

FROM MEXICO TO LAREDO TAMAULIPAS.—*Continúa.*

STATIONS.	Distance between each station.		Distances.		Altitudes.	
	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
El Venado.....	17.000	10.56	672.600	418.09	1740.00	5708.86
Los Charcos.....	16.300	10.13	689.700	428.65	1880.00	6168.19
Laguna Seca.....	11.600	7.20	706.000	438.78	2020.00	6627.51
Berrendo.....	15.400	9.58	717.600	445.98	1990.00	6529.09
La Maroma.....	16.000	9.94	733.000	455.56	1880.00	6168.19
Wadley.....	8.600	5.35	749.000	465.50	1840.00	6036.95
Catorce.....	6.800	4.23	757.600	470.85	1820.00	5971.33
Pobazon.....	15.200	9.44	764.400	475.08	1780.00	5840.10
Vanegas.....	16.400	10.20	779.600	484.52	1720.00	5643.24
La Trueba (La Parida).....	15.800	9.81	796.000	494.72	1720.00	5643.24
San Vicente.....	15.700	9.76	811.800	504.53	1700.00	5577.62
El Salado.....	15.700	9.75	827.500	514.29	1720.00	5643.24
Lulu.....	20.200	12.56	843.200	524.04	1720.00	5643.24
La Ventura.....	20.000	12.43	863.400	536.60	1720.00	5643.24
Santa Elena.....	20.900	13.00	883.400	549.03	1760.00	5774.48
Gomes Farias.....	13.200	8.20	904.300	562.03	1940.00	6365.04
El Oro.....	17.300	10.77	917.500	570.23	1980.00	6496.28
Carneros.....	9.600	5.94	934.800	580.99	2080.00	6824.37
Agua Nueva.....	13.200	8.21	944.400	586.93	1920.00	6299.42
Encantada.....	6.300	3.92	957.600	595.14	1840.00	6036.95
Buena Vista.....	9.700	6.03	963.900	599.06	1750.00	5741.67
Saltillo.....	1.500	0.93	973.600	605.09	1600.00	5249.52
Los Bosques.....	3.500	2.17	985.100	612.24	1430.00	4691.76
Ramos Arizpe.....	7.300	4.55	988.600	614.41	1400.00	4593.33
Santa Maria.....	9.700	6.02	995.900	618.96	1320.00	4330.85
Ojo Caliente.....	7.000	4.35	1005.600	624.98	1220.00	4002.76
Los Muertos.....	2.300	1.40	1012.600	629.33	1160.00	3805.90
La Mariposa.....	10.400	6.46	1014.900	630.77	1120.00	3674.66
Rinconada.....	7.700	4.78	1025.300	637.23	1000.00	3280.95
Los Fierros.....	5.500	3.42	1033.000	642.01	930.00	3051.28
Soledad.....	10.200	6.34	1038.500	645.43	820.00	2693.38
García.....	21.100	13.11	1048.700	651.77	740.00	2427.91
Santa Catarina.....	2.800	1.74	1069.800	664.88	640.00	2099.81
Leona.....	4.700	2.87	1072.600	666.62	600.00	1968.57
San Gerónimo.....	2.900	1.79	1077.300	669.55	590.00	1935.76
Gonzalitos.....	2.500	1.56	1080.200	671.34	580.00	1902.95
Monterey.....	7.600	4.73	1082.700	672.90	560.00	1837.33
Ramon Treviño.....	6.100	3.79	1090.300	677.63	510.00	1673.28
Topo.....	20.900	12.99	1096.400	681.42	480.00	1574.86
Salinas.....	8.100	5.03	1117.300	694.41	430.00	1410.81
Morales.....	16.300	10.13	1125.400	699.44	460.00	1509.24
Stevenson (Palmito).....	8.700	5.40	1141.700	709.57	580.00	1902.95
Palo Blanco.....	13.200	8.20	1150.400	714.97	560.00	1837.33
Álamo.....	12.600	7.84	1163.600	723.17	490.00	1607.67
Villa Aldama.....	2.100	1.31	1176.200	731.01	420.00	1378.00
Guadalupe.....	3.400	2.11	1178.300	732.32	420.00	1378.00
Bustamante.....	9.800	6.09	1181.700	734.43	440.00	1443.62
Huizache.....	1.400	0.87	1191.500	740.52	470.00	1542.05
Golondrinas.....	12.000	7.46	1202.900	747.60	410.00	1345.19
Salome, Botello.....	12.100	7.52	1214.900	755.06	380.00	1246.76
Brasil.....	8.900	5.53	1227.000	762.58	340.00	1115.52
Lampazos.....	23.300	14.48	1235.900	768.11	300.09	984.28
Mojina.....	21.200	13.18	1259.200	782.59	240.00	787.43
Rodriguez.....	12.400	7.71	1280.400	795.77	200.00	656.19
Camaron.....	11.500	7.15	1292.800	803.48	200.00	656.19
Huizachito.....	16.500	10.25	1304.300	810.63	210.00	689.00
Jarita.....	13.100	8.14	1320.800	820.88	200.00	656.19
Sanchez.....	16.100	10.01	1333.900	829.02	160.00	524.95
Laredo de Tamaulipas.....	.....	.....	1350.000	839.03	130.00	426.52

FROM ACÁMBARO TO PÁTZCUARO, A BRANCH OF THE SAME ROAD.

STATIONS.	Distance between each station.		Distances.		Altitudes.	
	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Acámbaro.....	13.250	8.23	0.000	0.00	1840.00	6036.95
La Cumbre.....	17.610	10.96	13.250	8.23	1960.00	6430.66
Andocutin.....	6.170	3.83	30.860	19.19	1840.00	6036.95
Huingo.....	12.360	7.68	37.030	23.02	1840.00	6036.95
Queréndaro.....	4.000	2.49	49.390	30.70	1840.00	6036.95
Zinzimeo.....	10.000	6.22	53.390	33.19	1840.00	6036.95
Quiro.....	7.610	4.73	63.390	39.41	1860.00	6102.57
Charo.....	5.920	3.67	71.000	44.14	1870.00	6135.38
La Goleta.....	3.150	1.95	76.920	47.81	1870.00	6135.38
Atapanco.....	11.200	6.96	80.070	49.76	1880.00	6168.19
Morelia.....	19.900	12.37	91.270	56.72	1890.00	6201.00
Jacuaro.....	9.610	5.98	111.170	69.09	2000.00	6561.89
Coapa.....	6.800	4.22	120.780	75.07	2060.00	6758.75
Lagunillas.....	10.380	6.46	127.580	79.29	2100.00	6889.98
Ponce.....	2.910	1.80	137.960	85.75	2120.00	6955.60
Chapultepec.....	12.530	7.79	140.870	87.55	2100.00	6889.98
Pátzcuaro.....	.....	.....	153.400	95.34	2040.00	6693.13

FROM PIEDRAS NEGRAS OR CIUDAD PORFIRIO DIAZ TO DURANGO, BY THE MEXICAN INTERNATIONAL RAILWAY.

Ciudad Porfirio Diaz.....	6.540	4.06	0.000	0.00	220.00	721.81
Fuente.....	7.060	4.39	6.540	4.06	232.00	761.17
Rosa.....	26.200	16.29	13.600	8.45	278.00	912.11
Nava.....	11.960	7.44	39.800	24.74	324.00	1063.02
Allende.....	14.940	9.28	51.760	32.18	375.00	1230.35
Leona.....	15.640	9.71	66.700	41.46	455.00	1492.83
Peyotes.....	21.430	13.32	82.340	51.17	486.00	1594.55
Blanco.....	12.850	7.99	103.770	64.49	387.00	1269.73
Sabinas.....	15.850	9.85	116.620	72.48	340.00	1115.52
Soledad.....	10.650	6.61	132.470	82.33	371.00	1211.23
Baroterán.....	14.120	8.78	143.120	88.94	425.00	1394.40
Aura.....	15.090	9.39	157.240	97.72	453.00	1486.27
Obayos.....	15.330	9.52	172.330	107.11	396.00	1299.26
Baluarte.....	10.690	6.65	187.660	116.63	373.00	1223.79
Hermanas.....	21.230	13.18	198.350	123.28	396.00	1299.26
Adjuntas.....	13.570	8.44	219.580	136.46	465.00	1525.64
Estancia.....	4.770	2.97	233.150	144.90	547.00	1794.68
Monclova.....	18.560	11.54	237.920	147.87	587.00	1925.92
Castaña.....	14.920	9.29	256.480	159.41	748.00	2454.16
Gloria.....	19.590	12.16	271.400	168.70	823.00	2700.22
Bajan.....	12.420	7.71	290.990	180.86	843.00	2765.84
Joya.....	20.410	12.68	303.410	188.57	829.00	2719.91
Espinazo.....	12.080	7.52	323.820	201.25	817.00	2680.54
Reata.....	22.860	14.21	335.900	208.77	900.00	2952.85
Treviño (Venadito).....	26.040	16.16	358.760	222.98	890.00	2920.05
Sauceda.....	24.760	15.40	384.800	239.14	997.00	3271.11
Jaral.....	23.020	14.31	409.560	254.54	1144.00	3753.40
Pastora.....	21.610	13.44	432.580	268.85	1157.00	3796.06
Cármén.....	23.970	14.89	454.190	282.29	1182.00	3878.08
Paila.....	19.670	12.23	478.160	297.18	1188.00	3897.77
Mimbre.....	16.540	10.28	497.830	309.41	1132.00	3714.03
Rafael.....	12.970	8.05	514.370	319.69	1102.00	3615.60
Pozo.....	11.290	7.02	527.340	327.74	1105.00	3625.44

FROM PIEDRAS NEGRAS OR CIUDAD PORFIRIO DIAZ TO DURANGO, BY
THE MEXICAN INTERNATIONAL RAILWAY.—Continued.

STATIONS.	Distance between each station.		Distances.		Altitudes.	
	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Bola.....	13.480	8.38	538.630	334.76	1089.00	3572.96
Mayran.....	10.870	6.75	552.110	343.14	1094.00	3589.36
Hornos.....	13.410	8.35	562.980	349.89	1096.00	3595.93
Colonia.....	17.620	10.95	576.390	358.24	1105.00	3625.44
Matamoros.....	22.540	14.00	594.010	369.19	1112.00	3648.41
Torreón.....	8.050	5.00	616.550	383.19	1134.00	3720.59
San Carlos.....	15.740	9.18	624.600	388.19	1137.71	3732.77
Loma.....	19.280	11.98	640.340	397.97	1181.52	3876.51
Chocolate.....	20.870	12.98	659.620	409.95	1377.25	4518.69
Huarichic.....	15.200	9.45	680.490	422.93	1325.37	4348.45
Pedriceña.....	25.640	15.93	695.690	432.38	1318.85	4327.07
Pasaje.....	24.540	15.25	721.330	448.31	1605.28	5266.84
Yerbanis.....	21.580	13.41	745.870	463.56	1908.73	6262.53
Noria.....	12.760	7.93	767.450	476.97	1895.00	6217.40
Catalina.....	12.150	7.56	780.210	484.90	1969.47	6461.73
Tapona.....	22.040	13.70	792.360	492.46	1982.72	6505.21
Gabriel.....	16.930	10.52	814.400	506.16	1955.20	6414.91
Chorro.....	26.420	16.42	831.330	516.68	1868.10	6129.15
Labor.....	11.760	7.30	857.750	533.10	1864.38	6116.93
Durango.....			869.510	540.40	1880.13	6168.62

FROM SABINAS TO HONDO, A BRANCH OF THE SAME ROAD.

STATIONS.	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Sabinas.....	17.530	10.83	0.000	0.00	340.00	1115.52
San Felipe.....	2.380	1.48	17.430	10.83	313.00	1026.93
Hondo.....			19.810	12.31	319.00	1046.62

FROM THE CITY OF MEXICO TO CUERNAVACA AND ACAPULCO.
LINE FINISHED.

STATIONS.	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Mexico.....	28.060	17.44	0.000	0.00	2240.00	7349.27
Contreras.....	17.883	11.11	28.060	17.44	2480.00	8091.75
Ajusco.....	15.191	9.44	45.943	28.55	2840.00	9272.89
La Cima.....	12.966	8.07	61.134	37.99	3040.00	9974.08
Xacapexco (Tres Marias).....	18.400	11.43	74.100	46.06	2800.00	9186.75

LINE IN CONSTRUCTION.

STATIONS.	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
San Juanico.....	31.250	19.42	92.500	57.49	2290.00	7513.37
Cuernavaca.....	7.250	4.51	123.750	76.91	1520.00	4987.04
Jiutepec.....	6.750	4.20	131.000	82.42	1300.00	4265.23
San Vicente.....	21.000	13.05	137.750	85.62	1260.00	4134.00
Xoxocotla.....	14.050	8.73	158.750	98.67	1030.00	3379.38
Puente de Ixtla.....	8.950	5.56	172.800	107.40	900.00	2952.85
Río Amacusac.....	23.250	14.45	181.750	112.96	890.00	2920.05
Buena Vista.....	21.000	13.05	205.000	127.41	1200.00	3937.14
Iguala.....	11.000	6.84	226.000	140.46	720.00	2362.29
Tepecoacuilco.....	34.750	21.13	237.000	147.30	800.00	2624.76
Xalitla.....	12.050	7.91	271.750	168.47	620.00	2034.19
Mexcala.....	28.700	17.84	283.800	176.38	480.00	1574.86
Venta del Zopilote.....	11.500	7.15	312.500	194.22	760.00	2493.53
Zumpango.....	13.000	8.08	324.000	201.37	1000.00	3280.95

FROM THE CITY OF MEXICO TO CUERNAVACA AND ACAPULCO.
LINE IN CONSTRUCTION. (Continued.)

STATIONS.	Distance between each station.		Distances.		Altitudes.	
	Kilom's.	Miles.	Kilom's.	Miles.	Metre.	Feet.
Tierras Prietas.....	4.800	2.98	337.000	209.45	1320.00	4330.85
Chilpancingo.....	15.200	9.45	341.800	212.43	1200.00	3937.14
Cima de Valadez.....	8.250	5.12	357.000	221.88	1300.00	4265.23
La Imagen.....	11.750	7.31	365.250	227.00	1060.00	3477.81
Los Cajones.....	6.000	3.72	377.000	234.31	1000.00	3280.95
El Rincon.....	12.000	7.46	383.000	238.03	670.00	2198.24
Dos Caminos.....	12.000	7.46	395.000	245.49	600.00	1968.57
Tierra Colorada.....	9.000	5.60	407.000	252.95	300.00	984.28
Río Omitlán.....	4.000	2.48	416.000	258.55	180.00	590.57
Peregrino.....	32.000	19.89	420.000	261.03	140.00	459.33
Cacahuatpec.....	24.500	15.23	452.000	280.92	60.00	196.86
Marquez.....	16.500	10.25	476.500	296.15	20.00	65.62
Acapulco.....			493.000	306.40	0.00	0.00

FROM PUEBLA TO OAXACA, BY THE MEXICAN SOUTHERN RAILWAY.

STATIONS.	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Puebla.....	18.400	11.43	0.000	0.00	2157.00	7077.00
Amozoc.....	7.600	4.73	18.400	11.43	2312.00	7585.54
Santa Rosa.....	11.200	6.95	26.000	16.16	2295.00	7529.77
Tepeaca.....	17.400	10.82	37.200	23.11	2244.60	7364.41
Rosendo Márquez.....	10.500	6.53	54.600	33.93	2055.00	6742.34
Tecamachalco.....	12.600	7.83	65.100	40.46	2014.10	6608.15
Las Animas.....	9.400	5.84	77.700	48.29	2000.00	6561.89
Tlacotepec.....	31.300	19.46	87.100	54.13	1988.25	6523.35
Carnero.....	8.900	5.53	118.400	73.59	1752.37	5749.43
Tehuacan.....	14.700	9.13	127.300	79.12	1662.57	5454.81
La Huerta.....	6.300	3.92	142.000	88.25	1453.29	4768.18
Santa Cruz.....	10.900	6.76	148.300	92.17	1370.31	4495.91
Pantzingo.....	14.600	9.09	159.200	98.93	1246.00	4088.07
Nopala.....	6.400	3.97	173.800	108.02	1060.56	3479.65
Venta Salada.....	15.200	9.46	180.200	111.99	972.07	3189.31
San Antonio.....	8.700	5.40	195.400	121.45	787.92	2585.13
Mexía.....	20.300	12.62	204.100	126.85	695.00	2280.26
Tecomavaca.....	10.900	6.78	224.400	139.47	559.71	1836.38
Quiotepec.....	17.000	10.56	235.300	146.25	540.00	1771.71
Cuicatlan.....	4.800	2.98	252.300	156.81	592.00	1942.32
Tomellin.....	19.200	11.93	257.100	159.79	672.00	2204.80
Almoleas.....	16.500	10.26	276.300	171.72	1055.00	3461.40
Santa Catarina.....	16.200	10.06	292.800	181.98	1332.00	4370.22
El Parian.....	13.700	8.52	309.000	192.04	1495.00	4905.02
Las Sedas.....	12.800	7.96	322.700	200.56	1927.00	6322.39
San Pablo Huitzo.....	13.100	8.13	335.500	208.52	1695.00	5561.21
Villa de Etla.....	18.000	11.19	348.600	216.65	1642.00	5387.32
Oaxaca.....			366.600	227.84	1545.00	5069.06

FROM COATZACOALCOS TO SALINA CRUZ, BY THE NATIONAL
TEHUANTEPEC RAILWAY.

STATIONS.	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Coatzacoalcos.....	21.749	13.51	0.000	0.00	2.00	6.56
Los Ilmones.....	15.140	9.42	21.749	13.51	16.00	52.50
Chinameca.....	5.407	3.35	36.889	22.93	6.00	19.69
Jaltipan.....	20.547	12.77	42.296	26.28	40.00	131.24
Ojapa.....	12.568	7.83	62.843	39.05	32.00	104.99
Almagres.....	11.589	7.19	75.411	46.88	48.00	157.49

STATIONS.	Distance between each station.		Distances.		Altitudes.	
	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Juile.....	9.284	5.77	87.000	54.07	40.00	131.24
Medias Aguas.....	9.672	6.01	96.284	59.84	32.00	104.99
Tortugas.....	21.044	13.08	105.956	65.85	44.00	144.36
Santa Lucrecia.....	7.000	4.36	127.000	78.93	30.00	98.43
Los Muertos.....	10.000	6.21	134.000	83.29	35.00	114.83
Ubero.....	14.801	9.20	144.000	89.50	25.00	82.02
Tolosa.....	7.199	4.47	158.801	98.70	52.00	170.61
Palomares.....	20.570	12.78	166.000	103.17	88.00	288.73
Mogoñe.....	15.176	9.43	186.570	115.95	92.00	301.85
Rincon Antonio.....	13.254	8.25	201.746	125.38	176.00	577.45
Lagunas.....	17.764	11.04	215.000	133.63	260.00	853.05
Chivela.....	10.236	6.35	232.764	144.67	244.00	800.55
Rio Verde.....	17.186	10.68	243.000	151.02	115.00	377.30
San Gerónimo.....	28.218	17.54	260.186	161.70	56.00	183.74
Tehuantepec.....	3.596	2.24	288.404	179.24	36.00	108.12
Santa Cruz.....	17.617	10.94	292.000	181.48	36.00	108.12
Salina Cruz.....			309.617	192.42	2.00	6.56

FROM THE CITY OF MEXICO TO PACHUCA, BY THE HIDALGO AND NORTHEASTERN MEXICAN RAILWAY.

LINE FINISHED.

NORTHEASTERN RAILWAY FROM MEXICO TO TIZAYUCA.

	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Mexico.....	19.000	11.80	0.000	0.00	2264.76	7430.56
Canal.....	11.400	7.10	19.000	11.80	2266.01	7434.66
Ojo de Agua.....	5.200	3.23	30.400	18.90	2272.96	7457.46
Santa Ana.....	14.800	9.20	35.600	22.13	2271.36	7452.21
Tizayuca.....			50.400	31.33	2294.05	7528.62

HIDALGO RAILWAY TO TUXPAN.

	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Tizayuca.....	16.100	10.00				
Tezontepec.....	10.800	6.52	66.500	41.33	2344.87	7693.38
San Augustin.....	6.000	3.92	77.300	47.85	2390.00	7841.46
Tepa.....	8.400	5.23	83.300	51.77	2438.08	7999.21
Tecajete.....	11.900	7.38	91.700	57.00	2538.00	8327.04
Somo Riel.....	10.600	6.60	103.600	64.38	2638.50	8656.78
Las Lajas.....	7.000	4.34	114.200	70.98	2504.80	8218.10
Los Romeros.....	11.700	7.28	121.200	75.32	2392.80	7850.64
Santiago.....	5.700	3.54	132.900	82.60	2221.72	7289.33
Tulancingo.....	7.200	4.48	138.600	86.14	2187.29	7176.39
Sototlan.....			145.800	90.62	2171.46	7124.44

FROM TEPA TO PACHUCA, A BRANCH OF THE HIDALGO RAILROAD.

	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Tepa.....	8.700	5.41	0.000	0.00	2438.08	7999.21
Xochihuacan.....	17.300	10.75	8.700	5.41	2380.06	7808.85
Pachuca.....			26.000	16.16	2420.99	7493.15

FROM SAN AGUSTIN TO IROLO, A BRANCH OF THE HIDALGO RAILWAY.

	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
San Augustin.....	14.600	9.08	0.000	0.00	2390.00	7841.46
Tlanalapa.....	13.700	8.51	14.600	9.08	2437.39	7996.95
Irolo.....			28.300	17.59	2452.58	8046.78

FROM DURANGO TO MAZATLAN BY BRIDLE-PATH.

PLACES.	Altitudes.		PLACES.	Altitudes.	
	Metres.	Feet.		Metres.	Feet.
Durango.....	1880.13	6168.62	La Ramona.....	1220.00	4002.76
Salitre.....	1925.00	6315.82	El Chapote.....	950.00	3116.90
El Salto.....	1900.00	6233.80	Rio del Baluarte.....	630.00	2067.00
Arroyo Seco.....	1890.00	6201.00	La Ventanita.....	770.00	2526.34
Camino del Jaral.....	1890.00	6201.00	Sotolito.....	1550.00	5085.47
El Escalon.....	1980.00	6496.28	El Carrizo de Adentro.....	1825.00	5987.73
Las Indias.....	2120.00	6955.60	El Carrizo de Afuera.....	1860.00	6102.57
Calzon Roto.....	2180.00	7152.46	Las Loberas.....	1970.00	6463.47
El Pino.....	2260.00	7414.94	El Venteadero.....	1930.00	6332.23
Rio Chico.....	2020.00	6627.51	Puerta de los Pilares.....	1250.00	4101.19
La Palmita.....	2220.00	7283.70	Arroyo del Leon.....	1120.00	3674.66
Los Cerritos.....	2260.00	7414.94	Palotillo.....	1010.00	3313.76
Los Mimbres.....	2180.00	7152.46	Platanito.....	940.00	3084.09
Buena Vista.....	2330.00	7644.60	Santa Catarina.....	210.00	689.00
Los Charcos.....	2340.00	7674.41	El Limon.....	130.00	426.52
Los Navios.....	2350.00	7710.22	El Tecomate.....	110.00	360.90
Navajas.....	2260.00	7414.94	Tagarete.....	85.00	278.88
Llano Grande.....	2160.00	7086.84	Rio del Presidio.....	55.00	180.45
Cruz de Piedra.....	2230.00	7316.51	Porras.....	65.00	213.26
Coyotes.....	2270.00	7447.75	Sigueros.....	50.00	164.05
El Salto.....	2280.00	7480.56	La Cofradia.....	45.00	147.64
Piloncillos.....	2390.00	7841.46	Confite.....	62.00	203.42
La Florida.....	2440.00	8005.51	La Escondida.....	68.00	223.11
Junta de los Caminos.....	2390.00	7841.46	Las Higueras.....	30.00	98.43
El Tecomate.....	2100.00	6889.98	Las Conchas.....	22.30	73.16
Chavarría.....	1710.00	5610.43	Carboneras.....	15.50	50.85
La Cienega.....	2160.00	7086.84	Palos Prietos.....	1.54	5.05
Las Botijas.....	2050.00	6725.94	Mazatlan.....	0.00	0.00
La Escondida.....	2035.00	6676.72			

FROM MANZANILLO TO GUADALAJARA BY WAGON ROAD.

	Kilom's.	Miles.	Kilom's.	Miles.	Metres.	Feet.
Manzanillo.....	0.00	0.00				
Cerro del Vigia.....	125.00	410.11				
Cola de Iguana.....	50.00	164.05				
El Ciruelo.....	75.00	246.07				
Canoa Verde.....	75.00	246.07				
Las Trojes.....	100.00	328.09				
Valenzuela.....	125.00	410.11				
Tecolapa.....	175.00	574.16				
La Noria.....	312.00	1023.65				
La Presa.....	362.00	1187.70				
Colima.....	560.00	1837.33				
La Puerta.....	650.00	2132.62				
San Joaquin.....	650.00	2132.62				
Los Limones.....	850.00	2788.81				
San Gerónimo.....	900.00	2952.85				
Los Alcaracos.....	1100.00	3609.04				
La Quesería.....	1162.00	3812.46				
Tonila.....	1175.00	3854.61				
Barranca Cachepehuate.....	975.00	3198.92				
San Marcos.....	985.00	3231.73				
Barranca de Beltran.....	850.00	2788.81				
Playa.....	1025.00	3362.97				
Barranca Platanar.....	950.00	3116.90				
Loma.....	1225.00	4019.16				
Barranca de Atenquique.....	1025.00	3362.97				
Ocote Gacho.....	1250.00	4101.19				
Pedregal.....	1375.00	4511.30				
Ciudad Guzman (Zapotlan).....	1412.00	4632.70				
Santa Catarina.....	1412.00	4632.70				
La Cuesta.....	1450.00	4767.38				
San Nicolás.....	1300.00	4265.23				
Amatitlan.....	1325.00	4347.25				
Sayula.....	1350.00	4429.28				
Ojo de Agua.....	1360.00	4462.09				
Cofradia.....	1375.00	4511.30				
Techolula.....	1375.00	4511.30				
Cuevitas.....	1360.00	4462.09				
El Cuemasate.....	1325.00	4347.25				
El Crucero.....	1325.00	4347.25				
Cebollas.....	1350.00	4429.28				
Los Pozos.....	1325.00	4347.25				
Chimaltitan.....	1325.00	4347.25				
Ocotan.....	1330.00	4363.66				
Santa Ana Acatlan.....	1350.00	4429.28				
Puerta.....	1500.00	4921.42				
Cofradia.....	1512.00	4960.79				
Santa Cruz.....	1475.00	4987.05				
Arenal.....	1600.00	5429.52				
San Augustin.....	1575.00	5167.49				
La Calera.....	1575.00	5167.49				
Puente de Santa María.....	1550.00	5085.47				
Guadalajara.....	1500.00	4921.42				

FROM TEHUACAN TO OAXACA AND PUERTO ANGEL BY WAGON ROAD.

PLACES.	Altitudes.		PLACES.	Altitudes.	
	Metres.	Feet.		Metres.	Feet.
Tehuacan.....	1660.00	5446.38	Tierra Blanca.....	2000.00	6561.89
La Huerta.....	1480.00	4855.81	Rio Atoyac.....	1660.00	5446.38
Arroyo de Buena Vista.	1320.00	4330.85	San Pablo Huitzo.....	1700.00	5577.62
San Sebastian.....	1120.00	3674.66	Santiago Huitzo.....	1680.00	5512.00
Camino de Calipán....	1060.00	3477.81	Villa de Etla.....	1660.00	5446.38
Calaveras.....	960.00	3149.71	Dolores.....	1640.00	5380.76
San Antonio.....	900.00	2952.85	Panzacola.....	1540.00	5052.66
Hacienda de Ayotla..	860.00	2821.62	Oaxaca.....	1540.00	5052.66
Rio de Reyes.....	900.00	2952.85	San Agustin Juntas..	1530.00	5019.85
Tecomavaca.....	620.00	2034.19	Coyotepec.....	1600.00	5249.52
Rio Salado.....	600.00	1968.57	Cúspide.....	1900.00	6233.70
Campanario.....	730.00	2395.10	Santo Tomás Jaliera..	1830.00	6004.14
Organo.....	700.00	2296.67	Ocotlan.....	1720.00	5643.24
Pajarito.....	680.00	2231.05	Magdalena.....	1700.00	5577.62
Gavilan.....	600.00	1968.57	San Martin.....	1700.00	5577.62
Paraje Blanco.....	580.00	1902.95	Rio Coapa.....	1590.00	5216.71
Rio Seco.....	560.00	1837.33	Ejutla.....	1540.00	5052.66
Chonoslar.....	700.00	2296.67	Arrogante.....	1600.00	5249.52
Rancho de Urrutia...	620.00	2034.19	Chichovo.....	1840.00	6036.95
Rancho de Cuagulotal.	620.00	2034.19	Zopilote.....	1810.00	5938.52
Rancho de los Obos...	620.00	2034.19	Cúspide.....	1930.00	6332.23
Hacienda de Güendu-			Tlacuache.....	1840.00	6036.95
lain.....	620.00	2034.19	Tepehuaje.....	1780.00	5840.33
Rio Apoala.....	540.00	1771.71	Miahuatlan.....	1800.00	5905.71
Rio Tomellin.....	540.00	1771.71	Chapaneco.....	2230.00	7316.51
Balconcillo.....	680.00	2231.05	Agua del Sol.....	2400.00	7874.27
Rancho del Chilar....	660.00	2165.43	San José del Pacifico..	2600.00	8530.46
Infiernillo.....	660.00	2165.43	Garganta del Encino..	2800.00	9186.65
Don Dominguillo....	750.00	2460.72	Tres Cruces.....	3160.00	10367.79
Arroyo Dominguillo..	720.00	2362.29	Rancho de Canoas...	3000.00	9842.84
Arroyo de Nopala....	710.00	2329.48	San Miguel Xuchistepec	2780.00	9121.04
El Pochote.....	1240.00	4068.38	Rio de San José.....	2340.00	7677.41
Canton de Buena Vista.	1360.00	4462.09	Cerro de Santa Ana...	2720.00	8858.56
Cúspide.....	1500.00	4921.42	Cerro de San Pedro...	2500.00	8202.36
Puente de la Joya....	1400.00	3412.19	El Porvenir.....	800.00	2624.76
Venta Vieja.....	1600.00	5249.52	Garganta del Cerro de		
Paredones.....	1840.00	6036.95	la Pluma.....	900.00	2952.85
Llano del Timbre....	1900.00	6233.70	La Providencia.....	830.00	2723.19
Cieneguilla.....	2020.00	6627.51	La Soledad.....	750.00	2460.72
Portezuelo.....	2220.00	7283.70	San José Totoltepec..	530.00	1738.90
Las Trancas.....	2080.00	6824.37	Rio Chacalapa.....	340.00	1115.52
Carbonera.....	2160.00	7086.84	Pochutla.....	160.00	524.95
Ojo de Agua.....	2100.00	6889.98	Puerto Angel.....	0.00	0.00

THE VALLEY OF MEXICO'S DRAINAGE.¹

Mexico is finishing a great work, the drainage of the valley where the capital city is located, which has required for its completion nearly three hundred years and many millions of dollars, and has cost the lives of hundreds of thousands of men. The necessity, importance,

¹ This article was published in the *Engineering Magazine* of New York for January, 1895 (vol. viii., No 4), but has since been revised and considerably enlarged.

and magnitude of this work, which will be classed among the grandest achievements of men, and the nearness of its completion, induce me to write this paper, which I hope will give some idea of its scope and purpose. I do not pretend to originality, as my work to some extent has been one of compilation from different monographs, which have appeared from time to time, and from some official publications of the Mexican Government.

Topographical Conditions of the Valley of Mexico.—The Valley of Mexico is an immense basin, of approximately circular shape with one extreme diameter of about sixty miles, completely bounded by high mountains, and having only two or three quite high passes out of it. No water drains out of the basin. The surface of this valley has a mean altitude above the sea of 7413 feet and an area of about 2220 square miles.

Mountain ranges rise on every side, making a great corral of rock containing dozens of villages and hamlets, with the ancient capital in the centre. In times past the fires of volcanoes licked up the earth, and such fires still live in the mammoth Popocatepetl, from whose great crater sulphur fumes and smoke with jets of flame have poured through the centuries.

The valley thus hemmed in with solid walls of rock had been an inland sea for many cycles, and during the early existence of man here the salt waters spread over a large extent of the depression. The waters have been gradually lessening by seepage and evaporation, and the Aztec pilgrims coming from the north in the fourteenth century, having received a sign that they were to build their queen-of-the-world city on a small island of the sea, set about building dikes and combating the overflow of the waters.

Evaporation is so excessive at certain periods of the year that malaria, consequent on drought, was far more dreaded by the inhabitants than the periodical floods, and thousands perished annually, so that proper drainage was an absolute necessity for the preservation of health.

Work done by the Indians.—Nearly fifty years before the discovery of America, which took place in 1492, Netzahualcoyotl, saw the necessity for a drainage canal, and commenced the work in 1450. He constructed an immense dike to divide the fresh from the salt-water lakes of the valley. The City of Mexico was at this time the centre of the Aztec nation, and was built on floating structures, like rafts, on the water in the numerous islets on the margins of the lakes, so that in the event of the water rising or the city being subjected to a state of siege, the whole city would float. Mexico City now occupies the site of the old Aztec capital.

The waters of these lakes were liable to disturbances of all kinds;