

SONORA

No. INDICE	CARRETERA	ruta
---RED FEDERAL LIBRE---		
1	Hermosillo - Yécora	MEX-016
2	Imuris - Agua Prieta	MEX-002
3	Janos - Agua Prieta	MEX-002
4	La Junta - Yécora	MEX-016
5	Moctezuma - Agua Prieta	MEX-017
6	Ramal a Naco	MEX-002
7	Ramal a Puerta de México	MEX-002
8	Sonoita - Mexicali	MEX-002
9	Sonoita - Puerto Peñasco	MEX-002
---RED FEDERAL DE CUOTA---		
10	Libramiento de Empalme - Guaymas (Cuota)	MEX-015D
11	Libramiento de Nogales (Cuota)	MEX-15D
12	Los Mochis - Cd. Obregón (Cuota)	MEX-015D
---RED FEDERAL INTEGRADA POR TRAMOS LIBRES Y DE CUOTA---		
13	Cd. Obregón - Hermosillo	MEX-015D-015
14	Hermosillo - Nogales	MEX-015D-015
15	Santa Ana - Sonoita	MEX-002D-MEX
---RED ESTATAL LIBRE---		
16	Altar - Sáríc	SON-064
17	Caborca - El Desemboque	SON-037
18	Calle 36 Norte - Puerto de La Libertad	SON-029
19	Esperanza - Presa Álvaro Obregón	SON-117
20	Hermosillo - Bahía Kino	SON-100
21	Hermosillo - Sahuaripa	SON-020
22	Hornos - San Nicolás	SON-012
23	Huatabampo - Bacabachi	SON-176
24	La Alameda - El Sahuaro	SON-037
25	Mazocahui - Cananea	SON-118
26	Navojoa - Álamos	SON-013
27	Navojoa - Yavaros	SON-056
28	Nogales - San Antonio	SON
29	Ramal a Aeropuerto de Guaymas	SON
30	San Luis Río Colorado - Golfo de Santa Clara	SON-040
31	Sonoita - Pitiquito	SON
---CARRETERAS INTEGRADAS POR TRAMOS FEDERALES Y ESTATALES---		
32	T. C. (Hermosillo - Nogales) - Huásabas	MEX-014-SON

26 SONORA

SECRETARÍA DE COMUNICACIONES Y TRANSPORTES
DIRECCIÓN GENERAL DE SERVICIOS TÉCNICOS

① Número Índice 2012

Red Federal Libre

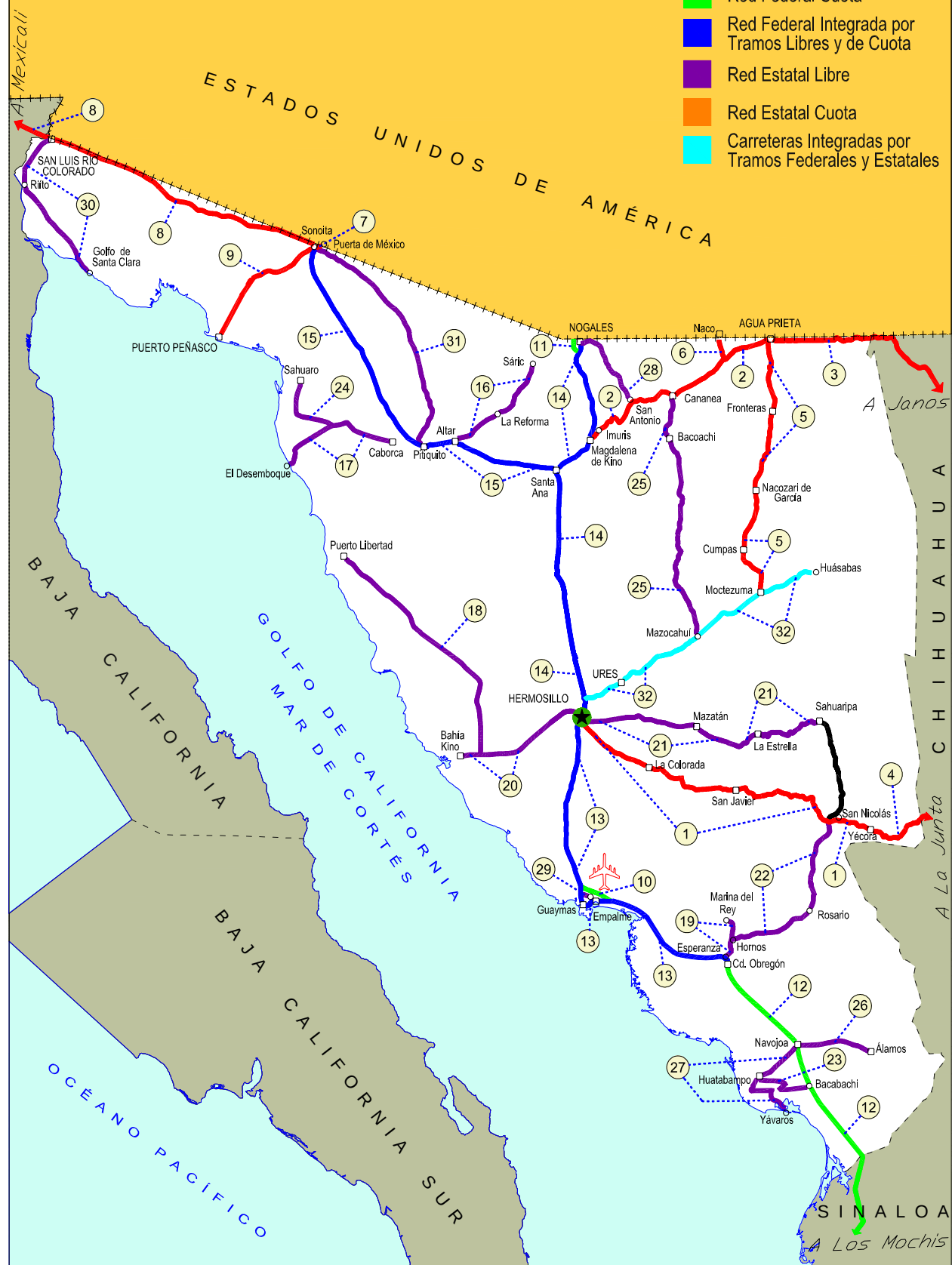
Red Federal Cuota

Red Federal Integrada por
Tramos Libres y de Cuota

Red Estatal Libre

Red Estatal Cuota

Carreteras Integradas por
Tramos Federales y Estatales



SONORA

1 C A R R : Hermosillo - Yécora

CLAVE: 26251

RUTA: MEX-016

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Cd. Obregón - Hermosillo	0.00																			
T. Izq. Sahuaripa	4.00	3	1	4926	1.1	77.5	3.0	8.5	3.0	3.8	1.8	0.6	0.7	78.6	3.0	18.4	0.119	0.516	29.005005	-110.913089
T. Izq. Sahuaripa	4.00	3	2	5253	1.1	75.5	3.5	9.5	3.1	4.1	1.9	0.5	0.8	76.6	3.5	19.9	0.104	0.516	29.005088	-110.912995
La Colorada	47.00	3	0	815	0.1	71.5	5.0	9.1	4.4	6.1	2.6	0.6	0.6	71.6	5.0	23.4	0.085	0.503	28.809688	-110.575557
Tecoripa	138.00	3	0	563	0.1	68.9	5.3	12.6	6.0	5.6	1.4	0.0	0.1	69.0	5.3	25.7	0.080	0.508	28.621190	-109.944930
Yécora	250.60																			

2 C A R R : Imuris - Agua Prieta

CLAVE: 26079

RUTA: MEX-002

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Imuris	0.00	3	0	2895	0.6	57.1	3.5	7.3	2.0	19.7	4.0	4.8	1.0	57.7	3.5	38.8	0.073	0.504	30.801568	-110.827725
T. Der. Cananea	80.93	1	0	5346	0.3	64.7	3.4	7.8	2.5	13.8	3.1	3.7	0.7	65.0	3.4	31.6	0.072	0.505	30.997139	-110.289396
T. Der. Cananea	80.93	3	0	6511	0.3	70.0	2.3	7.0	3.5	11.1	2.3	2.9	0.6	70.3	2.3	27.4	0.069	0.509	30.992602	-110.258417
Agua Prieta	164.67	1	0	4082	0.5	61.8	2.6	8.1	1.6	16.4	3.6	4.6	0.8	62.3	2.6	35.1	0.073	0.516	31.311765	-109.589085

3 C A R R : Janos - Agua Prieta

CLAVE: 00220

RUTA: MEX-002

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Cd. Juárez - Janos	0.00	3	0	3262	0.4	58.8	2.7	6.6	1.3	19.9	3.9	5.4	1.0	59.2	2.7	38.1	0.078	0.506	30.889899	-108.210719
Los Mimbres	56.00	3	0	1611	0.8	55.2	2.0	7.7	2.3	19.8	4.2	6.9	1.1	56.0	2.0	42.0	0.073	0.509	31.272106	-108.615866
Lim. Edos. Term. Chih. Ppia. Son.	78.00																			
Agua Prieta	160.00	1	0	2485	0.7	55.2	2.3	7.0	1.7	20.0	4.6	7.5	1.0	55.9	2.3	41.8	0.072	0.501	31.321378	-109.509807

4 C A R R : La Junta - Yécora

CLAVE: 00065

RUTA: MEX-016

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Chihuahua - Madera	0.00	3	0	3974	0.3	76.2	2.0	13.6	1.6	4.1	1.2	0.3	0.7	76.5	2.0	21.5	0.096	0.505	28.474296	-107.317532
T. Izq. San Juanito	16.00	1	0	2125	0.2	69.3	2.6	17.5	2.8	4.8	1.7	0.3	0.8	69.5	2.6	27.9	0.107	0.500	28.387766	-107.438907
T. Izq. San Juanito	16.00	3	0	1104	0.4	68.6	2.0	18.7	2.9	3.9	2.5	0.3	0.7	69.0	2.0	29.0	0.105	0.501	28.390918	-107.442287
Tonachi	70.00	3	0	979	0.7	68.8	3.1	16.3	3.4	4.7	2.4	0.3	0.3	69.5	3.1	27.4	0.109	0.501	28.401905	-107.507512
Lim. Edos. Term. Chih. Ppia. Son.	190.00																			
Yécora	253.00	1	0	875	0.4	85.8	3.0	6.4	1.5	2.0	0.5	0.1	0.3	86.2	3.0	10.8	0.094	0.541	28.368593	-108.917168

SONORA

5	C A R R : Moctezuma - Agua Prieta				CLAVE: 26027										RUTA : MEX-017				AÑO : 2011	
L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Moctezuma	0.00	3	0	2159	0.8	80.2	2.3	8.0	1.3	2.7	1.7	2.3	0.7	81.0	2.3	16.7	0.100	0.502	29.823022	-109.677261
Nacozari de García	81.00	3	0	1688	0.4	79.4	1.9	9.7	1.6	3.4	1.1	1.9	0.6	79.8	1.9	18.3	0.074	0.520	30.392359	-109.697420
Turicachi	111.00	1	0	1802	0.5	74.7	2.7	10.0	1.6	5.1	2.9	2.0	0.5	75.2	2.7	22.1	0.083	0.517	30.659892	-109.596308
T. C. Imuris - Agua Prieta	197.60	1	0	3853	0.8	73.5	1.6	14.1	1.6	5.1	1.5	1.1	0.7	74.3	1.6	24.1	0.080	0.513	31.312149	-109.581322
6 C A R R : Ramal a Naco				CLAVE: 26579										RUTA : MEX-002				AÑO : 2011		
L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Imuris - Agua Prieta	0.00	3	0	1276	0.1	84.0	4.9	7.7	1.0	1.7	0.5	0.0	0.1	84.1	4.9	11.0	0.092	0.529	31.205897	-109.908480
Naco	14.00																			
7 C A R R : Ramal a Puerta de México				CLAVE: 26577										RUTA : MEX-002				AÑO : 2011		
L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Sonoita - Mexicali	0.00	3	0	10648	0.6	87.4	3.6	3.6	0.3	3.2	0.6	0.3	0.4	88.0	3.6	8.4	0.079	0.502	31.867432	-112.834122
Frontera E.U.A	3.30																			
8 C A R R : Sonoita - Mexicali				CLAVE: 00081										RUTA : MEX-002				AÑO : 2011		
L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Sonoita	0.00	3	0	4761	1.5	62.5	4.1	6.2	2.8	15.9	3.3	3.1	0.6	64.0	4.1	31.9	0.057	0.502	31.875623	-112.851162
Los Vidrios	58.75	3	0	3017	1.0	48.5	6.2	6.8	5.4	21.6	4.5	5.3	0.7	49.5	6.2	44.3	0.060	0.509	32.027547	-113.423918
San Luis Río Colorado	191.80	1	0	3454	0.6	51.6	5.5	6.4	3.5	23.4	3.5	4.6	0.9	52.2	5.5	42.3	0.063	0.510	32.452747	-114.680903
San Luis Río Colorado	191.80	3	1	8361	0.4	54.7	5.5	6.1	3.3	21.7	3.4	4.2	0.7	55.1	5.5	39.4	0.068	0.516	32.488586	-114.798058
San Luis Río Colorado	191.80	3	2	8919	0.4	50.8	6.0	7.0	3.6	22.7	3.7	5.0	0.8	51.2	6.0	42.8	0.065	0.516	32.488547	-114.798019
Lim. Edos. Term. Son. Ppia. B.C.	203.69																			
X. C. Mexicali - Algodones	206.78	1	1	9496	0.7	85.3	0.9	5.8	0.8	4.1	1.0	0.7	0.7	86.0	0.9	13.1	0.070	0.513	32.498223	-114.829950
X. C. Mexicali - Algodones	206.78	1	2	9995	0.4	83.6	1.0	6.6	1.0	4.7	1.2	0.8	0.7	84.0	1.0	15.0	0.068	0.513	32.498251	-114.829953
X. C. Mexicali - Algodones	206.78	3	1	7708	0.3	80.5	2.0	7.4	0.8	6.2	1.0	1.2	0.6	80.8	2.0	17.2	0.070	0.513	32.506393	-114.857398
X. C. Mexicali - Algodones	206.78	3	2	8120	0.3	79.5	2.4	7.4	0.8	6.6	1.1	1.3	0.6	79.8	2.4	17.8	0.067	0.513	32.506393	-114.857398
T. Izq. Ejido Hermosillo	214.80	3	1	6544	0.2	80.0	2.5	5.8	1.2	7.1	1.2	1.4	0.6	80.2	2.5	17.3	0.065	0.517	32.527531	-114.928575
T. Izq. Ejido Hermosillo	214.80	3	2	7016	0.2	77.8	2.7	6.7	1.3	7.8	1.3	1.6	0.6	78.0	2.7	19.3	0.065	0.517	32.527526	-114.928587

SONORA

8 C A R R : Sonoita - Mexicali

CLAVE: 00081

RUTA: MEX-002

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Ejido Monterrey	228.63	3	1	8753	0.2	62.7	3.2	8.9	3.7	12.3	3.1	4.8	1.1	62.9	3.2	33.9	0.072	0.509	32.552038	-115.087585
Ejido Monterrey	228.63	3	2	9089	0.2	59.5	3.6	9.3	4.0	13.6	3.7	4.9	1.2	59.7	3.6	36.7	0.070	0.509	32.552040	-115.087589
X. C. Mexicali - Algodones	256.47	1	1	12562	0.4	72.7	3.0	4.1	2.5	10.8	2.2	3.4	0.9	73.1	3.0	23.9	0.066	0.502	32.567634	-115.332449
X. C. Mexicali - Algodones	256.47	1	2	12640	0.5	69.4	3.5	4.6	2.8	11.6	2.5	4.0	1.1	69.9	3.5	26.6	0.069	0.502	32.567642	-115.332452
T. C. Mexicali - San Felipe	265.12																			

9 C A R R : Sonoita - Puerto Peñasco

CLAVE: 26232

RUTA: MEX-002

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Sonoita	0.00	3	0	1812	0.8	84.4	2.9	5.7	1.7	3.2	0.6	0.5	0.2	85.2	2.9	11.9	0.108	0.520	31.862170	-112.879124
Puerto Peñasco	100.40																			

10 C A R R : Libramiento de Empalme - Guaymas (Cuota)

CLAVE: 26256

RUTA: MEX-015D

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Cd. Obregón - Hermosillo	0.00	3	1	3118	1.2	63.3	5.6	8.4	3.2	9.6	3.5	4.3	0.9	64.5	5.6	29.9	0.073	0.510	27.957707	-110.755287
T. C. Cd. Obregón - Hermosillo	0.00	3	2	3244	0.7	60.2	5.8	9.1	3.4	10.8	4.1	4.7	1.2	60.9	5.8	33.3	0.068	0.510	27.957691	-110.755233
T. C. Cd. Obregón - Hermosillo	21.50	1	1	2981	0.4	61.2	6.4	9.8	2.6	11.4	2.6	4.8	0.8	61.6	6.4	32.0	0.075	0.509	28.038371	-110.933779
T. C. Cd. Obregón - Hermosillo	21.50	1	2	3090	0.5	57.2	7.2	11.2	2.7	12.6	2.7	5.0	0.9	57.7	7.2	35.1	0.072	0.509	28.038195	-110.933812

11 C A R R : Libramiento de Nogales (Cuota)

CLAVE: 26100

RUTA: MEX-15D

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Hermosillo - Nogales	0.00	3	1	2821	0.6	65.3	1.3	10.0	4.0	16.4	1.2	0.5	0.7	65.9	1.3	32.8	0.144	0.525	31.235335	-110.968329
T. C. Hermosillo - Nogales	0.00	3	2	3112	0.4	63.7	1.5	10.4	4.4	17.2	1.2	0.4	0.8	64.1	1.5	34.4	0.111	0.525	31.235331	-110.968314
Caseta de Cobro Nogales	4.50	2	1	1840	0.0	26.4	0.0	7.0	3.7	62.8	0.1	0.0	0.0	26.4	0.0	73.6	0.128	0.525	31.247637	-110.972542
Caseta de Cobro Nogales	4.50	2	2	2029	0.0	26.4	0.0	7.0	3.7	62.8	0.1	0.0	0.0	26.4	0.0	73.6	0.128	0.525	31.247637	-110.972542
Frontera E.U.A.	12.50	1	1	1377	0.9	52.9	1.3	12.8	2.7	25.3	1.9	0.8	1.4	53.8	1.3	44.9	0.123	0.541	31.327903	-110.968288
Frontera E.U.A.	12.50	1	2	1623	1.1	46.8	1.5	13.3	3.1	29.9	2.1	0.7	1.5	47.9	1.5	50.6	0.123	0.541	31.327938	-110.968223

SONORA

12 C A R R : Los Mochis - Cd. Obregón (Cuota)

CLAVE: 00452

RUTA: MEX-015D

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Topolobampo - Choix	0.00	3	1	7679	1.6	77.6	1.1	5.9	3.0	6.4	2.1	1.5	0.8	79.2	1.1	19.7	0.063	0.519	25.834402	-108.973724
T. C. Topolobampo - Choix	0.00	3	2	7129	1.7	75.6	1.2	6.6	3.4	6.7	2.3	1.6	0.9	77.3	1.2	21.5	0.070	0.519	25.834356	-108.973775
T. Izq. Ahome	17.13	3	1	7341	2.3	75.3	2.1	6.6	2.5	6.8	1.8	1.8	0.8	77.6	2.1	20.3	0.065	0.504	25.944349	-109.052875
T. Izq. Ahome	17.13	3	2	7474	2.3	73.3	2.4	7.1	2.8	7.2	2.0	2.0	0.9	75.6	2.4	22.0	0.066	0.504	25.944351	-109.052992
T. Izq. Coahuilbampo	19.00	1	1	5931	4.9	71.9	1.9	6.8	2.9	6.7	2.1	1.9	0.9	76.8	1.9	21.3	0.063	0.524	25.958122	-109.053507
T. Izq. Coahuilbampo	19.00	1	2	6516	4.4	69.9	2.2	8.1	3.1	7.2	2.2	2.0	0.9	74.3	2.2	23.5	0.062	0.524	25.958148	-109.053633
T. Izq. Coahuilbampo	19.00	3	1	5954	5.2	70.7	2.3	6.8	3.0	6.9	2.4	1.9	0.8	75.9	2.3	21.8	0.062	0.508	25.961286	-109.052974
T. Izq. Coahuilbampo	19.00	3	2	6148	5.3	68.3	2.6	7.5	3.3	7.4	2.7	1.9	1.0	73.6	2.6	23.8	0.063	0.508	25.961289	-109.052945
Poblado Chico	50.00	3	1	4626	3.7	72.0	2.4	7.0	2.5	7.6	2.1	1.8	0.9	75.7	2.4	21.9	0.074	0.511	26.230192	-109.053726
Poblado Chico	50.00	3	2	4420	1.8	71.7	2.7	8.0	2.7	7.9	2.3	2.0	0.9	73.5	2.7	23.8	0.060	0.511	26.230188	-109.053706
T. Der. El Fuerte	54.80	1	1	4380	1.6	74.0	2.0	7.5	2.8	7.5	2.1	1.7	0.8	75.6	2.0	22.4	0.067	0.510	26.260121	-109.045449
T. Der. El Fuerte	54.80	1	2	4562	1.4	70.9	2.2	8.5	3.2	8.4	2.5	2.0	0.9	72.3	2.2	25.5	0.064	0.510	26.260116	-109.045449
T. Der. El Fuerte	54.80	3	1	5139	0.6	75.6	1.7	7.7	2.6	7.0	2.3	1.7	0.8	76.2	1.7	22.1	0.067	0.533	26.270764	-109.042175
T. Der. El Fuerte	54.80	3	2	5877	0.9	72.9	1.9	8.6	2.9	7.2	2.6	2.0	1.0	73.8	1.9	24.3	0.062	0.533	26.270734	-109.042188
Lim. Edos. Term. Sin. Ppia. Son.	69.80																			
T. Izq. Huatabampo	128.50	1	1	2805	1.3	74.4	2.4	7.2	3.0	6.9	1.9	1.8	1.1	75.7	2.4	21.9	0.066	0.523	26.831930	-109.363347
T. Izq. Huatabampo	128.50	1	2	3070	1.2	73.2	2.7	7.4	3.0	7.3	2.1	2.0	1.1	74.4	2.7	22.9	0.065	0.523	26.831923	-109.363341
Caseta de Cobro Estacion Don (La Jaula)	129.90	2	1	2160	0.1	49.5	9.7	4.2	4.2	22.0	2.7	6.7	0.9	49.6	9.7	40.7	0.066	0.523	26.849800	-109.373287
Caseta de Cobro Estacion Don (La Jaula)	129.90	2	2	2365	0.1	49.5	9.7	4.2	4.2	22.0	2.7	6.7	0.9	49.6	9.7	40.7	0.066	0.523	26.849800	-109.373287
Navojoa	155.00	1	1	5608	3.7	68.7	3.3	8.8	4.0	6.1	2.4	2.0	1.0	72.4	3.3	24.3	0.086	0.506	27.040796	-109.436800
Navojoa	155.00	1	2	5743	3.3	66.0	3.5	9.9	4.3	7.2	2.8	2.0	1.0	69.3	3.5	27.2	0.113	0.506	27.040802	-109.436774
Navojoa	155.00	3	1	7294	3.9	67.2	4.0	10.3	3.1	6.3	2.8	1.7	0.7	71.1	4.0	24.9	0.076	0.503	27.119218	-109.461323
Navojoa	155.00	3	2	7371	3.8	64.2	4.4	11.0	3.2	7.6	3.1	1.8	0.9	68.0	4.4	27.6	0.070	0.503	27.119267	-109.461290
T. Izq. Villa Juárez	167.25	3	1	4988	1.2	71.6	4.0	8.9	3.9	6.6	2.0	1.2	0.6	72.8	4.0	23.2	0.071	0.503	27.155727	-109.507912
T. Izq. Villa Juárez	167.25	3	2	5056	1.8	69.3	4.4	9.5	4.1	6.9	2.1	1.3	0.6	71.1	4.4	24.5	0.073	0.503	27.155733	-109.507944
Caseta de Cobro Fundición	195.80	2	1	2804	0.1	57.2	8.7	4.3	3.4	17.7	2.0	5.9	0.7	57.3	8.7	34.0	0.072	0.508	27.320379	-109.719785
Caseta de Cobro Fundición	195.80	2	2	2897	0.1	57.2	8.7	4.3	3.4	17.7	2.0	5.9	0.7	57.3	8.7	34.0	0.072	0.508	27.320379	-109.719785
T. Der. Fundición	196.30	1	1	4120	0.9	73.3	3.1	8.4	3.4	6.0	2.4	1.7	0.8	74.2	3.1	22.7	0.080	0.508	27.327121	-109.727971
T. Der. Fundición	196.30	1	2	4258	1.5	69.5	3.7	9.4	4.1	6.5	2.6	1.8	0.9	71.0	3.7	25.3	0.063	0.508	27.326996	-109.728043
Cd. Obregón	222.70	1	1	11728	3.5	68.9	4.4	9.2	3.5	6.3	2.2	1.4	0.6	72.4	4.4	23.2	0.088	0.502	27.462404	-109.902893
Cd. Obregón	222.70	1	2	11842	2.2	66.8	5.0	10.9	3.6	6.8	2.5	1.5	0.7	69.0	5.0	26.0	0.084	0.502	27.462390	-109.902901

SONORA

13 C A R R : Cd. Obregón - Hermosillo

CLAVE: 26444

ruta: MEX-015D-015

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Cd. Obregón	0.00																			
Esperanza	7.96	1	1	9128	1.0	65.2	5.8	8.8	2.8	8.4	3.2	3.0	1.8	66.2	5.8	28.0	0.068	0.512	27.575580	-109.927029
Esperanza	7.96	1	2	9595	1.7	60.0	6.3	10.7	3.0	9.8	3.4	3.1	2.0	61.7	6.3	32.0	0.065	0.512	27.575559	-109.927305
Esperanza	7.96	3	1	4619	1.6	57.2	7.2	10.4	5.0	9.6	4.1	3.4	1.5	58.8	7.2	34.0	0.057	0.534	27.586774	-109.927322
Esperanza	7.96	3	2	5286	1.0	54.0	7.5	11.2	5.9	10.6	4.3	3.9	1.6	55.0	7.5	37.5	0.056	0.534	27.586778	-109.927281
Caseta de Cobro Esperanza	10.70	2	1	2187	0.1	50.8	11.3	3.9	3.5	20.7	2.1	6.8	0.8	50.9	11.3	37.8	0.062	0.534	27.603715	-109.939118
Caseta de Cobro Esperanza	10.70	2	2	2502	0.1	50.8	11.3	3.9	3.5	20.7	2.1	6.8	0.8	50.9	11.3	37.8	0.062	0.534	27.603715	-109.939118
T. Der. Estación Corral	13.80	1	1	3674	0.8	54.6	6.8	11.5	4.3	12.9	3.7	4.8	0.6	55.4	6.8	37.8	0.057	0.510	27.616212	-109.951837
T. Der. Estación Corral	13.80	1	2	3818	1.2	58.6	6.2	10.8	3.8	10.9	3.4	4.5	0.6	59.8	6.2	34.0	0.061	0.510	27.616223	-109.951841
T. Der. Estación Corral	13.80	3	1	3146	1.2	55.4	8.6	9.3	4.2	10.6	4.6	4.4	1.7	56.6	8.6	34.8	0.070	0.528	27.618312	-109.963774
T. Der. Estación Corral	13.80	3	2	3513	0.8	52.5	8.7	9.8	4.8	11.4	5.1	5.1	1.8	53.3	8.7	38.0	0.061	0.528	27.618273	-109.963785
T. Izq. BÁCUM	25.46	1	1	2920	0.8	58.2	5.3	9.5	5.3	11.5	3.9	4.5	1.0	59.0	5.3	35.7	0.068	0.511	27.598949	-110.076352
T. Izq. BÁCUM	25.46	1	2	3046	0.2	54.9	5.8	10.5	6.2	12.2	4.2	4.8	1.2	55.1	5.8	39.1	0.072	0.511	27.598968	-110.076368
T. Izq. BÁCUM	25.46	3	1	4609	0.4	63.9	6.5	10.5	3.3	9.0	2.9	2.9	0.6	64.3	6.5	29.2	0.073	0.515	27.597633	-110.088215
T. Izq. BÁCUM	25.46	3	2	4886	0.4	59.6	7.4	11.6	3.3	10.7	3.0	3.4	0.6	60.0	7.4	32.6	0.080	0.515	27.597631	-110.088216
VÍCAM	47.28	3	1	5007	1.6	68.6	5.8	8.0	2.4	7.1	3.1	2.8	0.6	70.2	5.8	24.0	0.073	0.512	27.645959	-110.303744
VÍCAM	47.28	3	2	5247	5.0	62.9	6.4	8.7	2.4	7.8	3.3	2.9	0.6	67.9	6.4	25.7	0.078	0.512	27.645964	-110.303743
T. Izq. PÓTAM	57.40	1	1	4495	0.8	66.6	6.5	10.0	2.2	7.4	3.0	2.8	0.7	67.4	6.5	26.1	0.080	0.511	27.696562	-110.365544
T. Izq. PÓTAM	57.40	1	2	4687	0.5	62.5	7.5	11.4	2.5	8.3	3.4	3.1	0.8	63.0	7.5	29.5	0.087	0.511	27.696565	-110.365504
T. Izq. PÓTAM	57.40	3	1	4281	4.2	62.5	7.0	9.2	2.4	8.6	2.2	3.1	0.8	66.7	7.0	26.3	0.070	0.504	27.703991	-110.370654
T. Izq. PÓTAM	57.40	3	2	4340	0.5	62.5	7.5	10.4	2.8	9.4	2.5	3.5	0.9	63.0	7.5	29.5	0.091	0.504	27.704011	-110.370657
T. Der. Libramiento de Guaymas	107.80	1	1	5771	2.4	64.5	6.2	11.2	2.8	7.8	2.2	2.1	0.8	66.9	6.2	26.9	0.060	0.509	27.951386	-110.740872
T. Der. Libramiento de Guaymas	107.80	1	2	5973	0.6	63.9	6.8	12.2	2.8	8.2	2.4	2.2	0.9	64.5	6.8	28.7	0.072	0.509	27.951390	-110.740917
T. Der. Libramiento de Guaymas	107.80	3	0	5579	0.7	73.6	6.6	8.6	2.4	5.1	1.9	0.8	0.3	74.3	6.6	19.1	0.069	0.506	27.951963	-110.756228
Empalme	115.02	1	0	5967	1.1	71.7	5.8	9.2	2.3	6.4	2.3	0.7	0.5	72.8	5.8	21.4	0.079	0.503	27.952843	-110.803734
Empalme	115.02	3	1	7856	1.6	77.0	4.4	8.0	1.8	4.9	1.5	0.5	0.3	78.6	4.4	17.0	0.094	0.505	27.955707	-110.831217
Empalme	115.02	3	2	8013	1.3	76.3	4.9	8.1	1.9	5.0	1.7	0.5	0.3	77.6	4.9	17.5	0.077	0.505	27.955739	-110.831208
T. Izq. San Carlos	133.00	1	1	6501	1.2	74.6	3.6	9.9	1.9	5.0	1.6	1.7	0.5	75.8	3.6	20.6	0.064	0.505	27.983153	-110.939900
T. Izq. San Carlos	133.00	1	2	6365	1.1	72.1	3.8	11.0	2.3	5.6	1.7	1.9	0.5	73.2	3.8	23.0	0.071	0.505	27.983151	-110.940011
T. Izq. San Carlos	133.00	3	1	3275	1.1	70.6	4.3	11.6	3.4	4.6	1.9	1.8	0.7	71.7	4.3	24.0	0.084	0.506	27.993254	-110.939786
T. Izq. San Carlos	133.00	3	2	3338	1.0	68.1	4.7	12.4	3.6	5.3	2.1	2.1	0.7	69.1	4.7	26.2	0.073	0.506	27.993246	-110.939791
T. Izq. Bahía Kino	171.30	1	1	5107	0.4	63.2	6.2	11.7	3.3	9.3	2.3	2.7	0.9	63.6	6.2	30.2	0.089	0.506	28.312329	-111.041687
T. Izq. Bahía Kino	171.30	1	2	5211	1.6	60.7	6.3	11.9	3.3	9.7	2.5	3.0	1.0	62.3	6.3	31.4	0.075	0.506	28.312313	-111.041679
T. Izq. Bahía Kino	171.30	3	1	4429	0.6	62.9	6.2	12.1	3.0	9.2	2.3	3.0	0.7	63.5	6.2	30.3	0.100	0.501	28.322207	-111.041827
T. Izq. Bahía Kino	171.30	3	2	4421	1.6	58.5	7.0	13.2	3.1	10.2	2.5	3.0	0.9	60.1	7.0	32.9	0.085	0.501	28.322211	-111.042090

SONORA

13 C A R R : Cd. Obregón - Hermosillo					CLAVE: 26444					RUTA: MEX-015D-015					AÑO : 2011						
L U G A R		E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
		KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Hermosillo		251.00	1	1	5975	0.8	64.9	5.3	11.9	2.9	8.4	2.3	2.6	0.9	65.7	5.3	29.0	0.102	0.500	29.006400	-110.965641
Hermosillo		251.00	1	2	5952	1.9	61.6	6.1	11.9	2.8	9.5	2.5	2.7	1.0	63.5	6.1	30.4	0.076	0.500	29.006483	-110.965860

14 C A R R : Hermosillo - Nogales					CLAVE: 26445										RUTA: MEX-015D-015					AÑO : 2011				
L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R										E N P O R C I E N T O					C O O R D E N A D A S				
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD				
Hermosillo	0.00	3	1	14435	0.3	78.4	5.9	9.5	1.0	3.1	0.8	0.7	0.3	78.7	5.9	15.4	0.082	0.504	29.110160	-110.912142				
Hermosillo	0.00	3	2	14207	0.6	75.9	6.6	10.5	1.2	3.4	0.8	0.7	0.3	76.5	6.6	16.9	0.094	0.504	29.110163	-110.912127				
T. Der. Ures	8.60	1	1	10714	0.4	76.9	5.6	7.5	1.4	5.3	1.1	1.3	0.5	77.3	5.6	17.1	0.077	0.515	29.156160	-110.909460				
T. Der. Ures	8.60	1	2	11392	0.6	74.6	5.9	8.6	1.4	5.8	1.2	1.4	0.5	75.2	5.9	18.9	0.081	0.515	29.156162	-110.909451				
T. Der. Ures	8.60	3	1	6988	0.8	76.0	6.5	4.6	1.4	6.7	1.5	1.7	0.8	76.8	6.5	16.7	0.086	0.502	29.168427	-110.911638				
T. Der. Ures	8.60	3	2	6931	0.4	74.2	7.2	5.1	1.6	7.3	1.6	1.7	0.9	74.6	7.2	18.2	0.082	0.502	29.168416	-110.911638				
Caseta de Cobro Hermosillo	15.20	2	1	4318	0.0	68.8	6.1	3.4	1.9	13.0	1.7	4.4	0.7	68.8	6.1	25.1	0.084	0.502	29.220739	-110.930200				
Caseta de Cobro Hermosillo	15.20	2	2	4282	0.0	68.8	6.1	3.4	1.9	13.0	1.7	4.4	0.7	68.8	6.1	25.1	0.084	0.502	29.220739	-110.930200				
T. Der. Pesqueira	32.39	3	1	4779	0.4	69.5	6.2	4.2	1.8	12.2	2.1	2.9	0.7	69.9	6.2	23.9	0.071	0.528	29.375875	-110.973300				
T. Der. Pesqueira	32.39	3	2	5352	0.2	66.2	6.8	4.4	2.1	13.8	2.4	3.2	0.9	66.4	6.8	26.8	0.091	0.528	29.375902	-110.973297				
T. Der. Carbó	68.90	1	1	3875	0.4	68.4	6.9	4.4	1.7	12.5	2.2	2.9	0.6	68.8	6.9	24.3	0.087	0.524	29.683128	-111.042137				
T. Der. Carbó	68.90	1	2	4268	0.3	65.1	7.9	4.9	1.8	13.6	2.3	3.4	0.7	65.4	7.9	26.7	0.105	0.524	29.683140	-111.042117				
T. Der. Carbó	68.90	3	1	4591	1.4	65.2	7.9	4.9	2.0	12.7	2.3	2.9	0.7	66.6	7.9	25.5	0.073	0.526	29.691774	-111.044001				
T. Der. Carbó	68.90	3	2	5096	0.2	63.9	8.3	5.2	2.1	13.6	2.6	3.4	0.7	64.1	8.3	27.6	0.085	0.526	29.691759	-111.043995				
T. Izq. Benjamín Hill	125.40	1	1	4726	0.3	68.4	6.7	4.9	1.7	12.4	2.0	3.3	0.3	68.7	6.7	24.6	0.082	0.528	30.163512	-111.097548				
T. Izq. Benjamín Hill	125.40	1	2	5285	0.2	64.3	7.6	5.5	1.9	14.5	2.2	3.6	0.2	64.5	7.6	27.9	0.093	0.528	30.162729	-111.097230				
T. Izq. Benjamín Hill	125.40	3	1	4699	1.5	65.7	8.3	5.2	2.4	11.6	2.0	2.7	0.6	67.2	8.3	24.5	0.075	0.530	30.178876	-111.097603				
T. Izq. Benjamín Hill	125.40	3	2	5290	0.9	63.3	8.8	6.1	2.5	12.4	2.2	3.1	0.7	64.2	8.8	27.0	0.089	0.530	30.178889	-111.097608				
Santa Ana	167.27	1	1	5592	1.0	68.6	7.4	5.7	1.7	10.6	1.7	2.7	0.6	69.6	7.4	23.0	0.077	0.522	30.528098	-111.113921				
Santa Ana	167.27	1	2	6113	0.4	66.6	8.2	6.4	1.9	11.3	1.8	2.9	0.5	67.0	8.2	24.8	0.076	0.522	30.527551	-111.114536				
Santa Ana	167.27	3	1	5533	0.7	71.3	7.4	5.6	1.3	8.9	2.0	2.0	0.8	72.0	7.4	20.6	0.070	0.519	30.549193	-111.109136				
Santa Ana	167.27	3	2	5969	0.5	68.1	7.9	6.2	1.4	10.6	2.1	2.3	0.9	68.6	7.9	23.5	0.073	0.519	30.549335	-111.110117				
Magdalena de Kino	182.70	1	1	5159	0.5	74.0	5.6	6.0	1.2	8.7	1.5	1.9	0.6	74.5	5.6	19.9	0.082	0.510	30.618440	-110.995585				
Magdalena de Kino	182.70	1	2	5371	0.3	71.4	6.2	7.0	1.2	9.7	1.6	2.0	0.6	71.7	6.2	22.1	0.098	0.510	30.618645	-110.995662				
Magdalena de Kino	182.70	3	1	3188	0.5	64.2	6.2	6.3	1.5	13.9	2.6	3.9	0.9	64.7	6.2	29.1	0.072	0.514	30.650959	-110.941921				
Magdalena de Kino	182.70	3	2	3365	0.4	61.1	6.2	6.9	1.8	15.7	2.9	4.1	0.9	61.5	6.2	32.3	0.079	0.514	30.650961	-110.941899				
Imuris	209.00	1	1	5425	0.6	70.2	5.9	6.1	1.4	10.9	1.8	2.5	0.6	70.8	5.9	23.3	0.069	0.503	30.752871	-110.854855				
Imuris	209.00	1	2	5494	0.6	67.1	6.2	7.2	1.6	12.0	2.0	2.6	0.7	67.7	6.2	26.1	0.078	0.503	30.752856	-110.854871				

SONORA

14 C A R R : Hermosillo - Nogales

CLAVE: 26445

ruta: MEX-015D-015

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. Der. Agua Prieta	209.50	3	1	4619	1.1	69.6	6.1	6.8	1.5	10.0	1.9	2.2	0.8	70.7	6.1	23.2	0.066	0.541	30.792457	-110.850771
T. Der. Agua Prieta	209.50	3	2	5433	0.9	67.3	7.0	7.4	1.8	10.5	2.1	2.3	0.7	68.2	7.0	24.8	0.084	0.541	30.792403	-110.850739
T. Izq. Sáric	255.90	1	1	7515	0.4	72.9	6.7	5.9	1.9	10.1	1.0	0.5	0.6	73.3	6.7	20.0	0.066	0.518	31.176054	-110.967399
T. Izq. Sáric	255.90	1	2	8080	0.3	70.6	6.8	6.9	2.2	10.7	1.2	0.5	0.8	70.9	6.8	22.3	0.084	0.518	31.176055	-110.967412
T. Izq. Sáric	255.90	3	1	6451	8.1	73.7	1.4	5.6	0.9	8.9	0.6	0.3	0.5	81.8	1.4	16.8	0.095	0.539	31.188728	-110.972272
T. Izq. Sáric	255.90	3	2	7557	0.1	80.9	1.5	5.9	1.0	9.2	0.6	0.3	0.5	81.0	1.5	17.5	0.145	0.539	31.188725	-110.972238
T. Izq. Libramiento de Nogales (Cuota)	261.00	3	1	7812	0.4	77.1	4.7	5.5	2.3	7.8	1.1	0.3	0.8	77.5	4.7	17.8	0.081	0.500	31.244598	-110.959646
T. Izq. Libramiento de Nogales (Cuota)	261.00	3	2	7813	0.3	73.9	5.6	6.0	2.5	9.1	1.3	0.3	1.0	74.2	5.6	20.2	0.108	0.500	31.244598	-110.959579
T. Izq. Periférico Luis Donaldo Colosio	267.00	1	1	25720	0.6	72.6	4.8	7.1	0.8	10.9	2.0	0.5	0.7	73.2	4.8	22.0	0.061	0.536	31.277982	-110.941244
T. Izq. Periférico Luis Donaldo Colosio	267.00	1	2	25850	0.6	70.4	5.4	7.5	1.0	11.8	2.1	0.5	0.7	71.0	5.4	23.6	0.067	0.536	31.277991	-110.941250
Nogales	270.00	1	1	14750	0.5	70.9	5.3	7.0	1.1	11.4	2.6	0.4	0.8	71.4	5.3	23.3	0.087	0.506	31.282227	-110.938474
Nogales	270.00	1	2	15107	0.5	68.0	5.7	7.4	1.2	13.1	2.8	0.4	0.9	68.5	5.7	25.8	0.070	0.506	31.282214	-110.938475

15 C A R R : Santa Ana - Sonoita

CLAVE: 26080

ruta: MEX-002D-MEX

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Santa Ana	0.00	3	0	7439	0.6	69.3	4.6	4.5	1.7	13.5	2.7	2.5	0.6	69.9	4.6	25.5	0.065	0.520	30.550898	-111.121250
Altar	72.80	1	0	9122	0.5	71.1	4.6	6.2	1.2	11.8	1.7	2.1	0.8	71.6	4.6	23.8	0.061	0.511	30.710556	-111.830445
Altar	72.80	3	1	3416	0.3	69.7	4.2	6.4	1.6	12.6	2.0	2.5	0.7	70.0	4.2	25.8	0.067	0.509	30.714218	-111.848881
Altar	72.80	3	2	3539	2.0	64.3	5.0	7.1	1.8	14.0	2.3	2.8	0.7	66.3	5.0	28.7	0.065	0.509	30.714214	-111.848827
T. Izq. Estación Pitiquito	94.28	1	0	6796	0.5	67.0	4.0	6.7	1.8	14.4	2.3	2.7	0.6	67.5	4.0	28.5	0.064	0.503	30.688344	-112.033212
Caborca	103.83	1	0	10438	0.6	72.4	4.6	6.5	1.4	10.4	1.5	1.9	0.7	73.0	4.6	22.4	0.064	0.506	30.708038	-112.124968
Cozón	180.30	1	0	2703	2.6	61.8	5.1	7.9	2.6	12.4	2.8	3.5	1.3	64.4	5.1	30.5	0.062	0.500	31.303386	-112.558778
Sonoita	253.70	1	0	3313	5.2	55.9	4.2	7.0	3.9	15.9	4.0	3.3	0.6	61.1	4.2	34.7	0.054	0.507	31.846906	-112.858803

16 C A R R : Altar - Sáric

CLAVE: 26233

ruta: SON-064

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Santa Ana - Sonoita	0.00	3	0	1278	0.6	85.7	2.4	5.4	1.4	2.8	0.9	0.2	0.6	86.3	2.4	11.3	0.088	0.508	30.724038	-111.829143
Sáric	68.00	1	0	301	1.8	88.8	3.3	5.6	0.1	0.3	0.1	0.0	0.0	90.6	3.3	6.1	0.110	0.503	31.101509	-111.385607

SONORA

17	C A R R : Caborca - El Desemboque				CLAVE: 26225				RUTA: SON-037				AÑO : 2011										
L U G A R				E S T A C I O N				CLASIFICACION VEHICULAR EN PORCIENTO												C O O R D E N A D A S			
KM TE SC TDPA				M A B C2 C3 T3S2 T3S3 T3S2R4 OTROS A B C K' D				LATITUD LONGITUD															
Caborca				0.00	3	0	8034	0.9	83.4	3.3	5.3	1.9	3.0	1.1	0.5	0.6	84.3	3.3	12.4	0.073	0.506	30.708475	-112.182186
T. Der. Productora Nal. de Semillas				4.20	3	0	5624	0.3	81.8	3.8	6.9	1.6	3.7	1.0	0.4	0.5	82.1	3.8	14.1	0.071	0.503	30.704244	-112.205316
T. Izq. Ramal El Deseo				6.90	3	0	4293	0.2	83.4	4.1	5.9	1.2	3.7	0.7	0.5	0.3	83.6	4.1	12.3	0.082	0.503	30.702529	-112.213791
T. Der. El Sahuaro				61.20	3	0	980	0.9	90.1	1.3	3.7	1.1	2.1	0.5	0.2	0.1	91.0	1.3	7.7	0.085	0.503	30.800970	-112.720389
El Desemboque				102.30																			
18	C A R R : Calle 36 Norte - Puerto de La Libertad				CLAVE: 26117				RUTA: SON-029				AÑO : 2011										
L U G A R				E S T A C I O N				CLASIFICACION VEHICULAR EN PORCIENTO												C O O R D E N A D A S			
KM TE SC TDPA				M A B C2 C3 T3S2 T3S3 T3S2R4 OTROS A B C K' D				LATITUD LONGITUD															
T. C. Hermosillo - Bahía Kino				0.00	3	0	464	0.5	70.7	4.3	9.4	4.6	8.9	0.7	0.7	0.2	71.2	4.3	24.5	0.086	0.527	28.832422	-111.714234
Casas Grandes				45.00	3	0	390	1.3	68.3	4.4	10.0	4.0	8.3	2.4	1.3	0.0	69.6	4.4	26.0	0.123	0.502	29.182465	-111.713628
Puerto de La Libertad				156.00																			
19	C A R R : Esperanza - Presa Álvaro Obregón				CLAVE: 26242				RUTA: SON-117				AÑO : 2011										
L U G A R				E S T A C I O N				CLASIFICACION VEHICULAR EN PORCIENTO												C O O R D E N A D A S			
KM TE SC TDPA				M A B C2 C3 T3S2 T3S3 T3S2R4 OTROS A B C K' D				LATITUD LONGITUD															
Esperanza				0.00	3	0	5291	1.8	80.8	2.7	7.3	2.2	1.2	2.6	0.4	1.0	82.6	2.7	14.7	0.100	0.502	27.585217	-109.916914
T. Der. Los Hornos				17.00	3	0	859	3.7	80.6	3.2	9.3	1.9	1.1	0.2	0.0	0.0	84.3	3.2	12.5	0.114	0.512	27.720835	-109.897407
Presa Álvaro Obregón				32.00																			
20	C A R R : Hermosillo - Bahía Kino				CLAVE: 26109				RUTA: SON-100				AÑO : 2011										
L U G A R				E S T A C I O N				CLASIFICACION VEHICULAR EN PORCIENTO												C O O R D E N A D A S			
KM TE SC TDPA				M A B C2 C3 T3S2 T3S3 T3S2R4 OTROS A B C K' D				LATITUD LONGITUD															
Hermosillo				0.00	3	1	9697	1.7	86.2	4.3	5.2	1.4	0.8	0.2	0.1	0.1	87.9	4.3	7.8	0.087	0.509	29.093261	-111.033450
Hermosillo				0.00	3	2	10043	1.6	84.6	4.7	6.2	1.5	1.0	0.2	0.1	0.1	86.2	4.7	9.1	0.080	0.509	29.093341	-111.033700
T. Der. Aeropuerto				11.00	1	1	9110	1.0	83.9	5.2	7.7	0.8	0.9	0.3	0.1	0.1	84.9	5.2	9.9	0.084	0.534	29.090092	-111.046305
T. Der. Aeropuerto				11.00	1	2	10457	1.3	82.0	5.8	8.6	0.8	1.0	0.3	0.1	0.1	83.3	5.8	10.9	0.073	0.534	29.090123	-111.046304
T. Der. Aeropuerto				11.00	3	1	5745	0.9	84.5	3.9	6.1	2.0	1.7	0.4	0.2	0.3	85.4	3.9	10.7	0.094	0.502	29.088037	-111.053487
T. Der. Aeropuerto				11.00	3	2	5802	0.7	83.3	4.2	6.8	2.4	1.8	0.4	0.1	0.3	84.0	4.2	11.8	0.090	0.502	29.088041	-111.053488
T. Izq. Calle 4 Sur				53.00	3	0	5242	0.6	73.8	6.2	10.1	3.2	4.2	0.8	0.4	0.7	74.4	6.2	19.4	0.078	0.500	28.839533	-111.396787
El Triunfo				55.50	1	0	5323	0.7	75.7	5.2	10.4	2.6	3.7	0.8	0.3	0.6	76.4	5.2	18.4	0.085	0.501	28.839476	-111.424336
T. Der. Calle 36				84.40	1	0	2149	0.7	72.6	7.0	11.0	2.9	3.5	1.0	0.3	1.0	73.3	7.0	19.7	0.075	0.511	28.831320	-111.711041

SONORA

20 C A R R : Hermosillo - Bahía Kino

CLAVE: 26109

ruta: SON-100

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. Der. Calle 36	84.40	3	0	1817	0.7	79.5	4.6	9.5	2.4	1.5	1.2	0.2	0.4	80.2	4.6	15.2	0.089	0.519	28.831201	-111.719557
Bahía Kino	106.50	1	0	1874	0.5	80.3	5.1	9.2	1.7	1.3	0.8	0.2	0.9	80.8	5.1	14.1	0.089	0.516	28.828575	-111.928481

21 C A R R : Hermosillo - Sahuaripa

CLAVE: 26230

ruta: SON-020

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Libramiento de Hermosillo	0.00	3	1	4427	1.0	78.9	2.2	6.9	4.6	4.3	1.3	0.3	0.5	79.9	2.2	17.9	0.074	0.507	29.030177	-110.908221
T. C. Libramiento de Hermosillo	0.00	3	2	4312	1.0	78.9	2.2	6.9	4.6	4.3	1.3	0.3	0.5	79.9	2.2	17.9	0.074	0.507	29.030177	-110.908221
Mazatán	88.00	1	0	1052	0.3	80.6	2.9	8.3	3.9	2.4	1.1	0.1	0.4	80.9	2.9	16.2	0.091	0.505	29.005611	-110.152815
Mazatán	88.00	3	0	928	0.3	77.2	3.5	10.5	4.8	2.2	1.0	0.1	0.4	77.5	3.5	19.0	0.092	0.530	28.996670	-110.135553
Sahuaripa	199.00																			

22 C A R R : Hornos - San Nicolás

CLAVE: 26243

ruta: SON-012

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Hornos	0.00	3	0	1322	1.0	72.7	3.7	8.7	2.6	3.6	6.4	0.2	1.1	73.7	3.7	22.6	0.085	0.503	27.720542	-109.890185
Rosario	58.00	1	0	981	1.2	70.1	2.8	9.6	2.4	4.8	7.8	0.2	1.1	71.3	2.8	25.9	0.100	0.504	27.842241	-109.385354
San Nicolás	137.20																			

23 C A R R : Huatabampo - Bacabachi

CLAVE: 26237

ruta: SON-176

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Huatabampo	0.00	3	0	2121	8.2	68.1	5.4	6.6	5.3	3.4	2.3	0.3	0.4	76.3	5.4	18.3	0.080	0.502	26.825242	-109.600559
T. C. Los Mochis - Cd. Obregón (Cuota)	29.00	1	0	1565	2.6	75.1	5.7	6.0	2.0	2.5	5.3	0.1	0.7	77.7	5.7	16.6	0.097	0.508	26.838791	-109.369730

24 C A R R : La Alameda - El Sahuaro

CLAVE: 26234

ruta: SON-037

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Caborca - El Desemboque	0.00	3	0	2683	1.0	85.2	2.3	5.5	1.4	2.8	0.8	0.5	0.5	86.2	2.3	11.5	0.095	0.519	30.813925	-112.730123
Estación El Sahuaro	47.00	1	0	2150	0.1	81.4	4.9	7.0	1.8	3.0	0.9	0.6	0.3	81.5	4.9	13.6	0.101	0.507	31.042491	-112.943210

SONORA

25 C A R R : Mazocahui - Cananea

CLAVE: 26118

RUTA : SON-118

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O											C O O R D E N A D A S				
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Hermosillo - Moctezuma	0.00	3	0	972	0.8	80.6	3.6	6.3	2.7	3.7	1.9	0.1	0.3	81.4	3.6	15.0	0.075	0.509	29.546194	-110.121120
Baviácora	15.20	3	0	1731	0.6	78.2	7.6	7.9	1.5	2.6	1.1	0.2	0.3	78.8	7.6	13.6	0.075	0.513	29.731059	-110.169316
Arizpe	98.00	1	0	309	0.7	77.9	5.7	10.1	1.5	2.3	1.6	0.0	0.2	78.6	5.7	15.7	0.113	0.504	30.331108	-110.177401
T. C. Imuris - Agua Prieta	204.00	1	0	1191	0.5	66.2	0.3	11.8	18.1	2.5	0.6	0.0	0.0	66.7	0.3	33.0	0.090	0.506	30.986514	-110.257441

26 CARR: Navjoia - Álamos

CLAVE: 26240

RUTA : SON-013

AÑO : 2011

LUGAR	ESTACION				CLASIFICACION VEHICULAR EN PORCIENTO															COORDENADAS	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD	
Navojoa	0.00	3	0	3654	5.0	80.2	2.0	6.5	2.4	2.3	0.6	0.6	0.4	85.2	2.0	12.8	0.080	0.521	27.074101	-109.406092	
Alamos	52.80	1	0	2573	2.1	86.3	1.5	7.2	1.2	1.4	0.2	0.0	0.1	88.4	1.5	10.1	0.081	0.506	27.031759	-108.952941	

27 CARR: Navojoa - Yavaros

CLAVE: 26229

RUTA: SON-056

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O															C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD	
Navojoa	0.00	3	1	4873	3.1	78.4	3.5	9.5	1.6	1.5	1.0	0.4	1.0	81.5	3.5	15.0	0.087	0.504	27.045888	-109.459065	
Navojoa	0.00	3	2	4940	3.1	77.2	4.1	9.8	1.8	1.7	1.0	0.4	0.9	80.3	4.1	15.6	0.090	0.504	27.045901	-109.459065	
Yavaros	55.00	1	0	1957	6.3	73.7	6.9	9.0	0.7	2.0	0.5	0.2	0.7	80.0	6.9	13.1	0.080	0.517	26.705428	-109.543663	

28 C A R R : Nogales - San Antonio

CLAVE: 26110

RUTA: SON

AÑO : 2011

L U G A R	E S T A C I O N	C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O															C O O R D E N A D A S				
		KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Nogales	0.00																				
San Antonio	58.00	1	0	335	0.0	89.0	0.1	10.9	0.0	0.0	0.0	0.0	0.0	89.0	0.1	10.9	0.072	0.519	30.985732	-110.586558	

29 C A R R : Ramal a Aeropuerto de Guaymas

CLAVE: 26568

RUTA: SON

AÑO : 2011

[illegible]

SONORA

30 C A R R : San Luis Río Colorado - Golfo de Santa Clara

CLAVE: 26226

RUTA: SON-040

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
San Luis Río Colorado	0.00	3	0	5098	0.5	85.2	3.7	5.0	0.8	3.3	0.6	0.5	0.4	85.7	3.7	10.6	0.072	0.501	32.434492	-114.853678
T. Izq. Lagunitas	25.50	3	0	5005	0.4	83.4	3.9	5.5	1.1	3.8	0.9	0.5	0.5	83.8	3.9	12.3	0.078	0.504	32.316593	-114.952330
Golfo de Santa Clara	114.30	1	0	1560	0.6	83.5	4.4	5.5	2.2	0.2	1.1	2.0	0.5	84.1	4.4	11.5	0.077	0.521	31.706572	-114.523815

31 C A R R : Sonoita - Pitiquito

CLAVE: 26022

RUTA: SON

AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
Sonoita	0.00	3	0	1465	0.8	85.4	4.3	6.5	1.3	1.1	0.2	0.1	0.3	86.2	4.3	9.5	0.078	0.502	31.854999	-112.828328
Pitiquito	170.00	1	0	480	0.7	81.7	4.3	7.8	3.4	1.6	0.1	0.2	0.2	82.4	4.3	13.3	0.110	0.508	30.722683	-112.094720

32 C A R R : T. C. (Hermosillo - Nogales) - Huásabas

CLAVE: 26231

RUTA: MEX-014-SON

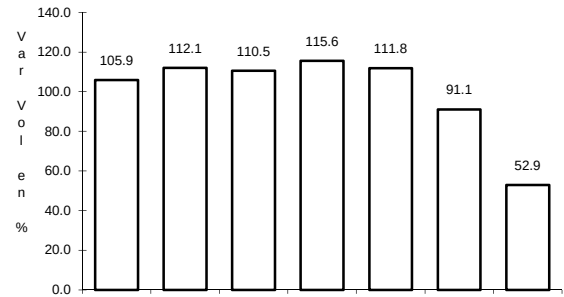
AÑO : 2011

L U G A R	E S T A C I O N				C L A S I F I C A C I O N V E H I C U L A R E N P O R C I E N T O														C O O R D E N A D A S	
	KM	TE	SC	TDPA	M	A	B	C2	C3	T3S2	T3S3	T3S2R4	OTROS	A	B	C	K'	D	LATITUD	LONGITUD
T. C. Hermosillo - Nogales	0.00	3	1	5987	1.0	84.5	1.8	5.6	1.7	3.0	1.4	0.5	0.5	85.5	1.8	12.7	0.083	0.506	29.169767	-110.901558
T. C. Hermosillo - Nogales	0.00	3	2	5854	0.8	83.5	2.1	6.1	1.7	3.3	1.5	0.5	0.5	84.3	2.1	13.6	0.097	0.506	29.169756	-110.901530
Ures	62.00	3	0	2115	0.8	76.5	4.1	6.7	2.1	4.4	2.1	2.9	0.4	77.3	4.1	18.6	0.078	0.513	29.432891	-110.352033
Mazocahui	97.50	3	0	1041	0.2	68.1	2.4	9.9	4.0	6.2	2.9	5.9	0.4	68.3	2.4	29.3	0.099	0.532	29.547093	-110.112889
Moctezuma	165.00	1	0	1126	0.3	81.3	2.8	9.0	1.3	2.3	1.1	1.3	0.6	81.6	2.8	15.6	0.085	0.519	29.799964	-109.690190
Moctezuma	165.00	3	0	1444	0.4	82.0	2.8	8.9	1.4	2.3	0.9	0.8	0.5	82.4	2.8	14.8	0.076	0.505	29.800819	-109.666795
Huásabas	212.50	1	0	530	0.2	80.8	2.7	11.5	2.0	1.9	0.8	0.0	0.1	81.0	2.7	16.3	0.085	0.503	29.917965	-109.307740

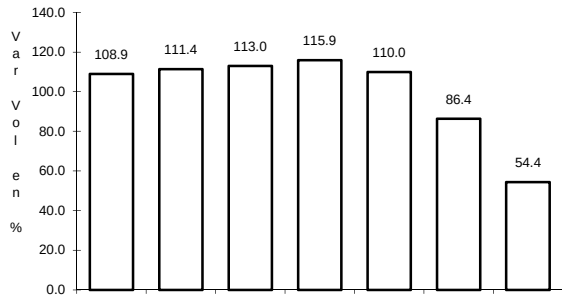
1 CARR: Hermosillo - Yécora

CLAVE: 26251

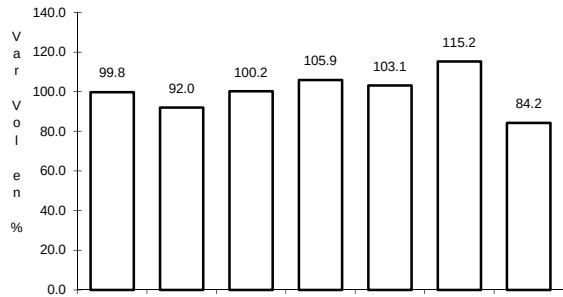
RUTA: MEX-016



Km: 4.00 Tipo: 3 Sent: 1



Km: 4.00 Tipo: 3 Sent: 2

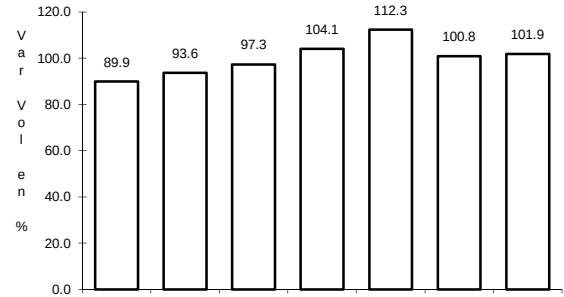


Km: 138.00 Tipo: 3 Sent: 0

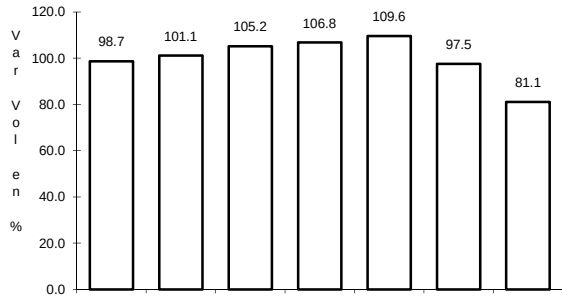
2 CARR: Imuris - Agua Prieta

CLAVE: 26079

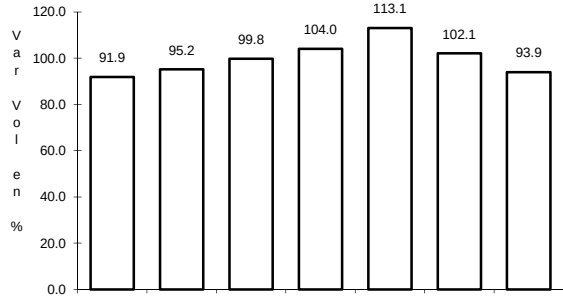
RUTA: MEX-002



Km: 0.00 Tipo: 3 Sent: 0



Km: 80.93 Tipo: 1 Sent: 0

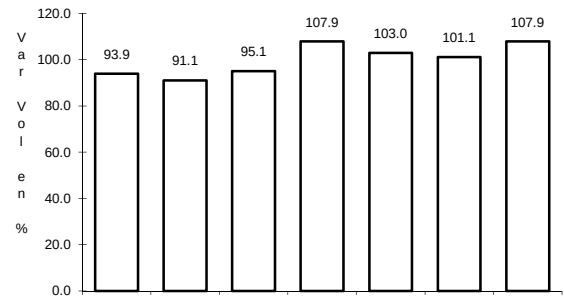


Km: 164.67 Tipo: 1 Sent: 0

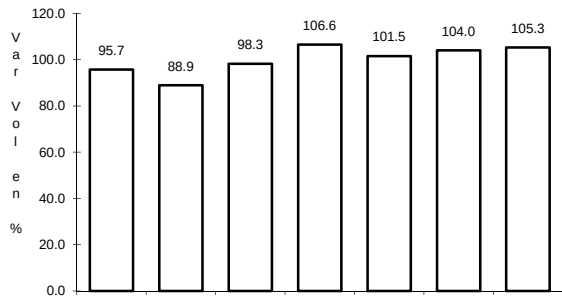
3 CARR: Janos - Agua Prieta

CLAVE: 00220

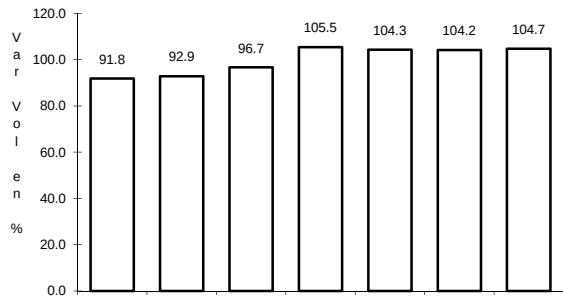
RUTA: MEX-002



Km: 0.00 Tipo: 3 Sent: 0



Km: 56.00 Tipo: 3 Sent: 0

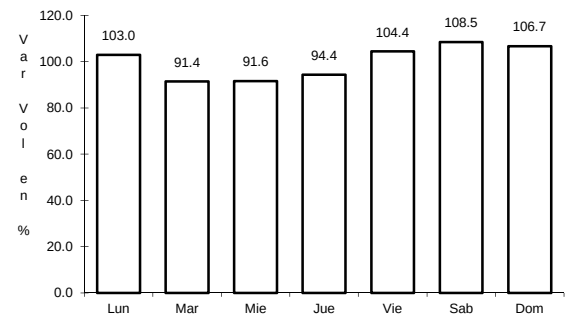


Km: 160.00 Tipo: 1 Sent: 0

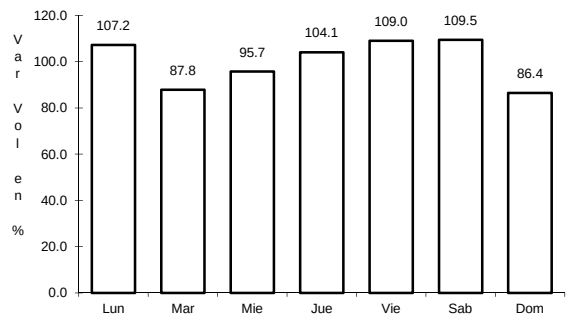
4 CARR: La Junta - Yécora

CLAVE: 00065

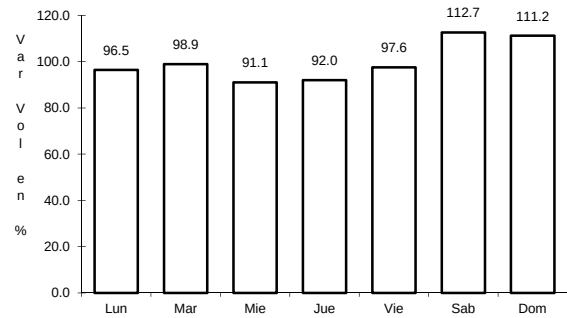
ruta: MEX-016



Km: 0.00 Tipo: 3 Sent: 0



Km: 70.00 Tipo: 3 Sent: 0

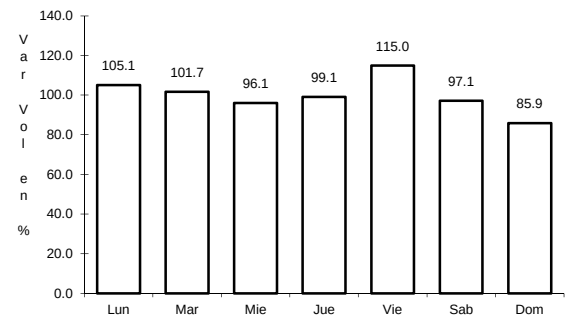


Km: 253.00 Tipo: 1 Sent: 0

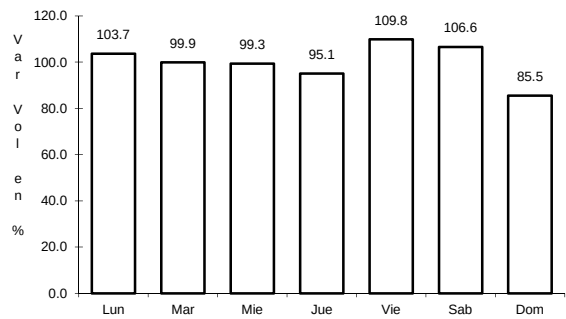
5 CARR: Moctezuma - Agua Prieta

CLAVE: 26027

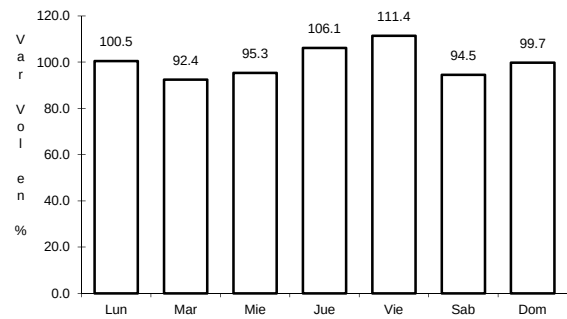
ruta: MEX-017



Km: 0.00 Tipo: 3 Sent: 0



Km: 81.00 Tipo: 3 Sent: 0

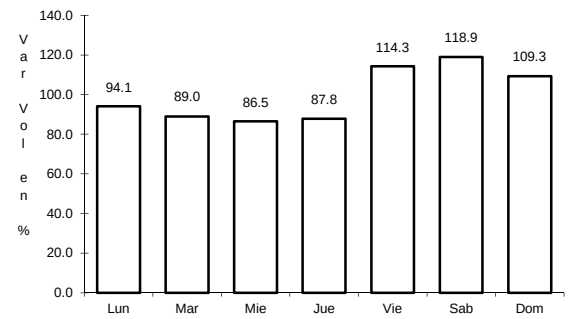


Km: 197.60 Tipo: 1 Sent: 0

6 CARR: Ramal a Naco

CLAVE: 26579

ruta: MEX-002

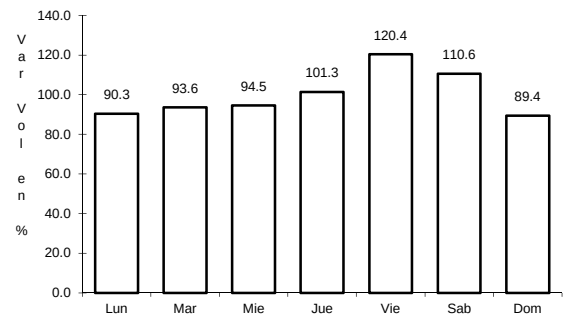


Km: 0.00 Tipo: 3 Sent: 0

7 CARR: Ramal a Puerta de México

CLAVE: 26577

ruta: MEX-002

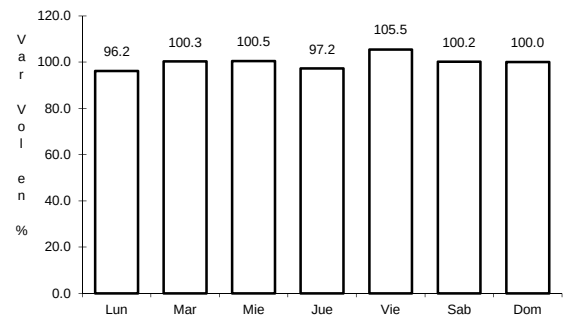


Km: 0.00 Tipo: 3 Sent: 0

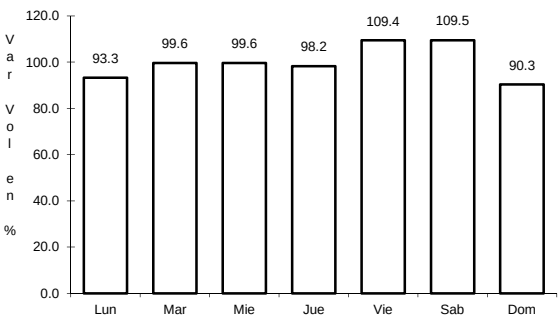
8 CARR: Sonoita - Mexicali

CLAVE: 00081

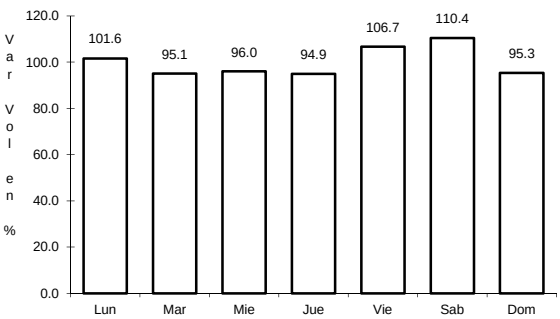
ruta: MEX-002



Km: 0.00 Tipo: 3 Sent: 0



Km: 256.47 Tipo: 1 Sent: 1

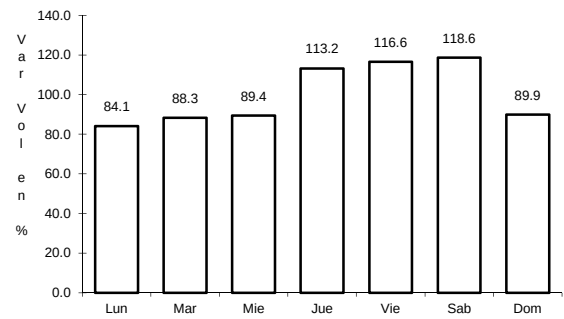


Km: 256.47 Tipo: 1 Sent: 2

9 CARR: Sonoita - Puerto Peñasco

CLAVE: 26232

ruta: MEX-002

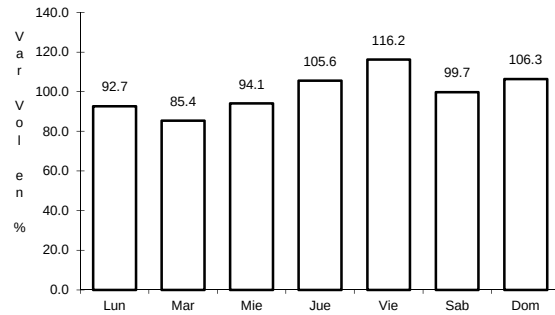


Km: 0.00 Tipo: 3 Sent: 0

10 CARR: Libramiento de Empalme - Guaymas (Cuota)

CLAVE: 26256

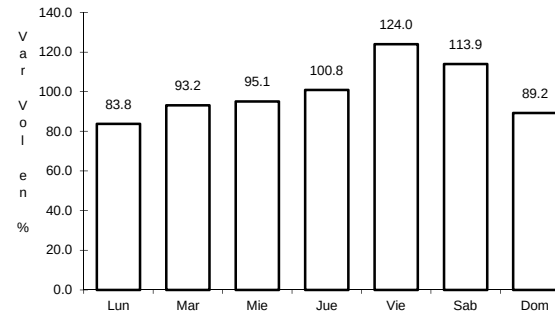
RUTA: MEX-015D



Km: 0.00

Tipo: 3

Sent: 1



Km: 0.00

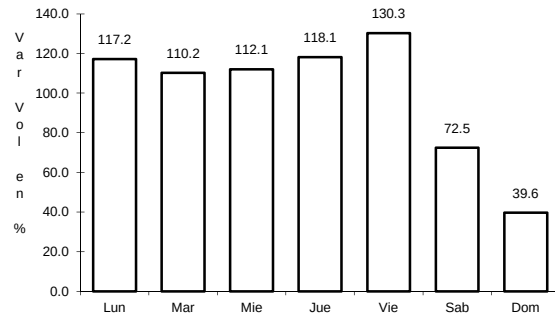
Tipo: 3

Sent: 2

11 CARR: Libramiento de Nogales (Cuota)

CLAVE: 26100

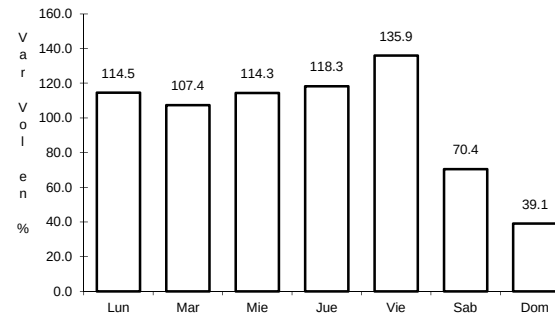
RUTA: MEX-15D



Km: 0.00

Tipo: 3

Sent: 1



Km: 0.00

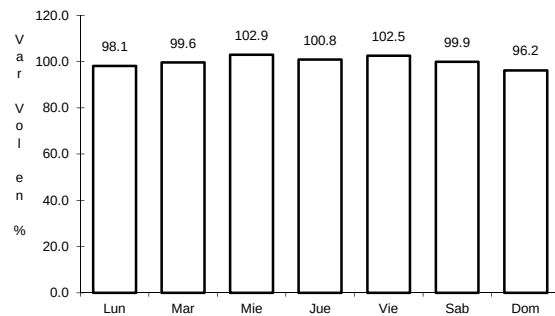
Tipo: 3

Sent: 2

12 CARR: Los Mochis - Cd. Obregón (Cuota)

CLAVE: 00452

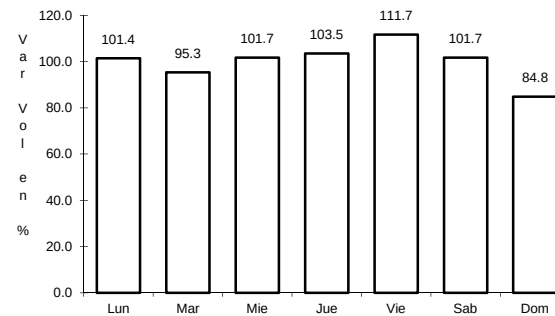
RUTA: MEX-015D



Km: 0.00

Tipo: 3

Sent: 1



Km: 0.00

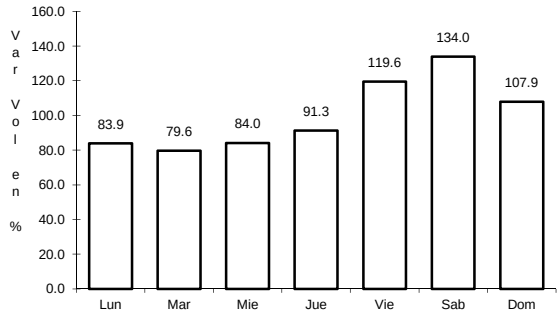
Tipo: 3

Sent: 2

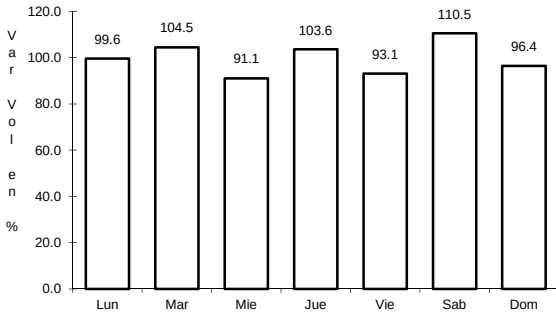
16 CARR: Altar - Sáríc

CLAVE: 26233

ruta: SON-064



Km: 0.00 Tipo: 3 Sent: 0

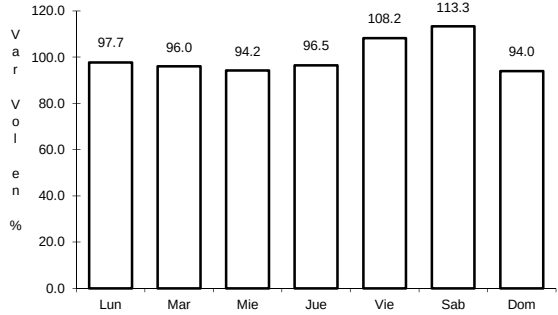


Km: 68.00 Tipo: 1 Sent: 0

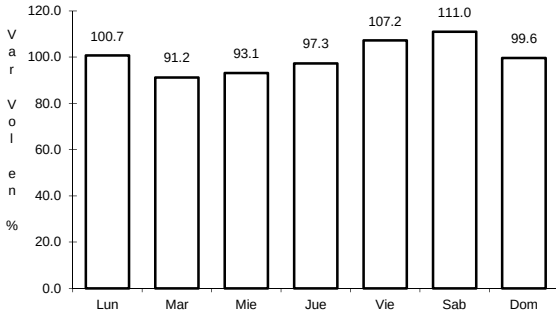
17 CARR: Caborca - El Desemboque

CLAVE: 26225

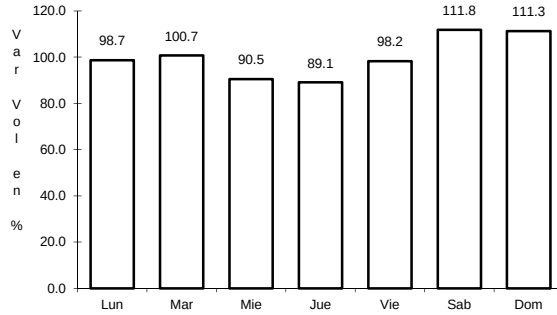
ruta: SON-037



Km: 0.00 Tipo: 3 Sent: 0



Km: 6.90 Tipo: 3 Sent: 0

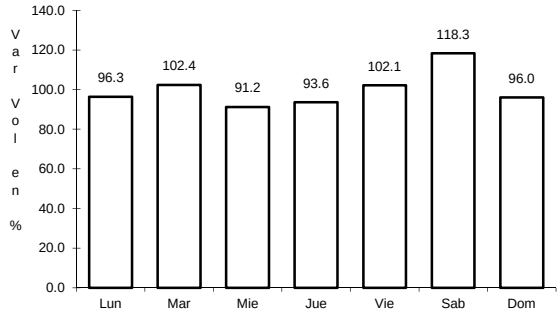


Km: 61.20 Tipo: 3 Sent: 0

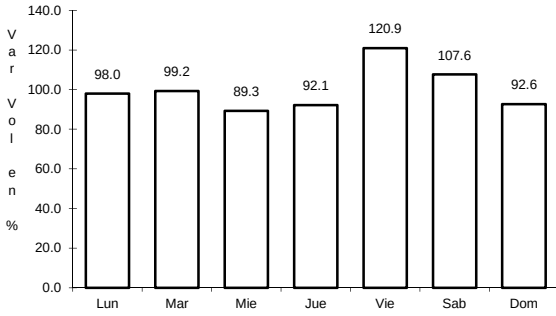
18 CARR: Calle 36 Norte - Puerto de La Libertad

CLAVE: 26117

ruta: SON-029



Km: 0.00 Tipo: 3 Sent: 0



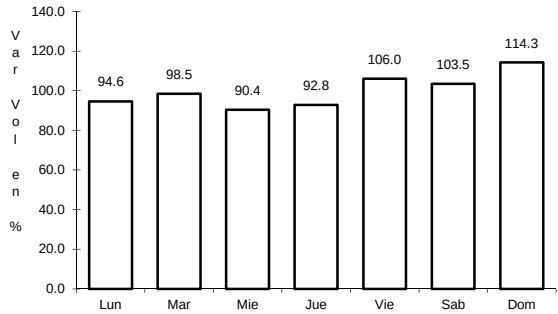
Km: 45.00 Tipo: 3 Sent: 0

Km: 88.00 Tipo: 3 Sent: 0

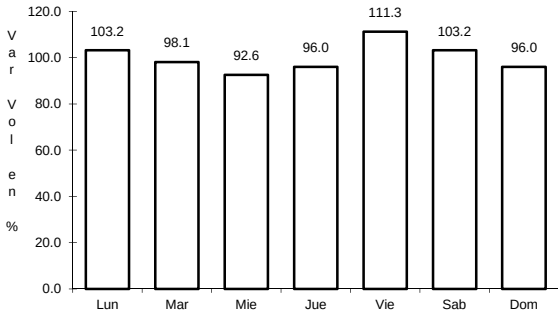
22 CARR: Hornos - San Nicolás

CLAVE: 26243

RUTA: SON-012



Km: 0.00 Tipo: 3 Sent: 0

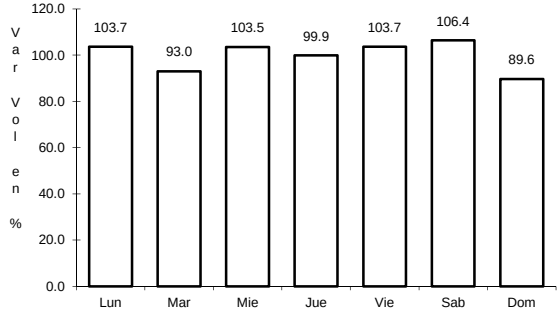


Km: 58.00 Tipo: 1 Sent: 0

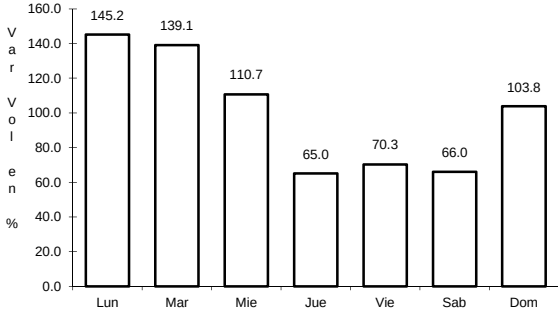
23 CARR: Huatabampo - Bacabachi

CLAVE: 26237

RUTA: SON-176



Km: 0.00 Tipo: 3 Sent: 0

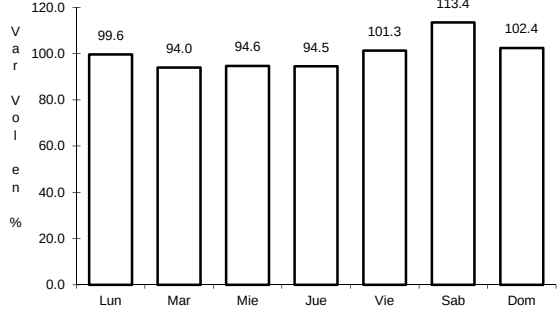


Km: 29.00 Tipo: 1 Sent: 0

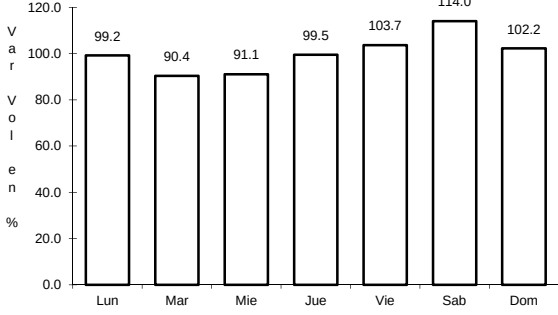
24 CARR: La Alameda - El Sahuaro

CLAVE: 26234

RUTA: SON-037



Km: 0.00 Tipo: 3 Sent: 0



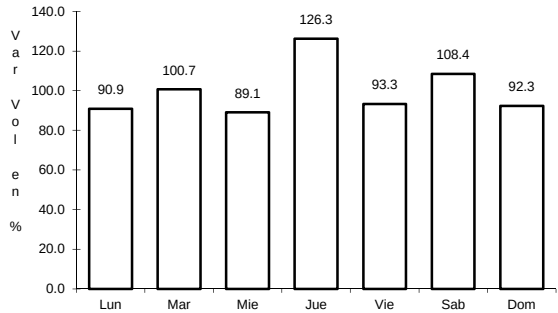
Km: 47.00 Tipo: 1 Sent: 0

Sent: 0

28 CARR: Nogales - San Antonio

CLAVE: 26110

ruta: SON

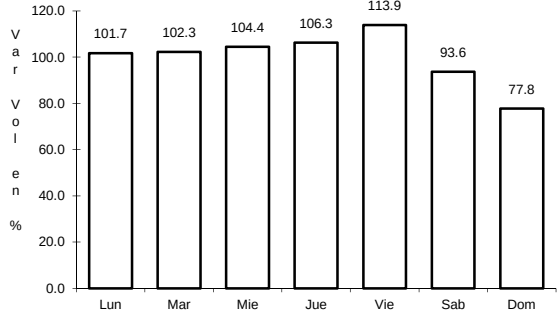


Km: 58.00 Tipo: 1 Sent: 0

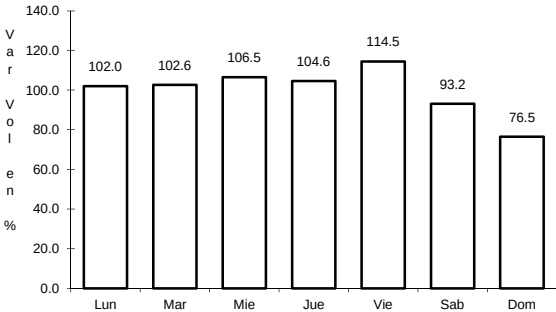
29 CARR: Ramal a Aeropuerto de Guaymas

CLAVE: 26568

ruta: SON



Km: 0.00 Tipo: 3 Sent: 1

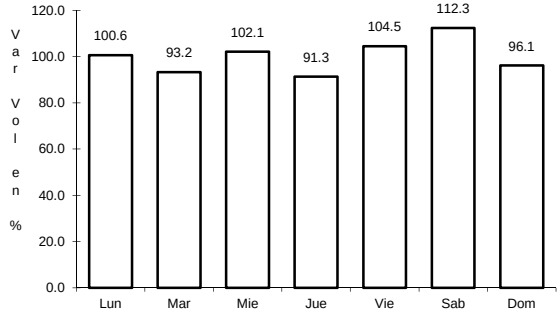


Km: 0.00 Tipo: 3 Sent: 2

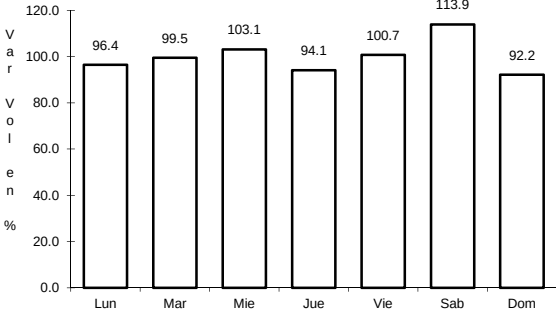
30 CARR: San Luis Río Colorado - Golfo de Santa Clara

CLAVE: 26226

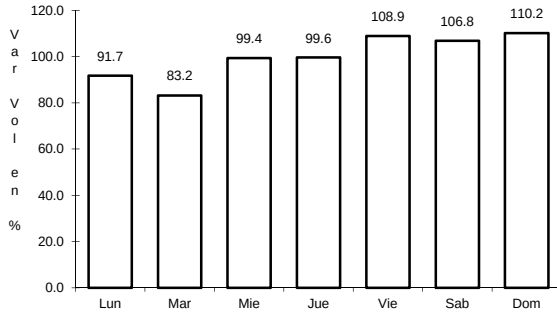
ruta: SON-040



Km: 0.00 Tipo: 3 Sent: 0



Km: 25.50 Tipo: 3 Sent: 0

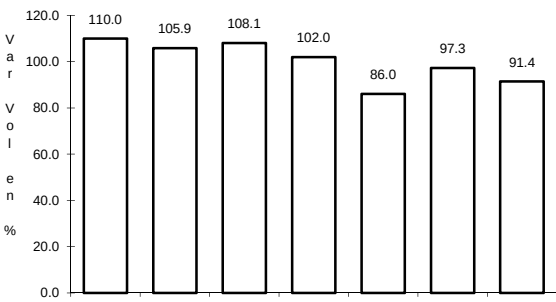
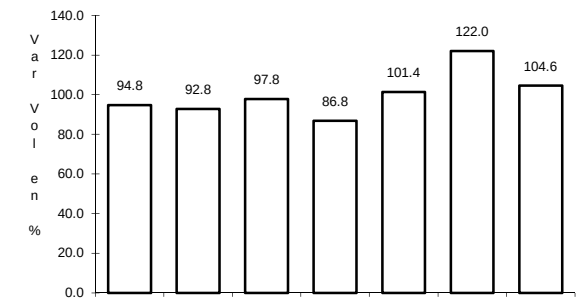


Km: 114.30 Tipo: 1 Sent: 0

31 CARR: Sonoita - Pitiquito

CLAVE: 26022

ruta: SON



32 CARR: T. C. (Hermosillo - Nogales) - Huásabas

CLAVE: 26231

ruta: MEX-014-SON

