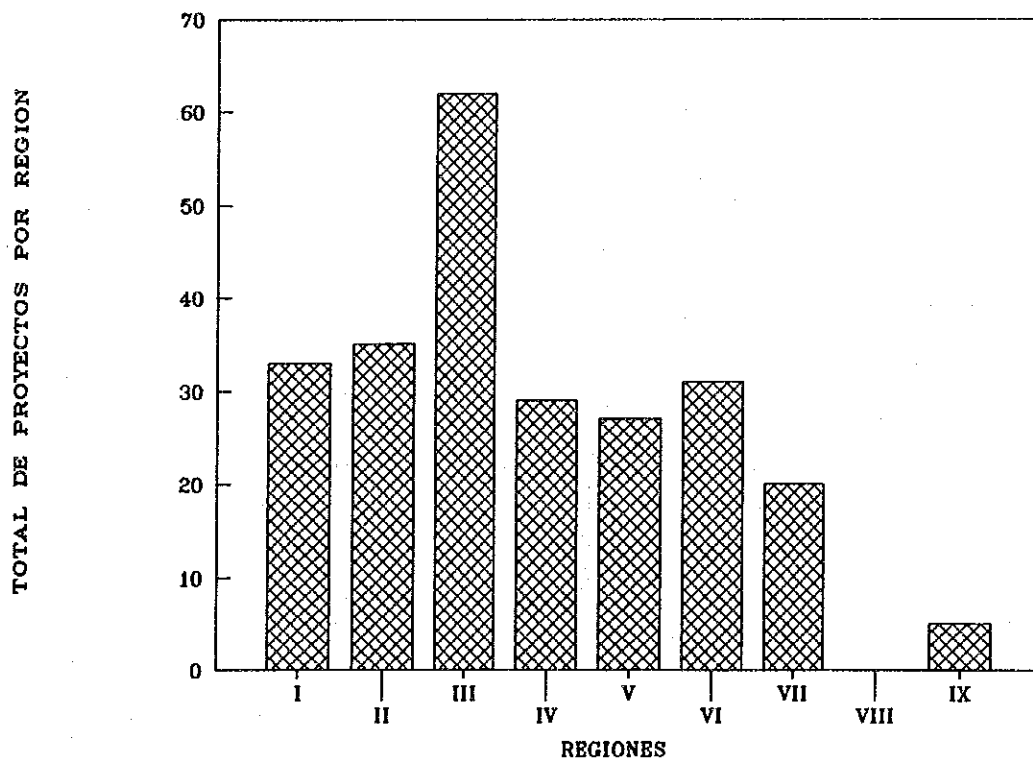


PROGRAMA DE INVERSION PUBLICA 1993 POR REGION

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
V	RIVAS	5
	CENTRAL	27
VI	BOACO	11
	CHONTALES	16
	NORTE	31
VII	JINOTEGA	14
	MATAGALPA	17
VIII	RAAN	20
VIII	RAAS	0
	ATLANTICO NORTE	20
IX	ATLANTICO SUR	0
IX	RIO SAN JUAN	5

PROGRAMA DE INVERSION PUBLICA

1993 POR REGION



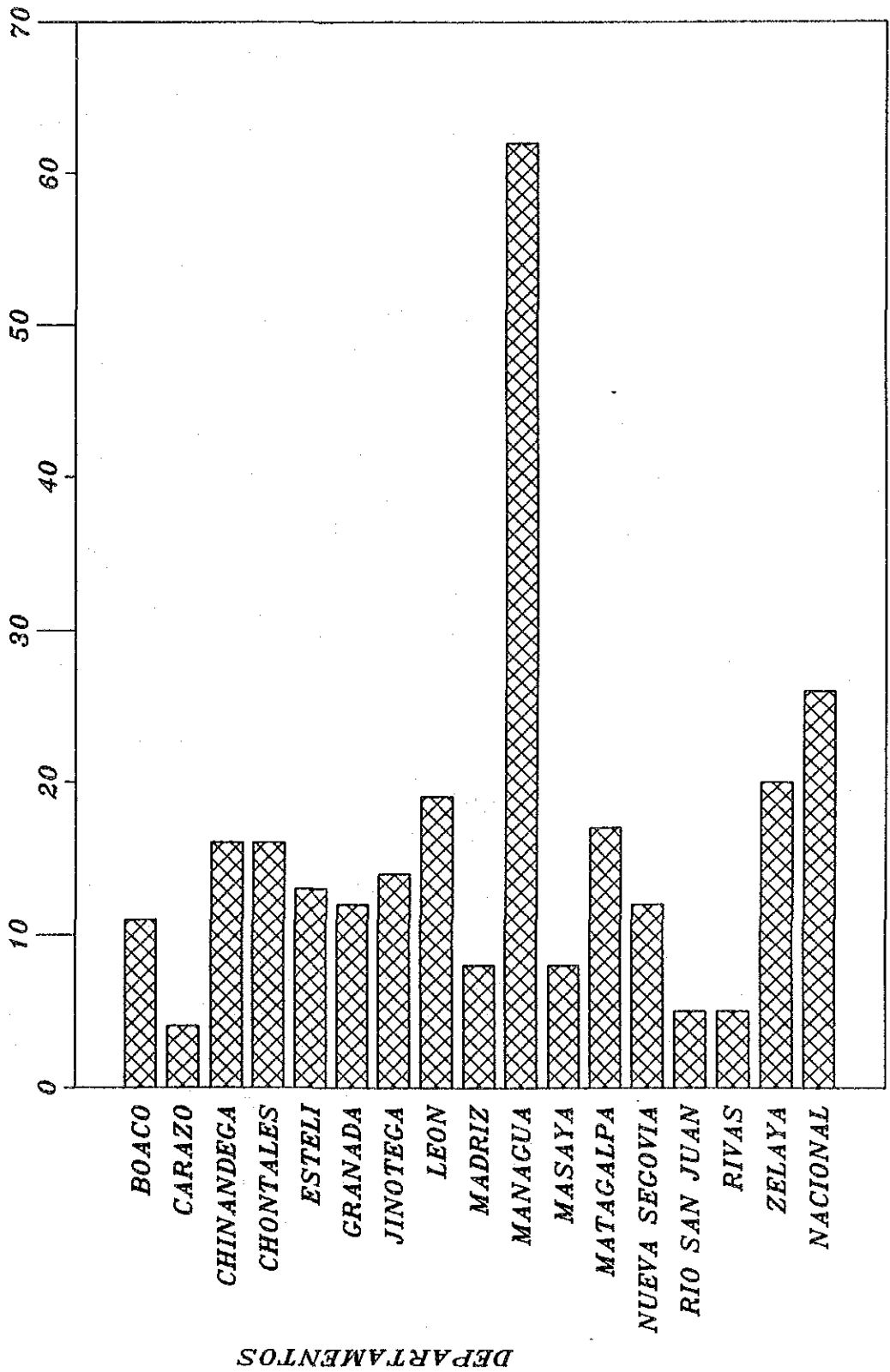
PROGRAMA DE INVERSION PUBLICA 1983 POR DEPARTAMENTO

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		3	1	1	1	5	2										4
CHINANDEGA	1	1	1	1	1	6	3	1	1			1	1	1							16
CHONTALES	1	2	1	1	1	2	2			1		1	1	1							13
ESTELI	1	1			2	2	4	1	1	1		1	1	1							12
GRAMADA	1	1	1		2	2	4		4			1	1	1							14
JINOTEGA	1	1	1	2	1	2	1	1	5	4											19
LEON	1	2	1	2	1	1	1							1							8
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			1	1								8
MATAGALPA	1	2	3	1	1	3	1	2			2	1	2	1							17
NUEVA SEGOVIA	1	1	1	1	1	2	4			1		1	1	1							12
RIO SAN JUAN	1	1	1	1	1	1				1		1	1								5
RIVAS	1	2								1	1			1							5
ZELAYA	1	2	2	2	2	1	2	1	1	5		1	1	1							20
NACIONAL	3	1	1	1	1	3	3		3	4		5	5	1				1		1	26

# PROGRAMA DE INVERSION PUBLICA

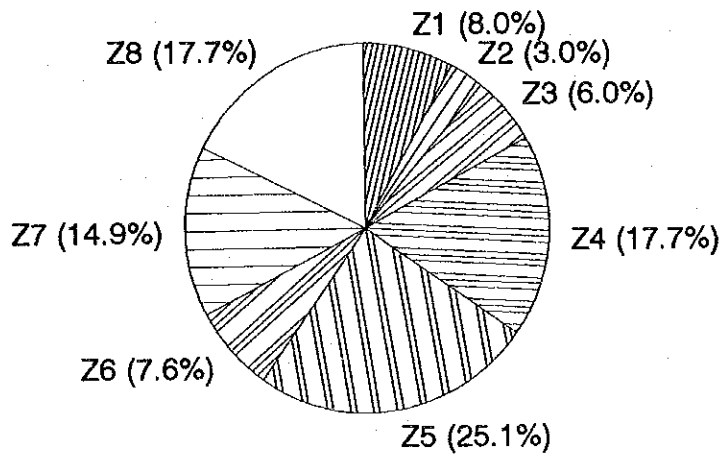
1993 POR DEPARTAMENTO

TOTAL DE PROYECTOS POR DEPARTAMENTO

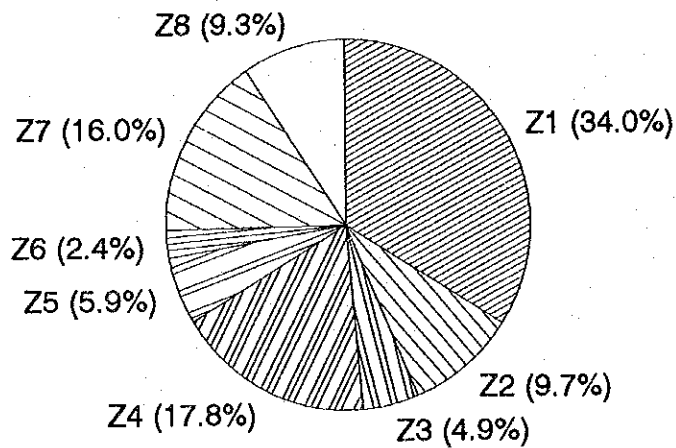


Z1	Development area to be controlled
Z2	Development area to be consolidated
Z3	Expansion area to be developed
Z4	Area of containment to be developed
Z5	Integration area to the socioeconomic development
Z6	Local development areas
Z7	Recovering and conservation area
Z8	Reserve areas of natural ecosystems

Composition of potential land use



Composition of population in each potential land use zone



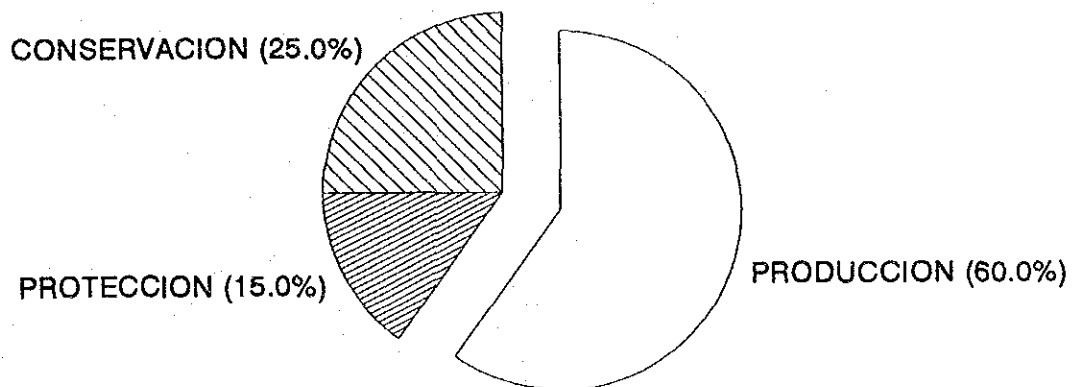
Source: "Lineamientos estratgicos para el ordenamiento territorial" INETEL

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

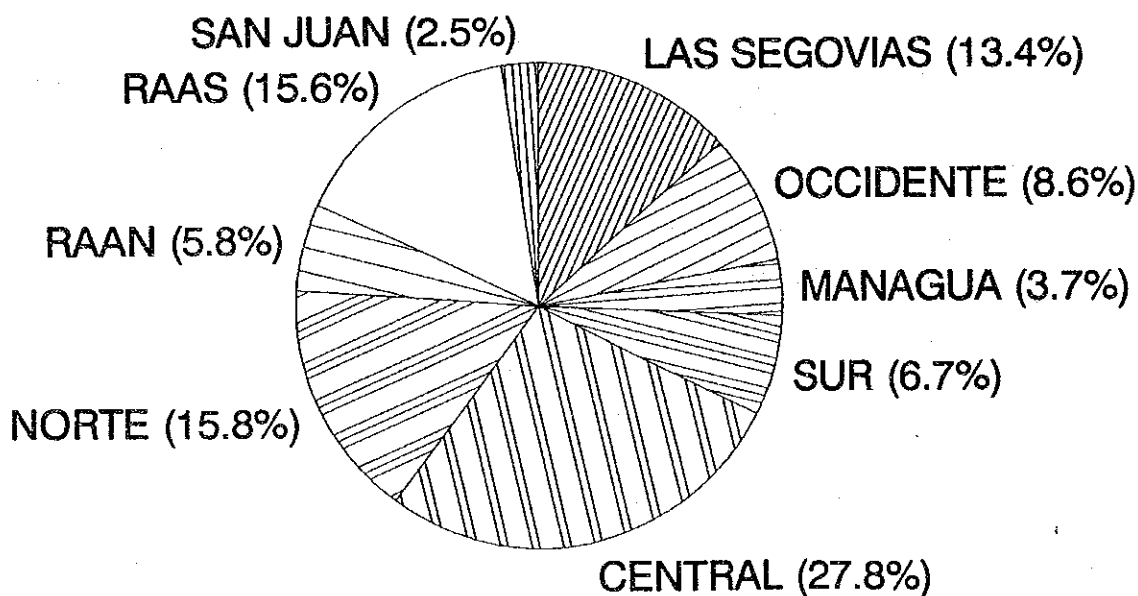


AREAS APTAS PARA PLANTACIONES FORESTALES  
NICARAGUA 1990 MILES HA

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	665.2	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
<b>VACUNO</b>						
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
<b>AVICOLA</b>						
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
<b>PORCINO</b>						
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)

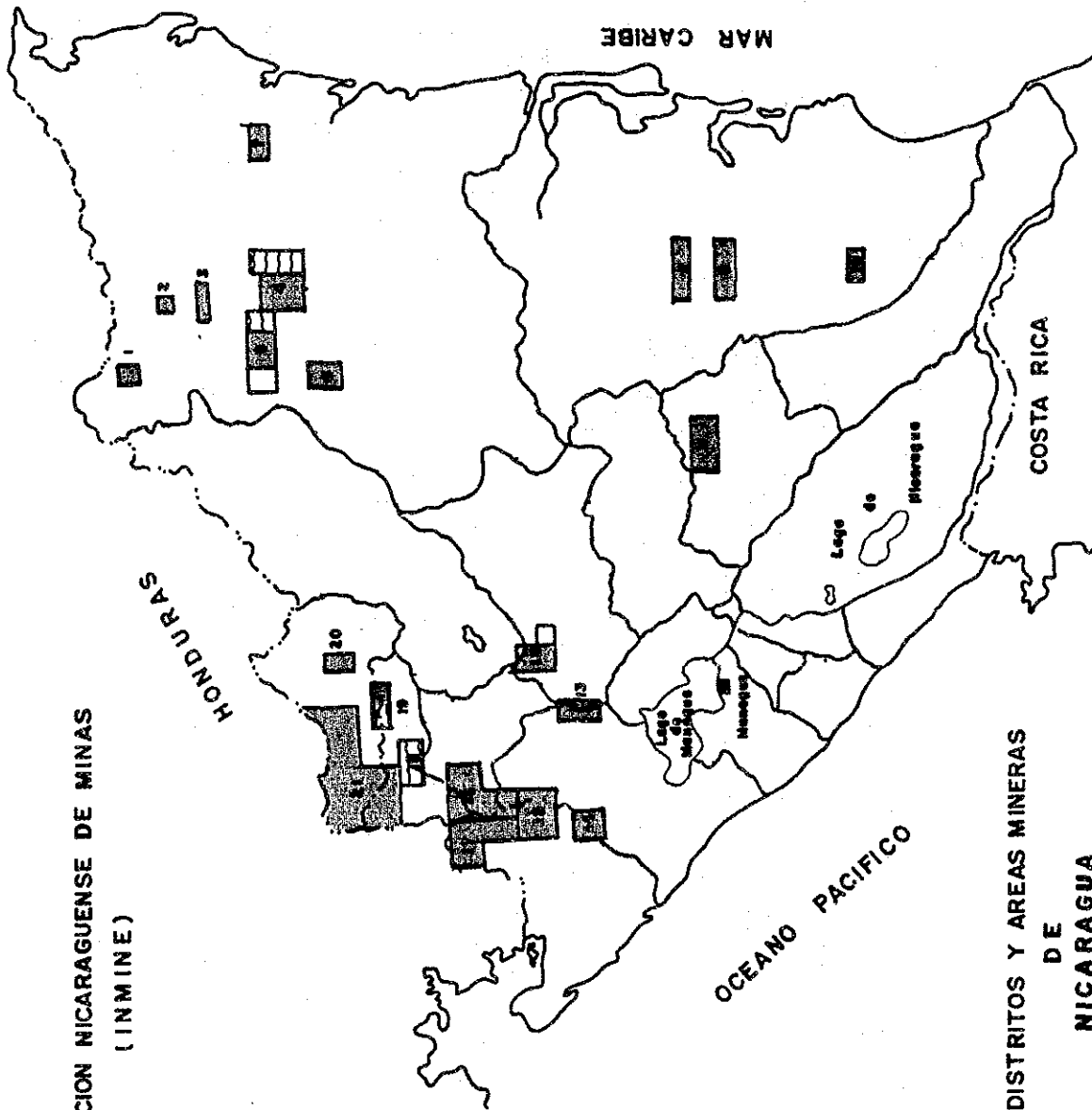
RUBROS	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97
Cafe	180.5	184.7	200.1	232.1	245.0	295.0
Banano	4.2	4.2	6.2	8.5	10.9	13.0
Cana de Azucar	16.6	15.2	15.0	13.9	12.5	12.5
Tabaco						
Algodon	20.0	24.9	33.3	39.9	49.9	49.9
Ajonjoli	7.9	9.2	10.5	11.9	13.2	13.2
Soya	0.5	0.9	1.4	1.8	2.3	2.3
Mani	1.3	1.6	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)



- 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 SIUNA.
- 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 REYNA (Matagalpa)
- 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-Cu) (Matriz)
- 19 DISTRITO MINERO DE TELPANECA (Matriz)
- 20 DISTRITO MINERO DE MURRA.
- 21 DISTRITO MINERO DE MACUELIZO.

	ORO	Au
	COBRE	Cu
	PLOMO	Pb
	ZINC	Zn
	HIERRO	Fe

0 34 68 Km  
1:3400000

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	116,831.27	90,623.34	159,079.66

PROYECTO	1994		1995		OTROS ANOS	
	R.N	R.E	R.N	R.E	R.N	R.E
CARRETERAS Y PUENTES	45,982.14	44,483.58	16,912.20	24,635.00	56,177.70	260,244.10
FERROVIARIOS	1,318.00	9,407.68	0.00	12,603.68	0.00	8,376.90
PORTUARIOS	2,850.00	4,300.00	500.00	0.00	0.00	0.00
AEROPORTUARIOS	0.00	8,535.25	0.00	535.25	0.00	0.00
VIVIENDA	10,231.73	60,904.31	10,231.73	60,904.31	10,231.73	60,904.31
INETER	809.00	3,634.10	382.93	1,858.88	332.92	1,859.87
SUBTOTAL	61,190.87	131,264.92	28,026.86	100,537.12	66,742.35	331,385.18
PRE - INVERSION	3,064.09	5,953.00	4,392.98	6,028.00	0.00	0.00
MAQUINARIA Y EQUIPO	0.00	22,319.10	0.00	0.00	0.00	40,000.00
TOTAL	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 1981-1986  
 (Cifras en miles US\$)

PROYECTO	CANT.	U.M.	MONTO TOTAL		1981		1982		1983		1984		1985		OTROS AÑOS		F.D.E.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.	
CARRETERAS	1490	KMS	66,772.0	303,662.0	357.0	1,154.0	11,762.0	8,846.0	14,397.0	16,990.0	13,508.0	33,943.0	2,737.0	24,635.0	24,011.0	216,094.0	
Programa de Carreteras para la Integración de Centro America.	341	KMS	13,297.0	75,893.0	357.0	1,154.0	5,619.0	8,846.0	2,110.0	13,990.0	3,320.0	29,884.0	1,646.0	4,811.0	2,450.0	2,208.0	S.F.
CORREDOR NATURAL	75	KMS	1,980.0	17,820.0					990.0	8,910.0	990.0	8,910.0					S.F.
Chinandega - Leon - Izapa	66	KMS	2,310.0	20,790.0													S.F.
Las Piedrecitas - Nejapa	4	KMS	2,976.0	0.0			2,976.0										S.F.
Nejap - Las Conchitas - Nandaimé	56	KMS	1,680.0	15,120.0					1,120.0	10,080.0	560.0	5,040.0					S.F.
Nandaimé - Rivas	48	KMS	736.0	6,624.0													S.F.
Rivas - Penas Blancas	36	KMS	615.0	5,539.0							615.0	5,539.0					S.F.
Nejapa - Izapa	58	KMS	3,000.0	10,000.0	357.0	1,154.0	2,643.0	8,846.0					491.0	4,416.0	245.0	2,208.0	GEST.BCIE
CORREDOR ALTERNATIVO B	483	KMS	12,009.0	106,066.0	0.0	0.0	0.0	0.0	0.0	0.0	4,059.0	4,059.0	451.0	4,059.0	1,106.0	96,946.0	GEST.BCIE
Las Manos - Yalaguina	44	KMS	743.0	6,686.0											743.0	6,686.0	S.F.
Yalaguina - Esteli	58	KMS	994.0	8,944.0											994.0	8,944.0	S.F.
Esteli - Sebaco	45	KMS	680.0	6,116.0											680.0	6,116.0	S.F.
Sebaco - Sn. Benito	70	KMS	1,055.0	9,497.0											1,055.0	9,497.0	S.F.
Sn. Benito - Lovago	131	KMS	3,811.0	34,298.0											3,811.0	34,298.0	S.F.
Abovapa - Sn. Carlos - Frontera	135	KMS	4,725.0	42,525.0							451.0	4,059.0	451.0	4,059.0	3,823.0	34,407.0	S.F.
CONEXIONES	566	KMS	41,467.0	119,703.0	0.0	0.0	6,143.0	0.0	12,287.0	0.0	9,737.0	0.0	640.0	5,765.0	12,690.0	113,338.0	S.F.
Tiptapa - Managua	22	KMS	550.0	4,950.0											550.0	4,950.0	S.F.
Managua - Masaya (ampliacion)	27	KMS	22,950.0	0.0			5,100.0		10,200.0		7,650.0						F.G.C.
Nejap - La Paz C. - Las Piedrecitas	61	KMS	2,134.0	19,216.0									640.0	5,765.0	1,494.0	13,451.0	S.F.
Managua - Granada	17	KMS	510.0	4,590.0											510.0	4,590.0	S.F.
Granada - Nandaimé	21	KMS	357.0	3,213.0											357.0	3,213.0	S.F.
Sn. Benito - Tiptapa	11	KMS	166.0	1,492.0											166.0	1,492.0	S.F.
Tiptapa - Masaya	23	KMS	809.0	7,277.0											809.0	7,277.0	S.F.
Masaya - El Guanacaste	27	KMS	610.0	7,293.0											610.0	7,293.0	S.F.
Telica - Suisidro	97	KMS	1,452.0	13,068.0											1,452.0	13,068.0	S.F.
Lovago - La Gateada	55	KMS	1,595.0	14,557.0											1,595.0	14,557.0	S.F.
La Gateada - El Rama	72	KMS	2,080.0	18,716.0											2,080.0	18,716.0	S.F.
La Gateada - Nueva Guinea	64	KMS	1,088.0	9,792.0											1,088.0	9,792.0	S.F.
El Almirante - Nueva Guinea	42	KMS	1,218.0	10,962.0											1,218.0	10,962.0	S.F.
Nueva Guinea - Bluffields	96	KMS	5,217.0				1,043.0		2,087.0		2,087.0						S.F.
El Espino - Yalaguina	31	KMS	531.0	4,760.0											531.0	4,760.0	S.F.

MINISTERIO DE LA CONSTRUCCION Y TRANSPORTE  
 PLAN PRELIMINAR DE INVERSIONES  
 PROYECTOS CARRETERAS Y PUENTES 1981-1988  
 (Cifras en miles US\$)

PROYECTO DE CARRETERAS	CANT.	U.M	MONTO TOTAL		1981		1982		1983		1984		1985		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	R.N	R.E
REGION I	154	KMS	2,412.00		270.00	918.00	270.00	918.00	270.00	918.00	270.00	918.00	270.00	918.00	36.00	
Sabaco - Estel (45)	45	KMS	810.00		270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	36.00	
Ocoati - Mozote (7)	2	KMS	36.00													
Las Manos - Yalaquina (44)	20	KMS	360.00													
El Espino - Yalaquina (81)	81	KMS	558.00													
Yalaquina - Estel (68)	36	KMS	648.00													
REGION II	128	KMS	2,304.00		1,995.00	648.00	1,995.00	648.00	1,995.00	648.00	1,995.00	648.00	1,995.00	648.00		
Chinandega - Corinto (21)	8	KMS	144.00													
Chinandega - Leon - Izapa (66)	20	KMS	360.00													
Chinandega - El Viejo - El Congo (46)	15	KMS	270.00													
Leon - Ponaloya (20)	12	KMS	216.00		72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00		
Villa 15 de Julio - Guasale (45)	45	KMS	810.00		810.00	810.00	810.00	810.00	810.00	810.00	810.00	810.00	810.00	810.00		
Sn Gabriel - Pro. Sardino (10)	3	KMS	54.00													
Tolica - San Isidro (87)	25	KMS	450.00		113.00	113.00	113.00	113.00	113.00	113.00	113.00	113.00	113.00	113.00		
REGION III	86	KMS	1,548.00													
Managua - Masaya (27)	11	KMS	198.00													
Sn Benito - Tipitapa (11)	15	KMS	270.00													
Izapa - La Paz C. - Managua (61)	22	KMS	396.00													
Tipitapa - Managua (22)	15	KMS	270.00													
Las Conchitas - Masachapa (32)	23	KMS	414.00													
Tipitapa - Masaya (23)	23	KMS	414.00													
REGION IV	142	KMS	2,730.00		2,001.00	486.00	2,001.00	486.00	2,001.00	486.00	2,001.00	486.00	2,001.00	486.00		
Masaya - Catarina - Guacacaste (27)	10	KMS	150.00		90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00		
Catrina - La Esquina (20)	8	KMS	144.00													
Granada - Nandaimé (21)	10	KMS	150.00		180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00		
Sn Marcos - Jindtepe	3	KMS	54.00													
Rivas - Papas Blancas (35)	20	KMS	300.00		525.00	525.00	525.00	525.00	525.00	525.00	525.00	525.00	525.00	525.00		
Masaya - Granada (17)	17	KMS	255.00		306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00	306.00		
Dihamba - La Boq. - Casares (29)	20	KMS	300.00		360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00		
La Virgen - Sn Juan del sur (18)	5	KMS	90.00													
Nandaimé - Rivas (46)	15	KMS	270.00													
Rivas - Sn Jerge (8)	4	KMS	72.00													
Nejap - Las Conchitas - Nandaimé (56)	30	KMS	540.00		540.00	540.00	540.00	540.00	540.00	540.00	540.00	540.00	540.00	540.00		
REGION V	208	KMS	3,762.00		1,338.00	648.00	1,338.00	648.00	1,338.00	648.00	1,338.00	648.00	1,338.00	648.00		
La Gateada - El Palma (72)	72	KMS	1,296.00		648.00	648.00	648.00	648.00	648.00	648.00	648.00	648.00	648.00	648.00		
Sn Benito - Lovago (131)	80	KMS	1,440.00		360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00		
Lovago - Acoyapat (5)	2	KMS	36.00													
Lovago - La Gateada (55)	55	KMS	990.00		330.00	330.00	330.00	330.00	330.00	330.00	330.00	330.00	330.00	330.00		
REGION VI	77	KMS	1,404.00		216.00	468.00	216.00	468.00	216.00	468.00	216.00	468.00	216.00	468.00		
Sabaco - Mataguila (28)	28	KMS	540.00		180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00		
Jintotepe - Valle de la Cruz (4)	2	KMS	36.00		36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00		
	46	KMS	720.00													
		KMS	108.00													

fuentes: RESUMEN PLAN QUINQUENAL 1981-1985 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

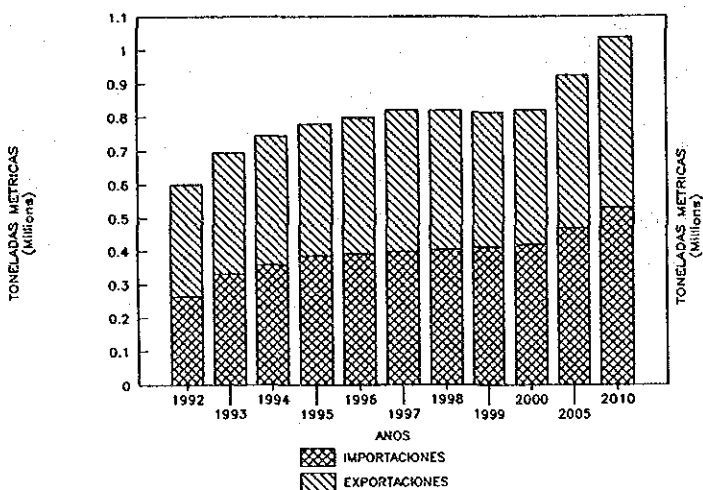
\*NOTE: Excluded numbers are for port works at Corinto.

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

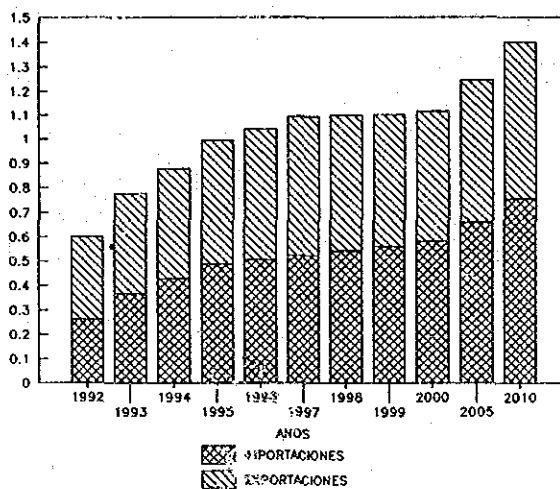
DIRECCION/ANO	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
			PROYECCION BAJA PONDERADA								
EXPORTACIONES	336,550	362,143	385,783	392,755	407,013	422,625	414,210	402,064	400,718	453,899	505,425
IMPORTACIONES	262,117	330,212	357,461	385,171	391,126	397,611	404,170	411,373	419,193	469,940	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	408,418	450,934	505,157	536,907	571,986	559,658	540,542	535,378	588,140	644,232
IMPORTACIONES	262,117	367,732	427,231	487,651	504,660	522,530	540,649	560,055	580,695	657,632	755,950
TOTAL	598,667	776,150	878,165	992,808	1,041,567	1,094,516	1,100,307	1,100,597	1,116,073	1,245,760	1,400,182
			PROYECCION ALTA PONDERADA								
EXPORTACIONES	336,550	422,788	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	569,827	600,999	633,919	670,016	709,557	840,589	1,011,632
CARGAS EN TRANSITO				28,600	31,848	34,848	38,332	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.

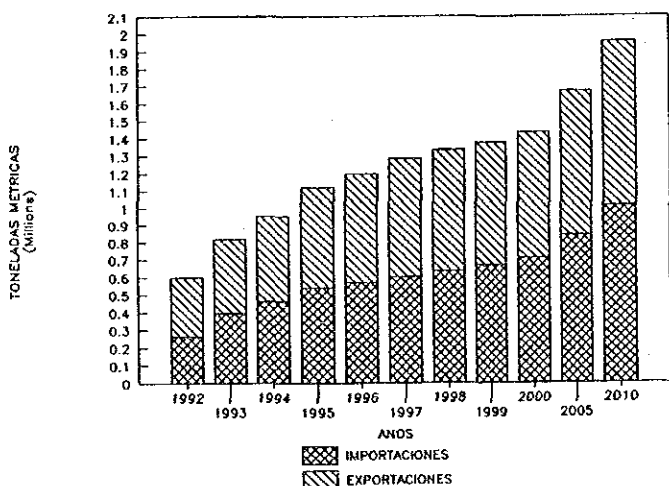
TOTAL EXPORTACIONES/IMPORTACIONES  
DE CORINTO. PROYECCION BAJA PONDERADA



TOTAL EXPORTACIONES/IMPORTACIONES  
DE CORINTO. PROYECCION MEDIA PONDERADA



TOTAL EXPORTACIONES/IMPORTACIONES  
DE CORINTO. PROYECCION ALTA PONDERADA



## Annex 8-10 Projection of Agricultural Product

Year	Coffee		Cotton		Sugar		Banana		Rice		Corn		Sorghum		Bean	
	(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

Units : 1000 qq

Note : (a) Projected by development policy

(b) Projected by GDP growth rate

Annex 9-1 Future OD Table -2000-

YEAR=2000

TYPE OF VEHICLE VEHICULOS LIVIANDS

	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	5	9	1	0	0	41	4	32	320	1	0	0	0	0	1	0	1	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	9	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	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	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	32	0	259	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	0	0	0	2488	
11	15	362	20	426	79	112	43	1008	229	2619	0	335	14	70	1	0	279	7	141	15	65	495	54	17	31	0	2	0	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	0	1	1	4	0	1	0	0	0	0	0	0	0	0	0	332	
13	0	0	0	0	0	0	0	0	1	20	0	0	6	0	0	0	1	0	23	1	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	64	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	
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	1	0	1	0	0	0	0	0	6	281	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	1	0	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	0	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	0	1	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	8	0	926	
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	16	233	
24	0	0	0	0	0	0	0	0	0	0	21	0	0	7	0	0	0	0	64	0	6	0	0	0	47	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	0	0	29	0	0	1	0	44	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		
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		
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		
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	1	3	323	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	10	59	
33	0	70	0	9	0	0	0	0	0	0	61	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	14	0	167		
TOT	15	600	26	793	97	133	43	1103	265	2965	6719	373	52	118	2	1	570	26	296	22	117	837	207	95	110	0	2	0	0	0	281	64	19516187			

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

YEAR=2000

TYPE OF VEHICLE MICRO 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		
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	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	
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	10	0	26	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145	
5	0	0	0	0	11	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
6	0	0	0	0	14	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	22	
7	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	
8	0	2	0	17	0	0	0	0	0	0	75	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	
9	0	0	0	7	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	0	18	
10	0	0	0	38	0	3	0	0	0	0	80	27	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153	
11	2	20	0	47	3	20	5	153	3	128	0	42	1	2	0	0	63	0	3	1	11	22	7	1	5	0	0	0	0	45	2	1	593			
12	0	0	0	2	0	2	0	0	0	0	62	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	
13	0	0	0	0	3	0	0	0	0	0	1	0	0	18	0	0	1	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	
14	0	0	0	0	0	0	0	0	0	0	5	0	13	0	0	0	1	0	18	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	42	
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	3	89	0	4	2	0	0	0	2	1	0	4	53	0	0	0	0	0	0	0	0	0	0	0	158	
19	1	0	0	0	2	0	0	0	0	0	5	0	2	8	0	0	0	0	0	16	0	1	0	0	5	0	0	0	0	0	0	0	0	0	2	
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	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	
22	0	0	0	0	0	0	0	0	0	0	34	0	1	0	0	0	41	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36
24	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	16	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	15
25	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
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	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
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	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
TOT	3	24	0	111	24	36	5	170	3	161	536	75	23	36	0	108	2	55	11	16	113	7	26	10	0	0	0	0	0	45	4	2	1606			

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

YEAR=2000

TYPE OF VEHICLES 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	
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	3	
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	62	
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	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	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	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	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	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	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	42		
10	0	0	0	0	29	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	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	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	
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	
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	
17	0	0	0	0	0	0	0	0	0	0	61	0	22	0	0	0	0	0	2	0	0	2	48	0	0	0	0	0	0	0	0	0	1	0	136
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	4	
19	0	0	0	0	0	0	0	0	0	0	29	0	0	4	0	0	1	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	41	
20	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	5	
21	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
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	4	0	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	1	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	0	7	0	0	0	0	0	0	0	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	3	0	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	
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	
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	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	16	
TOT	8	62	0	147	11	26	32	54	155	338	907	24	36	73	0	172	2	55	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 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	9	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	9	13		
4	0	6	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	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	0	182		
7	0	0	0	5	1	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	0	0	141		
8	1	30	0	32	4	0	4	0	0	0	218	2	0	0	0	0	0	0	2	0	7	0	0	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	0	166		
10	1	30	0	96	2	4	0	14	15	0	346	26	0	15	3	0	3	0	22	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	585		
11	15	196	9	249	73	67	82	182	99	515	0	112	49	116	5	3	170	1	69	52	25	90	6	15	33	0	1	0	1	0	247	48	12	2542			
12	0	0	0	4	1	2	0	19	0	6	73	0	0	5	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	116		
13	0	0	0	0	1	0	0	4	4	52	0	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	0	1	0	0	0	206		
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	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	0	6	1	124	0	11	2	0	0	0	12	4	0	1	51	0	0	1	0	0	0	0	0	0	1	3	0	218		
18	0	9	0	0	0	0	0	0	0	0	6	0	0	0	1	0	5	0	0	0	0	1	0	9	0	0	0	0	0	0	7	0	0	0	20		
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	22	0	0	0	0	0	2	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	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	48	0	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	29	0	3	0	0	0	27	0	0	0	0	0	0	0	0	0	0	2	103	
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	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	2	0	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	1	0	0	38		
TOT	18	309	11	445	91	87	86	275	135	667	2374	156	97	219	10	4	207	14	223	64	57	179	22	75	137	0	1	0	1	0	235	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	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	144	
5	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	5	
6	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	6	
7	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	28	
8	0	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	39	
9	0	0	0	19	0	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	84	
10	0	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	5	0	128	
11	0	34	0	122	7	24	16	34	89	98	0	5	0	7	0	0	35	5	27	5	73	223	15	5	16	0	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	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	
18	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	
19	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	19	
20	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	2	
21	0	0	0	5	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	6	0	0	0	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	
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	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	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	3	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	5	0	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	15	0	0	0	5	143	335	97	2667			

\*\*\* TABELA 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			
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	50	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		
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	0	1		
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	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	0	0	0	0	0	0	0	0	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	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	0	
11	0	0	0	0	2	0	2	0	0	0	0	3	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	
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	0	35	
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	1	
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	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	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	0
17	0	0	0	0	0	0	0	0	0	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
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	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	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	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	0	0
22	0	0	0	0	0	0	0	0	0	0	25	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	28
23	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	0	0	0	0	0	0	4	
24	0	0	0	0	0	0	0	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	1	
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	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	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	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	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	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	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	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	0
33	0	11	0	0	0	0	0	0	0	0	4	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	0	0	2	0	2	0	137	31	4	0	0	0	0	27	4	1	0	0	40	0	0	0	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	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	0	198	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	0	2	0	3	0	2	4	1	0	0	0	0	0	0	0	3	0	0	6	2760	
5	1	9	1	4	0	61	0	1	0	17	312	15	10	3	0	0	0	0	4	0	0	1	0	1	0	0	0	0	0	0	3	0	0	9	452	
6	0	12	0	9	57	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	553	
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	4	0	0	0	2450	14	2	1	0	0	1	0	0	2	0	17	0	1	5	0	0	0	0	0	49	1	0	2654		
9	3	31	0	186	0	0	0	0	0	0	712	0	0	14	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	928	
10	1	94	0	895	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	3	5	5	3613		
11	63	957	44	1630	397	491	242	1815	686	4845	0	631	151	503	6	3	1064	18	372	161	288	1198	105	64	127	0	3	0	1	5	998	432	143	17263		
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	126	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	1	0	0	999		
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	
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17	0	5	0	2	1	0	0	6	2	93	810	2	49	21	0	0	0	52	18	6	53	630	49	0	1	0	0	0	0	0	1	5	1	1307		
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21	0	7	0	7	0	0	0	1	4	5	225	0	0	2	0	0	32	0	0	0	0	61	0	1	5	0	0	0	0	0	1	0	0	0	361	
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	25	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	3	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	157	0	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	205	0	0	0	0	0	0	0	0	0	0	0	2	517
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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	
31	0	0	0	2	0	0	0	8	3	0	686	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
32	0	0	0	3	0	0	0	2	2	364	0	0	0	8	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	700	
33	0	112	0	10	1	0	0	9	0	0	233	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	28	437
TOT	72	1442	55	2911	415	494	248	2066	853	5895	16366	821	481	994	12	5	1794	80	964	225	429	2364	423	369	470	0	3	0	1	5	1071	491	409	2558		



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

YEAR=2010

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	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99		
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4	0	0	0	0	0	0	0	0	9	47	179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	235		
5	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	16		
6	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	18		
7	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33		
8	0	1	0	5	0	0	0	0	0	0	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204		
9	0	0	0	0	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68		
10	0	0	0	47	0	0	0	0	0	0	258	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	316		
11	14	92	0	185	18	42	52	86	241	483	0	27	18	108	0	157	0	61	16	47	174	9	13	13	0	0	0	0	0	0	79	23	12	1970	
12	0	0	0	0	0	0	0	0	0	11	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53		
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14	0	0	0	0	0	0	0	0	0	0	80	0	0	0	0	0	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	91		
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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18	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
19	0	0	0	0	0	0	0	0	0	0	47	0	0	0	0	0	1	0	0	0	0	0	0	0	5	7	0	0	0	0	0	0	0	67	
20	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	8	
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22	0	0	0	0	0	0	0	0	0	0	154	0	1	0	0	0	75	0	0	0	1	0	35	0	0	0	0	0	0	0	0	0	6	272	
23	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	73	0	0	0	0	0	0	0	0	0	0	0	82	
24	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	11	0	0	0	0	0	1	0	0	0	0	0	0	0	0	28	
25	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	9	0	0	0	0	5	0	0	0	0	0	0	0	0	0	30	
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	
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	
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31	0	0	0	0	0	0	0	0	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
32	0	0	0	0	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	6
33	0	6	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	8
TOT	14	99	0	237	13	42	52	87	250	541	1460	38	57	118	0	275	4	91	16	51	343	44	23	21	0	0	0	0	0	0	79	32	12	4004	

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

YEAR-2010

TYPE OF VEHICLE CANTONETA

	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	4	39	0	0	0	38	7	7	303	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	32	432
3	0	2	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	7	
4	1	14	0	0	0	0	0	22	63	314	762	5	10	0	0	0	0	0	3	0	0	6	2	0	0	0	0	0	0	1	0	0	0	1203	
5	1	0	0	4	0	33	0	0	16	156	5	13	4	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	235	
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7	0	0	0	0	0	0	0	0	0	6	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	
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9	3	26	0	128	0	0	0	0	0	0	217	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	386		
10	0	45	0	551	16	16	0	0	40	0	1905	66	9	34	0	0	4	0	11	0	9	9	0	0	0	0	0	0	0	0	0	0	0	2715	
11	29	372	20	860	172	198	82	496	151	1856	0	149	96	315	1	0	556	7	120	102	120	460	25	23	43	0	0	0	0	318	5	0	6282		
12	0	0	0	11	3	1	0	5	0	62	186	0	5	17	0	0	8	0	5	3	0	2	0	0	0	0	0	0	0	0	0	0	0	308	
13	0	0	0	1	3	0	0	0	0	9	560	0	0	293	0	0	11	0	16	9	0	6	0	0	0	0	0	0	0	0	0	0	0	327	
14	0	4	0	2	0	0	2	0	0	20	405	3	178	0	0	0	14	2	50	0	0	9	0	0	0	0	0	0	0	0	0	0	0	589	
15	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	
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20	0	0	0	0	0	0	0	0	0	0	90	0	0	24	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142	
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31	0	0	0	1	0	0	0	6	0	0	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	266
32	0	0	0	0	0	0	0	0	0	0	16	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
33	0	7	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	15	
TOT	35	537	24	1685	244	250	85	573	272	2023	6169	241	368	734	1	0	1007	41	405	152	185	1111	220	208	246	0	0	0	0	1	339	7	3317497		

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

YEAR=2010

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	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	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	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	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	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	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	265		
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	201		
8	2	48	0	50	6	0	5	0	0	0	297	4	0	0	0	0	0	0	0	0	4	11	0	0	0	0	0	0	0	52	0	0	480		
9	2	6	0	37	0	0	0	0	0	0	187	0	0	10	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	852		
11	21	290	14	361	103	98	121	256	144	752	0	161	72	188	7	3	263	2	100	77	38	135	9	22	48	0	1	0	352	55	16	3710			
12	0	0	0	6	2	4	0	29	0	10	98	0	0	8	0	0	0	0	0	0	0	4	7	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	161		
14	0	0	0	17	0	0	0	0	0	6	184	10	44	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	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	3		
17	0	0	0	0	0	0	0	9	2	2	183	0	19	4	0	0	18	7	0	0	2	90	0	2	0	0	0	0	0	0	2	5	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	12	0	0	33		
19	0	0	0	2	0	0	0	0	4	8	93	2	8	26	0	0	2	0	0	4	0	2	0	45	102	0	0	0	0	2	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	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	71		
22	0	0	0	2	0	0	0	4	0	7	178	2	2	2	0	0	33	2	2	2	0	41	0	21	0	0	0	0	0	0	7	0	303		
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	80		
24	0	0	0	2	0	0	0	0	0	0	25	2	0	4	0	0	0	0	72	0	0	0	0	0	43	0	0	0	0	0	0	0	148		
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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	
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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	472	
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	21	122
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	1	0	52	
TOT	27	474	18	684	140	132	127	418	207	1004	3623	239	151	337	17	6	338	26	349	97	93	285	37	116	212	0	1	0	442	79	98	9788			

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

YEAR=2010

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		
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2	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	15		
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		
4	0	0	0	0	0	0	0	0	0	18	166	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	188		
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7	0	0	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34		
8	0	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51		
9	0	0	0	30	0	0	0	0	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113		
10	0	0	0	0	0	0	0	0	0	0	151	0	4	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	173		
11	0	44	0	149	8	30	21	43	117	125	0	5	0	9	0	0	48	5	35	5	39	304	20	7	21	0	0	0	13	196	391	117	1814			
12	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	8		
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14	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	12		
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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		
17	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	32	
18	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	11	
19	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	23	
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21	0	0	0	10	0	0	0	0	7	9	115	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	148	
22	0	0	0	2	0	0	0	0	0	0	283	0	0	0	0	0	5	0	0	0	2	0	0	0	0	0	0	0	0	0	0	10	0	302		
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24	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	8	0	0	3	0	0	0	0	0	0	0	0	0	0	0	15		
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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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32	0	0	0	1	0	0	0	0	3	3	282	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	293
33	0	0	0	0	0	0	0	0	0	0	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166	
TOT	0	44	0	192	8	30	21	43	127	156	1514	5	4	9	0	0	53	6	43	5	114	318	20	8	21	0	0	0	12	198	417	121	3490			



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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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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	
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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	
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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	52	0	0	0	0	0	0	0	0	0	0	0	0	62	0
11	0	0	0	0	3	0	3	3	0	0	0	2	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0
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	0
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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	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	0
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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
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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
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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	0	24
TOT	0	19	0	13	3	0	3	3	0	212	45	6	0	0	0	42	6	2	0	0	0	62	0	0	0	0	0	0	0	0	0	0	0	0	0	419

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

YEAR=2010

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	2	0	0	2	0	5	95	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105			
2	0	17	54	2	0	142	15	74	1233	2	0	0	0	0	2	4	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	231	1832		
3	0	32	0	0	0	2	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93			
4	1	68	0	0	2	0	148	120	1080	2673	11	2	18	0	4	0	0	5	0	4	6	2	0	0	0	0	0	0	0	5	0	9	4158		
5	1	15	2	8	0	93	0	2	27	453	23	15	6	0	0	0	0	7	0	0	2	0	1	0	0	0	0	0	0	6	0	14	675		
6	0	20	0	15	101	0	2	0	21	542	4	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	818		
7	0	0	0	8	2	0	0	0	12	373	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	395		
8	2	208	0	251	6	7	6	0	0	3467	23	3	2	0	0	2	0	0	4	0	28	0	1	8	0	0	0	0	0	0	0	0	0	4107	
9	5	48	6	248	0	0	0	0	0	1057	0	0	22	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1394		
10	2	149	0	1255	22	33	0	21	64	0	6441	182	15	58	8	27	0	69	7	22	90	0	11	0	0	0	0	0	0	0	5	9	3	8518	
11	93	1447	83	2337	442	585	359	2802	1042	7494	0	987	210	720	10	3	1518	27	558	227	428	1819	164	94	184	0	5	0	1	13	1474	551	19125933		
12	0	0	0	25	5	8	0	35	5	177	859	0	7	29	0	0	8	0	5	3	2	8	14	0	2	0	0	0	0	0	0	0	0	1193	
13	0	0	0	1	7	2	0	0	15	17	174	0	0	283	2	0	45	0	39	17	0	17	0	0	4	0	0	0	0	0	0	0	0	673	
14	0	4	0	19	0	0	2	0	2	30	737	13	245	0	0	20	2	123	6	4	19	0	0	0	0	0	0	0	0	0	0	0	0	1288	
15	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	10	
16	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	3	
17	0	8	0	4	2	0	0	9	4	144	1231	4	78	34	0	0	84	28	9	87	1027	76	0	2	0	0	0	0	0	1	2	8	0	2842	
18	0	0	0	0	0	0	0	0	0	0	28	0	2	6	2	0	64	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	126	
19	2	0	0	2	11	0	0	4	13	566	9	90	157	0	0	22	0	0	50	0	7	0	113	255	0	0	0	0	0	0	2	2	0	1305	
20	0	0	0	2	0	0	0	15	8	174	0	0	52	0	0	7	0	56	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	320	
21	0	12	0	12	0	0	2	7	9	336	0	0	4	0	0	56	0	0	0	0	102	0	2	9	0	0	0	0	0	0	0	0	0	553	
22	0	30	0	6	0	0	4	0	21	1921	4	20	6	0	0	928	8	19	0	87	0	424	26	0	0	0	0	0	0	0	0	0	0	353	
23	0	15	0	0	0	0	0	0	0	214	0	0	7	0	0	16	6	0	0	22	511	0	0	0	0	0	0	0	0	0	5	0	26	822	
24	0	0	0	2	3	0	0	0	0	105	7	0	17	0	0	0	0	275	0	0	3	0	0	232	0	0	0	0	0	0	0	0	0	645	
25	0	0	0	0	2	0	0	0	4	213	0	5	0	0	0	0	0	223	0	4	2	0	303	0	0	0	0	0	0	0	0	0	0	3	759
26	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	2	
27	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	
28	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	2	
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	8	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	15	6	0	0	29	11	6	1368	6	0	6	0	1	9	4	8	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1471
32	0	0	0	2	0	0	0	3	3	449	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	540
33	0	165	0	15	0	0	0	15	0	0	301	0	0	0	0	4	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	543	
TOT	106	2221	87	4305	613	728	359	3221	1307	914525258	1265	701	1452	22	8	2830	131	1472	355	662	3659	880	551	702	0	5	0	1	14	1594	644	5716489			

## **Appendix 10-1 Complement for Service Condition**

### **a. Analysis Period**

The length of time chosen for consideration and study of incremental benefits and cost in the economic analysis. The final year of construction is designated year "zero". The project starts on 1996, considering two years as the construction period, the "Analysis Period" was considered to be 15 years (from 1995 to 2010 year).

### **b. Performance Period (Design Period)**

The performance period, often referred to as the design period, was defined as the period of time that the initial (or rehabilitated) road will last before reaching its terminal service condition.

### **c. Minimum Performance Period**

It was defined as the shortest amount of time a given stage should last. The limit may be controlled by such factors as the public's perception of how long a "new" surface should last, the funds available for initial construction, life-cycle cost, and other engineering considerations.

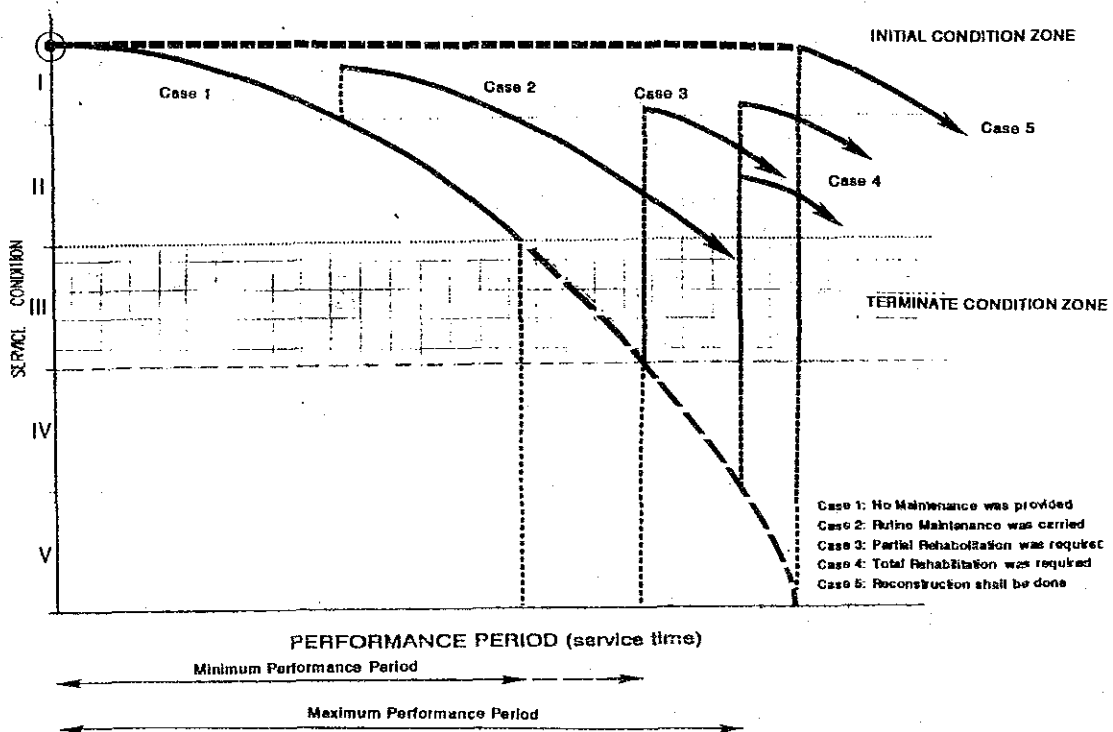
### **d. Maximum Performance Period**

Is the maximum practical amount of time that the user can expect for a given stage.

According to the above considerations, performance periods were defined for each class of road as Table 10-2-3 is shown.

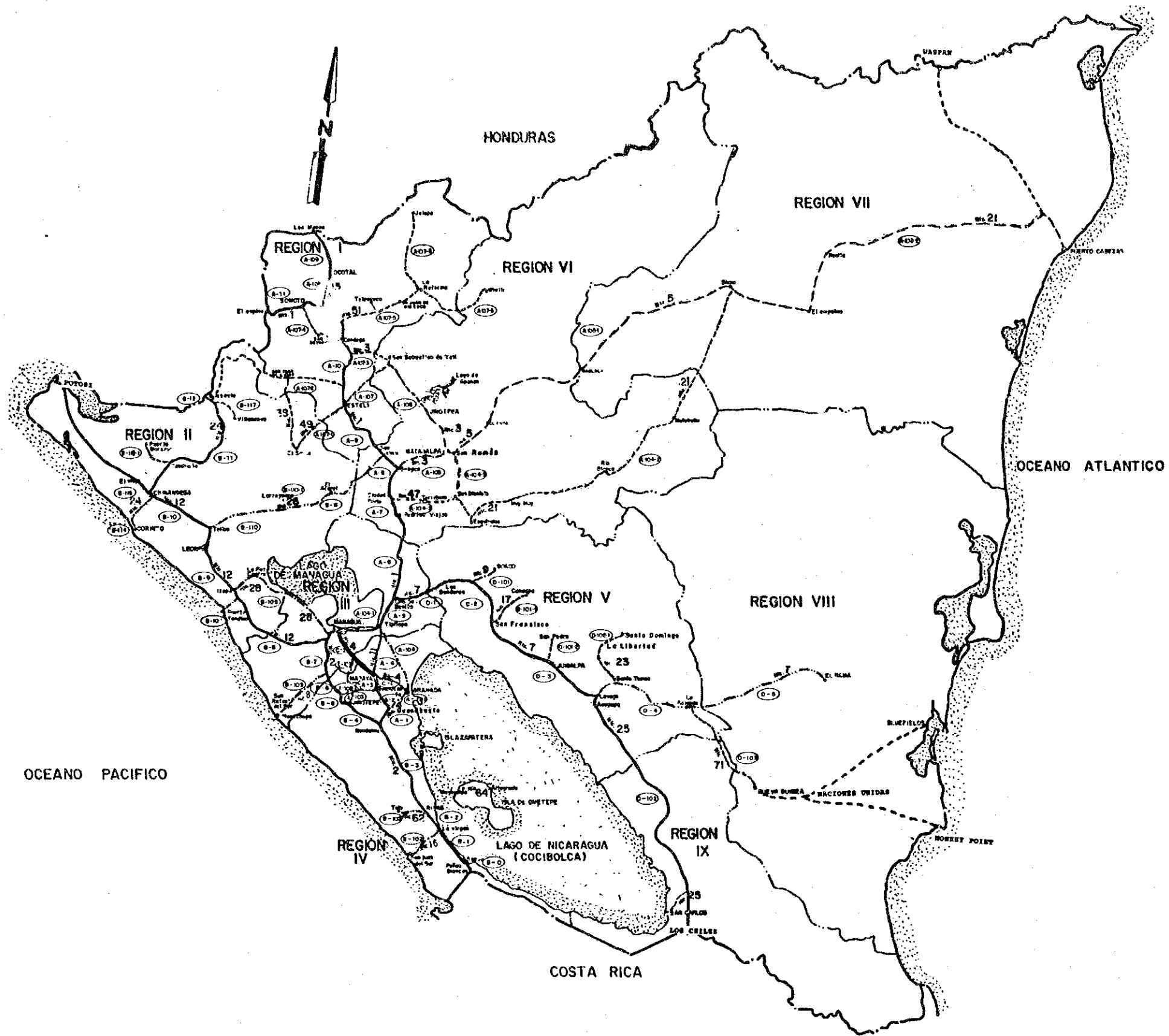
Performance Period Definitio.

Class of Road	Description	Performance Period	
		Minimum	Maximum
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	Camino Vecinales	2	3





# RED VIAL FUTURA



## SIMBOLOGIA

SIMBOLO	CLASIFICACION	DESCRIPCION
— 21 M —	TP - 1a	TRONCAL PRINCIPAL-1a
— 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

Annex 10-2 Future Road Network - Improvement Level



Annex 10-3(a) : Improvement Levels, Basic Function and Service Condition of the Road Network

Section	Route		Distance (km)	Population		Traffic Volume		Basic Function	Service Condit. (1993)	Improvement	
	from: A	to: B		1993		2010				Level (Class)	Width (m)
				A / B	B	A / B	B				
A-1	Nandaine	- Guanacaste	9.10	36,500 / 2,000	59,100 /	1,900	4,100	a	IV	TP-I	12.00
A-2	Guanacaste	- Catarina	8.90	2,000 / 6,400	/	1,850	3,900	a	IV	TP-I	12.00
A-3	Catarina	- Masaya	9.10	6,400 / 102,000	10,300 / 164,700	3,200	6,700	a	IV	TP-I	12.00
A-4	Masaya	- Tiptapa	22.10	102,000 / 75,000	184,700 / 121,400	550	1,100	a	IV	TP-I	12.00
A-5	Tiptapa	- San Benito	13.30	75,000 / 4,500	121,400 /	4,000	7,900	a	III	TP-I	12.00
A-6	San Benito	- Puertitas Viejas	36.70	4,500 / 15,000	/	2,350	4,600	a	III	TP-I	12.00
A-7	Puertitas Viejas	- Sebaco	32.40	15,000 / 23,000	/	2,350	4,600	a	III	TP-I	12.00
A-8	Sebaco	- San Isidro	13.60	23,000 / 14,400	37,300 / 23,300	1,400	2,800	a	III	TP-I	12.00
A-9	San Isidro	- Esteli	31.30	14,400 / 89,000	23,300 / 145,200	1,250	2,500	a	III	TP-I	12.00
A-10	Esteli	- Somoto	67.80	89,000 / 30,200	145,200 / 49,100	800	1,600	a	III	TP-I	12.00
A-11	Somoto	- El Espino	21.60	30,200 / 2,500	49,100 /	10	20	a	III	TP-I	12.00
A-101	Guanacaste	- Granada	10.80	2,000 / 91,500	/	100	150	c	III	TP-II	10.00
A-102	Masatepe-S Marcos	- Las Esquinas	19.60	23,000 / 24,000	37,200 / 39,000	450	500	d	IV	TS-I	10.00
A-103	San Marcos	- Jinotepe	6.20	24,000 / 38,000	39,000 / 61,600	400	900	d	III	TS-I	13.00
A-104	Granada	- Inc. Tiptapa	28.90	91,500 / 7,500	148,600 /			d	V	CP-II	7.00
A-105	Sebaco	- Matagalpa	26.90	23,000 / 94,900	37,300 / 154,000	1,700	3,300	b,c	IV	TP-II	13.00
A-106	Matagalpa	- Yali	76.60	94,900 / 15,100	154,000 / 24,500	350	650	d	V	TS-II	9.00
A-107	Esteli	- Yali	60.70	89,000 / 15,100	145,200 / 24,500			d	V	TS-II	9.00
A-108	Somoto-Yalaguina	- Ocoital	29.20	30,200 / 28,800	49,100 / 47,000	600	1,500	a	III	TP-I	12.00
A-109	Ocoital	- Las Manos	24.00	28,800 / 4,200	47,000 / 6,800			a	III	TP-I	12.00
A-104-1	Managua	- Tiptapa	21.00	972,100 / 75,000	1,573,000 /	4,500	9,100	a,b	III	TP-I	12.00
A-104-2	Ciudad Dario	- Mulukuku	192.90	37,200 / 37,300	60,300 /			d	III	CP-II	7.00
A-104-3	San Dionisio	- San Ramon	24.30	12,000 / 22,200	19,300 /			d	III	CP-II	7.00
A-105-1	San Ramon	- Sina	104.10	22,200 / 28,600	36,000 / 46,400	10	20	b,c	V	TS-II	9.00
A-105-2	Sina	- Puerto Cabezas	218.50	28,600 / 31,900	46,400 / 51,700	50	60	b,c	V	TS-II	9.00
A-105-3	Pto. Cabezas	- Waspan	137.50	31,860 / 26,025	51,714 / 42,243	150		c	V	CP-II	7.00
A-107-1	Esteli	- El Sauce	44.60	89,000 / 29,000	145,200 / 47,000	200	300	d	V	CP-II	7.00
A-107-2	El Sauce Achuapa	- La Sirena	73.00	29,000 / 17,300	47,000 / 27,500	300		d	V	CP-II	7.00
A-107-3	Yali	- Condega	42.40	15,100 / 22,900	24,500 / 37,500			d	III	CP-II	7.00
A-107-4	Condega-P.Nuevo	- Somoto	34.50	22,900 / 30,200	37,500 / 49,100			d	IV	CP-II	7.00
A-107-5	Palaceguina	- Wirihii	107.70	11,700 / 27,200	19,100 / 44,100			d	IV	CP-II	7.00
A-107-6	La Reforma	- Jalapa	55.10	17,200 / 33,500	28,000 / 54,500			d	IV	CP-II	7.00



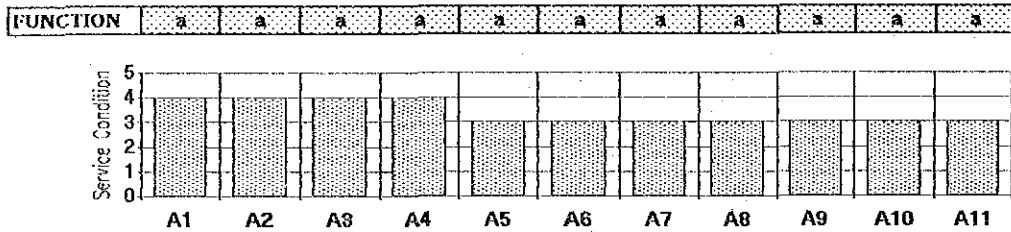
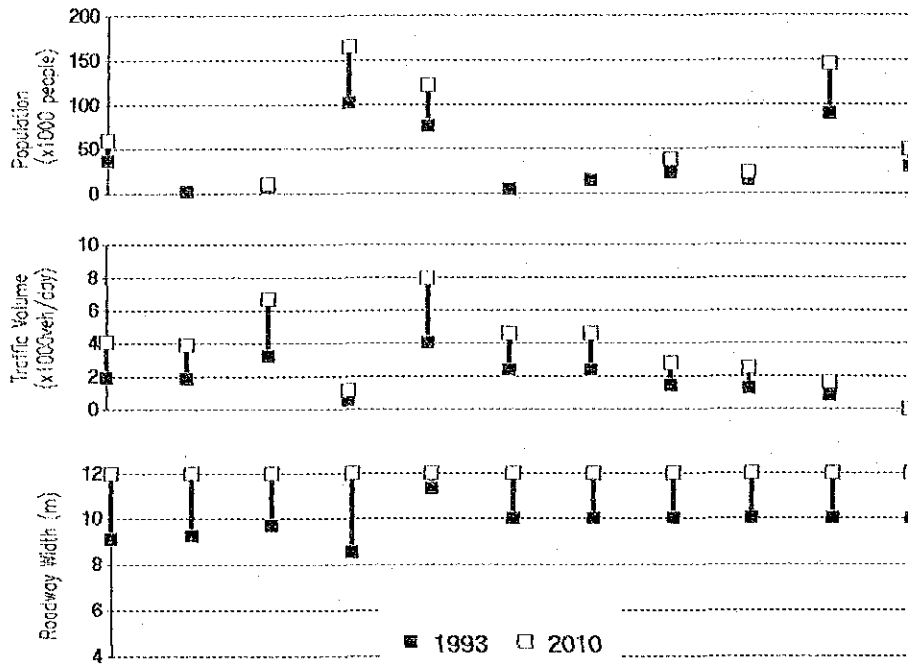
Annex 10-3(b): Improvement Levels, Basic Function and Service Condition of the Road Network

Section	Route		Distance (km)	Population		2010		Traffic Volume		Basic Function	Service Condit. (1993)	Improvement Level (Class)	Width (m)
	from: A	to: B		1993		A /	B	1993 (veh/day)	2010 (veh/day)				
				A /	B								
B-0	Peñas Blancas	- Sapoa	4.00	3,400 /	9,500	/	15,500	550	1,050	a	II	TP-I	12.00
B-1	Sapoa	- La Virgen	20.80	9,500 /	3,000	15,500 /		550	1,050	a	IV	TP-I	12.00
B-2	La Virgen	- Rivas	11.10	3,000 /	35,600	/	57,700	550	1,050	a	III	TP-I	12.00
B-3	Rivas	- Nandame	44.10	35,600 /	36,500	57,700 /	59,100	1,900	4,200	a	III	TP-I	12.00
B-4	Nandame	- Jinotepe	18.00	36,500 /	38,000	59,100 /	61,600		0	a	III	TP-I	12.00
B-5	Jinotepe	- Las Esquinas	9.50	38,000 /	24,000	61,600 /	39,000	2,900	6,500	a	III	TP-I	12.00
B-6	Las Esquinas	- El Crucero	13.00	24,000 /	8,000	39,000 /		2,950	6,500	a	III	TP-I	12.00
B-7	El Crucero	- Nejapa	15.40	8,000 /	6,000	/		4,300	8,900	a	IV	TP-I	12.00
B-8	Managua	- Nejapa-Izapa	66.40	972,100 /	29,500	1,573,000 /	278,100	4,350	9,140	a	in construction	TP-I	12.00
B-9	Izapa	- Leon	25.50	29,500 /	171,300	/	278,100	4,400	9,200	a	IV	TP-I	12.00
B-10	Leon	- Chinandega	40.00	171,300 /	101,200	278,100 /	164,300	3,900	8,500	a,b,c	IV	TP-I	12.00
B-11	Chinandega	- Somotillo	68.50	101,200 /	25,000	164,300 /	40,700	100	2,300	a	IV	TP-I	12.00
B-12	Somotillo	- Guasante	6.10	25,000 /	6,000	40,700 /		350	800	a	III	TP-I	12.00
B-102	La Virgen	- San Juan del Sur	18.30	3,000 /	16,500	/	26,700			c	II	TS-I	13.00
B-103	Rivas	- Tola	13.10	35,500 /	20,800	57,700 /	33,700			c	III	TS-I	13.00
B-105	El Crucero	- Masachapa	21.30	4,500 /	38,400	/	52,100			c	III	TS-I	13.00
B-106	Nejapa-Mateos	- Izapa	60.10	13,600 /	29,500	22,200 /				a	IV	TP-II	13.00
B-107	Izapa	- Puerto Sandino	9.60	29,500 /		/		100	150	c	III	TP-II	13.00
B-110	Telica	- La Cruz de la India	73.70	22,400 /	6,800	36,200 /	14,300	300	650	b,c	IV	TS-I	13.00
B-111	La Cruz de la India	- Int. San Isidro	23.10	6,800 /	24,000	14,300 /	37,400	150	300	b,c	IV	TS-I	13.00
B-114	Chinandega	- Corinto	20.00	101,200 /	23,600	164,300 /	38,300	700	1,500	b,c	IV	TP-II	13.00
B-115	Chinandega	- El Viejo Potosi	76.20	101,200 /	4,050	164,300 /	6,520	550		a	IV	TP-I	12.00
B-117	Somotillo	- Villa Nueva	16.00	25,000 /	20,300	40,700 /	33,000			d	III	CP-II	7.00
B-118	Somotillo	- Sruani Limay	68.00	25,049 /	14,724	40,671 /	24,011	400		d	V	CP-II	7.00
B-110-1	Int. Telica	- Larreynaga	6.40	22,400 /	35,500	36,200 /	57,700	300	650	d	III	CP-II	7.00
B-116-1	Puerto Morazan	- Rancherías	19.80	5,900 /	5,800	9,600 /	9,400			d	V	CP-II	7.00

**Annex 10-3(c): Improvement Levels, Basic Function and Service Condition of the Road Network**

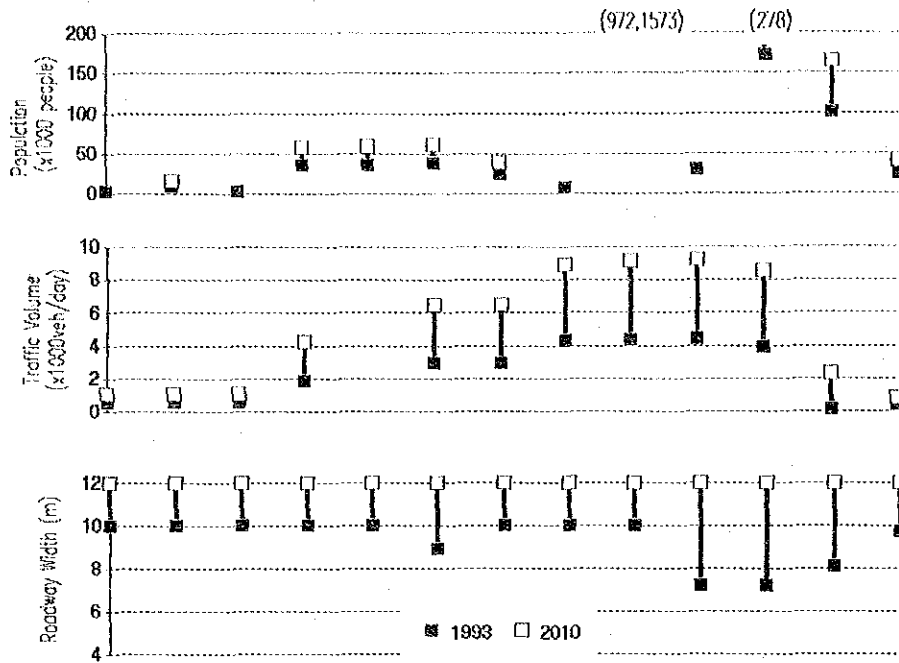
Section	Route		Distance (km)	Population		Traffic Volume		Basic Function	Service Condition (1993)	Improvement	
	From: A	to: B		1993		1993 (veh/day)	2010 (veh/day)			Level (Class)	Width (m)
				A	B						
C-1	Granada	- Mesaya	18.00	91,500 / 102,000	164,700	4,050	8,100	c	III	TP-I	12.00
C-2	Mesaya	- Managua	25.00	102,000 / 972,100	1,573,000	12,150	24,500	a	V	TP-I(s)	23.00
C-101	Esquipules	- Mesatepe	31.50	16,000 / 23,000	37,200			d	V	TS-I	10.00
D-1	San Benito	- Las Banderas	11.70	4,500 / 3,200		1,750	3,500	a	III	TP-I	12.00
D-2	Las Banderas	- San Francisco	50.70	3,200 / 28,500	46,600	1,150	2,300	a	V	TP-I	12.00
D-3	San Francisco	- Lovago	72.00	28,500 / 15,800	25,600	1,150	1,000	a	IV	TP-I	12.00
D-4	Lovago	- La Gateada	54.00	15,800 / 18,000	29,600	550	800	b,c	IV	TS-I	10.00
D-5	La Gateada	- El Rama	71.70	18,000 / 36,900	60,000	400	800	b,c	IV	TS-I	10.00
D-101	Monte Grande	- Boaco	14.00	21,000 / 38,800	63,100	800	1,600	d	V	TP-II	10.00
D-102	Lovago	- Los Chiles	134.50	15,800 /	25,600	150	200	a	V	TP-I	12.00
D-103	La Gateada	- Nueva Guinea	62.50	18,000 / 49,000	79,800			d	III	CP-II	7.00
D-104	Nueva Guinea	- Bluefields	95.20	48,950 / 38,235	79,775					CP-II	7.00
D-101-1	San Francisco	- Camoapa	21.00	28,500 / 28,600	46,500			d	III	CP-II	7.00
D-101-2	Las Lajas	- San Pedro	15.30	4,050 / 4,000				d	III	CP-II	7.00
D-102-1	Santo Tomas	- Santo Domingo	37.20	14,500 / 19,000	23,600			d	III	CP-II	7.00
D-102-2	Int.Acoy L.Ch.	- San Carlos	2.50	16,374 / 1,800	26,619			d	III	CP-II	7.00
D-104-1	Cultra River	- Monkey Point	56.00	14,500 / 19,000	23,600			d	III	CP-II	7.00

**Annex 10-4(a): Improvement Plan and Cost Estimation**

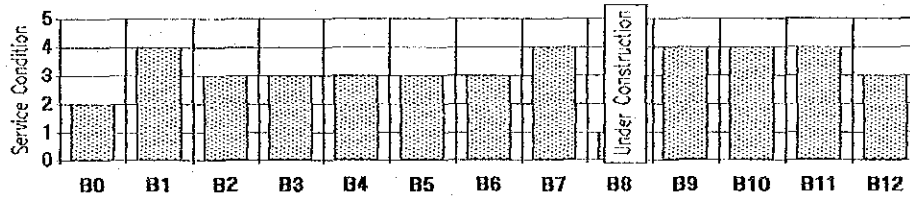


CLASS	TP-4	TP-4	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1
<b>COUNTER-MEASURES</b>											
1) Maintenance:											
Marking											
Signage											
Drainage											
2) Rehabilitation:											
Overlay											
SlopeWorks											
3) Reconstruction:											
From Pavement											
From Base C.											
4) Improvement:											
Widening											
Gravel to Paved											
Earth to Paved											
<b>COST (Unit = 1,000 cordobas)</b>											
1) Maintenance:											
Marking	51	50	51	124	75	206	181	76	175	380	121
Signage	4	4	4	10	6	17	15	6	15	31	10
Drainage	3,822	3,738	3,822				13,608	5,712	13,146	28,476	9,072
2) Rehabilitation:											
Overlay	1,722			3,907	3,126	7,634		2,829			
SlopeWorks											
3) Reconstruction:											
From Pavement							8,489		8,201	17,764	5,659
From Base C.		4,478	4,775								
4) Improvement:											
Widening	1,428	1,300	1,132	4,185	504	3,971	3,506	1,472	3,387	7,336	2,337
Gravel to Paved											
Earth to Paved											
1: Direct Cost	7,027	9,570	9,785	8,226	3,710	11,827	75,799	10,095	24,923	53,987	17,199
2: Indirect Cost (1)x33%	2,319	3,158	3,229	2,715	1,224	3,903	8,514	3,331	8,225	17,816	5,676
3: Engineering Fee (1+2)x10%	935	1,273	1,301	1,094	494	1,573	3,431	1,343	3,315	7,180	2,288
4: TOTAL	10,281	14,001	14,315	12,034	5,428	17,303	87,744	14,769	36,463	78,982	25,163

Annex 10-4(b): Improvement Plan and Cost Estimation

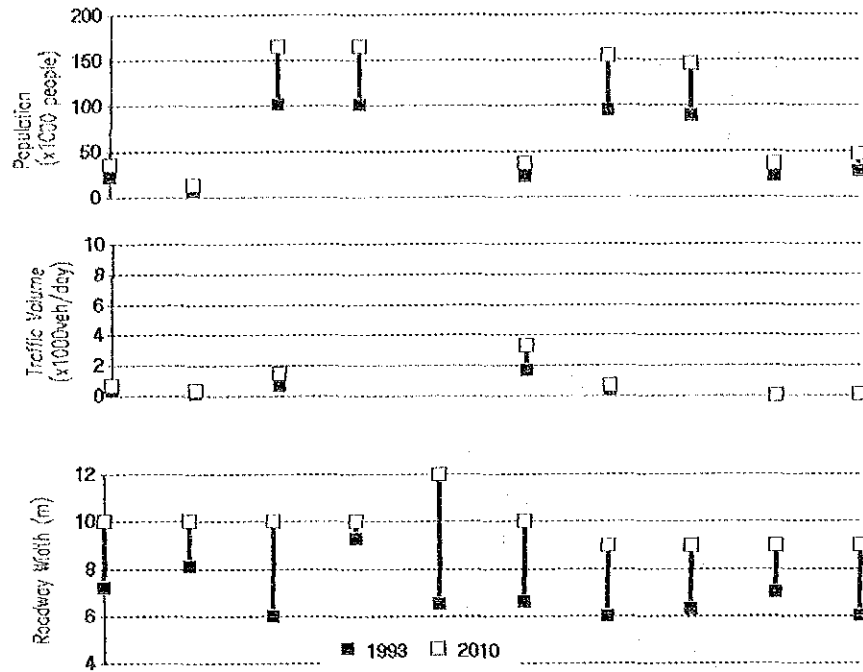


FUNCTION	a	a	a	a	a	a	a	a	a	a	a,b,c	a	a
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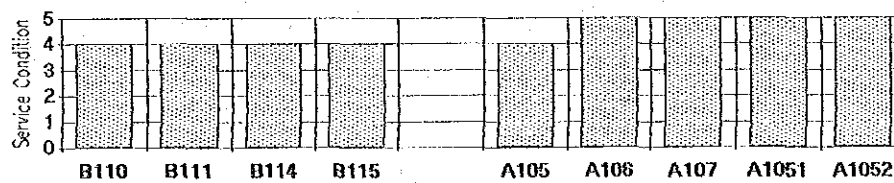


CLASS	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1	TP-1
<b>COUNTER-MEASURES</b>													
1) Maintenance:													
Marking													
Signing													
Drainage													
2) Rehabilitation:													
Overlay													
Slope Works													
3) Reconstruction:													
From Pavement													
From Base C.													
4) Improvement:													
Widening													
Gravel to Paved													
Earth to Paved													
<b>COST (Unit= 1,000 cordobas)</b>													
1) Maintenance:													
Marking	22	117	62	247	101	53	73	86	372	143	224	384	34
Signing	2	10	5	20	8	4	6	7	31	12	19	32	3
Drainage		8,736	4,662			3,990	5,460	6,460	27,888	10,710	16,800	28,770	2,562
2) Rehabilitation:													
Overlay	832		2,309	9,173		1,976			13,811	4,296	6,739		
Slope Works													
3) Reconstruction:													
From Pavement							3,406	4,035				14,537	1,550
From Base C.		11,253			9,738								
4) Improvement:													
Widening	433	2,251	1,201	4,772	1,948	1,028	1,407	1,606	7,185	5,380	8,440	14,453	759
Gravel to Paved													
Earth to Paved													
<b>1: Direct Cost</b>													
	1,289	22,366	8,239	14,212	11,795	7,052	10,351	12,262	49,286	20,541	32,221	58,175	4,908
<b>2: Indirect Cost (1)x33%</b>													
	425	7,381	2,719	4,690	3,892	2,327	3,416	4,047	16,264	6,779	10,633	19,198	1,620
<b>3: Engineering Fee (1+2)x10%</b>													
	171	2,975	1,096	1,890	1,569	938	1,377	1,631	6,555	2,732	4,285	7,737	653
<b>4: TOTAL</b>													
	1,886	32,721	12,054	20,792	17,256	10,316	15,144	17,940	72,781	30,052	47,140	85,110	7,181

Annex 10-4(c) Improvement Plan and Cost Estimation

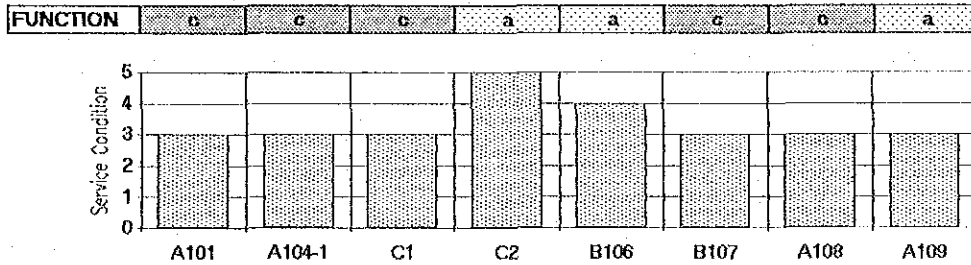
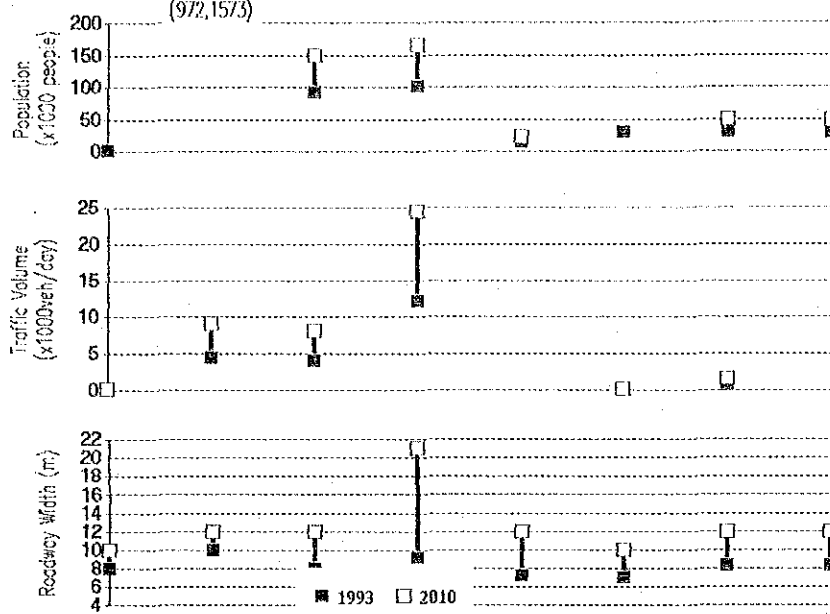


FUNCTION	b,c	b,c	b,c	a	b,c	d	d	b,c	b,p
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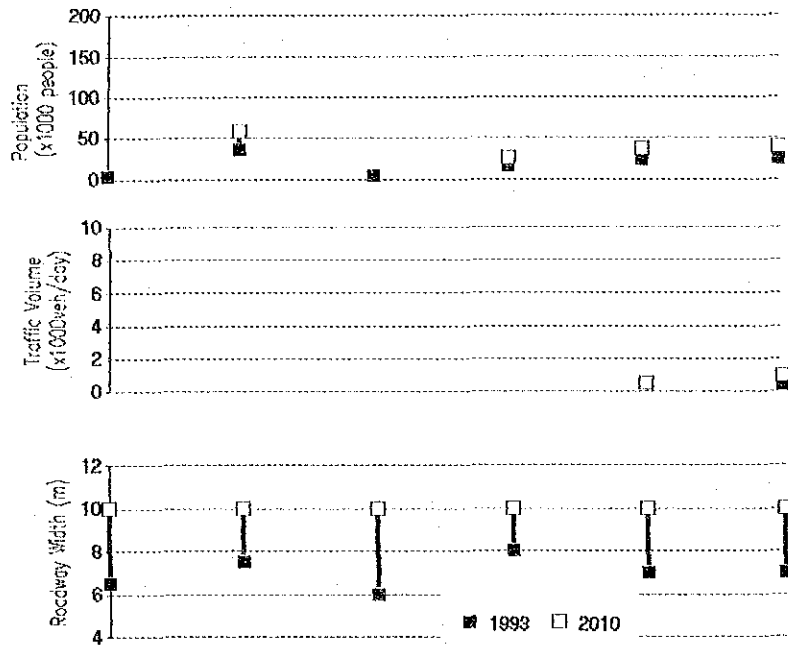
CLASS	TS-I	TS-J	TP-H	TP-I	TP-II	TS-A	TS-B	TS-C	TS-D
<b>COUNTER-MEASURES</b>									
1) Maintenance:									
Marking									
Signage									
Drainage									
2) Rehabilitation:									
Overlay									
SlopeWorks									
3) Reconstruction:									
From Pavement									
From Base C.									
4) Improvement:									
Widening									
Gravel to Paved									
Earth to Paved									
<b>COST (Unit= 1,000 cordobas)</b>									
1) Maintenance:									
Marking	413	129	112	427	151	429	340	648	1,224
Signage	34	11	9	35	12	35	28	54	101
Drainage	30,954	9,702	8,400	32,094	11,298	32,172	25,494	48,594	91,770
2) Rehabilitation:									
Overlay									
SlopeWorks		2,888	2,500	9,525	3,363	9,575	7,588	14,463	27,313
3) Reconstruction:									
From Pavement	13,903	4,902	3,144	12,977	4,652				
From Base C.									
4) Improvement:									
Widening	11,164	2,374	4,328	22,673	4,948	12,432	1,033	12,519	35,463
Gravel to Paved						24,864	20,688		
Earth to Paved								43,816	70,925
<b>1. Direct Cost</b>									
	46,468	20,006	18,493	92,124	24,423	79,508	55,170	120,092	226,795
<b>2. Indirect Cost (1)x33%</b>									
	15,334	6,602	6,103	30,401	8,060	26,238	18,206	39,630	74,842
<b>3. Engineering Fee (1+2)x10%</b>									
	6,180	2,661	2,460	12,253	3,248	10,575	7,338	15,972	30,164
<b>4. TOTAL</b>									
	67,982	29,269	27,056	134,778	35,731	110,320	80,714	175,695	331,801

**Annex 10-4(d): Improvement Plan and Cost Estimation**  
(972,1573)

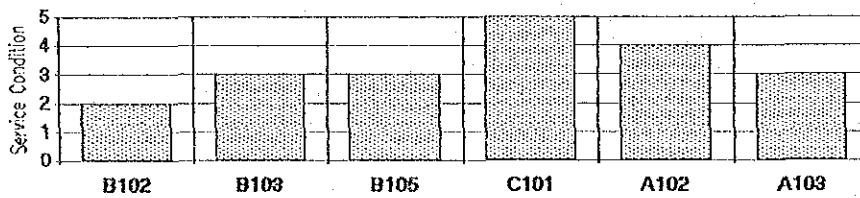


CLASS	TP-I	TP-I	TP-I	TP-Is	TP-II	TP-II	TP-I	TP-I
<b>COUNTER-MEASURES</b>								
1) Maintenance:								
Marking								
Signing								
Drainage								
2) Rehabilitation:								
Overlay								
SlopeWorks								
3) Reconstruction:								
From Pavement								
From BaseC.								
4) Improvement:								
Widening								
Gravel to Paved								
Earth to Paved								
<b>COST (Unit= 1,000 cordobas)</b>								
1) Maintenance:								
Marking	61	118	101	162	337	54	164	134
Signing	5	10	8	13	28	4	14	11
Drainage	4,536	8,820	7,560	12,180	25,247	4,032	12,264	10,080
2) Rehabilitation:								
Overlay	1,797					1,398		4,143
SlopeWorks				3,625	7,513	1,200	3,650	3,000
3) Reconstruction:								
From Pavement		5,502	3,773		11,810		6,350	
From BaseC.				14,434				
4) Improvement:								
Widening	1,169	2,272	3,895	18,513	14,631	1,558	5,845	4,804
Gravel to Paved								
Earth to Paved								
1: Direct Cost	7,567	16,722	15,337	48,928	59,560	8,246	28,287	22,172
2: Indirect Cost (1)x33%	2,497	5,518	5,061	16,146	19,655	2,721	9,335	7,317
3: Engineering Fee (1+2)x10%	1,006	2,224	2,040	6,507	7,922	1,097	3,762	2,949
4: TOTAL	11,071	24,464	22,438	71,581	87,136	12,064	41,384	32,438

Annex 10-4(e): Improvement Plan and Cost Estimation



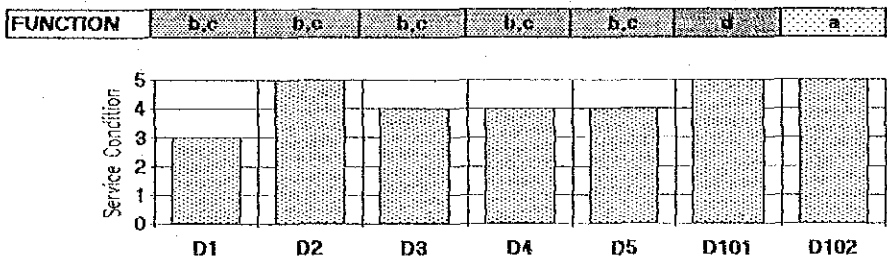
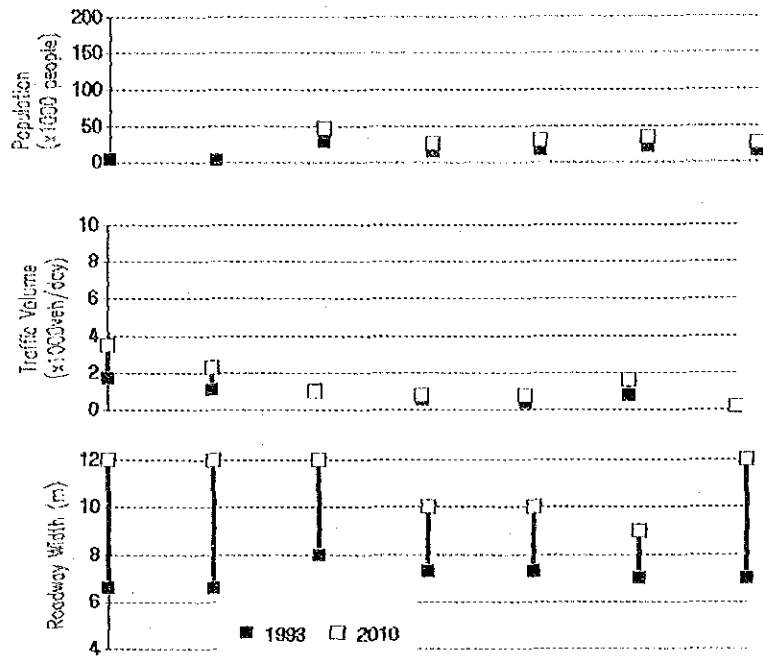
FUNCTION	c	c	c	d	d	d
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CLASS	T5-1	T5-1	T5-1	T5-1	T5-1	T5-1
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COUNTER-MEASURES:						
1) Maintenance:						
Marking						
Signing						
Drainage						
2) Rehabilitation:						
Overlay						
SlopeWorks						
3) Reconstruction:						
From Pavement						
From BaseC.						
4) Improvement:						
Widening						
Gravel to Paved						
Earth to Paved						
COST						
1) Maintenance: (Unit= 1,000 cordobas)						
Marking	103	73	119	176	110	35
Signing	9	6	10	15	9	3
Drainage		5,502	8,906	13,230	3,232	
2) Rehabilitation:						
Overlay			2,658			903
SlopeWorks		1,638	2,663	3,938		
3) Reconstruction:						
From Pavement						
From BaseC.					7,423	
4) Improvement:						
Widening	3,465	1,772	4,609	3,408	3,181	1,006
Gravel to Paved		5,315				
Earth to Paved				13,653		
1. Direct Cost	3,576	14,306	19,005	34,400	18,955	1,946
2. Indirect Cost (1)x33%	1,180	4,721	6,272	11,352	6,255	642
3. Engineering Fee (1+2)x10%	476	1,903	2,528	4,575	2,521	259
4. TOTAL	5,232	20,930	27,805	50,327	27,730	2,848

**Annex 10-4 (f): Improvement Plan and Cost Estimation**



CLASS	TP-I	TP-I	TP-I	TS-I	TS-I	TP-II	TP-I
<b>COUNTER-MEASURES:</b>							
<b>1) Maintenance:</b>							
Marking							
Signing							
Drainage							
<b>2) Rehabilitation:</b>							
Overlay							
SlopeWorks							
<b>3) Reconstruction:</b>							
From Pavement							
From BaseC.							
<b>4) Improvement:</b>							
Widening							
Gravel to Paved							
Earth to Paved							
<b>COST (Unit=1000cordobas)</b>							
<b>1) Maintenance:</b>							
Marking	66	284	403	302	402	78	752
Signing	5	23	33	25	33	7	62
Drainage		21,294	30,240	22,680	30,114	5,880	56,406
<b>2) Rehabilitation:</b>							
Overlay	1,600						
SlopeWorks	1,463	6,338	9,000	6,750	8,963	1,750	16,788
<b>3) Reconstruction:</b>							
From Pavement		8,767	15,091				
From BaseC.				21,326	28,317	5,150	50,859
<b>4) Improvement:</b>							
Widening	3,418	14,811	15,581	7,888	10,473	1,660	36,328
Gravel to Paved							
Earth to Paved							
<b>1: Direct Cost</b>	<b>6,559</b>	<b>51,517</b>	<b>70,348</b>	<b>58,971</b>	<b>78,301</b>	<b>14,532</b>	<b>161,195</b>
<b>2: Indirect Cost (1)x33%</b>	<b>2,104</b>	<b>17,001</b>	<b>23,215</b>	<b>19,461</b>	<b>25,839</b>	<b>4,795</b>	<b>53,194</b>
<b>3: Engineering Fee (1+2)x10%</b>	<b>872</b>	<b>6,852</b>	<b>9,356</b>	<b>7,843</b>	<b>10,414</b>	<b>1,933</b>	<b>21,439</b>
<b>4: TOTAL</b>	<b>9,595</b>	<b>45,370</b>	<b>102,919</b>	<b>86,275</b>	<b>114,554</b>	<b>21,260</b>	<b>235,828</b>



**Annex 10-5 Replacing or Reinforcing of Existing Bridges**

Section	Bridge Name	Length (m)	Width (m)	Route	Number of Bridges	Type	Cost (1000C\$)
A-1	El Arroyo N°1	20	7	4	8	Viga-T	3,000
A-107-2	Salida a Achuapa	13	3	38	1	Viga-T	2,500
A-107-2	Walilika	25	4	38	2	Viga-T	6,500
A-107-2	Coyolara	17	4	38	5	Viga-T	5,000
B-0	Ostayo	48	8	2	40	Viga-T	8,000
B-1	Nacascolo	31	8	2	36	Viga-T	6,000
B-1	Limón	49	8	2	32	Viga-T	10,700
B-11	Río Negro	172	7	24	5	Viga-T	25,000
B-11	Mata Grande	65	7	24	7	Viga-T	13,000
B-11	Estero Real	58	7	24	11	Viga-T	12,000
B-11	El Guarumo	60	7	24	13	Viga-T	12,000
B-12	El Galb	33	7	24	3	Viga-T	5,000
B-115	Puente Central	43	8	12	30	Viga-T	8,000
C-2	La Morita	9	7	4	1	LosaCo.	1,500
C-2	El Arroyo	13	7	4	2	Viga-T	6,000
B-2	Las Lajas	46	7	2	30	Cercha	7,000
A-6	Las Maderas	72	10	1	10	Cercha	41,000
A-7	Sebaco	51	7	1	21	Cercha	61,000
D-3	La Tonga	106	6	7	19	Cercha	10,000
D-1	Las Banderas	120	6	7	1	Cercha	12,000
<b>Total</b>		<b>1,051</b>					<b>257,200</b>



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