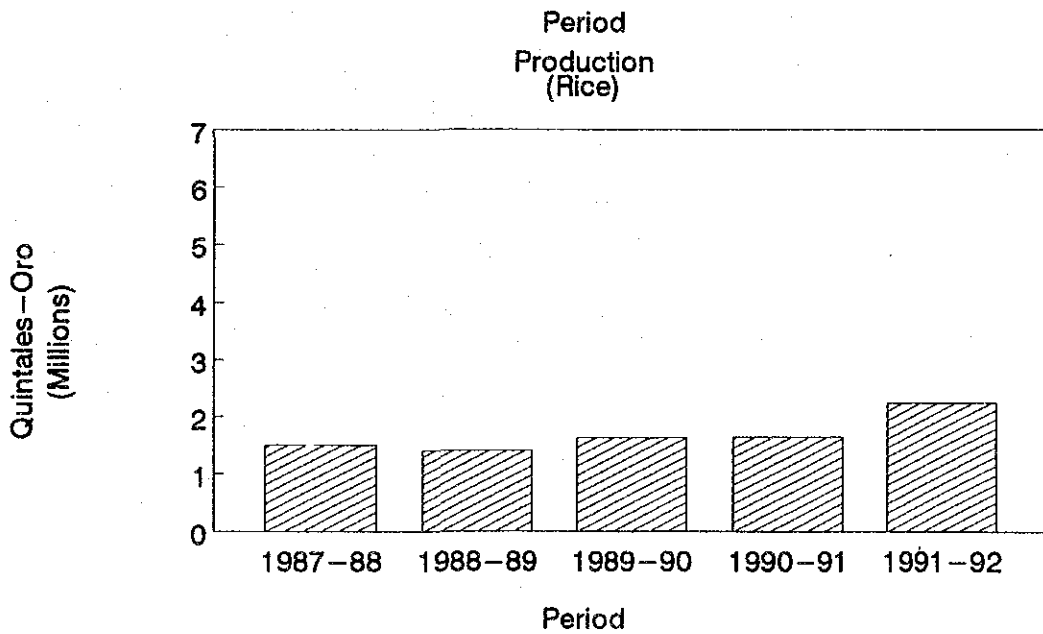
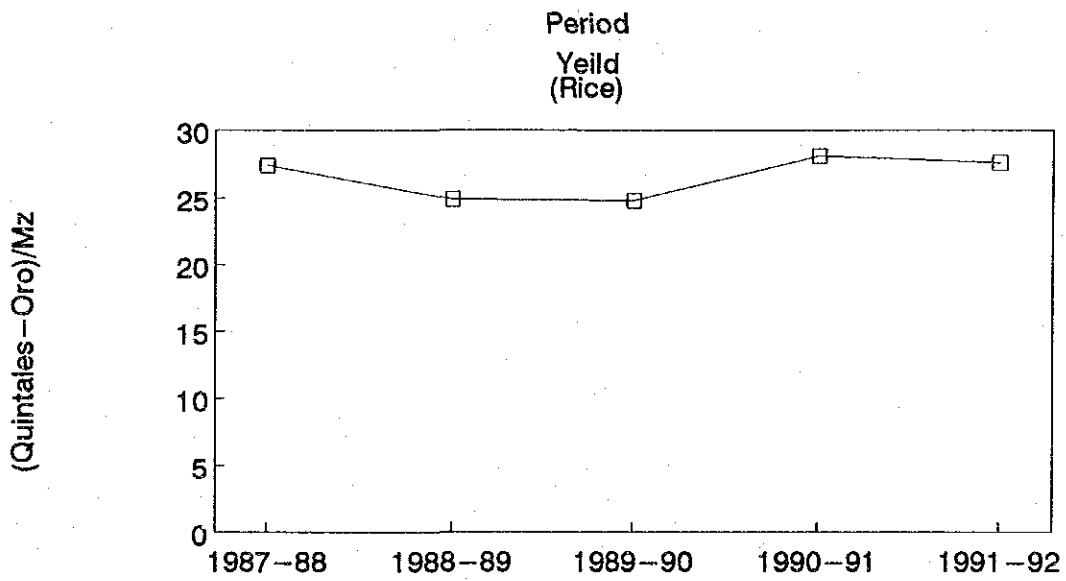
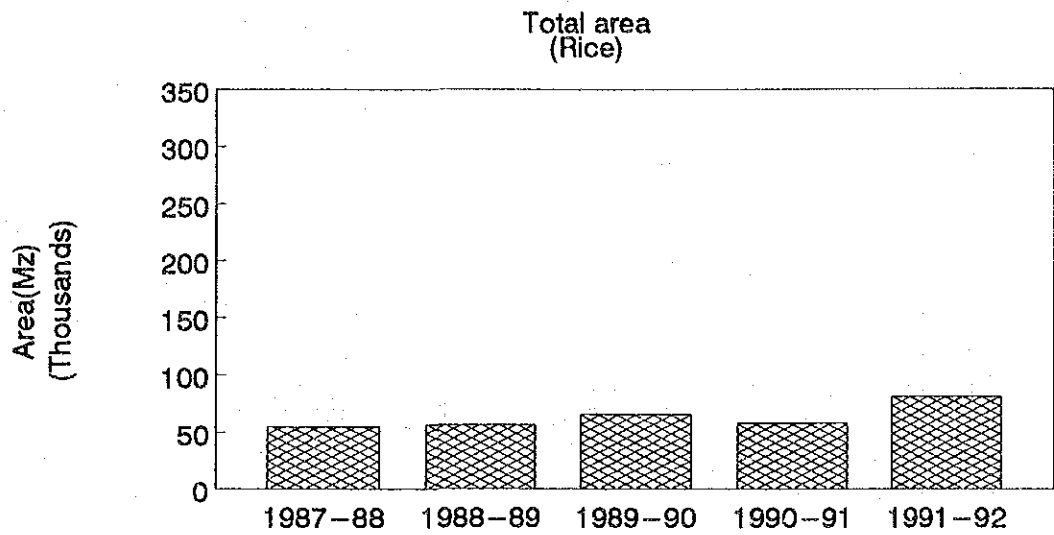
Period 1987/1988 - 1991/1992

## 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	(QQ-Oro)	102,100	111,000	114,170	78,991	67,062
II	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
III	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
IV	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	(QQ-Oro)	332,300	202,700	235,440	369,249	459,396
V	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	(QQ-Oro)	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	(QQ-Oro)				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	(QQ-Oro)	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	27.4	24.9	24.8	26.1	27.6
	Production	(QQ-Oro)	1,502,400	1,405,900	1,629,400	1,637,992	2,240,840

Source: Ministerio de Agricultura y Ganaderia (MAG)

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





**Results of farming of corn by Region Period 1987/1988 – 1991/1992**

<b>Corn</b>										
<b>Area Unit:Mz(Manzanas)</b>										
Period/Region	I	II	III	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
<b>Yield Unit:QQs/Mz(Quintales/Manzanas)</b>										
Period/Region	I	II	III	IV	V	VI	VII	VIII	IX	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
<b>Production Unit:QQ(quintales)</b>										
Period/Region	I	II	III	IV	V	VI	VII	VIII	IX	Total
1987-88	1,330,000	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

Source:Minsterio de Agricultura y Ganaderia(MAG)

**Results of farming of wheat by Region Period 1987/1988 – 1991/1992**

<b>Wheat</b>										
<b>Area Unit:Mz(Manzanas)</b>										
Period/Region	I	II	III	IV	V	VI	VII	VIII	IX	Total
1987-88	2,900	44,998	23,937	27,217	5,900	4,405				109,357
1988-89	4,210	42,487	14,418	18,941	8,836	4,498				93,390
1989-90	7,212	26,795	5,301	19,911	5,999	6,307				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				68,620
<b>Yield Unit:QQs/Mz(Quintales/Manzanas)</b>										
Period/Region	I	II	III	IV	V	VI	VII	VIII	IX	Total
1987-88	13.4	19.7	18.2	30.6	20.8	21.2				22.0
1988-89	25.3	24.0	28.3	29.4	20.9	29.2				25.8
1989-90	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				24.7
1991-92	10.1	17.8	32.3	35.6	22.7	31.6				22.9
<b>Production Unit:QQ(quintales)</b>										
Period/Region	I	II	III	IV	V	VI	VII	VIII	IX	Total
1987-88	38,800	885,519	435,827	831,800	122,800	93,500				2,408,046
1988-89	106,400	1,018,100	408,500	557,800	184,900	131,300				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				1,605,800
1991-92	87,500	507,740	194,400	478,700	190,400	113,300				1,572,040

Source:Minsterio de Agricultura y Ganaderia(MAG)

Results of farming of beans by Region/Period 1987/1988 - 1991/1992

Beans										
Area Unit:Mz(Manzanas)										
Period/Region	I	II	III	IV	V	VI	VII	VIII	IX	Total
1987-88	20,200	6,558	4,225	18,502	15,100	25,236	4,000		2,785	96,606
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
1991-92	26,307	8,022	3,316	19,464	44,929	44,082	8,395	880	6,433	161,828

Yield Unit:QQs/Mz(Quintales/Manzanas)										
Period/Region	I	II	III	IV	V	VI	VII	VIII	IX	Total
1987-88	8.0	6.4	5.5	5.6	8.3	9.5	5.3	0.0	9.2	7.7
1988-89	7.8	6.9	4.7	6.4	9.6	7.8	9.0	0.0	10.8	8.0
1989-90	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(quintales)										
Period/Region	I	II	III	IV	V	VI	VII	VIII	IX	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	380,300	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
1990-91	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

Source:Ministerio de Agricultura y Ganaderia(MAG)

Results of farming of rice by Region Period 1987/1988 - 1991/1992

Rice										
Area Unit:Mz(Manzanas)										
Period/Region	I	II	III	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	58,255
1991-92	2,023	15,759	273	15,432	18,228	8,726	11,700	3,050	6,022	81,213

Yield Unit:(QQs-Oro)/Mz <(Quintales-Oro)/Manzanas>										
Period/Region	I	II	III	IV	V	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

Production Unit:QQ-Oro(quintales-Oro)										
Period/Region	I	II	III	IV	V	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
1988-89	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
1990-91	78,991	316,726	1,469	369,249	354,967	252,352	63,060	60,400	140,778	1,637,992
1991-92	67,062	406,009	4,209	459,396	444,136	403,031	194,220	76,250	186,527	2,240,840

Source:Ministerio de Agricultura y Ganaderia(MAG)

Period 1991/1992

**Results of farming by Region**  
Corn + Wheat + Beans + Rice

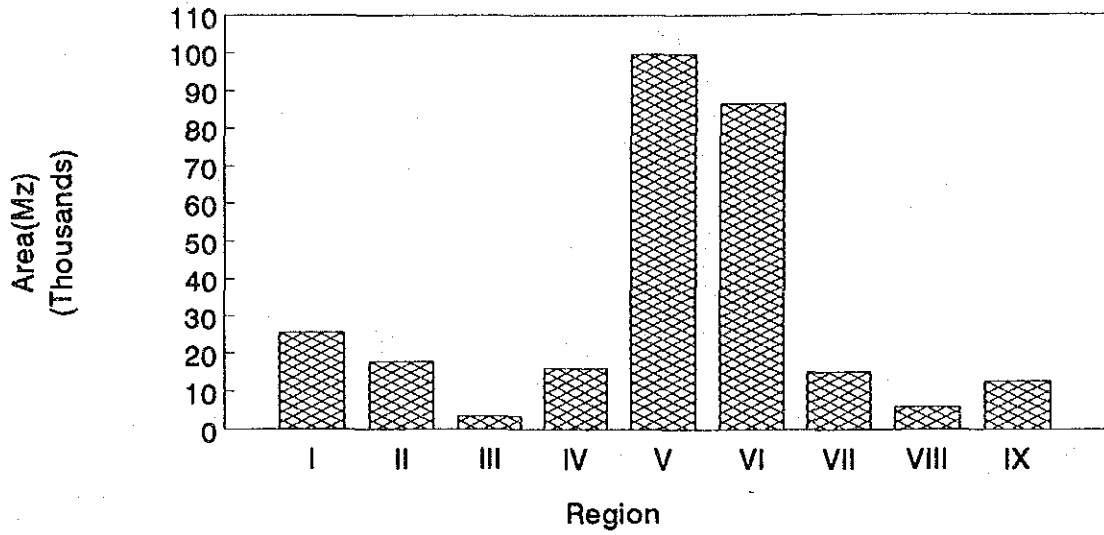
Total Area	Unit: Mz (Manzanas)									
	I	II	III	IV	V	VI	VII	VIII	IX	Total
Period/Region										
Corn	25,493	17,828	3,420	16,140	99,790	86,531	15,196	5,875	12,590	282,863
Wheat	8,658	28,544	6,027	13,434	8,377	3,580				68,620
Beans	26,307	8,022	3,316	19,464	44,929	44,082	8,395	880	6,433	161,828
Rice	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)									
	I	II	III	IV	V	VI	VII	VIII	IX	Total
Period/Region										
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	9.5	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

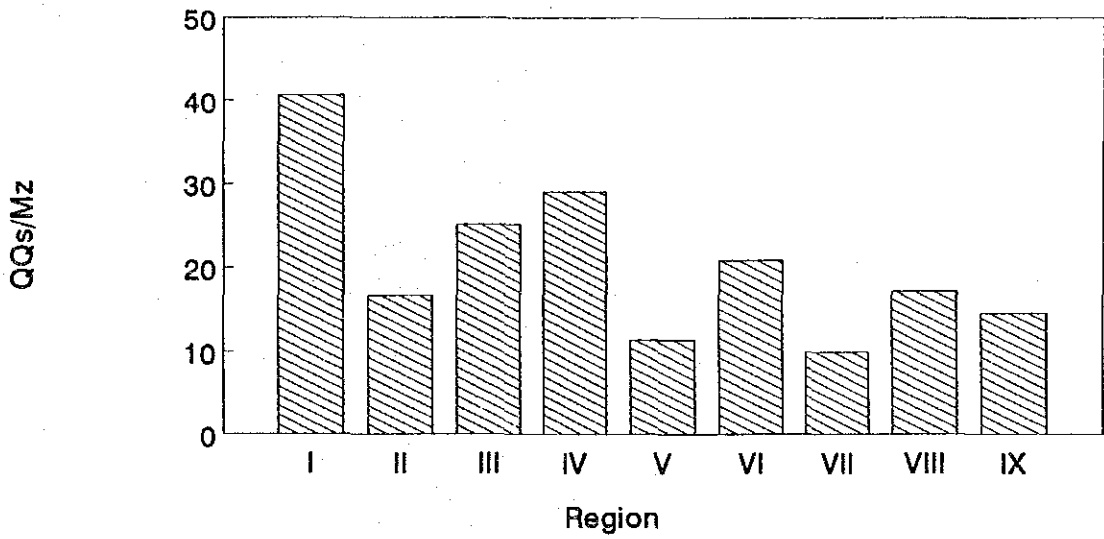
Production	Unit: QQ (quintales)									
	I	II	III	IV	V	VI	VII	VIII	IX	Total
Period/Region										
Corn	1,034,510	295,987	85,916	468,700	1,126,797	1,803,309	150,270	100,725	182,369	5,248,583
Wheat	87,500	507,740	194,400	478,700	190,400	113,300				1,572,040
Beans	253,679	47,591	27,586	176,000	399,458	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	312,111	1,582,796	2,160,791	2,826,479	424,243	184,015	448,444	10,638,957

Source: Ministerio de Agricultura y Ganadería (MAG)

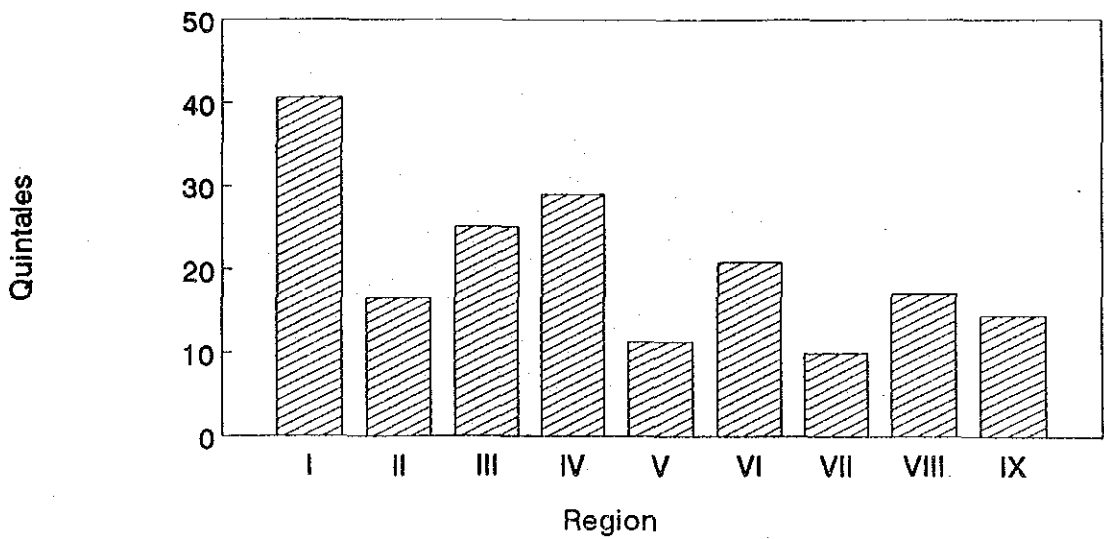
Total area by Region in (1991 – 1992)  
(Corn)



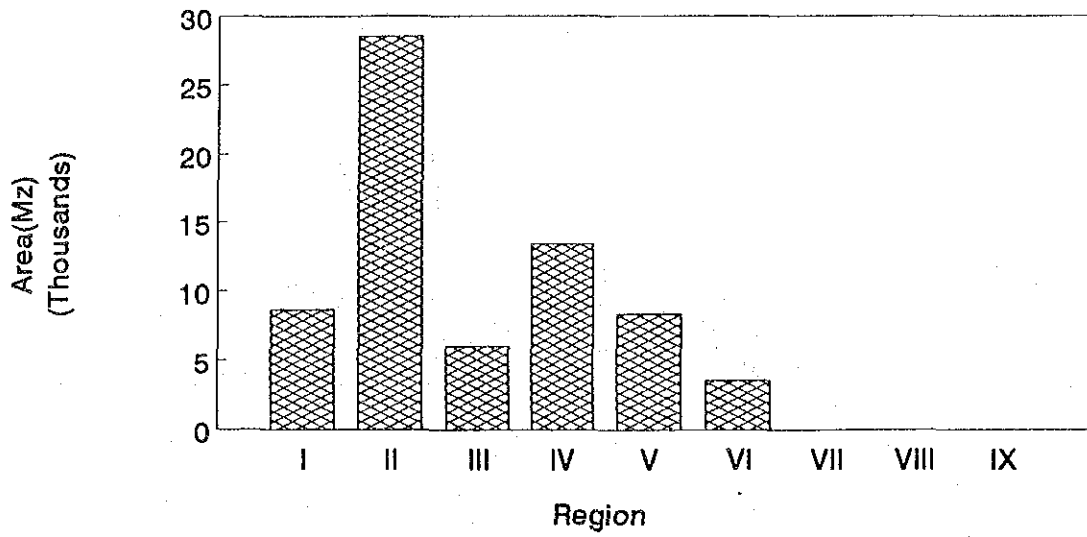
Yeild by Region in (1991 – 1992)  
(Corn)



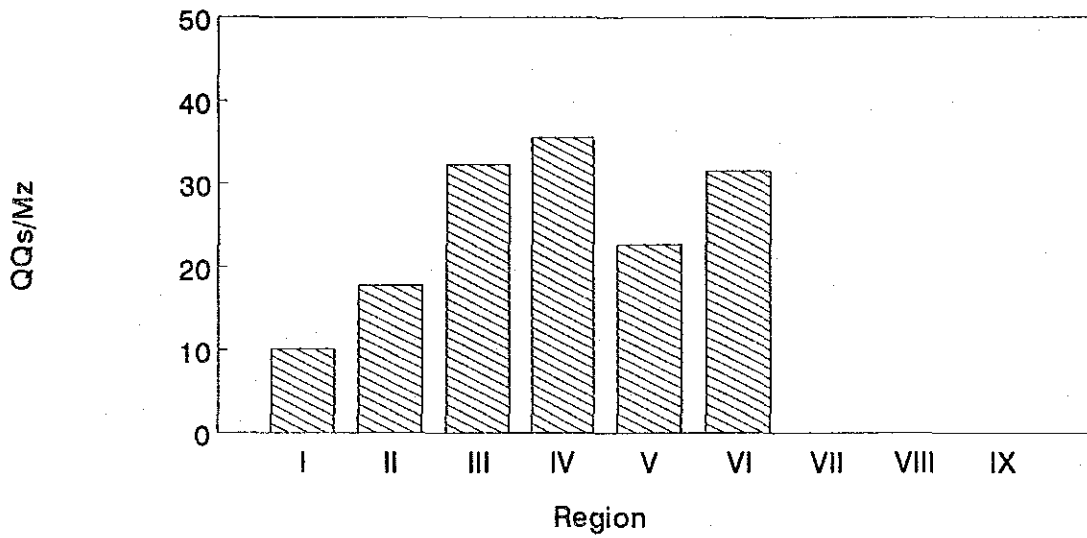
Production by Region in (1991 – 1992)  
(Corn)



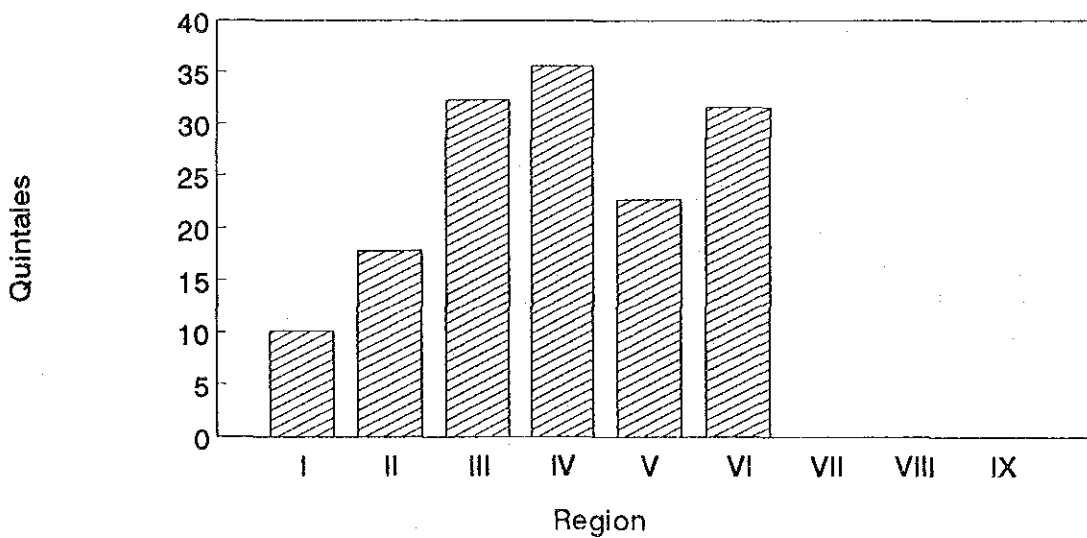
Total area by Region in (1991 - 1992)  
(Wheat)



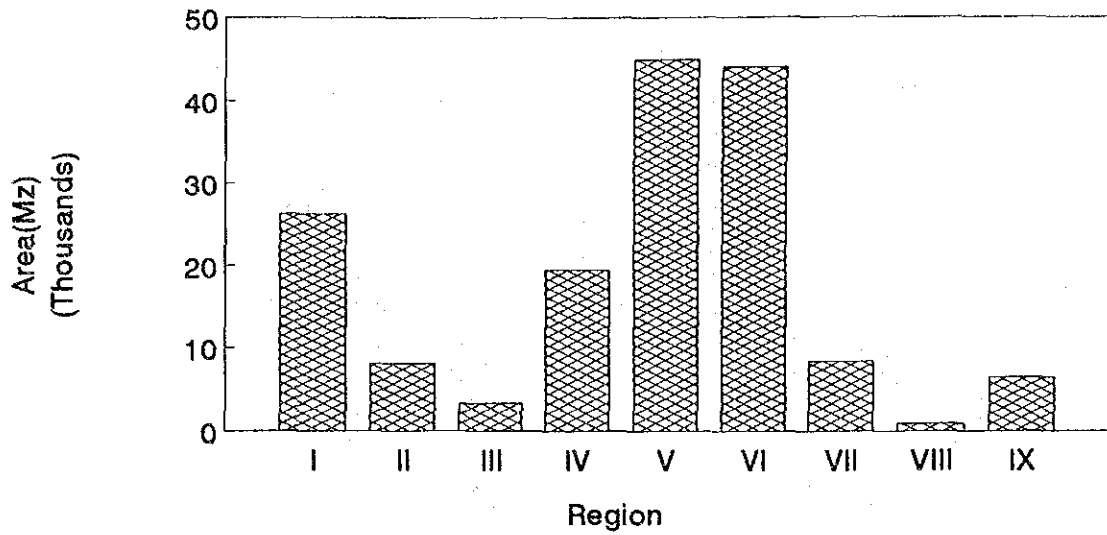
Yield by Region in (1991 - 1992)  
(Wheat)



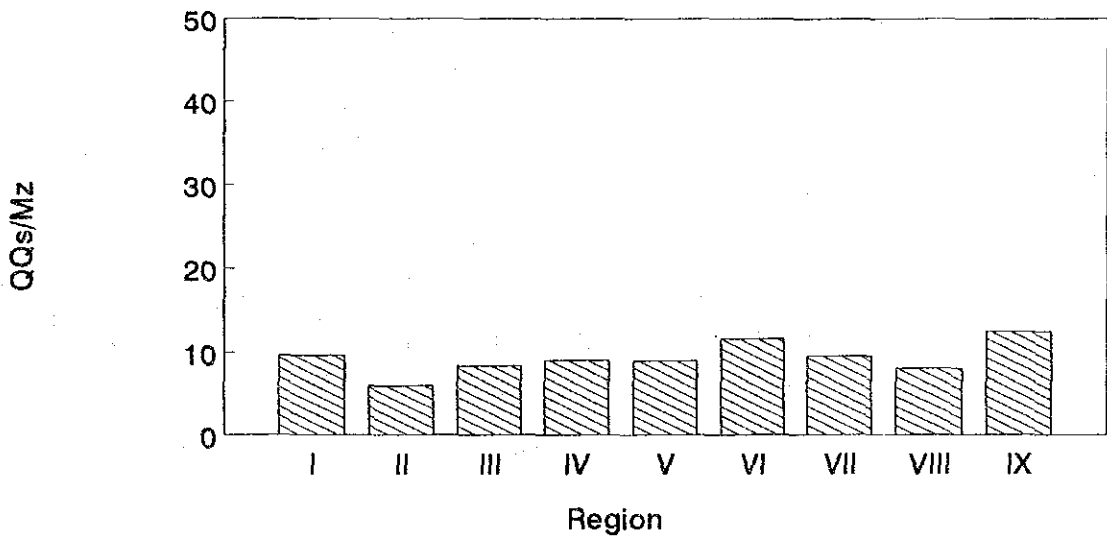
Production by Region in (1991 - 1992)  
(Wheat)



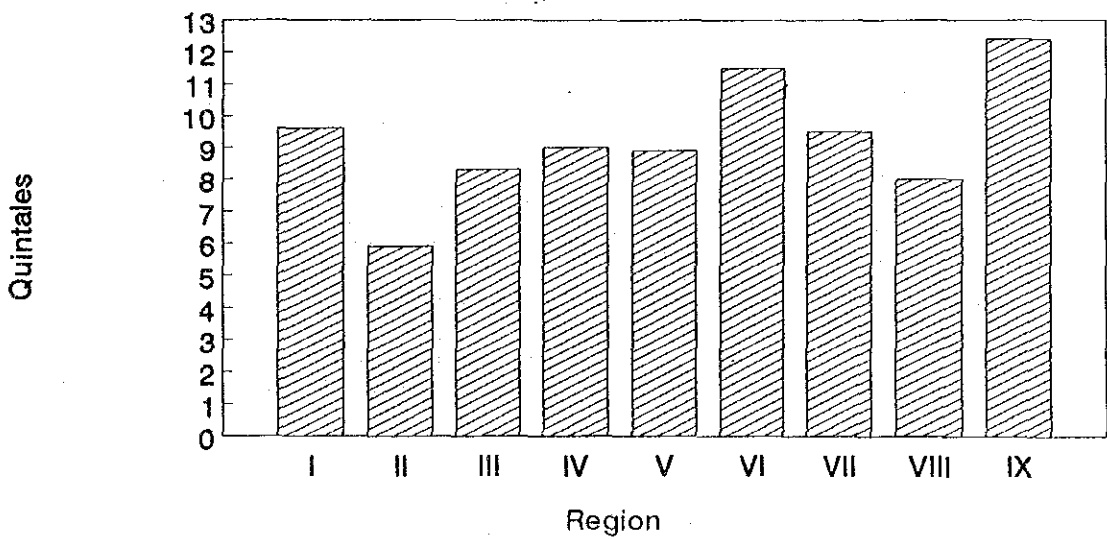
Total area by Region in (1991 – 1992)  
(Beans)



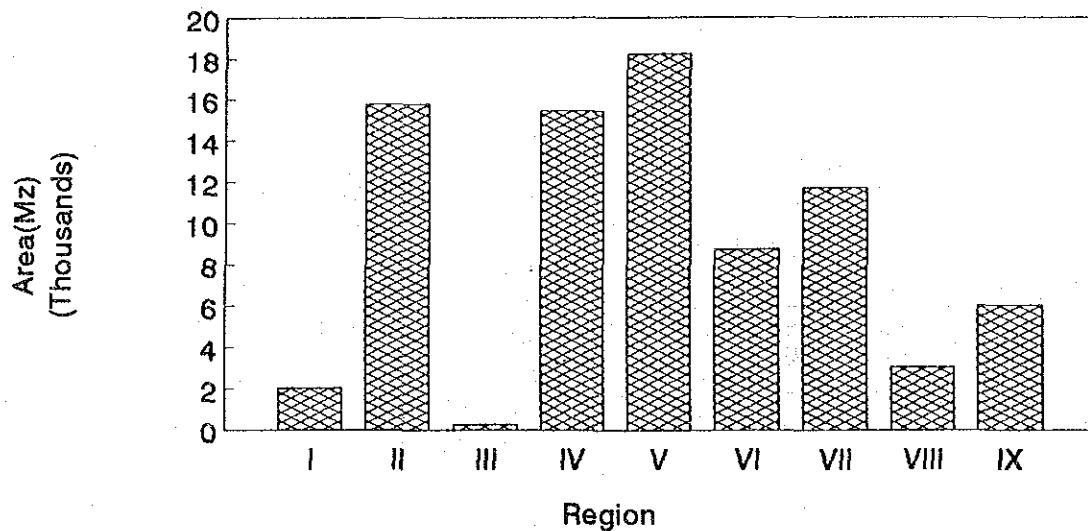
Yeild by Region in (1991 – 1992)  
(Beans)



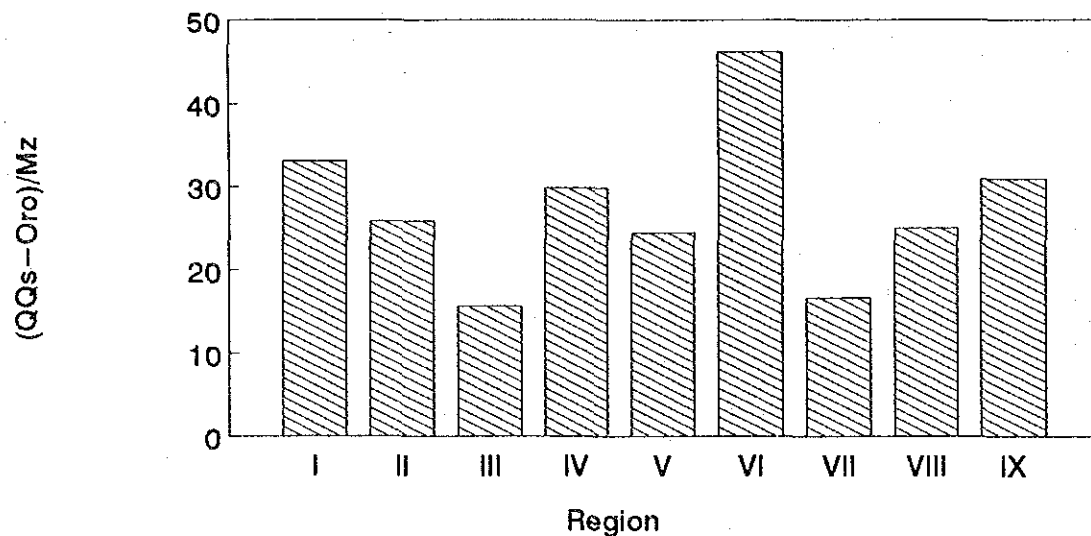
Production by Region in (1991 – 1992)  
(Beans)



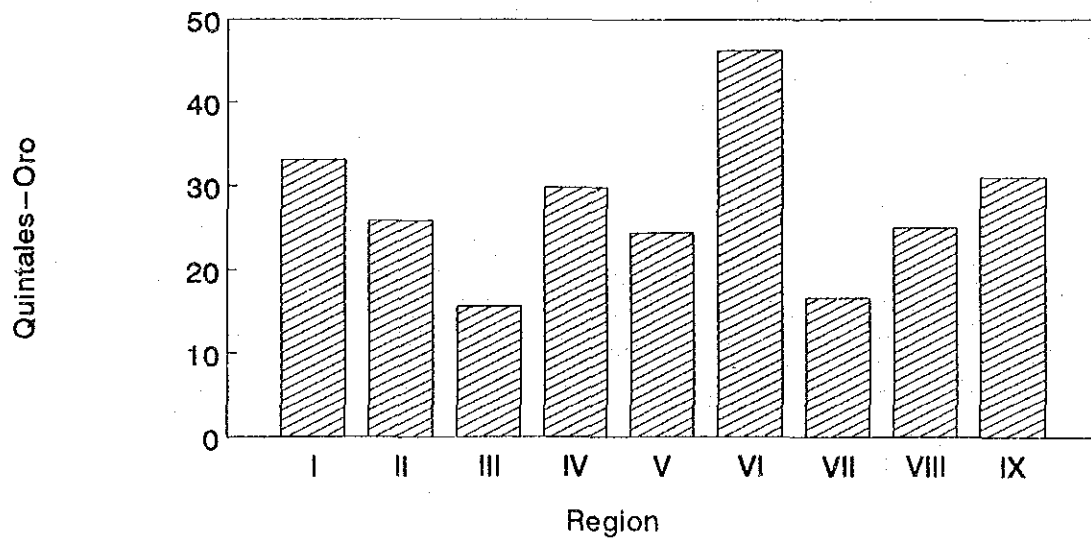
Total area by Region in (1991 – 1992)  
(Rice)



Yeild by Region in (1991 – 1992)  
(Rice)



Production by Region in (1991 – 1992)  
(Rice)



Production of Beef 1988-1992

1988

Region	Industrial(Export)		Minicipal(Dom.Cons)		Total	
	Unit	1000 pnd	Unit	1000 pnd	Unit	1000 pnd
I			5,767	1,596.0	5,767	1,596.0
II	22,810	7,466.3	22,107	6,117.9	44,917	13,584.2
III	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(Export)		Minicipal(Dom.Cons)		Total	
	Unit	1000 pnd	Unit	1000 pnd	Unit	1000 pnd
I	32,274	11,094.3	5,677	1,571.9	37,951	12,666.2
II			21,763	6,026.0	21,763	6,026.0
III	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(Export)		Minicipal(Dom.Cons)		Total	
	Unit	1000 pnd	Unit	1000 pnd	Unit	1000 pnd
I	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
III	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
V	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
IX					0	0.0
Total	170,248	58,605.0	183,769	46,700.0	354,017	105,305.0

Source:MAG



1991

Region	Industrial(Export)		Minicipal(Dom.Cons)		Total	
	Unit	1000 pnd	Unit	1000 pnd	Unit	1000 pnd
I	4,241	1,404.0	10,839	3,019.8	15,080	4,423.8
II			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(Export)		Minicipal(Dom.Cons)		Total	
	Unit	1000 pnd	Unit	1000 pnd	Unit	1000 pnd
I			9,668	2,650.8	9,668	2,650.8
II			35,992	10,418.2	35,992	10,418.2
III	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

Anexos 8-6 Datos de Pesca

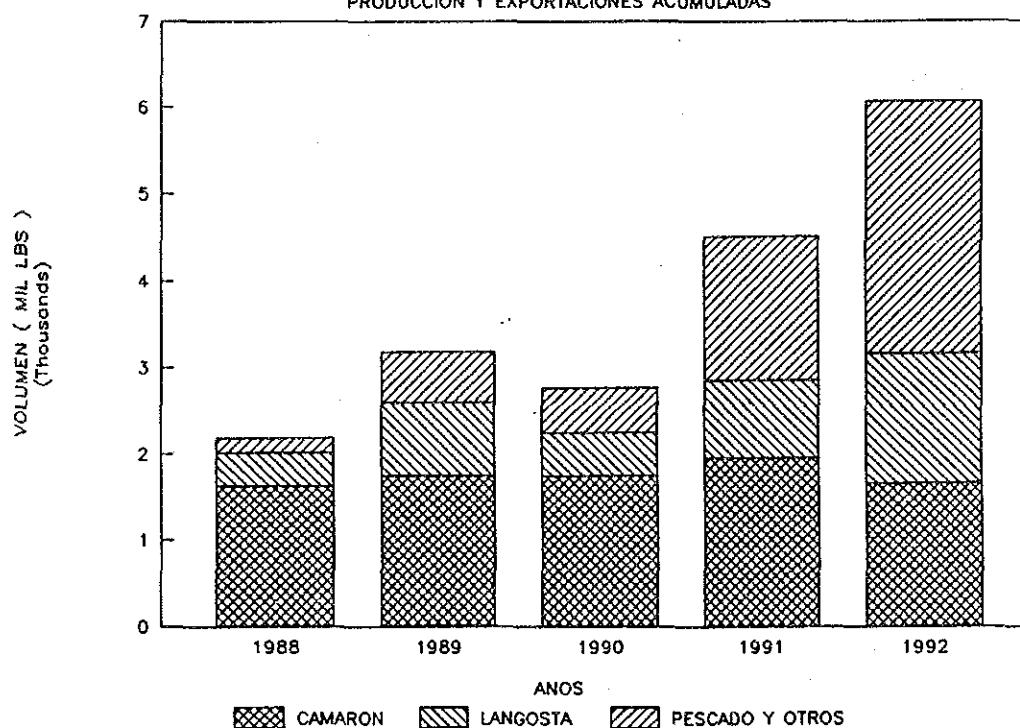
INDICADORES DE ACTIVIDAD PESQUERA:  
PRODUCCION Y EXPORTACIONES ACUMULADAS ANUALES.

PRODUCTO	1988	1989	1990	1991	1992
<b>CAMARON</b>					
Captura (MIL LBS)	2,137.2	2,100.4	1,751.4	2,222.0	1,818.0
EXPORTACION FOB					
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
<b>LANGOSTA</b>					
Captura (MIL LBS)	467.4	908.0	583.5	954.7	1,716.5
EXPORTACION FOB					
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
<b>PESCADO Y OTROS</b>					
Captura (MIL LBS)	2,767.3	2,507.7	1,429.0	3,980.2	3,447.3
EXPORTACION FOB					
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
<b>TOTAL VOLUMEN</b>	<b>2,177.2</b>	<b>3,176.6</b>	<b>2,749.8</b>	<b>4,503.0</b>	<b>6,070.4</b>
<b>TOTAL VALOR</b>	<b>9,518.0</b>	<b>12,266.7</b>	<b>10,123.2</b>	<b>17,980.4</b>	<b>24,480.5</b>
<b>TOTAL PRECIO</b>	<b>14.0</b>	<b>11.6</b>	<b>13.2</b>	<b>15.3</b>	<b>14.9</b>

FUENTE: INPESCA - CIP

INDICADORES ACTIVIDAD PESQUERA

PRODUCCION Y EXPORTACIONES ACUMULADAS



Anexos 8-7 Datos de Manufactura

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	981.5
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	5,677.4
Gaseosas (Cajilla)	4,676.2	4,149.7	4,987.9	10,654.3	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	2,161.0
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 (Gnes)	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	15,419.2	13,385.2	9,400.4
Alambre de Puas (Kls)	6,862.6	2,250.5	2,894.3	3,472.0	2,374.9
<b>TOTAL</b>	<b>96,721.1</b>	<b>105,303.0</b>	<b>82,423.7</b>	<b>101,020.8</b>	<b>81,257.0</b>

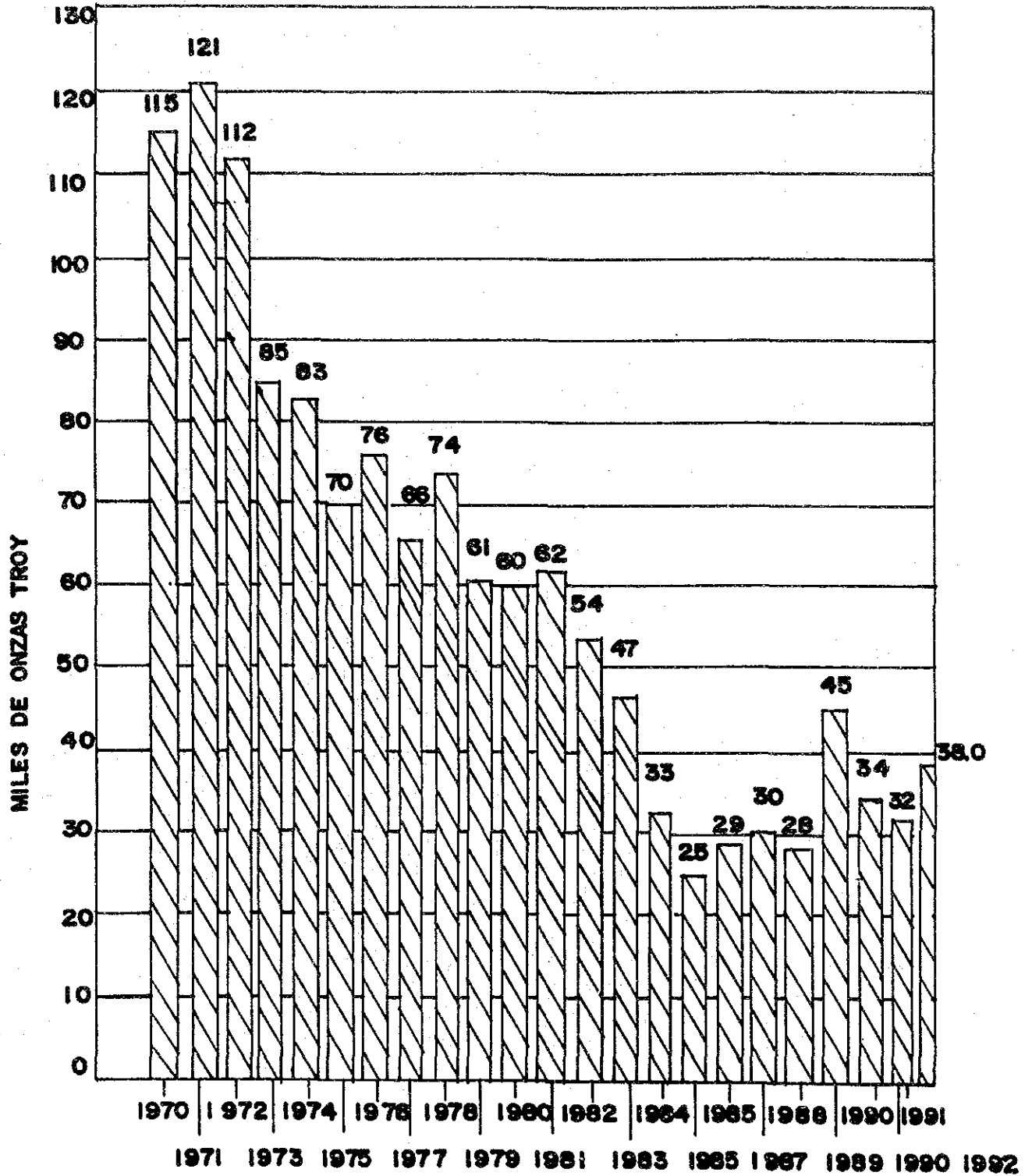
1/:Carton de 10 Cajetillas.

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 AÑO.**

ANOS	Volumen (Onzas Troy)			Valor (Miles de Dolares)		
	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 al Precio Internacional  
FUENTE: Instituto Nicaraguense de la Minería (INMINE)

**VOLUMEN Y VALOR DE LA PRODUCCION DE LA GRANDE Y PEQUENA MINERIA. AÑOS 1987-1991**

ANOS	VOLUMEN (ONZAS TROY)			VALOR EN DOLARES		
	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				
1988	47,117.41	28,006.91	19,110.50	12,293,382.31	12,216,940.31	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	1,523,340.89	
1989	81,538.60	45,334.30	36,204.30	17,464,298.94	17,319,481.74	144,817.20
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 Pequeña Minería 1988 y 1989 se calculo en base al Precio de la Gran Minería por no contarse con informacion de INMINE.

FUENTE: Instituto Nicaraguense de la Minería (INMINE)

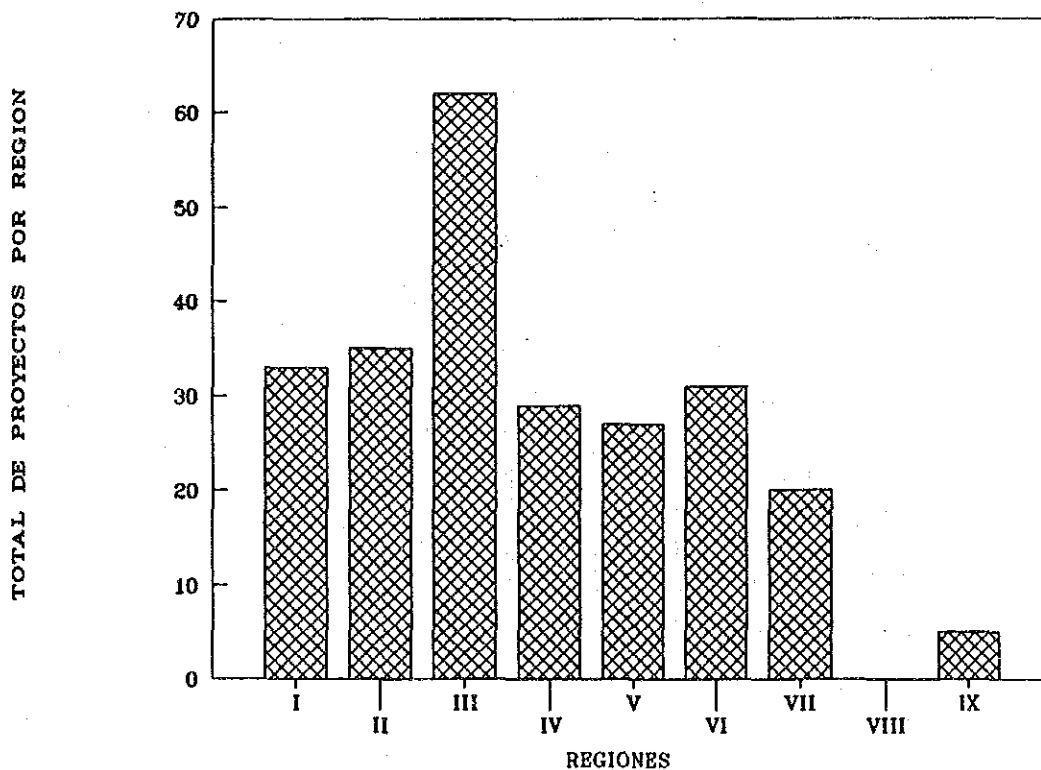
Dirección Financiera y Dirección de Planificación

**PROGRAMA DE INVERSION PUBLICA 1993 POR REGION**

REGION	DEPARTAMENTO	TOTAL
I	LAS SEGOVIAS	33
	NUEVA SEGOVIA	12
	MADRIZ	8
	ESTELI	13
II	OCCIDENTAL	35
	CHINANDEGA	16
	LEON	19
III	MANAGUA	62
IV	SUR	29
	MASAYA	8
	CARAZO	4
	GRANADA	12
	RIVAS	5
V	CENTRAL	27
	BOACO	11
	CHONTALES	16
VI	NORTE	31
	JINOTEGA	14
	MATAGALPA	17
VII	RAAN	20
VIII	RAAS	0
IX	RIO SAN JUAN	5

**PROGRAMA DE INVERSION PUBLICA**

1993 POR REGION



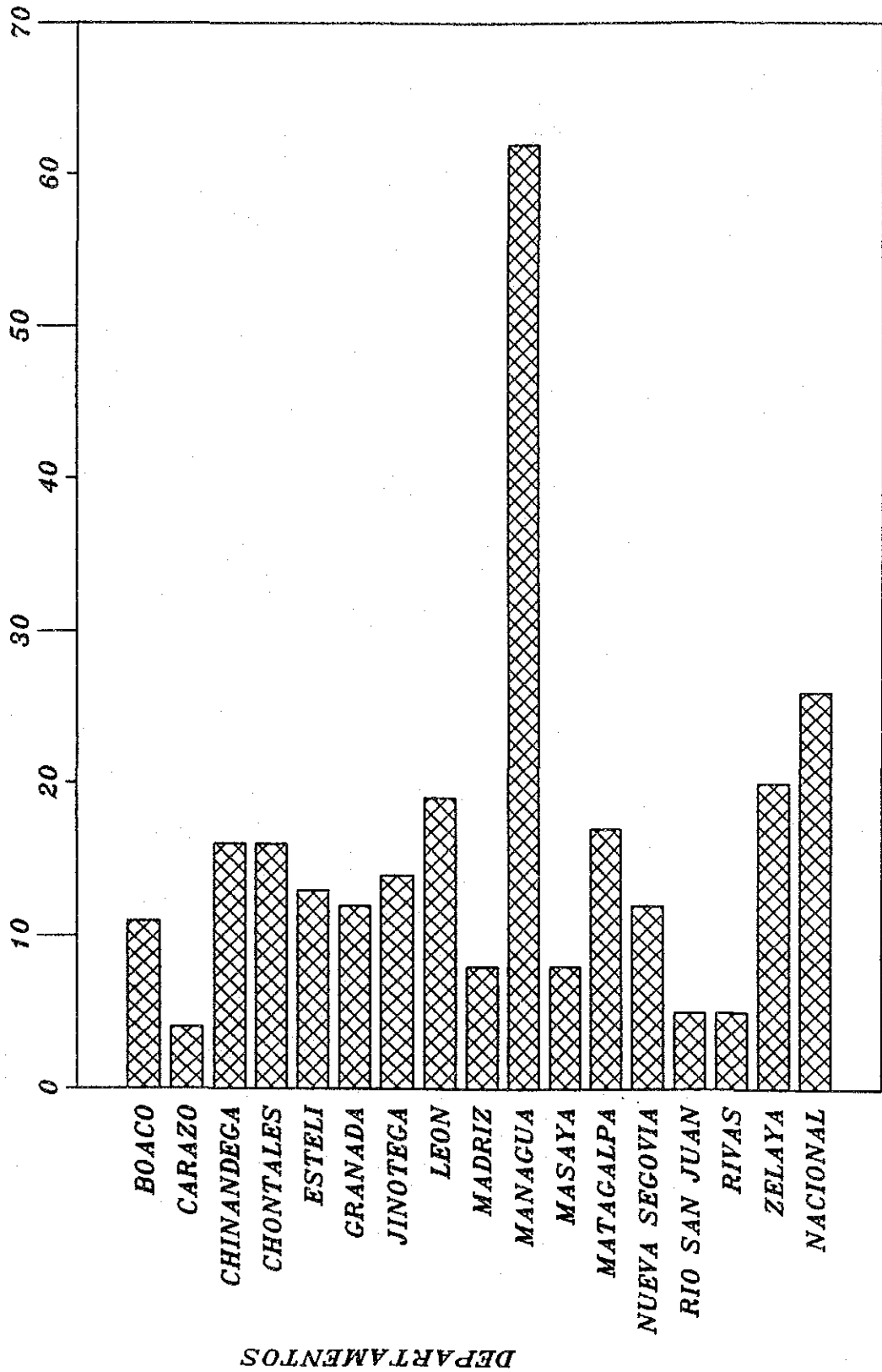
PROGRAMA DE INVERSION PUBLICA 1983 POR DEPARTAMENTO

DEPARTAMENTO	FISE	INAA	INATEC	INIFOM	MAG	MCT	MIPRES	IND	INE	IRENA	MIGOB	INRA	MINSA	TELCOR	INCULT	MEDE	MIFIN	MITRAB	INSSB	INEC	TOTAL	
BOACO	1	1	1	1	2	2	3														11	
CARAZO	1	1	1	1																		4
CHINAMDEGA	1	1	1	1	1	3	1	1	1	5	2											16
CHONTALES	1	1	1	1	1	6	3	1				1		1								16
ESTELI	1	2	1	1	1	2	2	2			1											13
GRAMADA	1	1	1	1	2	2	2	1	1	1		1										12
JINOTEGA	1	1	1	1	2	2	4	4	4													14
LEON	1	1	2	2	1	2	2	1	5	4												19
MADRIZ	1	2	1	1	1	1	1															8
MANAGUA	1	1	2	2	4	2	1	6	7	6	6	1	8	6	1	3	4	1				62
MASAYA	1	2	1	1	1	1	1	1		1												8
MATAGALPA	1	2	3	1	1	3	1	2			2			1								17
NUJEA SEGOVIA	1	1	1	1	1	2	4		1	1				1								12
RIO SAN JUAN	1	1	1	1	1	1	1			1		1										5
RIVAS	1	2	2	2	2	1	2		1	5	1											5
ZELAYA	1	2	2	1	1	3	3		3	4			5	1								20
NACIONAL	3																					26

# PROGRAMA DE INVERSION PUBLICA

1993 POR DEPARTAMENTO

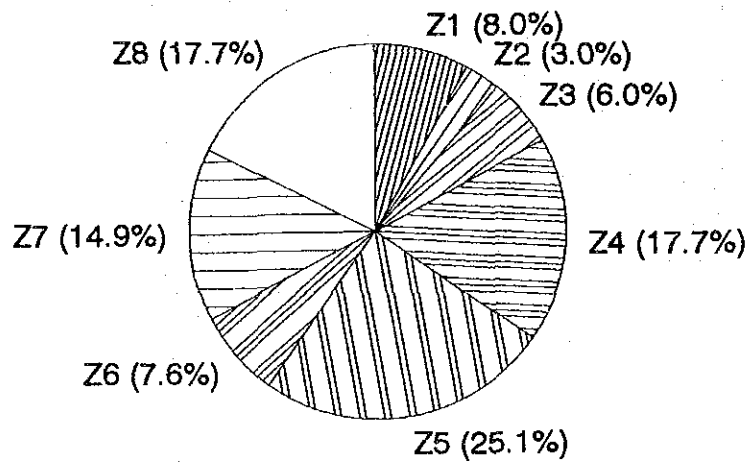
TOTAL DE PROYECTOS POR DEPARTAMENTO



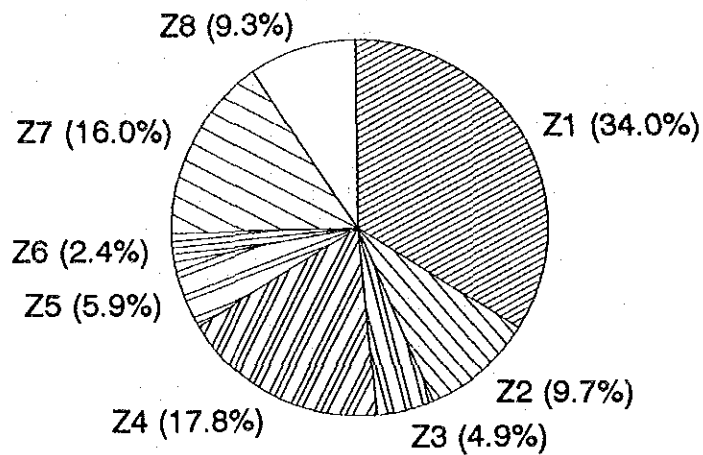


Z1	Development area to be controlled
Z2	Development area to be consolidated
Z3	Expansion area to be developed
Z4	Area of containment to be developed
Z5	Integration area to the socioeconomic development
Z6	Local development areas
Z7	Recovering and conservation area
Z8	Reserve areas of natural ecosystems

Composition of potential land use



Composition of population in each potential land use zone



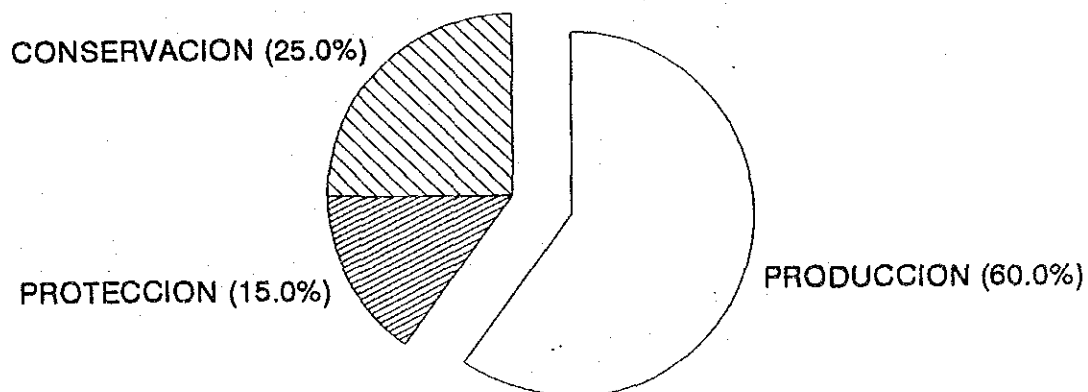
Source: "Lineamientos estratégicos para el ordenamiento territorial" INETEL

TIPOS DE BOSQUE POR FUNCION NICARAGUA 1990  
TOTAL DE BOSQUE: 4,302,000 HA

PRODUCCION	60%	2,600,000 ha
PROTECCION	15%	635,000 ha
CONSERVACION	25%	1,067,000 ha
TOTAL	100%	4,302,000 ha

SOURCE:IRENA 1991

TIPOS DE BOSQUE POR FUNCION  
NICARAGUA 1990

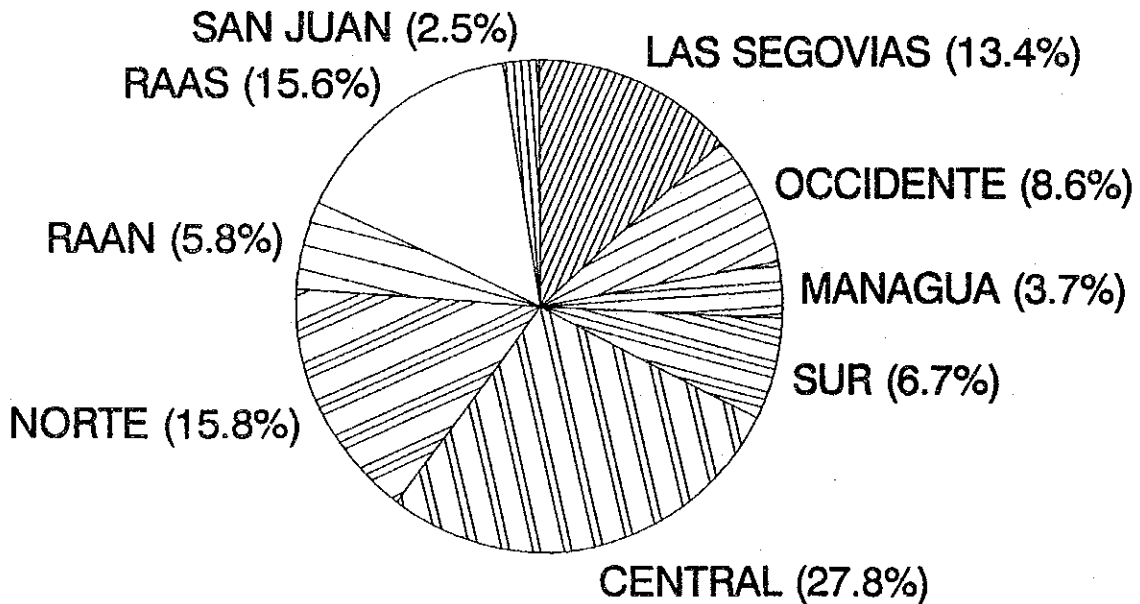


AREAS APTAS PARA PLANTACIONES FORESTALES  
NICARAGUA 1990 MILES HA

REGION		Areas
I	LAS SEGOVIAS	343,000 ha
II	OCCIDENTE	220,000 ha
III	MANAGUA	94,000 ha
IV	SUR	172,000 ha
V	CENTRAL	710,000 ha
VI	NORTE	405,000 ha
VII	RAAN	148,000 ha
VIII	RAAS	400,000 ha
IX	SAN JUAN	64,000 ha
TOTAL		2,556,000 ha

SOURCE:IRENA 1991

TIPOS DE BOSQUE POR FUNCION  
NICARAGUA 1990



EVOLUCION DE LA DISTRIBUCION REGIONAL DEL AREA COSECHADA  
1974/78 - 1989/90  
(En Miles de Mz)

RUBROS	1974/78			1989/90		
	PACIFICO	CENTRO NORTE	ZONAS ESPECIALES	PACIFICO	CENTRO NORTE	ZONAS ESPECIALES
EXPORTACION	357.0	87.0	2.0	167.0	76.0	1.0
Cafe	39.0	85.0		23.0	76.0	
Algodon	259.0	2.0		50.0		
Cana	49.0		2.0	55.0		1.0
Ajonjolí	10.0			39.0		
G.BASICOS	179.0	292.0	111.0	155.0	451.0	62.0
Arroz	15.0	12.0	13.0	28.0	22.0	16.0
Frijol	23.0	75.0	23.0	32.0	171.0	12.0
Maiz	93.0	177.0	75.0	44.0	246.0	34.0
Sorgo	48.0	28.0		51.0	12.0	

FUENTE: MAG

VALOR AGREGADO DE LA AGROINDUSTRIA E INDUSTRIA MANUFACTURERA  
(MILLONES DE DOLARES)  
1980 - 1989

CONCEPTO	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	TASA CREC.
MATANZA DE CARNE Y PREPARADO	38.6	29.0	47.1	49.4	42.8	42.8	34.4	29.0	33.8	40.0	0.4
FABRICA DE PRODUCTOS LACTEOS	13.2	18.6	22.0	20.8	19.9	19.6	20.7	18.2	11.9	10.9	-2.1
ENVASE CONSERVACION DE FRUTAS Y LEGUMBRE	2.6	4.2	4.5	5.5	5.8	6.0	6.2	6.5	5.2	4.9	7.3
FABRICA DE ACEITE Y GRASA VEGETAL	9.4	11.5	12.5	15.8	15.0	11.2	11.9	9.4	7.5	8.2	-1.51
PRODUCCION MOLINERIA	21.3	22.9	21.4	18.5	24.6	16.3	19.9	22.3	18.8	19.2	-1.15
FABRICACION Y REFINAMIENTO DE AZUCAR	23.0	25.3	28.7	27.4	33.5	26.2	25.4	21.8	18.4	22.5	-0.24
ELABORACION DE ALIMENTOS PARA ANIMALES	6.7	7.1	10.0	10.6	9.8	10.2	8.6	8.2	8.9	9.4	3.83
INDUSTRIA DEL TABACO	39.3	37.9	33.2	36.7	44.1	44.6	44.3	42.8	30.1	39.2	-0.03
INDUSTRIA DEL CUERO	5.0	5.2	4.7	5.4	4.2	4.2	3.8	3.3	2.2	2.0	9.68
INDUSTRIA DE LA MADERA	25.1	26.1	22.7	22.4	22.7	15.9	16.6	16.5	14.0	12.6	12.6
AGROINDUSTRIA	184.2	187.9	206.8	212.5	223.0	188.6	186.4	182.8	157.0	163.9	-1.29
INDUSTRIA MANUFACTURERA	577.1	637.4	593.3	685.2	686.2	624.8	641.0	656.9	539.9	497.6	-1.63
AGROINDUSTRIA/INDUSTRIA MANUFACTURERA	31.9	29.5	34.9	31.9	32.5	30.2	29.1	27.8	29.1	32.9	0.35

FUENTE: Direccion Informatica MEDE

USO ACTUAL Y POTENCIAL DEL SUELO

CATEGORIA	USO ACTUAL MILLONES MZS.	%	USO POTENCIAL MILLONES MZS.	%
Vocacion Agricola	0.85	5.06	4.00	23.80
Vocacion Pecuaria	6.00	35.70	3.00	17.90
Uso Forestal	9.95	59.24	9.80	58.30
Total	16.80	100.00	16.80	100.00

FUENTE: Estudio Agroecologico de Nicaragua, 1988  
Y ajustes IRENA/INETER/MAG de abril de 1990.

VOLUMEN DE PRODUCCION DE LOS PRINCIPALES CULTIVOS (1991/92-1996/97)  
(EN MILES DE QUINTALES)

RUBROS	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97
TOTAL NACIONAL	24,939.5	26,875.5	32,402.8	37,990.8	45,002.5	52,089.5
EXPORTACION	12,998.5	13,786.0	18,368.8	23,002.8	28,747.5	34,752.5
Cafe (oro)	948.0	974.0	1,056.3	1,279.3	1,666.5	2,122.5
Banano (cajas)	6,220.0	6,500.0	9,600.0	13,000.0	17,670.0	21,090.0
Cana de Azucar (T.C)	3,218.0	2,828.0	2,862.0	2,675.0	2,452.5	2,452.5
Tabaco (rama)	25.0	39.0	40.5	56.0	56.0	56.0
Algodon (rama)	2,100.0	2,700.0	3,700.0	4,560.0	5,130.0	5,700.0
Ajonjoli (nat)	240.0	315.0	400.0	450.0	550.0	2,109.0
Soya (qq)	125.0	250.0	450.0	600.0	750.0	750.0
Mani (qq)	122.5	180.0	260.0	382.5	472.5	472.5
GRANOS BASICOS	11,941.0	13,089.5	14,034.0	14,988.0	16,255.0	17,337.0
Arroz (qq)	2,100.0	2,280.0	2,450.0	2,550.0	2,710.0	2,928.0
Riego	1,240.0	1,330.0	1,480.0	1,560.0	1,680.0	1,848.0
Secano	860.0	950.0	970.0	990.0	1,030.0	1,080.0
Frijol (qq)	1,500.0	1,596.0	1,705.0	1,805.5	2,000.0	2,144.0
Maiz (qq)	6,400.0	6,846.0	7,260.0	7,820.0	8,400.0	8,750.0
Sorgo (qq)	1,941.0	2,367.5	2,619.0	2,812.5	3,145.0	3,515.0
Rojo	1,085.0	1,400.0	1,554.0	1,720.0	2,025.0	2,340.0
Blanco	396.0	455.0	540.0	555.0	570.0	600.0
Millon	460.0	512.5	525.0	537.5	550.0	575.0

AREA DE LOS PRINCIPALES CULTIVOS (1991/92-1996/97)  
(EN MILES DE MANZANAS)

RUBROS	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97
TOTAL NACIONAL	889.1	923.7	964.8	1023.8	1087.8	1122.6
EXPORTACION	277.1	292.7	319.8	362.8	406.8	433.6
Cafe	106.5	107.1	97.5	110.0	130.0	140.0
Banano	3.6	3.6	5.3	7.3	9.3	11.1
Cana de Azucar	67.5	56.0	54.0	50.0	45.0	45.0
Tabaco	1.0	1.5	1.5	2.0	2.0	2.0
Algodon	60.0	75.0	100.0	120.0	135.0	150.0
Ajonjoli	30.0	35.0	40.0	45.0	50.0	50.0
Soya	5.0	10.0	15.0	20.0	25.0	25.0
Mani	3.5	4.5	6.5	8.5	10.5	10.5
GRANOS BASICOS	612.0	631.0	645.0	661.0	681.0	689.0
Arroz	76.0	80.0	83.0	84.0	86.0	89.0
Riego	33.0	35.0	38.0	39.0	41.0	44.0
Secano	43.0	45.0	45.0	45.0	45.0	45.0
Frijol	150.0	152.0	155.0	157.0	160.0	160.0
Maiz	320.0	326.0	330.0	340.0	350.0	350.0
Sorgo	66.0	73.0	77.0	80.0	85.0	90.0
Rojo	31.0	35.0	37.0	40.0	45.0	50.0
Blanco	12.0	13.0	15.0	15.0	15.0	15.0
Millon	23.0	25.0	25.0	25.0	25.0	25.0

RENDIMIENTO DE LOS PRINCIPALES CULTIVOS (1991/92-1996/97)  
(QUINTALES/MANZANAS)

RUBROS	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97
TOTAL NACIONAL	1,999.0	2,093.6	2,116.3	2,091.1	2,218.6	2,227.6
EXPORTACION	1,912.4	2,001.2	2,019.1	1,991.9	2,113.5	2,116.7
Cafe (qq-oro)	8.9	9.1	10.8	11.6	12.0	15.2
Banano (cajas)	1,727.8	1,805.6	1,811.3	1,780.8	1,900.0	1,900.0
Canas de Azucar (T.C)	47.7	50.5	53.0	53.5	54.5	54.5
Tabaco (qq-rama)	25.0	26.0	27.0	28.0	28.0	28.0
Algodon (qq-rama)	35.0	36.0	37.0	38.0	38.0	38.0
Ajonjoli (qq-nat)	8.0	9.0	10.0	10.0	11.0	11.0
Soya (qq)	25.0	25.0	30.0	30.0	30.0	30.0
Mani (qq)	35.0	40.0	40.0	40.0	40.0	40.0
GRANOS BASICOS	86.6	92.4	97.2	99.2	105.1	110.9
Arroz (qq)	27.6	28.5	29.5	30.4	31.6	33.4
Riego	37.5	38.0	39.0	40.0	41.0	42.0
Secano	20.0	21.0	21.5	22.0	23.0	24.0
Frijol (qq)	10.0	10.5	11.0	10.5	12.5	13.4
Maiz (qq)	20.0	21.0	22.0	23.0	24.0	25.0
Sorgo (qq)	29.0	32.4	34.7	35.3	37.0	39.1
Rojo	35.0	40.0	42.0	43.0	45.0	46.8
Blanco	33.0	35.0	36.0	37.0	38.0	40.0
Millon	20.0	20.5	21.0	21.5	22.0	23.0

EXPORTACIONES (1992/93-1996/97)  
(EN MILES DE QUINTALES)

RUBROS	1992/93	1993/94	1994/95	1995/96	1996/97
Cafe a)	74.6	80.8	97.9	127.4	162.0
Cafe b)	78.7	97.0	134.8	181.1	234.5
Banano	33.9	54.7	74.1	100.0	120.0
Azucar	32.0	29.0	25.0	20.5	18.0
Algodon	63.0	87.6	109.0	121.5	136.3
Ajonjoli	11.8	15.0	16.9	20.6	20.6
Mani	5.0	7.2	10.7	12.6	12.6
Carne vacuna	57.2	59.4	61.6	63.3	66.0
No Tradicional	17.0	34.0	50.0	75.0	100.0
TOTAL a)	294.5	367.7	445.2	540.9	635.5
TOTAL b)	298.6	383.9	482.1	594.6	708.0

INDICADORES DE LA PRODUCCION PECUARIA  
(1992-1996)

RUBROS	U/M	1992	1993	1994	1995	1996
VACUNO						
PRODUCCION DE CARNE	MILL LBS	77.8	80.2	80.8	86.2	89.4
Exportacion		52.0	54.0	56.0	58.0	60.0
Consumo Interno		25.8	26.2	24.8	28.2	29.4
PRODUCCION DE LECHE	MILL GLS	45.7	49.5	49.8	53.3	57.3
AVICOLA						
Produccion de carne	MILL LBS	23.0	25.0	27.0	29.0	30.0
Produccion de huevos	MILL DOC.	21.6	24.0	26.0	28.0	30.0
PORCINO						
Produccion de carne	MILL LBS	17.5	19.2	21.8	23.0	24.0

INDICE DE PRODUCCION PER CAPITA (1992/93-1996/97)

PRODUCTOS	1992/93	1993/94	1994/95	1995/96	1996/97
(LIBRAS)					
<b>AGRICOLAS</b>					
Arroz	55.3	97.0	134.8	181.1	234.5
Frijol	38.7	54.7	74.1	100.0	120.0
Maiz	166.0	29.0	25.0	20.5	18.0
Azucar	53.4	87.6	109.0	121.5	136.3
<b>PECUARIO</b>					
<b>VACUNO</b>					
Carne	6.3	6.2	5.6	6.2	6.3
<b>AVICOLA</b>					
Carne	5.6	6.0	6.5	6.6	6.7
Huevos Doc.	5.3	5.7	6.0	6.4	6.7
<b>PORCINO</b>					
Carne	4.3	4.6	5.1	5.2	5.3

FUENTE: MAG, DIRECCION GENERAL DE PLANIFICACION

GENERACION DE EMPLEO  
(1991/92-1996/97)

RUBROS	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97
Cafe	180.5	184.7	200.1	232.1	245.0	295.0
Banano	4.2	4.2	6.2	8.5	10.9	13.0
Cana de Azucar	16.6	15.2	15.0	13.9	12.5	12.5
Tabaco						
Algodon	20.0	24.9	33.3	39.9	49.9	49.9
Ajonjoli	7.9	9.2	10.5	11.9	13.2	13.2
Soya	0.5	0.9	1.4	1.8	2.3	2.3
Mani	1.3	1.6	2.4	3.1	3.8	3.8
Arroz	18.0	19.0	20.0	20.0	20.0	21.0
Frijol	70.5	71.4	72.9	72.9	75.2	75.2
Maiz	67.2	68.5	69.3	71.4	73.5	73.5
Sorgo	14.0	15.6	15.7	15.9	16.1	17.0
Ganado Vacuno	100.0	101.0	102.2	103.3	104.3	105.7
Avicolas	2.1	3.8	3.1	3.3	3.6	3.8
Porcinos	0.4	0.7	0.8	0.8	0.8	0.8
<b>TOTAL</b>	<b>503.2</b>	<b>520.7</b>	<b>552.9</b>	<b>598.8</b>	<b>631.1</b>	<b>686.7</b>

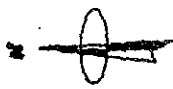
NOTA: Miles de personas

FUENTE: MAG, DIRECCION GENERAL DE PLANIFICACION

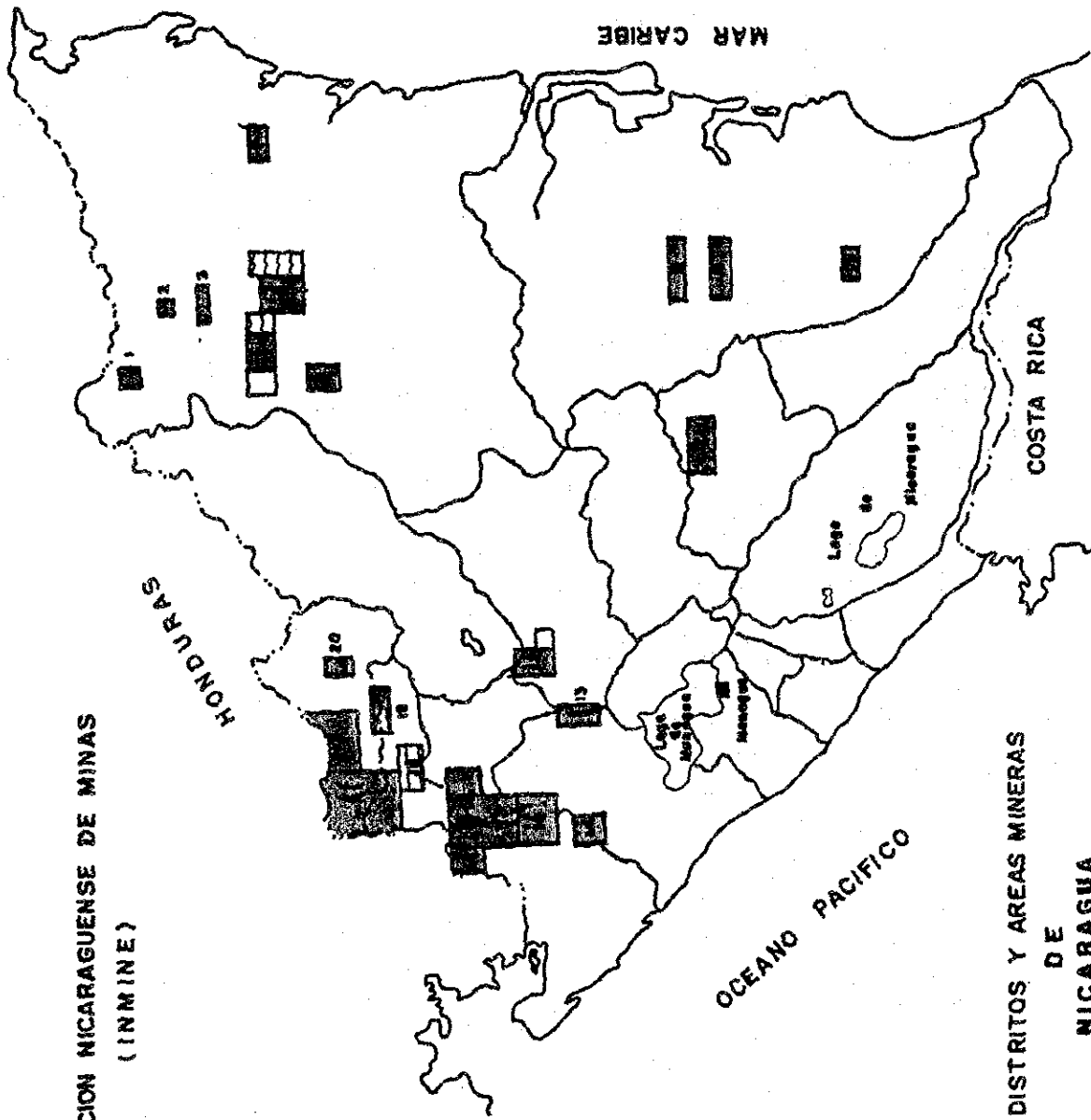




CORPORACION NICARAGUENSE DE MINAS  
(INMINE)



A8-52



- 1 AREA DE COCO MINA
- 2 DISTRITO MINERO DE SANTA ROSA
- 3 AREA DE RIO FRANCIA
- 4 DISTRITO MINERO ROSITA
- 5 DISTRITO MINERO BONANZA
- 6 DISTRITO MINERO SILANA
- 7 AREA COLUMBUS
- 8 DISTRITO MINERO QUISILALA
- 9 DISTRITO MINERO DE TOPACIO
- 10 AREA MINERA DEL SABALO
- 11 DISTRITO MINERO DE LA LIBERTAD
- 12 DISTRITO MINERO DE LA REYTA (Madriz)
- 13 DISTRITO MINERO DE LA INDIA (León)
- 14 DISTRITO MINERO EL LIMON (León)
- 15 DISTRITO MINERO RINCON DE GARCIA (CHINANDEGA)
- 16 DISTRITO MINERO DE ACHUAPA Sr. JUAN DE LIMAY-MINA LA GRECIA (Estelí)
- 17 DISTRITO MINERO DE CINCO PINOS
- 18 AREA DE PALACAGUINA (SB-Caj/Andrés)
- 19 DISTRITO MINERO DE TELPANECA (Madriz)
- 20 DISTRITO MINERO DE MURRA
- 21 DISTRITO MINERO DE MACUELIZO

- |  |        |    |
|--|--------|----|
|  | ORO    | Au |
|  | COBRE  | Cu |
|  | PLOMO  | Pb |
|  | ZINC   | Zn |
|  | HIENRO | Fe |



FIG.2 DISTRITOS Y AREAS MINERAS  
DE  
NICARAGUA

FUENTE : DARCE 1993  
DGG INMINE  
estrella

PLAN DE INVERSIONES 1991 – 1995 Y OTROS AÑOS

M E T A S

	U.M	1991	1992	1993-95	OTROS AÑOS	TOTAL
<b>CARRETERAS PAVIMENTADAS</b>						
<i>Rehabilitacion</i>	Kms	7	80	406	997	1,490
<i>Revestimiento</i>	Kms		258	516	2	776
<i>Construccion</i>	Kms	18	106	145	111	380
<b>TOTAL</b>	Kms	25	444	1,067	1,110	2,646
<b>CARRETERAS NO PAVIMENTADAS</b>						
<i>Rehabilitacion y Mejoramiento</i>	Kms		223	417		640
<b>PUENTES</b>	MI	343	1,093	2,186	2,248	5,870
<b>FERROCARRIL</b>						
<i>Via Ferrea</i>	Kms			136	50	186
<i>Puentes</i>	MI	261.94	166.67	275.27		703.88
<b>PUERTOS</b>						
<i>Construccion Espigon</i>	MI		414	86		500
<i>Dragado</i>	M3		391,304	2,098,696		2,490,000
<i>Construccion de Muelle</i>	MI	60	6	161		227
<i>Construccion Ferry</i>	unid			1		1
<i>Construccion Rompeolas</i>	MI			400		400
<b>AEROPUERTOS</b>						
<i>Rehabilitacion</i>	%	2	8	90		100
<b>VIVIENDA</b>						
<i>Viviendas terminadas</i>	Unid		12,000	19,500	6,500	38,000
<i>Banco de Materiales</i>	Unid			6,000	2,000	8,000
<i>Plan Techo Rural</i>	Unid			12,000	4,000	16,000
<i>Lotes Urbanos</i>	Unid			12,000	4,000	16,000
<b>EQUIPO</b>						
<i>Buses</i>	Unid	56	350	60		466
<i>Eq. de Mtto. de caminos</i>	Unid		29	41		70
<i>Estruct.p/Puentes de 30 MI</i>	Unid		5			5
<i>Equipo Portuario</i>	Unid		25	25		50
<i>Eq. Comunicacion Aerea</i>	Unid		3	3		6
<i>Buques</i>	Unid					0
<i>Embarcaciones</i>	Unid		25			25
<i>Eq. Ferroviario</i>	%			100		100

FUENTE: DIVISION GENERAL DE ECONOMIA Y PLANIFICACION. MCT

MINISTERIO DE CONSTRUCCION Y TRANSPORTE  
RESUMEN PLAN PRELIMINAR INVERSION, PREINVERSION, MAQ. Y EQUIPO  
(CIFRAS EN MILES US\$)

PROYECTO	MONTO TOTAL		1991		1992		1993	
	R.N	R.E	R.N	R.E	R.N	R.E	R.N	R.E
CARRETERAS Y PUENTES	259,187.10	387,357.44	3,714.42	1,388.00	69,571.10	23,782.76	66,829.54	32,824.00
FERROVIARIOS	8,446.44	36,621.93	3,143.24	0.00	2,000.00	0.00	1,985.20	6,233.67
PORTUARIOS	17,671.40	31,610.00	3,609.40	560.00	4,006.80	6,200.00	6,006.80	19,050.00
AEROPORTUARIOS	3,305.64	29,105.75	727.56	0.00	2,578.08	0.00	0.00	20,035.25
VIVIENDA	47,720.42	300,617.24	0.00	0.00	4,793.50	57,000.00	10,231.73	60,904.31
INETER	4,821.65	20,723.20	0.00	0.00	2,176.80	8,985.21	1,120.00	4,385.00
SUBTOTAL	341,152.65	806,035.56	11,194.62	1,948.00	85,126.28	95,967.97	86,173.27	143,432.23
PRE - INVERSION	23,371.85	22,046.66	3,471.99	905.60	7,992.72	3,154.40	4,450.07	6,005.66
MAQUINARIA Y EQUIPO	3,095.00	102,078.47	0.00	12,408.70	3,095.00	17,708.90	0.00	9,641.77
TOTAL	367,619.50	930,160.69	14,666.61	15,262.30	96,214.00	116,631.27	90,623.34	159,079.66

	1994		1995		OTROS AÑOS	
	R.N	R.E	R.N	R.E	R.N	R.E
	45,982.14	44,483.58	16,912.20	24,635.00	56,177.70	260,244.10
	1,318.00	9,407.68	0.00	12,603.68	0.00	8,376.90
	2,850.00	4,300.00	500.00	0.00	0.00	0.00
	0.00	8,535.25	0.00	535.25	0.00	0.00
	10,231.73	60,904.31	10,231.73	60,904.31	10,231.73	60,904.31
	809.00	3,634.10	382.93	1,858.88	332.92	1,859.87
	61,190.87	131,264.92	28,026.86	100,537.12	66,742.35	331,385.18
	3,064.09	5,953.00	4,392.98	6,028.00	0.00	0.00
	0.00	22,319.10	0.00	0.00	0.00	40,000.00
	64,254.96	159,537.02	32,419.84	106,565.12	66,742.35	371,385.18

FUENTE: DIVISION GENERAL DE ECONOMIA Y PLANIFICACION.MCT  
RN= RECURSOS NATURALES  
RE= RECURSOS EXTERNOS

MINISTERIO DE LA CONSTRUCCION Y TRANSPORTE  
 PLAN PRELIMINAR DE INVERSIONES  
 PROYECTOS CARRETERAS Y PUENTES 1981 - 1985  
 (Cifras en miles US\$)

PROYECTO	CANT.	U.M.	MONTO TOTAL		1991		1992		1993		1994		1995		OTROS AÑOS		F. DE FIX
			R.N.	R.E.	R.N.	R.E.	R.N.	R.E.	R.N.	R.E.	R.N.	R.E.	R.N.	R.E.	R.N.	R.E.	
<b>CARRETERAS</b>																	
Programa de Carreteras para la Integración de Centro America	1490	KMS	66,772.0	303,662.0	357.0	1,154.0	11,762.0	8,846.0	14,397.0	18,990.0	13,508.0	33,943.0	2,797.0	24,635.0	24,011.0	216,094.0	
<b>CORREDOR NATURAL</b>																	
Guasale-Chinandega	341	KMS	13,297.0	175,893.0	357.0	1,154.0	5,619.0	8,946.0	2,110.0	13,960.0	3,320.0	23,884.0	1,646.0	14,811.0	245.0	2,208.0	S.F.
Chirandega-León-Tzapá	75	KMS	1,980.0	17,820.0					890.0	8,910.0	990.0	8,910.0					S.F.
Las Piedrecitas-Nejapa	68	KMS	2,310.0	20,790.0							1,155.0	10,395.0	1,155.0	10,395.0			S.F.
Nejap-Las Conchitas-Nandaime	4	KMS	2,976.0	0.0			2,976.0										S.F.
Nandaime-Fruas	56	KMS	1,650.0	15,120.0					1,120.0	10,080.0	560.0	5,040.0					S.F.
Fruas - Penas Blancas	46	KMS	735.0	6,624.0									491.0	4,416.0	245.0	2,208.0	GEST. BOIE
Nejapa - Izapa	36	KMS	615.0	5,539.0							615.0	5,539.0					GEST. BOIE
<b>CORREDOR ALTERNATIVO B</b>																	
Las Manos-Yalaquira	483	KMS	3,000.0	10,000.0	357.0	1,154.0	2,643.0	8,646.0									
Yalaquira-Estell	44	KMS	743.0	6,686.0													
Sebaco-Sn. Benito	58	KMS	894.0	8,944.0													
Sn. Benito-Lovago	70	KMS	1,055.0	9,497.0													
Acoyapa-Sn. Carlos-Frontera	131	KMS	3,811.0	34,298.0													
<b>CONEXIONES</b>																	
Tiplota-Managua	135	KMS	4,725.0	42,525.0													
Managua - Masaya (ampliación)	22	KMS	550.0	4,950.0													
Nejap - La Paz C. - Las Piedrecitas	27	KMS	2,950.0	0.0													
Masaya - Granada	61	KMS	2,194.0	19,216.0					10,200.0		7,650.0		640.0	5,765.0	1,494.0	13,451.0	S.F.
Sn. Benito - Tipitapa	17	KMS	510.0	4,590.0													
Mesaya - El Guanacaste	21	KMS	357.0	3,213.0													
Telica - Sn. Isidro	11	KMS	166.0	1,492.0													
Lovago - La Cateada	23	KMS	809.0	7,277.0													
La Cateada - Nueva Guinea	97	KMS	810.0	7,290.0													
El Almendro - Nueva Guinea	55	KMS	1,452.0	13,068.0													
Nueva Guinea - Bluffields	72	KMS	2,080.0	18,716.0													
El Espino - Yalaquira	64	KMS	1,088.0	9,792.0													
	42	KMS	1,216.0	10,962.0													
	98	KMS	5,217.0				1,043.0		2,087.0								
	31	KMS	531.0	4,780.0													

MINISTERIO DE LA CONSTRUCCION Y TRANSPORTE  
 PLAN PRELIMINAR DE INVERSIONES  
 PROYECTOS CARRETERAS Y PUENTES 1991 - 1993  
 (Cifras en miles US\$)

PROYECTO	CANT.	U.M	MONTO TOTAL		1991		1992		1993		1994		1995		OTROS AÑOS	
			R.N	R.E	R.N	R.E	R.N	R.E	R.N	R.E	R.N	R.E	R.N	R.E		
REGION I	134	KMS	2,412.00		270.00		270.00		918.00		918.00		25,380.00		36.00	
Sebeco-Esteli (45)	45	KMS	610.00				270.00		270.00		270.00				36.00	
Ocojal-Mozzote (7)	2	KMS	36.00													
Las Manos-Yalaguina (44)	20	KMS	360.00								360.00					
El Espirito-Yalaguina (81)	31	KMS	558.00								288.00			270.00		
Yalaguina-Esteli (59)	36	KMS	648.00						648.00							
REGION II	128	KMS	2,304.00		956.00				956.00		350.00					
Chirandega-Corinto (21)	8	KMS	144.00						144.00							
Chirandega-Leon-Izapa (56)	20	KMS	360.00						360.00							
Chirandega-Leon-Izapa (46)	15	KMS	270.00						270.00							
Leon-Poneloya (20)	12	KMS	216.00		72.00				72.00							
Villa 15 de Julio-Guesajule (45)	45	KMS	610.00		610.00											
Sn. Gabriel-Pto. Sarafino (10)	3	KMS	54.00								54.00					
Tejica-Sn. Isidro (97)	25	KMS	450.00		113.00				113.00		224.00					
REGION III	86	KMS	1,548.00						969.00		546.00					
Managua-Masaya (27)		KMS	0.00													
Sn. Benito-Tipitapa (11)	11	KMS	198.00						198.00							
Izapa-La paz C. -Managua (61)	15	KMS	270.00						270.00							
Tipitapa-Managua (22)	22	KMS	396.00						396.00							
Las Conchitas-Masachapa (82)	15	KMS	270.00						135.00		135.00					
Tipitapa-Masaya (23)	23	KMS	414.00								414.00					
REGION IV	142	KMS	2,730.00		2,001.00				466.00		243.00					
Masaya-Catania-Guanacaste (27)	10	KMS	189.00		80.00				144.00		99.00					
Catania-La esquina (20)	8	KMS	144.00													
Granada-Nandaimé (21)	10	KMS	180.00		180.00											
Sn. Marcos-Jinotepe	3	KMS	54.00								54.00					
Rivas-Penas Blancas (35)	20	KMS	525.00		525.00											
Masaya-Granada (17)	17	KMS	306.00		306.00											
Dinamba-La Boq. -Casarés (29)	20	KMS	360.00		360.00											
La Virgen-Sn. Juan del sur (18)	5	KMS	90.00								90.00					
Nandaimé-Rivas (46)	15	KMS	270.00						270.00							
Rivas-Sn. Jorge (8)	4	KMS	72.00						72.00							
Nejap-Las Conchitas-Nandaimé (56)	30	KMS	540.00		540.00											
REGION V	209	KMS	3,762.00		1,338.00				1,338.00		725.00			960.00		
La Gataada-El Rama (72)	72	KMS	1,296.00		648.00				648.00							
Sn. Benito-Lovato (131)	80	KMS	1,440.00		860.00				860.00		360.00			360.00		
Lovato-Acoyapa (5)	2	KMS	36.00								36.00					
Lovato-La Gataada (55)	55	KMS	990.00		330.00				330.00							
REGION VI	77	KMS	1,404.00		216.00				360.00		468.00			960.00		
Sebeco-Metapalpe (29)	29	KMS	540.00		180.00				360.00							
Jinotepe-Valle de la cruz (4)	2	KMS	36.00		36.00						360.00			360.00		
	46	KMS	108.00								108.00					

fuente: RESUMEN PLAN QUINQUENAL 1991 - 1995 Y OTROS AÑOS (MCT)

## ROADS AND BRIDGES INVESTMENT PLAN 1992

No.*	PROJECT	LENGTH	ESTIMATE COST (Thousand dollars)
1	Tuma Bridge	Lump sum	590
2	Los Cabros Bridge	Lump sum	258
3	Tepenaguazapa Bridge	75 m	562
4	Detour at Paso Caballo	2.8 km	150
5	Paving.Ticuantepe--La Concha	13.6 km	2,500
6	Paving.San Francisco--Camoapa	21.5 km	2,853
7	Repaving	94.80 km	4,170
10	Desing and Rehabilitation of paved roads	70 km	2,690
11	Studies and desing (REMECAR)	80 km	532
12	Reconstruction.Matagalpa--Jinotega	34 km	3,750
13	Rehabilitation and Improvement of Rural roads (REMECAR)	Lump sum	9,290
14	Reconstruction.Nejapa--Izapa	30 km	6,500
15	La Esperanza Bridge	50 km	1,000
16	Bridges.Nejapa--Izapa	90 km	1,050
17	La Leona Bridge	Lump sum	200
19	Permanent bridge at Guasaule	Lump sum	550
	Total		36,645

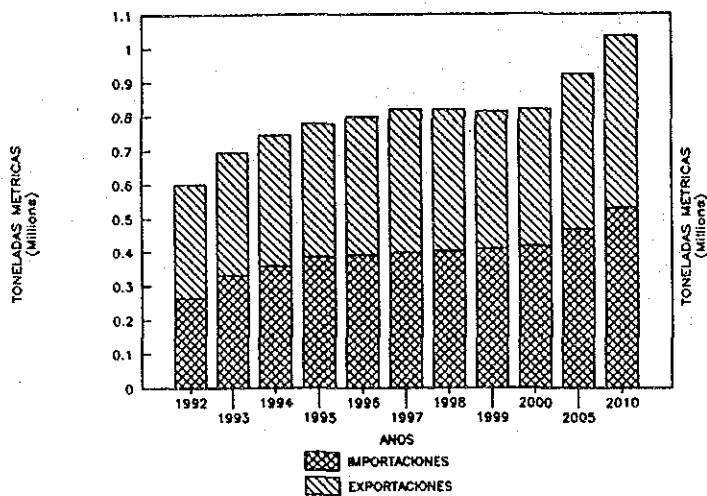
\*NOTE: Excluded numbers are for port works at Corinto.

TOTAL DE EXPORTACIONES E IMPORTACIONES POR EL PUERTO DE CORINTO,  
1992-2010 (TONELADAS METRICAS)

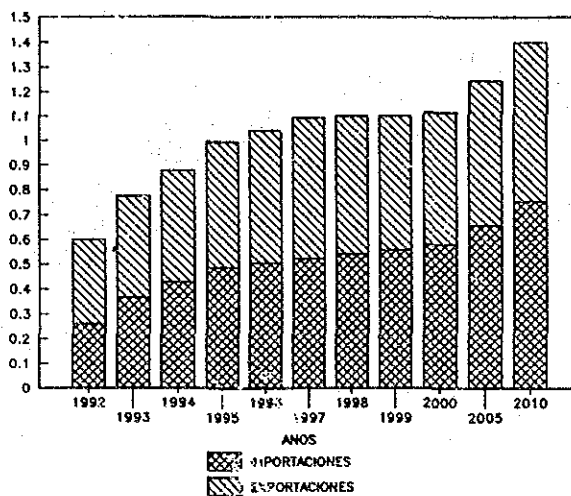
DIRECCION/ANO	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
			PROYECCION BAJA PONDERADA								
EXPORTACIONES	336,550	362,143	385,783	392,755	407,013	422,625	414,210	402,064	400,718	453,899	505,425
IMPORTACIONES	262,117	330,212	357,461	385,171	391,126	397,611	404,170	411,373	419,193	489,940	531,054
TOTAL	598,667	692,355	743,244	777,926	798,139	820,236	818,380	813,437	819,911	922,839	1,036,479
			PROYECCION MEDIA								
EXPORTACIONES	336,550	408,419	450,934	505,157	536,907	571,986	559,656	540,542	535,378	588,148	644,232
IMPORTACIONES	262,117	367,732	427,231	487,651	504,660	522,530	540,649	560,055	580,695	657,032	755,950
TOTAL	598,667	776,150	878,165	992,808	1,041,467	1,094,516	1,100,307	1,100,597	1,116,073	1,245,780	1,400,182
			PROYECCION ALTA PONDERADA								
EXPORTACIONES	336,550	422,789	490,029	579,442	629,379	684,138	697,313	705,994	725,208	828,638	939,784
IMPORTACIONES	262,117	394,636	463,006	540,627	589,827	600,999	633,919	670,016	709,557	840,589	1,011,632
CARGAS EN TRANSITO				28,600	31,848	34,846	36,332	42,166	46,382	74,699	120,303
TOTAL	598,667	817,424	953,035	1,148,669	1,231,054	1,319,985	1,369,564	1,418,176	1,481,147	1,743,926	2,071,719

FUENTE: ENAP.

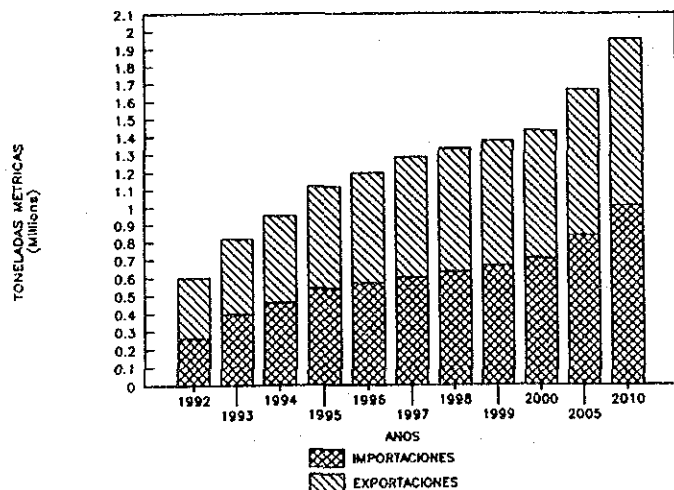
TOTAL EXPORTACIONES/IMPORTACIONES  
DE CORINTO. PROYECCION BAJA PONDERADA



TOTAL EXPORTACIONES/IMPORTACIONES  
DE CORINTO. PROYECCION MEDIA PONDERADA



TOTAL EXPORTACIONES/IMPORTACIONES  
DE CORINTO. PROYECCION ALTA PONDERADA



## Anexo 8-10 Proyección de Productos Agrícolas

Año	Café		Algodón		Azúcar		Banano		Arroz		Maíz		Sorgo		Frijoles	
	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)
1993	974	974	2,700	2,700	2,828	2,828	3,840	3,840	2,280	2,280	6,846	6,846	2,365	2,365	1,596	1,596
1994	1,056	998	3,700	2,768	2,804	2,832	4,033	3,846	2,316	2,337	6,946	6,856	2,421	2,369	1,624	1,598
1995	1,279	1,023	4,560	2,837	2,781	2,836	4,235	3,851	2,352	2,395	7,047	6,866	2,478	2,372	1,652	1,601
1996	1,667	1,049	5,130	2,908	2,758	2,840	4,447	3,857	2,389	2,455	7,149	6,876	2,537	2,376	1,681	1,603
1997	2,123	1,075	5,700	2,980	2,735	2,844	4,670	3,862	2,427	2,517	7,253	6,886	2,597	2,379	1,711	1,605
1998	1,226	1,102	3,364	3,055	2,712	2,849	4,905	3,868	2,465	2,580	7,358	6,896	2,658	2,382	1,741	1,608
1999	1,284	1,130	3,515	3,131	2,689	2,853	5,151	3,874	2,504	2,644	7,465	6,906	2,721	2,386	1,771	1,610
2000	1,344	1,158	3,673	3,209	2,667	2,857	5,409	3,879	2,543	2,710	7,574	6,916	2,786	2,389	1,802	1,612
2001	1,407	1,187	3,838	3,290	2,645	2,861	5,680	3,885	2,583	2,778	7,684	6,926	2,851	2,393	1,834	1,615
2002	1,474	1,216	4,010	3,372	2,623	2,865	5,965	3,891	2,624	2,847	7,796	6,936	2,919	2,396	1,866	1,617
2003	1,543	1,247	4,190	3,456	2,601	2,869	6,265	3,896	2,665	2,919	7,909	6,946	2,988	2,400	1,899	1,619
2004	1,615	1,278	4,379	3,543	2,579	2,874	6,579	3,902	2,707	2,992	8,024	6,956	3,059	2,403	1,932	1,622
2005	1,691	1,310	4,575	3,631	2,557	2,878	6,909	3,908	2,749	3,066	8,141	6,966	3,131	2,407	1,966	1,624
2006	1,771	1,343	4,781	3,722	2,536	2,882	7,256	3,913	2,793	3,143	8,259	6,976	3,205	2,410	2,000	1,626
2007	1,854	1,376	4,996	3,815	2,515	2,886	7,619	3,919	2,837	3,222	8,379	6,987	3,281	2,414	2,035	1,629
2008	1,941	1,411	5,220	3,910	2,494	2,890	8,002	3,925	2,881	3,302	8,501	6,997	3,358	2,417	2,071	1,631
2009	2,032	1,446	5,455	4,008	2,473	2,894	8,403	3,930	2,927	3,385	8,625	7,007	3,438	2,421	2,107	1,634
2010	2,128	1,482	5,700	4,108	2,453	2,899	8,825	3,936	2,973	3,469	8,750	7,017	3,519	2,424	2,144	1,636

Unidades: 1000 qq

Notas : (a) Proyección con la Política de Desarrollo  
 (b) Proyección con la Tasa de Crecimiento del PIB



Anexos 9-1 Tabla OD futura - 2000 -

YEAR=2000

TYPE OF VEHICLE VEHICULOS LIVIANOS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	TOT			
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7		
2	0	0	6	9	1	0	0	41	4	32	320	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	552	
3	0	14	0	0	0	0	0	1	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36		
4	0	25	0	0	0	0	0	42	25	237	681	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1013	
5	0	0	0	0	0	14	0	0	0	0	81	6	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	103	
6	0	0	0	0	12	0	0	0	0	7	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129		
7	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18		
8	0	61	0	50	0	3	0	0	0	0	1237	6	0	1	0	0	0	0	0	0	0	7	0	0	0	4	0	0	0	0	4	1	0	1374			
9	0	9	0	25	0	0	0	0	0	0	296	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	332		
10	0	33	0	269	1	4	0	0	0	0	2108	21	1	4	1	0	10	0	12	4	0	9	0	3	0	0	0	0	0	0	0	3	0	0	5	2488	
11	15	362	26	426	79	112	43	1008	229	2819	0	335	14	70	1	0	279	7	141	15	65	425	54	17	31	0	2	0	0	0	271	39	28	6707			
12	0	0	0	3	0	0	0	1	3	56	261	0	1	0	0	0	0	0	0	1	1	4	0	1	0	0	0	0	0	0	0	0	0	0	0	332	
13	0	0	0	0	0	0	0	0	0	1	20	0	0	6	0	0	1	0	23	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	
14	0	0	0	0	0	0	0	0	1	0	54	0	1	0	0	0	1	0	12	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	80	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	1	0	1	0	0	0	0	0	6	261	1	3	1	0	0	0	18	4	0	28	233	14	0	0	0	0	0	0	0	0	0	0	0	0	591	
18	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	10	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	15		
19	0	0	0	0	3	0	0	0	0	0	162	1	29	21	0	0	7	0	0	1	0	0	0	20	26	0	0	0	0	0	0	1	0	0	271		
20	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10		
21	0	3	0	0	0	0	0	0	0	0	77	0	0	0	0	0	10	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	118		
22	0	15	0	1	0	0	0	0	0	6	478	1	3	1	0	0	245	1	9	0	12	0	135	11	0	0	0	0	0	0	0	0	0	0	0	928	
23	0	7	0	0	0	0	0	0	0	0	72	0	0	3	0	0	6	0	0	0	11	115	0	0	0	0	0	0	0	0	0	0	0	0	16	233	
24	0	0	0	0	0	0	0	0	0	0	21	0	0	0	7	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	140		
25	0	0	0	0	1	0	0	0	0	0	32	0	0	0	0	0	29	0	0	0	1	0	44	0	0	0	0	0	0	0	0	0	0	0	107		
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	0	0	0	0	0	0	0	1	3	0	323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	327	
32	0	0	0	0	0	0	0	0	0	0	39	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	59
33	0	70	0	9	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	14	0	167		
TOT	15	600	26	793	97	133	43	1103	265	2965	6779	373	52	118	2	1	570	26	296	22	117	837	207	95	110	0	2	0	0	281	64	195	16187				



\*\*\* TABLA DE ORIGEN Y DESTINO \*\*\*

YEAR=2000

TYPE OF VEHICLE AUTO BUS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	TOT	
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2	0	0	0	0	0	0	0	1	0	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	5	29	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
5	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
6	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
7	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	
8	0	1	0	3	0	0	0	0	0	0	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127	
9	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	
10	0	0	0	29	0	0	0	0	0	0	161	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197	
11	8	57	0	115	11	26	32	53	150	302	0	17	11	67	0	0	98	0	38	10	29	109	5	8	8	0	0	0	0	0	49	16	8	1227	
12	0	0	0	0	0	0	0	0	0	7	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	
13	0	0	0	0	0	0	0	0	0	0	3	0	0	2	0	0	18	0	2	0	0	5	0	0	0	0	0	0	0	0	0	0	0	30	
14	0	0	0	0	0	0	0	0	0	0	50	0	2	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	
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17	0	0	0	0	0	0	0	0	0	0	61	0	22	0	0	0	0	2	0	0	0	2	48	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	
19	0	0	0	0	0	0	0	0	0	0	29	0	0	4	0	0	1	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	4	
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22	0	0	0	0	0	0	0	0	0	0	95	0	1	0	0	0	47	0	0	0	1	0	22	0	0	0	0	0	0	0	0	0	4	170	
23	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	51	
24	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	18	
25	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	5	0	0	0	0	0	3	0	0	0	0	0	0	0	0	18	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4	
33	0	4	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	15
TOT	8	62	0	147	11	26	32	54	155	338	907	24	36	73	0	0	172	2	56	10	32	215	27	14	13	0	0	0	0	0	49	22	8	2493	

\*\*\* TABLA DE ORIGEN Y DESTINO \*\*\*

YEAR=2000

TYPE OF VEHICLE CANTONERA

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	TOT	
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2	0	0	3	25	0	0	0	25	5	5	218	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	38	321
3	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
4	1	9	0	0	0	0	0	15	44	221	587	4	0	7	0	0	0	0	2	0	0	4	1	0	0	0	0	0	0	0	1	0	0	896	
5	1	0	0	2	0	23	0	0	0	11	118	4	9	2	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	172	
6	0	0	0	0	32	0	1	0	0	5	146	1	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192	
7	0	0	0	0	0	0	0	0	0	4	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	
8	0	35	0	59	0	1	0	0	0	0	558	0	0	0	0	0	1	0	0	0	0	3	0	1	1	0	0	0	0	0	12	0	0	671	
9	2	18	0	92	0	0	0	0	0	0	166	0	0	7	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	286	
10	0	31	0	393	11	11	0	0	28	0	1447	47	7	24	0	0	3	0	8	0	6	6	0	0	0	0	0	0	0	0	0	0	0	2022	
11	23	288	15	671	132	152	62	377	116	1183	0	117	76	241	0	0	395	5	94	78	85	329	18	18	34	0	0	0	0	0	244	6	0	4959	
12	0	0	0	0	8	2	1	0	4	0	44	146	0	4	12	0	0	5	0	4	2	0	1	0	0	0	0	0	0	0	0	0	0	233	
13	0	0	0	1	2	0	0	0	6	7	47	0	0	147	0	0	7	0	12	6	0	4	0	0	0	0	0	0	0	0	0	0	0	239	
14	0	2	0	1	0	0	1	0	0	14	306	2	128	0	0	0	0	9	1	35	0	0	6	0	0	0	0	0	0	0	0	0	0	505	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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17	0	4	0	1	1	0	0	0	1	5	234	1	9	16	0	0	0	0	18	9	5	18	243	35	0	0	0	0	0	0	0	0	1	1	604
18	0	0	0	0	0	0	0	0	0	0	5	0	1	4	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
19	1	0	0	0	2	0	0	0	0	4	97	4	22	55	0	0	0	4	0	0	21	0	3	0	20	68	0	0	0	0	0	0	0	0	301
20	0	0	0	0	0	0	0	0	0	0	70	0	0	17	0	0	4	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	186
21	0	0	0	0	0	0	0	1	0	0	28	0	0	0	0	0	14	0	0	0	0	25	0	1	0	0	0	0	0	0	1	0	0	71	
22	0	3	0	0	0	0	0	0	0	3	305	0	7	1	0	0	208	3	1	0	13	0	91	5	0	0	0	0	0	0	0	0	1	0	641
23	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	3	0	0	3	110	0	0	0	0	0	0	0	0	0	0	0	1	135
24	0	0	0	0	0	0	0	0	0	0	17	4	0	0	0	0	0	0	38	0	0	0	0	0	81	0	0	0	0	0	0	0	0	0	140
25	0	0	0	0	0	0	0	0	0	2	56	0	4	0	0	0	0	0	81	0	0	0	0	106	0	0	0	0	0	0	0	0	0	0	249
26	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
27	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
28	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
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30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	1	0	0	0	4	0	0	186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	201
32	0	0	0	1	0	0	0	0	0	0	26	0	0	5	0	0	0	0	0	0	0	11	0	1	0	0	0	0	0	0	0	0	0	0	44
33	0	11	0	1	1	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	25
TOT	28	402	18	1258	183	188	64	428	200	1511	4899	184	272	541	0	0	673	27	300	113	126	749	145	153	184	0	0	0	0	0	0	258	8	4012952	

\*\*\* TABLA DE ORIGEN Y DESTINO \*\*\*

YEAR=2000

TYPE OF VEHICLE CANTON

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	TOT			
1	0	0	0	1	0	0	0	1	0	1	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31			
2	0	0	1	5	0	0	0	19	0	6	171	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	23	228		
3	0	3	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13		
4	0	5	0	0	1	0	0	27	4	107	194	2	1	4	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	6	356		
5	0	9	1	2	0	13	0	1	0	6	93	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	9	144				
6	0	12	0	9	9	0	0	0	0	0	151	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182			
7	0	0	0	5	1	0	0	0	0	4	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141			
8	1	30	0	32	4	0	4	0	0	0	218	2	0	0	0	0	0	0	0	2	0	7	0	0	0	0	0	0	0	33	0	0	333				
9	1	4	0	23	0	0	0	0	0	0	132	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155			
10	1	30	0	95	2	4	0	14	15	0	316	26	0	15	3	0	3	0	22	0	2	2	0	4	0	0	0	0	0	0	0	0	0	585			
11	15	196	9	249	73	57	82	182	99	515	0	112	49	116	5	3	170	1	89	52	25	90	6	15	33	0	1	0	1	9	247	48	12	2542			
12	0	0	0	4	1	2	0	19	0	6	73	0	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	115		
13	0	0	0	0	0	1	0	0	4	4	52	0	0	27	1	0	1	0	12	4	0	1	0	0	2	0	0	0	0	0	0	0	0	0	109		
14	0	0	0	11	0	0	0	0	0	4	133	6	28	0	0	0	1	0	12	4	2	4	0	0	0	0	0	0	0	1	0	0	0	205			
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16	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
17	0	0	0	0	0	0	0	6	1	1	124	0	11	2	0	0	0	12	4	0	1	51	0	0	1	0	0	0	0	1	3	0	0	218			
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19	0	0	0	1	0	0	0	0	2	5	70	1	5	17	0	0	1	0	0	2	0	1	0	29	66	0	0	0	0	0	1	0	0	0	201		
20	0	0	0	1	0	0	0	0	10	4	43	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100			
21	0	4	0	1	0	0	0	0	0	0	25	0	0	2	0	0	4	0	0	0	0	3	0	0	5	0	0	0	0	0	0	0	0	0	44		
22	0	0	0	1	0	0	0	2	0	4	120	1	1	1	0	0	18	1	1	0	24	0	12	0	0	0	0	0	0	0	0	4	0	190			
23	0	1	0	0	0	0	0	0	0	0	33	0	0	1	0	0	1	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	49		
24	0	0	0	1	0	0	0	0	0	0	18	1	0	2	0	0	0	0	48	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	98		
25	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	29	0	3	0	0	27	0	0	0	0	0	0	0	0	0	0	103		
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29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
30	0	0	0	1	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
31	0	0	0	1	0	0	0	2	0	0	48	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	
32	0	0	0	1	0	0	0	2	0	0	69	0	0	1	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	15	92
33	0	14	0	0	0	0	0	0	0	0	21	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	
TOT	16	309	11	445	91	87	86	275	135	557	2374	156	97	219	10	4	207	14	223	64	57	179	22	75	137	0	1	0	1	0	295	56	67	6382			

\*\*\* TABLA DE ORIGEN Y DESTINO \*\*\*

YEAR=2000

TYPE OF VEHICLE SEMI-REMOLQUE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	TOT		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	11	131	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	144	
5	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
6	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
7	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	
8	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	
9	0	0	0	19	0	0	0	0	0	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	
10	0	0	0	0	0	0	0	0	0	117	0	1	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	138	
11	0	34	0	122	7	24	15	34	89	98	0	5	0	7	0	0	35	5	27	5	73	233	15	5	16	0	0	0	0	5	142	319	94	1400		
12	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
13	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
14	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	23	
19	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
20	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	19	
21	0	0	0	6	0	0	0	0	4	5	85	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	104	
22	0	0	0	1	0	0	0	0	0	0	200	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	0	210	
23	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
24	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	13	
25	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	
32	0	0	0	1	0	0	0	0	2	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	238
33	0	0	0	0	0	0	0	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	135
TOT	0	34	0	149	7	24	16	34	95	116	1170	5	1	7	0	0	37	5	33	5	81	231	15	6	16	0	0	0	5	143	335	97	2667			

\*\*\* TABLA DE ORIGEN Y DESTINO \*\*\*

YEAR=2000

TYPE OF VEHICLE OTROS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	TOT	
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3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
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6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	40
11	0	0	0	0	2	0	2	0	0	0	0	3	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
12	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
TOT	0	11	0	8	2	0	2	2	0	137	31	4	0	0	0	0	27	4	1	0	0	40	0	0	0	0	0	0	0	0	0	2	0	271	

\*\*\* TABLA DE ORIGEN Y DESTINO \*\*\*

YEAR=2000

TYPE OF VEHICLE TOTAL

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	TOT			
1	0	0	0	1	0	0	0	1	0	3	58	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74			
2	0	0	10	40	1	0	0	86	9	44	786	1	0	0	0	0	1	0	2	0	1	2	0	0	0	0	0	0	0	0	0	0	188	1181			
3	0	18	0	0	0	0	0	1	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54			
4	1	40	0	0	1	0	0	94	78	691	1814	7	1	12	0	2	0	0	3	0	2	4	1	0	0	0	0	0	0	0	0	0	0	6	2760		
5	1	9	1	4	0	51	0	1	0	17	312	15	10	3	0	0	0	0	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	9	452		
6	0	12	0	9	67	0	1	0	0	12	442	2	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	593		
7	0	0	0	5	1	0	0	0	0	8	264	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	278		
8	1	129	0	169	4	4	0	0	0	0	2250	14	2	1	0	0	1	0	0	2	0	17	0	1	5	0	0	0	0	0	0	0	0	0	2854		
9	3	31	0	166	0	0	0	0	0	0	712	0	0	14	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	928			
10	1	94	0	825	14	22	0	14	43	0	4259	128	9	46	4	0	16	0	44	4	13	57	0	7	0	0	0	0	0	0	0	0	0	5	5613		
11	63	957	44	1630	307	401	242	1815	586	4845	0	631	151	503	6	3	1064	18	372	161	288	1198	105	64	127	0	3	0	1	5	998	432	1431	7263			
12	0	0	0	17	3	5	0	24	3	113	576	0	5	20	0	0	5	0	4	2	1	4	8	0	1	0	0	0	0	0	0	0	0	0	791		
13	0	0	0	1	5	1	0	0	10	12	136	0	0	200	1	0	28	0	57	11	0	10	0	0	2	0	0	0	0	0	0	0	0	0	464		
14	0	2	0	12	0	0	1	0	1	21	568	8	172	0	0	0	13	1	81	4	2	12	0	0	0	0	0	0	0	0	0	0	0	0	599		
15	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6		
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
17	0	5	0	2	1	0	0	0	6	2	93	810	2	49	21	0	0	52	18	6	53	630	49	0	1	0	0	0	0	0	1	5	1	1807			
18	0	0	0	0	0	0	0	0	0	0	19	0	1	4	1	0	39	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	77		
19	2	0	0	1	7	0	0	0	2	9	381	6	58	105	0	0	13	0	0	34	0	5	0	73	169	0	0	0	0	0	1	16	1	0	867		
20	0	0	0	1	0	0	0	0	10	5	128	0	0	35	0	0	4	0	37	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	223		
21	0	7	0	7	0	0	0	1	4	5	285	0	0	2	0	0	32	0	0	0	0	61	0	1	5	0	0	0	0	0	1	0	0	0	351		
22	0	18	0	3	0	0	0	2	0	13	1257	2	13	3	0	0	564	5	11	0	52	0	260	16	0	0	0	0	0	0	0	0	0	0	0	2244	
23	0	8	0	0	0	0	0	0	0	0	136	0	0	4	0	0	10	4	0	0	14	320	0	0	0	0	0	0	0	0	0	0	0	0	17	516	
24	0	0	0	1	2	0	0	0	0	0	72	5	0	9	0	0	0	180	0	0	2	0	0	0	0	157	0	0	0	0	0	1	0	0	429		
25	0	0	0	0	1	0	0	0	0	2	150	0	4	0	0	0	0	149	0	3	1	0	285	0	0	0	0	0	0	0	0	0	0	0	2	517	
26	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
27	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
28	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
30	0	0	0	1	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
31	0	0	0	2	0	0	0	8	3	0	686	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	700	
32	0	0	0	3	0	0	0	2	2	2	364	0	0	8	0	0	0	0	2	0	0	25	0	1	0	0	0	0	0	0	0	0	0	0	0	28	437
33	0	112	0	10	1	0	0	9	0	0	233	0	0	0	0	0	2	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	398	
TOT	72	1462	55	2811	415	494	248	2066	853	5695	16596	821	481	994	12	5	1794	80	964	225	429	2364	423	369	470	0	3	0	1	5	1071	491	4094	2558			



Anexos 9-2 Tabla OD futura - 2010 -

YEAR=2010

TYPE OF VEHICLE VEHICULOS LIVIANOS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	TOT			
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12			
2	0	0	11	16	2	0	0	72	8	55	549	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	213	932		
3	0	24	0	0	0	0	0	2	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62			
4	0	43	0	0	0	0	0	71	42	400	1144	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1796			
5	0	0	0	0	0	23	0	0	0	0	136	10	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	173			
6	0	0	0	0	21	0	0	0	0	0	13	186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220			
7	0	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31			
8	0	105	0	84	0	5	0	0	0	0	2077	10	0	2	0	0	0	0	0	0	0	13	0	0	7	0	0	0	0	0	7	2	0	2312			
9	0	16	0	42	0	0	0	0	0	0	497	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	559			
10	0	56	0	453	2	7	0	0	0	0	3539	36	2	7	2	0	18	0	21	7	0	15	0	5	0	0	0	0	0	0	5	0	0	84182			
11	25	614	34	716	134	189	73	1694	384	4357	0	562	21	117	2	0	469	12	238	26	109	714	91	28	52	0	4	0	0	0	455	62	4411268				
12	0	0	0	5	0	0	0	2	5	94	437	0	2	0	0	0	0	0	0	0	2	2	7	0	2	0	0	0	0	0	0	0	0	558			
13	0	0	0	0	0	0	0	0	0	2	33	0	0	10	0	0	2	0	39	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88		
14	0	0	0	0	0	0	0	0	2	0	107	0	2	0	0	0	0	0	21	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	136		
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
17	0	2	0	2	0	0	0	0	0	10	473	2	5	2	0	0	0	0	31	7	0	47	392	23	0	0	0	0	0	0	0	0	0	0	995		
18	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	18	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	27		
19	0	0	0	0	5	0	0	0	0	0	273	2	50	37	0	0	13	0	0	2	0	0	0	34	45	0	0	0	0	0	0	0	0	0	463		
20	0	0	0	0	0	0	0	0	0	0	2	15	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	19		
21	0	5	0	0	0	0	0	0	0	0	130	0	0	0	0	0	18	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	200		
22	0	26	0	2	0	0	0	0	0	10	803	2	5	2	0	0	412	2	15	0	21	0	228	18	0	0	0	0	0	0	0	0	13	0	1559		
23	0	13	0	0	0	0	0	0	0	0	121	0	0	5	0	0	10	0	0	0	18	194	0	0	0	0	0	0	0	0	5	0	25	391			
24	0	0	0	0	0	0	0	0	0	0	36	0	0	13	0	0	0	0	108	0	0	0	0	0	79	0	0	0	0	0	0	0	0	238			
25	0	0	0	0	0	2	0	0	0	0	55	0	0	0	0	0	0	0	50	0	0	2	0	74	0	0	0	0	0	0	0	0	0	0	183		
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
31	0	0	0	0	0	0	0	2	5	0	542	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	549	
32	0	0	0	0	0	0	0	0	0	0	61	0	0	4	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	14	92	
33	0	110	0	15	0	0	0	15	0	0	94	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	20	0	260
TOT	25	1014	45	1335	166	224	73	1858	446	4931	1399	628	89	203	4	2	964	45	503	39	197	1409	319	159	197	0	4	0	0	0	472	101	3042	217			





\*\*\* TABLA DE ORIGEN Y DESTINO \*\*\*

YEAR=2010

TYPE OF VEHICLE CARION

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	TOT	
1	0	0	0	2	0	0	0	2	0	2	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
2	0	0	2	9	0	0	0	31	0	11	252	0	0	0	0	0	0	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	35	346
3	0	6	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	
4	0	11	0	0	2	0	0	41	6	171	269	4	2	6	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	9	529	
5	0	15	2	4	0	22	0	2	0	11	133	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	14	221	
6	0	20	0	15	15	0	0	0	0	0	213	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	365	
7	0	0	0	8	2	0	0	0	0	6	185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	201	
8	2	48	0	50	6	0	6	0	0	0	297	4	0	0	0	0	0	0	0	4	0	11	0	0	0	0	0	0	0	0	0	0	0	480	
9	2	6	0	37	0	0	0	0	0	0	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	242	
10	2	48	0	150	4	6	0	21	24	0	475	40	0	23	6	0	5	0	34	0	4	4	0	6	0	0	0	0	0	0	0	0	0	852	
11	21	290	14	361	103	98	121	256	144	752	0	151	72	168	7	3	263	2	100	77	38	135	9	22	48	0	1	0	1	0	352	55	16	3710	
12	0	0	0	6	2	4	0	29	0	10	99	0	0	8	0	0	0	0	0	0	4	7	0	0	0	0	0	0	0	0	0	0	0	169	
13	0	0	0	0	0	2	0	0	6	6	71	0	0	41	2	0	2	0	19	6	0	2	0	0	4	0	0	0	0	0	0	0	0	161	
14	0	0	0	17	0	0	0	0	0	6	184	10	44	0	0	0	0	2	0	19	6	4	7	0	0	0	0	0	0	0	2	0	0	301	
15	0	0	0	0	0	0	0	0	0	0	7	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
16	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
17	0	0	0	0	0	0	0	0	2	2	183	0	19	4	0	0	0	18	7	0	2	90	0	0	2	0	0	0	0	0	0	0	0	0	346
18	0	0	0	0	0	0	0	0	0	0	9	0	0	0	2	0	8	0	0	0	0	2	0	0	0	0	0	0	0	0	12	0	0	33	
19	0	0	0	2	0	0	0	0	4	8	93	2	8	26	0	0	2	0	0	0	4	0	2	0	45	102	0	0	0	0	0	0	0	0	300
20	0	0	0	2	0	0	0	0	15	6	58	0	0	28	0	0	0	0	35	0	0	0	0	0	4	0	0	0	0	0	0	0	0	148	
21	0	7	0	2	0	0	0	0	0	0	36	0	0	4	0	0	8	0	0	0	0	5	0	0	9	0	0	0	0	0	0	0	0	71	
22	0	0	0	2	0	0	0	4	0	7	178	2	2	2	0	0	31	2	2	0	41	0	21	0	0	0	0	0	0	0	0	7	0	302	
23	0	2	0	0	0	0	0	0	0	0	50	0	0	2	0	0	2	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	80	
24	0	0	0	2	0	0	0	0	0	0	25	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	
25	0	0	0	0	0	0	0	0	0	0	58	0	0	0	0	0	0	0	45	0	4	0	0	43	0	0	0	0	0	0	0	0	0	3	154
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	14	6	0	0	20	6	6	384	6	0	6	0	1	9	4	8	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
32	0	0	0	1	0	0	0	3	0	0	90	0	0	1	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	472
33	0	21	0	0	0	0	0	0	0	0	26	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	122
TOT	27	474	18	584	140	132	127	418	207	1094	3623	239	151	337	17	6	338	25	349	97	93	295	37	116	212	0	1	0	1	0	442	79	98	9788	



\*\*\* TABLA DE ORIGEN Y DESTINO \*\*\*

YEAR-2010

TYPE OF VEHICLE OTROS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	TOT		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	0	
5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
6	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	3	0	3	2	0	0	0	3	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	
12	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	19	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0
TOT	0	19	0	13	3	0	3	3	0	212	45	6	6	0	0	0	42	6	2	0	0	62	0	0	0	0	0	0	0	0	0	0	3	0	419	0



## **Anexo 10-1 Complemento de Condición de Servicio**

### **a. Período de Análisis**

La duración de tiempo escogida para la consideración y estudio del aumento de los beneficios y costos en el análisis económico. El año en que se concluya la construcción es llamado el año "cero". El proyecto se inicia en 1996, considerando dos años como período de construcción. Se consideró el "Período de Análisis" como de 15 años (entre 1995 y 2010).

### **b. Período de Efectividad (Período de Diseño)**

El período de efectividad o eficiencia, a menudo denominado como el "período de diseño", fué definido como el período en que una carretera nueva (o rehabilitada) tarda antes de alcanzar su "Condición de Servicio Final".

### **c. Período Mínimo de Efectividad**

Fué definido como el menor período que tarda en finalizarse una etapa determinada. El límite debe ser controlado por factores como la percepción pública de cuánto tiempo tarda una superficie "nueva" en ser ultimada, fondos disponibles para la construcción inicial, costo de ciclo de vida, y otras consideraciones de ingeniería.

### **d. Período Máximo de Efectividad**

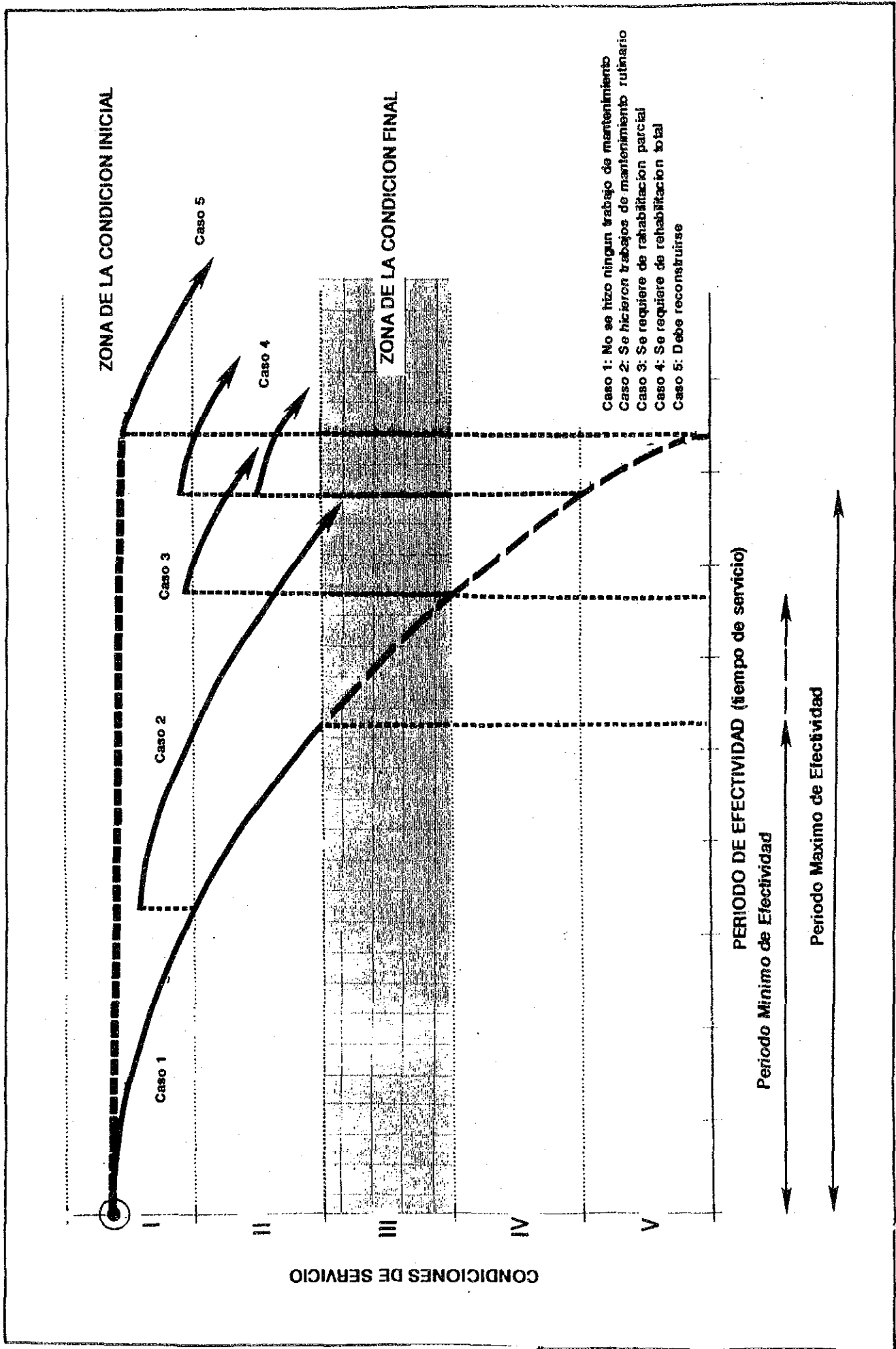
Es el máximo período que los usuarios pueden esperar para que finalice una etapa determinada.

De acuerdo a todas estas consideraciones, se definieron los períodos de efectividad o eficiencia para cada clase de carretera. (Tabla 10-2-3)

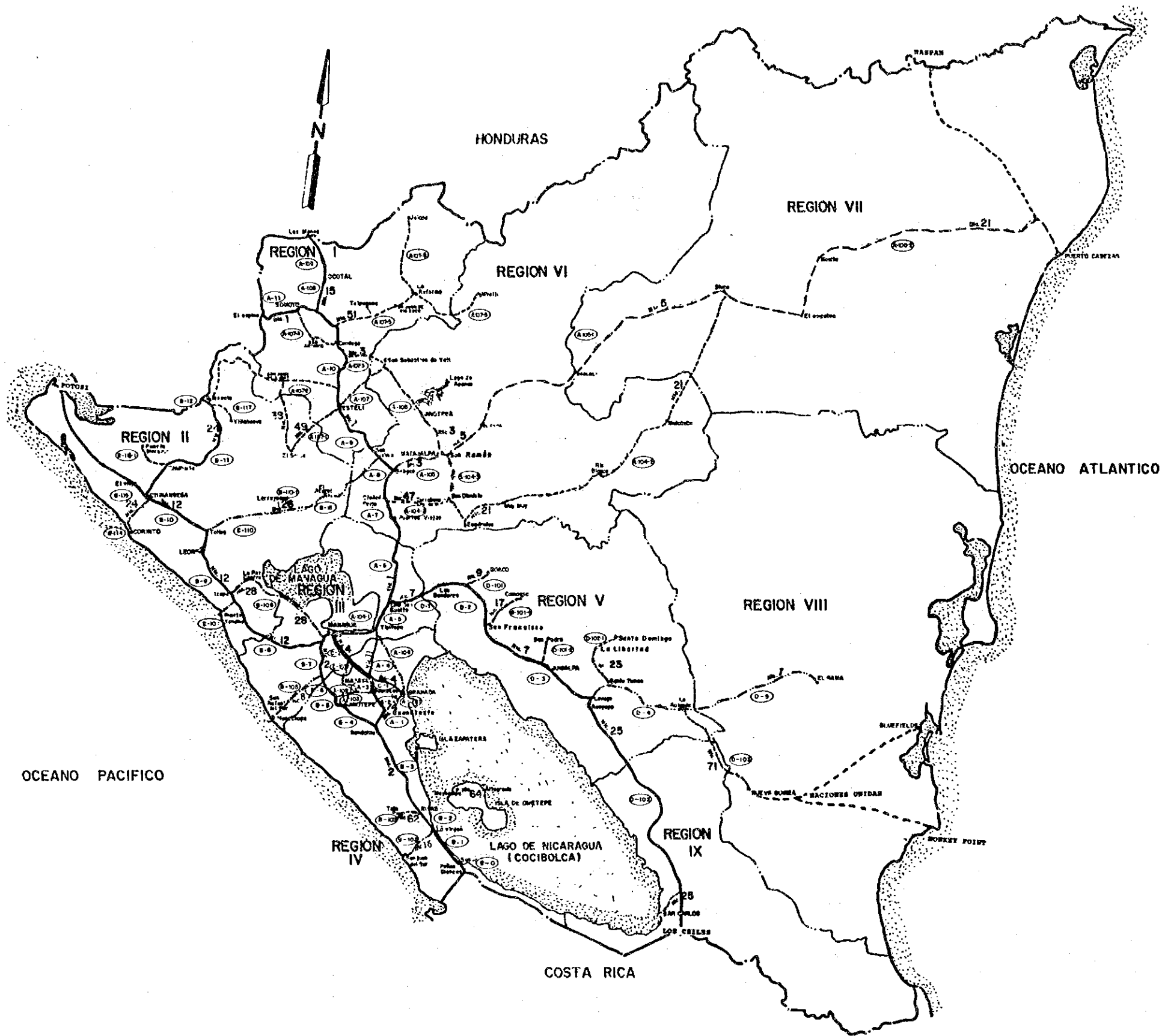


### Definición de los Periodos de Efectividad

Clase de carretera	Descripción	Periodo de Efectividad	
		Mínimo	Máximo
TP-I(s), TP-I, TP-II	Troncal Principal	10	15
TS-I, TS-II	Troncal Secundaria	5	10
CP-II, CS	Colectora Principal y Secundaria	2	5
CV	Caminos Vecinales	2	3



# RED VIAL FUTURA



## SIMBOLOGIA

SIMBOLO	CLASIFICACION	DESCRIPCION
— 21 M. —	TP - Ia	TRONCAL PRINCIPAL - Ia
— 12 M. —	TP - I	TRONCAL PRINCIPAL - I
— 10 M. —	TP - II	TRONCAL PRINCIPAL - II
— 10 M. —	TS - I	TRONCAL SECUNDARIA - I
— 9 M. —	TS - II	TRONCAL SECUNDARIA - II
— 7 M. —	CP - II	COLECTORA PRINCIPAL - II

Anexo 10-2 Mapa de la Futura Red Vial-Niveles de Mejoramiento



Anexo 10-3 : Nivel de Mejoramiento, Funcion Basica y Condicion de Servicio de la Red Vial

Seccion	Ruta		Distancia (km)	Poblacion 1993		2010		Volumen de Trafico		Funcion Bas.	Cond. Serv. 1993	Mejoramiento	
	A	B		A	B	1993	2010	Nivel	Ancho				
	de:	- a:		A /	B	(veh/dia)	(veh/dia)	Clase	(m)				
A-1	Nandaimle	- Guanacaste	9.10	36500 /	2000	59100 /	2000	1900	4100	a	IV	TP-I	12.0
A-2	Guanacaste	- Catarina	9.90	2000 /	6400	10300 /	6400	1850	3900	a	IV	TP-I	12.0
A-3	Catarina	- Masaya	9.10	6400 /	102000	10300 /	102000	3200	6700	a	IV	TP-I	12.0
A-4	Masaya	- Tipitapa	22.10	102000 /	75000	164700 /	75000	550	1100	a	IV	TP-I	12.0
A-5	Tipitapa	- San Benito	13.30	75000 /	4500	121400 /	4500	4000	7900	a	III	TP-I	12.0
A-6	San Benito	- Puertitas Viejas	36.70	4500 /	15000	121400 /	15000	2350	4600	a	III	TP-I	12.0
A-7	Puertitas Viejas	- Sebaco	32.40	15000 /	23000	121400 /	23000	2350	4600	a	III	TP-I	12.0
A-8	Sebaco	- San Isidro	13.60	23000 /	14400	37300 /	14400	1400	2600	a	III	TP-I	12.0
A-9	San Isidro	- Esteli	31.30	14400 /	89000	23300 /	89000	1250	2500	a	III	TP-I	12.0
A-10	Esteli	- Somoto	67.80	89000 /	30200	145200 /	30200	800	1600	a	III	TP-I	12.0
A-11	Somoto	- El Espino	21.60	30200 /	2500	49100 /	2500	10	20	a	III	TP-I	12.0
A-101	Guanacaste	- Granada	10.80	2000 /	91500	37200 /	91500	100	150	c	III	TP-II	10.0
A-102	Masatepe-SMarcos	- Las Esquinas	19.60	23000 /	24000	37200 /	24000	450	500	d	IV	TS-I	10.0
A-103	San Marcos	- Jinotepe	6.20	24000 /	38000	39000 /	38000	400	300	d	III	TS-I	10.0
A-104	Granada	- Int. Tipitapa	28.90	91500 /	7500	148600 /	7500	148600	15300	d	V	CP-II	7.0
A-105	Sebaco	- Matagalpa	26.90	23000 /	94900	37300 /	94900	1700	3300	b,c	IV	TP-II	10.0
A-106	Matagalpa	- Yali	76.60	94900 /	15100	154000 /	15100	350	650	d	V	TS-II	9.0
A-107	Esteli	- Yali	60.70	89000 /	15100	145200 /	15100			d	V	TS-II	9.0
A-108	Somoto-Yalaguina	- Ocotal	29.20	30200 /	28800	49100 /	28800	600	1500	a	III	TP-I	12.0
A-109	Ocotal	- Las Manos	24.00	28800 /	4200	47000 /	4200	6800		a	III	TP-I	12.0
A-104-1	Managua	- Tipitapa	21.00	972100 /	75000	1573000 /	75000	4500	9100	a,b	III	TP-I	12.0
A-104-2	Ciudad Dario	- Mulukuku	192.90	37200 /	37300	60300 /	37300	66600		d	III	CP-II	7.0
A-104-3	San Dionisio	- San Ramon	24.30	12000 /	22200	19300 /	22200			d	III	CP-II	7.0
A-105-1	San Ramon	- Siuna	104.10	22200 /	28600	36000 /	28600	10	20	b,c	V	TS-II	9.0
A-105-2	Siuna	- Puerto Cabezas	218.50	28600 /	31900	48400 /	31900	50	60	b,c	V	TS-II	9.0
A-105-3	Pto. Cabezas	- Waspan	137.50	31850 /	26025	51714 /	26025	150		c	V	CP-II	7.0
A-107-1	Esteli	- El Sauce	44.60	89000 /	29000	145200 /	29000	200	300	d	V	CP-II	7.0
A-107-2	El Sauce-Achuape	- La Sirena	73.00	29000 /	17000	47000 /	17000	300		d	V	CP-II	7.0
A-107-3	Yali	- Condega	42.40	15100 /	22900	24500 /	22900			d	III	CP-II	7.0
A-107-4	Condega-P.Nuevo	- Somoto	34.60	22900 /	30200	37500 /	30200			d	IV	CP-II	7.0
A-107-5	Palacaguina	- Wiwili	107.70	11700 /	27200	19100 /	27200			d	IV	CP-II	7.0
A-107-6	La Reforma	- Jalapa	55.10	17200 /	33500	28000 /	33500			d	IV	CP-II	7.0

Anexo 10-3 : Nivel de Mejoramiento, Funcion Basica y Condicion de Servicio de la Red Vial

Seccion	Ruta		Distancia (km)	Poblacion		Volumen de Trafico		Funcion Bas.	Cond. Serv. 1993	Mejoramiento	
	A	B		1993	2010	1993	2010			Nivel	Ancho (m)
	de:	a:		A / B	A / B	(veh/dia)	(veh/dia)			Clase	
B- 0	Penas Blancas	- Sappa	4.00	3400 / 9500	15500 / 15500	550	1,050	a	II	TP-I	12.0
B- 1	Sappa	- La Virgen	20.80	9500 / 3000	15500 / 15500	550	1,050	a	IV	TP-I	12.0
B- 2	La Virgen	- Rivas	11.10	3000 / 35600	57700 / 57700	550	1,050	a	III	TP-I	12.0
B- 3	Rivas	- Nandaime	44.10	35600 / 36500	57700 / 59100	1,900	4,200	a	III	TP-I	12.0
B- 4	Nandaime	- Jintope	18.00	36500 / 36000	59100 / 61600	2,900	6,500	a	III	TP-I	12.0
B- 5	Jintope	- Las Esquinas	9.50	36000 / 24000	61600 / 39000	2,950	6,500	a	III	TP-I	12.0
B- 6	Las Esquinas	- El Crucero	13.00	24000 / 8000	39000 / 39000	4,300	8,900	a	IV	TP-I	12.0
B- 7	El Crucero	- Nejapa	15.40	8000 / 6000	39000 / 1573000	4,350	9,140	a	onstrucci	TP-I	12.0
B- 8	Managua	- Nejapa-Izapa	66.40	972100 / 29500	1573000 / 278100	4,400	9,200	a	IV	TP-I	12.0
B- 9	Izapa	- Leon	25.50	29500 / 171300	278100 / 164300	3,900	8,500	a,b,c	IV	TP-I	12.0
B- 10	Leon	- Chinandega	40.00	171300 / 101200	164300 / 40700	100	2,300	a	IV	TP-I	12.0
B- 11	Chinandega	- Somotillo	68.50	101200 / 25000	40700 / 40700	350	800	a	III	TP-I	12.0
B- 12	Somotillo	- Guasaule	6.10	25000 / 6000	40700 / 28700				II	TS-I	10.0
B-102	La Virgen	- San Juan del Sur	18.30	3000 / 16500	57700 / 33700				III	TS-I	10.0
B-103	Rivas	- Tola	13.10	36500 / 20800	62100 / 62100				III	TS-I	10.0
B-105	El Crucero	- Masachapa	21.30	4500 / 38400	22200 / 22200				IV	TP-II	10.0
B-106	Nejapa-Mateare	- Izapa	60.10	19800 / 29500	22200 / 22200	100	150	c	III	TP-II	10.0
B-107	Izapa	- Puerto Sandino	9.60	29500 / 6800	36200 / 14900	300	650	b,c	IV	TS-I	10.0
B-110	Telica	- LaCruzdelalindia	73.70	22400 / 6800	14900 / 37400	150	300	b,c	IV	TS-I	10.0
B-111	LaCruzdelalindia	- Int.San Isidro	23.10	6800 / 24000	37400 / 38300	700	1,500	b,c	IV	TP-II	10.0
B-114	Chinandega	- Coninto	20.00	101200 / 23600	164300 / 5520	550		a	IV	TP-I	12.0
B-115	Chinandega	- El Viejo-Potosi	76.20	101200 / 4050	164300 / 33000			d	III	CP-II	7.0
B-117	Somotillo	- Villa Nueva	16.00	25000 / 20300	40700 / 40671	400		d	V	CP-II	7.0
B-118	Somotillo	- SnJuanLimay	68.00	25049 / 14724	40671 / 24011						
B-110-1	Int.Telica	- Larreynaga	6.40	22400 / 35500	36200 / 57700	300	650	d	III	CP-II	7.0
B-116-1	Puerto Mbrazan	- Rancherias	19.80	5900 / 5800	9600 / 9400			d	V	CP-II	7.0

Anexo 10-3 : Nivel de Mejoramiento, Funcion Basica y Condicion de Servicio de la Red Via

Seccion	Ruta		Distancia (km)	Poblacion		Volumen de Trafico		Funcion Bas.	Cond. Serv. 1993	Mejoramiento	
	A	B		1993 A / B	2010 A / B	1993 (veh/dia)	2010 (veh/dia)			Nivel	Ancho (m)
C- 1	Granada	- Masaya	18.00	91500 /	102000 /	148600 /	164700 /	c	III	TP-I	12.0
C- 2	Masaya	- Managua	29.00	102000 /	972100 /	164700 /	1573000 /	a	V	TP-I(s)	23.0
C-101	Esquipulas	- Masatepe	31.50	16000 /	23000 /	26200 /	37200 /	d	V	TS-I	10.0
D- 1	San Benito	- Las Banderas	11.70	4500 /	3200 /	/	/	a	III	TP-I	12.0
D- 2	Las Banderas	- San Francisco	50.70	3200 /	28500 /	/	46600 /	a	V	TP-I	12.0
D- 3	San Francisco	- Lovago	72.00	28500 /	15800 /	46600 /	25600 /	a	IV	TP-I	12.0
D- 4	Lovago	- La Gateada	54.00	15800 /	18000 /	25600 /	23600 /	b.c	IV	TS-I	10.0
D- 5	La Gateada	- El Rama	71.70	18000 /	36900 /	29600 /	60000 /	b.c	IV	TS-I	10.0
D-101	Monte Grande	- Bosco	14.00	21000 /	38800 /	34100 /	63100 /	d	V	TP-II	10.0
D-102	Lovago	- Los Chiles	134.30	15800 /	/	25600 /	/	a	V	TP-I	12.0
D-103	La Gateada	- Nueva Guinea	62.50	16000 /	49000 /	29600 /	79800 /	d	III	CP-II	7.0
D-104	NuevaGuinea	- Bluefields	95.20	48990 /	38235 /	79776 /	62274 /			CP-II	7.0
D-101-1	San Francisco	- Camoapa	21.00	28600 /	28600 /	46600 /	46600 /	d	III	CP-II	7.0
D-101-2	Las Lajitas	- San Pedro	15.30	4050 /	4000 /	/	/	d	III	CP-II	7.0
D-102-1	Santo Tomas	- Santo Domingo	37.20	14500 /	19000 /	23600 /	31000 /	d	III	CP-II	7.0
D-102-2	Int.Acoy.L.Ch.	- San Carlos	2.50	16374 /	1800 /	26619 /	2900 /	d	III	CP-II	7.0
D-104-1	Cukra River	- Monkey Point	56.00	14500 /	19000 /	23600 /	31000 /	d	III	CP-II	7.0