



# ESTUDIO DE ORIGEN, DESTINO Y PESO 2007

ZONA 1

SUBSECRETARÍA DE INFRAESTRUCTURA

DIRECCIÓN GENERAL DE SERVICIOS TÉCNICOS



## **SUBSECRETARÍA DE INFRAESTRUCTURA**

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## **PRESENTACIÓN**

La Secretaría de Comunicaciones y Transportes, para la elaboración de los programas de construcción de carreteras nuevas, de modernización y conservación de la red en operación, requiere conocer las características de movimientos de bienes y personas que utilizan el transporte por carretera, con objeto de conformar una red convenientemente estructurada para atender con eficiencia la demanda del transporte en el país.

Para este fin, la información que en el campo de ingeniería de tránsito proporcionan los estudios de origen – destino y pesaje dinámico, resulta básica, pues permite conocer el deseo de movimiento de los usuarios, así como los datos relativos al motivo de viaje, tipo y toneladas de productos transportados y el peso de los vehículos utilizados, entre otros datos.

En este documento la Dirección General de Servicios Técnicos da a conocer, la síntesis de la información más sobresaliente de los estudios de origen – destino y peso, que efectuó en cinco puntos de la red carretera del país, en el año 2007.

### **DIRECCIÓN GENERAL DE SERVICIOS TÉCNICOS**

Dirección de Vialidad y Proyectos

Subdirección de Ingeniería de Tránsito

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### ZONA 1

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| Carretera:   | Cd. Victoria - Monterrey                           |    |
| Tramo:       | Lim. de Edos. ( Tamps. - N.L. ) - Linares          |    |
| Km.:         | 147+200                                            |    |
| Estación:    | "MANUEL "                                          | 19 |
| Carretera:   | Tampico - Cd. Mante                                |    |
| Tramo:       | T. Der. Lomas del Real - Estación Manuel           |    |
| Km.:         | 70+700                                             |    |
| Estación:    | "AEROPUERTO"                                       | 31 |
| Carretera:   | Pachuca - Ent. Cañada Rica                         |    |
| Tramo:       | Ent. Empalme - Ent. Tihuatlán 1                    |    |
| Km.:         | 204+200                                            |    |
| Estación:    | "NUEVO VIVERO"                                     | 39 |
| Carretera:   | Coatzacoalcos - Minatitlán (Vía Cántica)           |    |
| Tramo:       | Coatzacoalcos - T.C. (Coatzacoalcos - Salina Cruz) |    |
| Km.:         | 13+000                                             |    |
| Estación:    | "CAÑITAS"                                          | 47 |
| Carretera:   | Villahermosa - Escopetazo                          |    |
| Tramo:       | Bochil - Escopetazo                                |    |
| Km.:         | 247+000                                            |    |

## INTRODUCCIÓN

Los estudios de origen, destino y peso han sido diseñados para obtener información del movimiento de bienes y personas, desde varias zonas de origen hacia otras de destino, a través de encuestas realizadas por medio de entrevista directa a todos los conductores que transitan por el lugar de estudio y medición dinámica del peso de los vehículos de carga, durante las 24 horas de los días de muestra.

La información obtenida de estos estudios, posibilita profundizar en el conocimiento real de la demanda del transporte, dado que permite analizar sus características que, relacionadas con otras circunstancias entre los medios rural y urbano, coadyuvan en la planeación de los sistemas transporte y en particular en la localización, proyecto y programación de carreteras nuevas, así como en modernización y conservación de las ya existentes.

Estos estudios también se han orientado al conocimiento detallado de una serie de elementos que conforman el problema general de pesos y dimensiones de los vehículos que circulan por la red carretera con objeto de fundamentar por una parte, la normativa para el proyecto estructural de la infraestructura y por otro, establecer los límites legales sobre el peso y las dimensiones de los vehículos.

La entrevista directa a los conductores, se realizó aplicando la cédula de encuesta como la que se presenta al final de esta introducción y la medición del peso de los vehículos de carga, se hizo de manera directa por medio de pesadoras dinámicas, y los resultados se proporcionan en forma detallada para los cinco tipos de camiones más usuales, agrupando al resto en el rubro de “otros”, como se muestra a continuación.

| TIPO DE VEHICULO | DESCRIPCIÓN                                                                  |
|------------------|------------------------------------------------------------------------------|
| A                | Automóviles                                                                  |
| U                | Utilitario (Pick Up, Ram, Panel, Van, etc.)                                  |
| B                | Autobuses                                                                    |
| C2               | Camión Unitario de Dos Ejes                                                  |
| C3               | Camión Unitario de Tres Ejes                                                 |
| T3 - S2          | Tractor de Tres Ejes con Semirremolque de Dos Ejes                           |
| T3 – S3          | Tractor de Tres Ejes con Semirremolque de Tres Ejes                          |
| T3 – S2 – R4     | Tractor de Tres Ejes con Semirremolque de Dos Ejes y remolque de Cuatro ejes |
| Otros            | Otras Combinaciones de Camiones                                              |

La información sintetizada de los estudios de origen – destino y peso, incluye entre otros aspectos: la ubicación y periodo del estudio; el volumen de tránsito y su composición vehicular; el promedio de pasajeros y de tripulantes por vehículo; el motivo de viaje; las toneladas transportadas por tipo de producto; el peso bruto vehicular y por eje y las principales rutas de origen y destino agrupadas de acuerdo a la importancia de su volumen de tránsito.

Para facilitar el uso y manejo de la información aquí contenida, se ha incluido en esta presentación un disco compacto con la información antes descrita. Para consultas de mayor detalle se tiene a disposición en medios magnéticos la base de datos con toda la información recopilada.

DIRECCIÓN GENERAL DE SERVICIOS TÉCNICOS

DIRECCIÓN DE VIALIDAD Y PROYECTOS

SUBDIRECCIÓN DE INGENIERÍA DE TRÁNSITO

De:

A:

|   |   |   |     |     |     |   |   |      |
|---|---|---|-----|-----|-----|---|---|------|
| S | E | N | AÑO | MES | DIA | D | S | HORA |
|   |   |   |     |     |     |   |   |      |

ESTUDIO DE ORIGEN - DESTINO, ENTREVISTA DIRECTA Y PESO DE VEHICULOS DE CARGA

CARRETERA:

KM:

ESTACION:

|    | TIPO DE VEHICULO |   |   |   | CARGA | ORIGEN |           |     | DESTINO   |     | MARCA | AÑO<br>(MODELO) | COMBUS-<br>TIBLE | A,B<br>PASAJEROS | U,B,C<br>TRIP. | MOTIVO DE VIAJE<br>T P | C A R G A     |          |        |                         |         |  |  |              |              |  |  |
|----|------------------|---|---|---|-------|--------|-----------|-----|-----------|-----|-------|-----------------|------------------|------------------|----------------|------------------------|---------------|----------|--------|-------------------------|---------|--|--|--------------|--------------|--|--|
|    | A                | U | B | C |       | PLACA  | POBLACION | EDO | POBLACION | EDO |       |                 |                  |                  |                |                        | TIPO DE CARGA | CANTIDAD | UNIDAD | TONELADAS<br>DECLARADAS | MERCADO |  |  | TIPO DE CAJA | PSD<br>(Ton) |  |  |
| 1  | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 2  | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 3  | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 4  | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 5  | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 6  | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 7  | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 8  | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 9  | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 10 | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 11 | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 12 | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 13 | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 14 | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |
| 15 | A                | U |   |   |       |        |           |     |           |     |       |                 | G D GAS          |                  |                |                        | T P           |          |        |                         |         |  |  |              | I E MI       |  |  |

TIPO DE VEHICULO

A = AUTOMOVIL

U = UTILITARIO (PICK UP, RAM, PANEL, VAN, ETC.)

B = AUTOBUS

C = CAMION

AUTOBUS

M = MICROBUS

2 = AUTOBUS DE DOS EJES

3 = AUTOBUS DE TRES EJES

4 = AUTOBUS DE 4 EJES

COMBUSTIBLE

G = GASOLINA

D = DIESEL

GAS

MOTIVO DE VIAJE

T = TRABAJO

P = PASEO

UNIDAD

T= TONELADAS

C= CABEZAS

KG= KILOS

L= LITROS

P= PIEZAS

G= GRANEL

O= OTRA

MERCADO

I= IMPORTACION

E= EXPORTACION

Mi= INTERNO

TIPO DE CAJA

CS= CAJA SECA

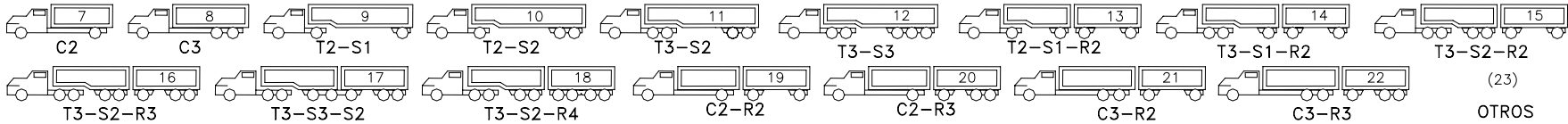
P= PLATAFORMA

R= REDILAS

CO= CONTENEDOR

PI= PIPA

JA= JAULA



**ESTUDIO DE ORIGEN – DESTINO Y PESO**  
**ESTACIÓN “PERICO 4”**

CARRETERA: **CD. VICTORIA – MONTERREY**

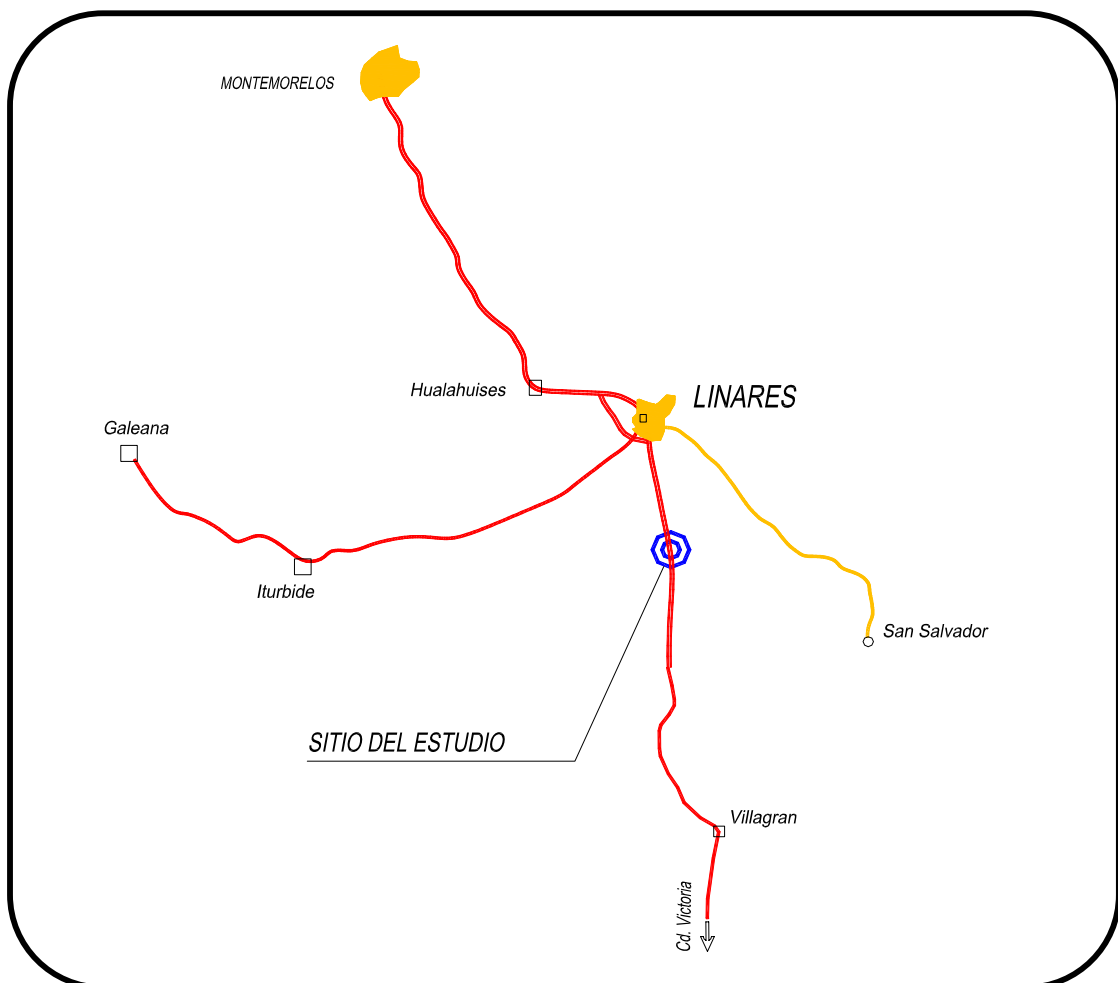
TRAMO: **LÍM. DE EDOS. ( TAMPS. – N.L. ) – LINARES**

Km: **147 + 200**

REFERENCIA GEOGRÁFICA: **Lat = 24°42'11" N, Long = 99°32'06" W**

ORIGEN: **CD. VICTORIA**

ESTUDIO EFECTUADO DEL 14 AL 17 DE AGOSTO DE 2007



## SINTESIS DEL ESTUDIO ORIGEN-DESTINO

### ESTACION "PERICO 4"

CARRETERA: **CD. VICTORIA - MONTERREY**

LUGAR: **KM 147+200**

ORIGEN: **CD. VICTORIA**

TRAMO: **LIM. DE EDOS. (TAMPS.-N. L.) - LINARES**

FECHA: **DEL 14 AL 17 DE AGOSTO DE 2007**

#### 1.- VOLUMENES DE TRANSITO

(Número de Vehículos)

|                            |       |  |                         |      |                            |      |                       |      |
|----------------------------|-------|--|-------------------------|------|----------------------------|------|-----------------------|------|
| HACIA: <b>MONTERREY</b>    | 14386 |  | HACIA: <b>MONTERREY</b> | 3597 | HACIA: <b>CD. VICTORIA</b> | 3710 | <b>AMBOS SENTIDOS</b> | 7306 |
| HACIA: <b>CD. VICTORIA</b> | 14838 |  | PROMEDIO DIARIO         | 367  |                            | 304  |                       | 612  |
| TOTAL AFORADO              | 29224 |  | MAXIMO HORARIO          |      |                            |      |                       |      |

| TRANSITO DIARIO | HACIA: <b>MONTERREY</b> | MAXIMO HORARIO |      | HACIA: <b>CD. VICTORIA</b> | MAXIMO HORARIO |      | TOTAL |
|-----------------|-------------------------|----------------|------|----------------------------|----------------|------|-------|
|                 |                         | A.M.           | P.M. |                            | A.M.           | P.M. |       |
| LUNES           |                         |                |      |                            |                |      |       |
| MARTES          | 3712                    | 205            | 367  | 3997                       | 299            | 289  | 7709  |
| MIÉRCOLES       | 3179                    | 167            | 207  | 3183                       | 218            | 171  | 6362  |
| JUEVES          | 3642                    | 169            | 276  | 3667                       | 252            | 267  | 7309  |
| VIERNES         | 3853                    | 182            | 276  | 3991                       | 229            | 304  | 7844  |
| SÁBADO          |                         |                |      |                            |                |      |       |
| DOMINGO         |                         |                |      |                            |                |      |       |
| TOTAL           | 14386                   |                |      | 14838                      |                |      | 29224 |

#### 2.- CLASIFICACION VEHICULAR

(Número de Vehículos)

| TIPO DE VEHICULO | HACIA: <b>MONTERREY</b> | HACIA: <b>CD. VICTORIA</b> | TOTAL | %    |
|------------------|-------------------------|----------------------------|-------|------|
| A                | 4394                    | 5004                       | 9398  | 32%  |
| U                | 4158                    | 4112                       | 8270  | 28%  |
| B                | 723                     | 698                        | 1421  | 5%   |
| C2               | 901                     | 1027                       | 1928  | 7%   |
| C3               | 565                     | 560                        | 1125  | 4%   |
| T3-S2            | 1186                    | 1259                       | 2445  | 8%   |
| T3-S3            | 857                     | 742                        | 1599  | 5%   |
| T3-S2-R4         | 1401                    | 1225                       | 2626  | 9%   |
| OTROS            | 201                     | 211                        | 412   | 1%   |
| TOTAL            | 14386                   | 14838                      | 29224 | 100% |

### 3.- PROMEDIO DE PASAJEROS POR VEHICULO Y POR SENTIDO

| TIPO DE VEHICULO | HACIA: MONTERREY | HACIA: CD. VICTORIA | AMBOS SENTIDOS |
|------------------|------------------|---------------------|----------------|
| AUTOMOVILES      | 3.24             | 3.11                | 3.17           |
| AUTOBUSES        | 20.91            | 21.07               | 20.99          |

### 4.- PROMEDIO DE TRIPULANTES POR TIPO DE VEHICULO (Número de Personas)

| TIPO DE VEHICULO | HACIA: MONTERREY | HACIA: CD. VICTORIA | AMBOS SENTIDOS |
|------------------|------------------|---------------------|----------------|
| U                | 2.23             | 2.21                | 2.22           |
| B                | 1.42             | 1.44                | 1.43           |
| C2               | 1.41             | 1.35                | 1.38           |
| C3               | 1.28             | 1.22                | 1.25           |
| T3-S2            | 1.19             | 1.19                | 1.19           |
| T3-S3            | 1.19             | 1.20                | 1.19           |
| T3-S2-R4         | 1.20             | 1.19                | 1.19           |
| OTROS            | 1.25             | 1.27                | 1.26           |

### 5.- MOTIVO DEL VIAJE DE LOS AUTOMOVILES (Número de Vehículos)

| MOTIVO  | HACIA: MONTERREY |     | HACIA: CD. VICTORIA |     | AMBOS SENTIDOS |     |
|---------|------------------|-----|---------------------|-----|----------------|-----|
| TRABAJO | 1309             | 30% | 2046                | 41% | 3355           | 36% |
| PASEO   | 3085             | 70% | 2958                | 59% | 6043           | 64% |

### 6.- CAMIONES CON CARGA Y SIN CARGA POR SENTIDO

| TIPO DE VEHICULO | HACIA: MONTERREY |           | HACIA: CD. VICTORIA |           | AMBOS SENTIDOS |           |
|------------------|------------------|-----------|---------------------|-----------|----------------|-----------|
|                  | CON CARGA        | SIN CARGA | CON CARGA           | SIN CARGA | CON CARGA      | SIN CARGA |
| C2               | 261              | 640       | 792                 | 235       | 1053           | 875       |
| C3               | 192              | 373       | 428                 | 132       | 620            | 505       |
| T3-S2            | 523              | 663       | 926                 | 333       | 1449           | 996       |
| T3-S3            | 516              | 341       | 588                 | 154       | 1104           | 495       |
| T3-S2-R4         | 774              | 627       | 926                 | 299       | 1700           | 926       |
| OTROS            | 85               | 116       | 185                 | 26        | 270            | 142       |
| TOTAL            | 2351             | 2760      | 3845                | 1179      | 6196           | 3939      |

## 7.- TONELADAS TRANSPORTADAS POR TIPO DE PRODUCTO Y POR SENTIDO

SENTIDO: 1

HACIA: MONTERREY

| TIPO DE PRODUCTO                                               | TONELADAS TRANSPORTADAS |       |             |        |             |        |             |         |             |         |             |        |             |         |
|----------------------------------------------------------------|-------------------------|-------|-------------|--------|-------------|--------|-------------|---------|-------------|---------|-------------|--------|-------------|---------|
|                                                                | C2                      |       | C3          |        | T3-S2       |        | T3-S3       |         | T3-S2-R4    |         | OTROS       |        | SUBTOTAL    |         |
|                                                                | No. DE VEH.             | (t)   | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)     | No. DE VEH. | (t)     | No. DE VEH. | (t)    | No. DE VEH. | (t)     |
| 1.- FORESTALES                                                 | 4                       | 34.0  | 10          | 78.1   | 22          | 481.1  | 38          | 958.2   | 68          | 2472.3  | 11          | 121.4  | 153         | 4145.1  |
| 2.- AGRICOLAS                                                  | 24                      | 101.8 | 46          | 479.7  | 67          | 1171.6 | 30          | 705.2   | 67          | 1885.7  | 7           | 46.2   | 241         | 4390.2  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 22                      | 82.8  | 14          | 124.2  | 51          | 912.8  | 8           | 202.1   | 29          | 711.5   | 20          | 541.3  | 144         | 2574.7  |
| 4.- MINERALES                                                  | 6                       | 14.8  | 4           | 38.6   | 22          | 469.3  | 45          | 1356.6  | 71          | 2796.3  | 4           | 221.3  | 152         | 4896.9  |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 3                       | 11.2  | 2           | 7.7    | 12          | 311.5  | 40          | 1147.1  | 50          | 2190.6  |             |        | 107         | 3668.1  |
| 6.- INORGANICOS                                                | 8                       | 35.4  | 2           | 30.5   | 24          | 567.4  | 64          | 1842.9  | 32          | 1364.9  |             |        | 130         | 3841.1  |
| 7.- INDUSTRIALES                                               | 164                     | 443.2 | 102         | 696.0  | 282         | 4489.2 | 242         | 5703.6  | 409         | 13191.7 | 35          | 713.7  | 1234        | 25237.4 |
| 8.- VARIOS                                                     | 30                      | 117.3 | 12          | 75.6   | 43          | 696.7  | 49          | 1072.6  | 48          | 1549.3  | 8           | 104.6  | 190         | 3616.1  |
| TOTAL                                                          | 261                     | 840.5 | 192         | 1530.4 | 523         | 9099.6 | 516         | 12988.3 | 774         | 26162.3 | 85          | 1748.5 | 2351        | 52369.6 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.2                     |       | 8.0         |        | 17.4        |        | 25.2        |         | 33.8        |         | 20.6        |        | 22.3        |         |

SENTIDO: 2

HACIA: CD. VICTORIA

|                                                                | TONELADAS TRANSPORTADAS |        |             |        |             |         |             |         |             |          |             |        |             |         |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|---------|-------------|---------|-------------|----------|-------------|--------|-------------|---------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |        | T3-S2       |         | T3-S3       |         | T3-S2-R4    |          | OTROS       |        | SUBTOTAL    |         |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)     | No. DE VEH. | (t)     | No. DE VEH. | (t)      | No. DE VEH. | (t)    | No. DE VEH. | (t)     |
| 1.- FORESTALES                                                 | 12                      | 59.2   | 6           | 54.8   | 12          | 240.8   | 12          | 158.6   | 13          | 401.9    |             |        | 55          | 915.3   |
| 2.- AGRICOLAS                                                  | 51                      | 167.1  | 62          | 592.6  | 68          | 906.7   | 28          | 444.6   | 32          | 945.4    | 8           | 66.9   | 249         | 3123.3  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 63                      | 226.2  | 39          | 335.9  | 77          | 1212.6  | 3           | 88.8    | 30          | 827.6    | 3           | 43.4   | 215         | 2734.5  |
| 4.- MINERALES                                                  | 15                      | 91.3   | 16          | 205.1  | 27          | 521.2   | 22          | 562.9   | 53          | 1935.7   | 2           | 35.0   | 135         | 3351.2  |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 19                      | 82.4   | 13          | 91.5   | 25          | 600.0   | 45          | 1028.5  | 38          | 1382     | 7           | 108.6  | 147         | 3293.0  |
| 6.- INORGANICOS                                                | 7                       | 17.6   | 7           | 54.0   | 10          | 171.3   | 48          | 1224.5  | 41          | 1620.9   |             |        | 113         | 3088.3  |
| 7.- INDUSTRIALES                                               | 535                     | 1877.2 | 249         | 1853.3 | 608         | 9812.1  | 406         | 8740.5  | 614         | 17455.77 | 146         | 2230.1 | 2558        | 41969.0 |
| 8.- VARIOS                                                     | 90                      | 291.3  | 36          | 260.0  | 99          | 1391.7  | 24          | 506.7   | 105         | 3236.1   | 19          | 243.2  | 373         | 5929.0  |
| TOTAL                                                          | 792                     | 2812.3 | 428         | 3447.2 | 926         | 14856.4 | 588         | 12755.1 | 926         | 27805.4  | 185         | 2727.2 | 3845        | 64403.6 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.6                     |        | 8.1         |        | 16.0        |         | 21.7        |         | 30.0        |          | 14.7        |        | 16.7        |         |

### AMBOS SENTIDOS

|                                                                | TONELADAS TRANSPORTADAS |        |             |        |             |         |             |         |             |         |             |        |             |          |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|---------|-------------|---------|-------------|---------|-------------|--------|-------------|----------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |        | T3-S2       |         | T3-S3       |         | T3-S2-R4    |         | OTROS       |        | SUBTOTAL    |          |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)     | No. DE VEH. | (t)     | No. DE VEH. | (t)     | No. DE VEH. | (t)    | No. DE VEH. | (t)      |
| 1.- FORESTALES                                                 | 16                      | 93.2   | 16          | 132.9  | 34          | 721.9   | 50          | 1116.8  | 81          | 2874.2  | 11          | 121.4  | 208         | 5060.4   |
| 2.- AGRICOLAS                                                  | 75                      | 268.9  | 108         | 1072.3 | 135         | 2078.3  | 58          | 1149.8  | 99          | 2831.1  | 15          | 113.1  | 490         | 7513.5   |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 85                      | 309.0  | 53          | 460.1  | 128         | 2125.4  | 11          | 290.9   | 59          | 1539.1  | 23          | 584.7  | 359         | 5309.2   |
| 4.- MINERALES                                                  | 21                      | 106.1  | 20          | 243.7  | 49          | 990.5   | 67          | 1919.5  | 124         | 4732.0  | 6           | 256.3  | 287         | 8248.1   |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 22                      | 93.6   | 15          | 99.2   | 37          | 911.5   | 85          | 2175.6  | 88          | 3572.6  | 7           | 108.6  | 254         | 6961.1   |
| 6.- INORGANICOS                                                | 15                      | 53.0   | 9           | 84.5   | 34          | 738.7   | 112         | 3067.4  | 73          | 2985.8  | 0           | 0.0    | 243         | 6929.4   |
| 7.- INDUSTRIALES                                               | 699                     | 2320.4 | 351         | 2549.3 | 890         | 14301.3 | 648         | 14444.1 | 1023        | 30647.5 | 181         | 2943.8 | 3792        | 67206.4  |
| 8.- VARIOS                                                     | 120                     | 408.6  | 48          | 335.6  | 142         | 2088.4  | 73          | 1579.3  | 153         | 4785.4  | 27          | 347.8  | 563         | 9545.1   |
| TOTAL                                                          | 1053                    | 3652.8 | 620         | 4977.6 | 1449        | 23956.0 | 1104        | 25743.4 | 1700        | 53967.7 | 270         | 4475.7 | 6196        | 116773.2 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.5                     |        | 8.0         |        | 16.5        |         | 23.3        |         | 31.7        |         | 16.6        |        | 18.8        |          |

### 8.- DISTRIBUCION DEL PESO PROMEDIO POR EJE Y POR TIPO DE VEHICULO DEL TOTAL DE CAMIONES REGISTRADOS

CARRETERA: **CD. VICTORIA - MONTERREY**

KM: **147+200**

EST: **PERICO 4**

| TIPO DE VEHICULO | TOTAL DE VEHICULOS | PESO BRUTO VEHICULAR PROM. (t) | PESO PROMEDIO POR EJE (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 1928               | 7.15                           | 2.67                      | 4.48 |      |      |      |      |      |      |      |
| C3               | 1125               | 11.93                          | 3.21                      | 4.49 | 4.23 |      |      |      |      |      |      |
| T3-S2            | 2445               | 25.36                          | 4.00                      | 5.68 | 5.55 | 5.02 | 5.11 |      |      |      |      |
| T3-S3            | 1599               | 33.80                          | 4.12                      | 6.60 | 6.53 | 5.50 | 5.48 | 5.57 |      |      |      |
| T3-S2-R4         | 2626               | 47.23                          | 3.73                      | 5.93 | 5.89 | 5.32 | 5.40 | 5.34 | 4.99 | 5.26 | 5.37 |

### 9.- DISTRIBUCION DEL PESO PROMEDIO POR EJE Y POR TIPO DE VEHICULO DEL TOTAL DE VEHICULOS CARGADOS

CARRETERA: **CD. VICTORIA - MONTERREY**

KM: **147+200**

EST: **PERICO 4**

| TIPO DE VEHICULO | TOTAL DE VEHICULOS | PESO BRUTO VEHICULAR PROM. (t) | PESO PROMEDIO POR EJE (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 1053               | 8.61                           | 3.14                      | 5.47 |      |      |      |      |      |      |      |
| C3               | 620                | 15.11                          | 3.78                      | 5.77 | 5.56 |      |      |      |      |      |      |
| T3-S2            | 1449               | 32.10                          | 4.48                      | 7.20 | 7.11 | 6.59 | 6.72 |      |      |      |      |
| T3-S3            | 1104               | 39.85                          | 4.36                      | 7.78 | 7.74 | 6.64 | 6.60 | 6.73 |      |      |      |
| T3-S2-R4         | 1700               | 58.32                          | 3.92                      | 7.25 | 7.21 | 6.75 | 6.83 | 6.62 | 6.23 | 6.68 | 6.83 |

**10.- VOLUMENES DE TRANSITO POR RUTA**

| RUTAS PRINCIPALES          |                         |       |      |      |     |     |     |       |       |          |       |       |     |      | TOTAL | % DEL TOTAL | PROM. DIARIO |
|----------------------------|-------------------------|-------|------|------|-----|-----|-----|-------|-------|----------|-------|-------|-----|------|-------|-------------|--------------|
|                            |                         |       | A    | U    | B   | C2  | C3  | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B   | C    |       |             |              |
| TAMPICO                    | TAMPS MONTERREY         | N L   | 2604 | 1373 | 370 | 395 | 216 | 517   | 294   | 495      | 103   | 3977  | 370 | 2020 | 6367  | 21.79%      | 1592         |
| CIUDAD VICTORIA            | TAMPS MONTERREY         | N L   | 1968 | 1389 | 442 | 468 | 204 | 258   | 155   | 188      | 51    | 3357  | 442 | 1324 | 5123  | 17.53%      | 1281         |
| TAMPICO                    | TAMPS LINARES           | N L   | 552  | 964  | 23  | 59  | 30  | 33    | 19    | 18       |       | 1516  | 23  | 159  | 1698  | 5.81%       | 425          |
| CIUDAD VICTORIA            | TAMPS LINARES           | N L   | 499  | 767  | 17  | 82  | 22  | 31    | 17    | 28       | 2     | 1266  | 17  | 182  | 1465  | 5.01%       | 366          |
| ALTAMIRA                   | TAMPS MONTERREY         | N L   | 75   | 58   | 13  | 69  | 44  | 240   | 151   | 518      | 25    | 133   | 13  | 1047 | 1193  | 4.08%       | 298          |
| VILLAGRAN                  | TAMPS LINARES           | N L   | 253  | 464  | 6   | 26  | 5   | 3     |       | 2        |       | 717   | 6   | 36   | 759   | 2.60%       | 190          |
| VERACRUZ                   | VER MONTERREY           | N L   | 187  | 130  | 41  | 43  | 27  | 119   | 79    | 98       | 11    | 317   | 41  | 377  | 735   | 2.52%       | 184          |
| CIUDAD MANTE               | TAMPS MONTERREY         | N L   | 250  | 181  | 25  | 60  | 40  | 39    | 20    | 27       | 7     | 431   | 25  | 193  | 649   | 2.22%       | 162          |
| CIUDAD VALLES              | SLP MONTERREY           | N L   | 166  | 127  | 85  | 29  | 24  | 40    | 17    | 41       | 7     | 293   | 85  | 158  | 536   | 1.83%       | 134          |
| HIDALGO                    | TAMPS MONTERREY         | N L   | 191  | 194  | 7   | 14  | 9   | 17    | 6     | 13       |       | 385   | 7   | 59   | 451   | 1.54%       | 113          |
| VILLAGRAN                  | TAMPS MONTERREY         | N L   | 102  | 143  | 3   | 20  | 8   | 7     | 27    | 6        |       | 245   | 3   | 68   | 316   | 1.08%       | 79           |
| HIDALGO                    | TAMPS LINARES           | N L   | 97   | 170  | 7   | 17  | 3   | 3     |       | 1        | 4     | 267   | 7   | 28   | 302   | 1.03%       | 76           |
| CIUDAD MANTE               | TAMPS LINARES           | N L   | 99   | 171  |     | 12  | 7   | 4     | 2     |          |       | 270   | 0   | 25   | 295   | 1.01%       | 74           |
| TAMPICO                    | TAMPS SALTILLO          | COAH  | 101  | 34   |     | 12  | 6   | 42    | 19    | 36       | 18    | 135   | 0   | 133  | 268   | 0.92%       | 67           |
| TAMPICO                    | TAMPS NUEVO LAREDO      | TAMPS | 64   | 56   | 38  | 15  | 8   | 33    | 6     | 18       |       | 120   | 38  | 80   | 238   | 0.81%       | 60           |
| POZA RICA DE HIDALGO       | VER MONTERREY           | N L   | 68   | 28   | 61  | 14  | 11  | 13    | 15    | 14       | 6     | 96    | 61  | 73   | 230   | 0.79%       | 58           |
| SOTO LA MARINA             | TAMPS MONTERREY         | N L   | 104  | 73   |     | 15  | 2   | 12    |       | 8        | 12    | 177   | 0   | 49   | 226   | 0.77%       | 57           |
| TAMPICO                    | TAMPS TORREON           | COAH  | 34   | 22   | 5   | 9   | 4   | 31    | 46    | 47       | 6     | 56    | 5   | 143  | 204   | 0.70%       | 51           |
| TAMPICO                    | TAMPS CADEREYTA JIMENEZ | N L   | 98   | 44   | 4   | 9   | 5   | 13    | 18    | 9        | 3     | 142   | 4   | 57   | 203   | 0.69%       | 51           |
| CIUDAD VICTORIA            | TAMPS NUEVO LAREDO      | TAMPS | 67   | 69   | 11  | 10  | 6   | 27    | 7     | 4        |       | 136   | 11  | 54   | 201   | 0.69%       | 50           |
| CIUDAD VICTORIA            | TAMPS MONTEMORELOS      | N L   | 69   | 76   |     | 8   | 9   | 7     | 5     | 6        |       | 145   | 0   | 35   | 180   | 0.62%       | 45           |
| CIUDAD VICTORIA            | TAMPS ALLENDE           | N L   | 47   | 59   |     | 15  | 21  | 11    | 3     | 12       | 1     | 106   | 0   | 63   | 169   | 0.58%       | 42           |
| ALTAMIRA                   | TAMPS LINARES           | N L   | 38   | 50   |     | 21  | 10  | 9     | 8     | 26       |       | 88    | 0   | 74   | 162   | 0.55%       | 41           |
| VILLAHERMOSA               | TAB MONTERREY           | N L   | 12   | 44   |     | 25  | 5   | 29    | 24    | 23       |       | 56    | 0   | 106  | 162   | 0.55%       | 41           |
| CIUDAD MADERO              | TAMPS MONTERREY         | N L   | 36   | 43   | 3   | 9   | 8   | 12    | 29    | 7        | 11    | 79    | 3   | 76   | 158   | 0.54%       | 40           |
| SAN LUIS POTOSI            | SLP MONTERREY           | N L   | 61   | 22   | 20  | 7   | 11  | 8     | 11    | 16       | 2     | 83    | 20  | 55   | 158   | 0.54%       | 40           |
| TAMPICO                    | TAMPS ALLENDE           | N L   | 52   | 37   |     | 17  | 10  | 15    | 4     | 10       | 4     | 89    | 0   | 60   | 149   | 0.51%       | 37           |
| TAMPICO                    | TAMPS MONTEMORELOS      | N L   | 62   | 42   |     | 11  | 6   | 8     | 5     |          |       | 104   | 0   | 30   | 134   | 0.46%       | 34           |
| CIUDAD MADERO              | TAMPS CADEREYTA JIMENEZ | N L   | 41   | 13   |     | 6   |     | 14    | 32    | 27       |       | 54    | 0   | 79   | 133   | 0.46%       | 33           |
| TUXPAM DE RODRIGUEZ CANO   | VER MONTERREY           | N L   | 48   | 32   | 2   | 11  | 3   | 17    | 11    | 7        |       | 80    | 2   | 49   | 131   | 0.45%       | 33           |
| VERACRUZ                   | VER NUEVO LAREDO        | TAMPS | 29   | 33   | 8   | 11  | 4   | 19    | 4     | 20       |       | 62    | 8   | 58   | 128   | 0.44%       | 32           |
| ALTAMIRA                   | TAMPS SALTILLO          | COAH  | 4    |      |     | 10  | 8   | 21    | 8     | 66       | 7     | 4     | 0   | 120  | 124   | 0.42%       | 31           |
| GUADALUPE VICTORIA         | TAMPS MONTERREY         | N L   | 58   | 13   | 5   | 7   | 4   | 22    | 4     | 10       |       | 71    | 5   | 47   | 123   | 0.42%       | 31           |
| CIUDAD VICTORIA            | TAMPS SALTILLO          | COAH  | 40   | 32   |     | 5   | 11  | 13    | 8     | 5        |       | 72    | 0   | 42   | 114   | 0.39%       | 29           |
| MERIDA                     | YUC MONTERREY           | N L   | 8    | 12   |     | 17  | 8   | 17    | 13    | 22       | 4     | 20    | 0   | 81   | 101   | 0.35%       | 25           |
| VILLA MAINERO              | TAMPS LINARES           | N L   | 27   | 67   |     |     |     |       |       |          |       | 94    | 0   | 0    | 94    | 0.32%       | 24           |
| HEROICA PUEBLA DE ZARAGOZA | PUE MONTERREY           | N L   | 9    | 5    | 4   | 9   | 7   | 14    | 35    | 9        |       | 14    | 4   | 74   | 92    | 0.31%       | 23           |
| CIUDAD VICTORIA            | TAMPS CADEREYTA JIMENEZ | N L   | 26   | 15   |     | 5   | 3   | 13    | 8     | 17       |       | 41    | 0   | 46   | 87    | 0.30%       | 22           |
| TAMPICO                    | TAMPS MONCLOVA          | COAH  | 7    | 23   | 1   | 1   |     | 9     | 16    | 24       | 3     | 30    | 1   | 53   | 84    | 0.29%       | 21           |

10.- VOLUMENES DE TRANSITO POR RUTA

| RUTAS PRINCIPALES |       |              |       |    |    |    |    |    |       |       |          |       |       |    |    | TOTAL | % DEL TOTAL | PROM. DIARIO |
|-------------------|-------|--------------|-------|----|----|----|----|----|-------|-------|----------|-------|-------|----|----|-------|-------------|--------------|
|                   |       |              |       | A  | U  | B  | C2 | C3 | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B  | C  |       |             |              |
| VERACRUZ          | VER   | LINARES      | N L   | 18 | 18 | 4  | 3  | 8  | 7     | 6     | 14       | 4     | 36    | 4  | 42 | 82    | 0.28%       | 21           |
| ALTAMIRA          | TAMPS | RAMOS ARIZPE | COAH  |    |    |    | 2  | 1  | 9     | 16    | 50       | 1     | 0     | 0  | 79 | 79    | 0.27%       | 20           |
| VERACRUZ          | VER   | TORREON      | COAH  | 12 | 17 |    |    |    | 11    | 25    | 12       |       | 29    | 0  | 48 | 77    | 0.26%       | 19           |
| ALTAMIRA          | TAMPS | TORREON      | COAH  |    |    | 2  | 4  | 5  | 16    | 5     | 37       | 6     | 0     | 2  | 73 | 75    | 0.26%       | 19           |
| BARRETAL          | TAMPS | MONTERREY    | N L   | 24 | 39 |    | 4  | 3  | 4     |       |          |       | 63    | 0  | 11 | 74    | 0.25%       | 19           |
| BARRETAL          | TAMPS | LINARES      | N L   | 16 | 36 |    | 5  | 5  |       | 2     |          |       | 52    | 0  | 12 | 64    | 0.22%       | 16           |
| TAMAZUNCHALE      | SLP   | MONTERREY    | N L   | 14 |    | 42 | 2  |    | 3     | 3     |          |       | 14    | 42 | 8  | 64    | 0.22%       | 16           |
| TUXTLA GUTIERREZ  | CHIS  | MONTERREY    | N L   | 9  |    |    | 4  | 4  | 24    |       | 23       |       | 9     | 0  | 55 | 64    | 0.22%       | 16           |
| COATZACOALCOS     | VER   | MONTERREY    | N L   | 3  |    | 7  | 9  | 2  | 11    | 15    | 13       |       | 3     | 7  | 50 | 60    | 0.21%       | 15           |
| CANCUN            | Q R   | MONTERREY    | N L   | 7  |    |    | 8  | 10 | 9     | 15    | 8        |       | 7     | 0  | 50 | 57    | 0.20%       | 14           |
| NARANJOS          | VER   | MONTERREY    | N L   | 19 | 9  | 2  | 4  |    | 5     | 1     | 7        | 9     | 28    | 2  | 26 | 56    | 0.19%       | 14           |
| MEXICO            | D F   | MONTERREY    | N L   | 3  | 9  | 7  | 9  | 8  | 6     | 7     | 6        |       | 12    | 7  | 36 | 55    | 0.19%       | 14           |
| ALTAMIRA          | TAMPS | NUEVO LAREDO | TAMPS |    |    |    | 5  | 3  | 31    | 1     | 8        | 4     | 0     | 0  | 52 | 52    | 0.18%       | 13           |
| CIUDAD VICTORIA   | TAMPS | TORREON      | COAH  | 13 | 10 |    | 3  | 2  | 3     | 8     | 13       |       | 23    | 0  | 29 | 52    | 0.18%       | 13           |

11.- RUTAS AGRUPADAS POR CIUDAD DE ORIGEN

| RUTAS PRINCIPALES          |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      | TOTAL | % DEL TOTAL | PROM. DIARIO |
|----------------------------|-------|-------------------|-------|------|------|-----|-----|-----|-------|-------|----------|-------|-------|-----|------|-------|-------------|--------------|
|                            |       |                   |       | A    | U    | B   | C2  | C3  | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B   | C    |       |             |              |
| CHIAPAS                    |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| TUXTLA GUTIERREZ           | CHIS  | MONTERREY         | N L   | 9    |      |     | 4   | 4   | 24    |       | 23       |       | 9     | 0   | 55   | 64    | 0.22%       | 16           |
| DISTRITO FEDERAL           |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| MEXICO                     | D F   | MONTERREY         | N L   | 3    | 9    | 7   | 9   | 8   | 6     | 7     | 6        |       | 12    | 7   | 36   | 55    | 0.19%       | 14           |
| PUEBLA                     |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| HEROICA PUEBLA DE ZARAGOZA | PUE   | MONTERREY         | N L   | 9    | 5    | 4   | 9   | 7   | 14    | 35    | 9        |       | 14    | 4   | 74   | 92    | 0.31%       | 23           |
| QUINTANA ROO               |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| CANCUN                     | Q R   | MONTERREY         | N L   | 7    |      |     | 8   | 10  | 9     | 15    | 8        |       | 7     | 0   | 50   | 57    | 0.20%       | 14           |
| SAN LUIS POTOSI            |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| CIUDAD VALLES              | SLP   | MONTERREY         | N L   | 166  | 127  | 85  | 29  | 24  | 40    | 17    | 41       | 7     | 293   | 85  | 158  | 536   | 1.83%       | 134          |
| SAN LUIS POTOSI            | SLP   | MONTERREY         | N L   | 61   | 22   | 20  | 7   | 11  | 8     | 11    | 16       | 2     | 83    | 20  | 55   | 158   | 0.54%       | 40           |
| TAMAZUNCHALE               | SLP   | MONTERREY         | N L   | 14   |      | 42  | 2   |     | 3     | 3     |          |       | 14    | 42  | 8    | 64    | 0.22%       | 16           |
| TABASCO                    |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| VILLAHERMOSA               | TAB   | MONTERREY         | N L   | 12   | 44   |     | 25  | 5   | 29    | 24    | 23       |       | 56    | 0   | 106  | 162   | 0.55%       | 41           |
| TAMAULIPAS                 |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| ALTAMIRA                   | TAMPS | MONTERREY         | N L   | 75   | 58   | 13  | 69  | 44  | 240   | 151   | 518      | 25    | 133   | 13  | 1047 | 1193  | 4.08%       | 298          |
| ALTAMIRA                   | TAMPS | LINARES           | N L   | 38   | 50   |     | 21  | 10  | 9     | 8     | 26       |       | 88    | 0   | 74   | 162   | 0.55%       | 41           |
| ALTAMIRA                   | TAMPS | SALTILLO          | COAH  | 4    |      |     | 10  | 8   | 21    | 8     | 66       | 7     | 4     | 0   | 120  | 124   | 0.42%       | 31           |
| ALTAMIRA                   | TAMPS | RAMOS ARIZPE      | COAH  |      |      |     | 2   | 1   | 9     | 16    | 50       | 1     | 0     | 0   | 79   | 79    | 0.27%       | 20           |
| ALTAMIRA                   | TAMPS | TORREON           | COAH  |      |      | 2   | 4   | 5   | 16    | 5     | 37       | 6     | 0     | 2   | 73   | 75    | 0.26%       | 19           |
| ALTAMIRA                   | TAMPS | NUEVO LAREDO      | TAMPS |      |      |     | 5   | 3   | 31    | 1     | 8        | 4     | 0     | 0   | 52   | 52    | 0.18%       | 13           |
| BARRETAL                   | TAMPS | MONTERREY         | N L   | 24   | 39   |     | 4   | 3   | 4     |       |          |       | 63    | 0   | 11   | 74    | 0.25%       | 19           |
| BARRETAL                   | TAMPS | LINARES           | N L   | 16   | 36   |     | 5   | 5   |       | 2     |          |       | 52    | 0   | 12   | 64    | 0.22%       | 16           |
| CIUDAD MADERO              | TAMPS | MONTERREY         | N L   | 36   | 43   | 3   | 9   | 8   | 12    | 29    | 7        | 11    | 79    | 3   | 76   | 158   | 0.54%       | 40           |
| CIUDAD MADERO              | TAMPS | CADEREYTA JIMENEZ | N L   | 41   | 13   |     | 6   |     | 14    | 32    | 27       |       | 54    | 0   | 79   | 133   | 0.46%       | 33           |
| CIUDAD MANTE               | TAMPS | MONTERREY         | N L   | 250  | 181  | 25  | 60  | 40  | 39    | 20    | 27       | 7     | 431   | 25  | 193  | 649   | 2.22%       | 162          |
| CIUDAD MANTE               | TAMPS | LINARES           | N L   | 99   | 171  |     | 12  | 7   | 4     | 2     |          |       | 270   | 0   | 25   | 295   | 1.01%       | 74           |
| CIUDAD VICTORIA            | TAMPS | MONTERREY         | N L   | 1968 | 1389 | 442 | 468 | 204 | 258   | 155   | 188      | 51    | 3357  | 442 | 1324 | 5123  | 17.53%      | 1281         |
| CIUDAD VICTORIA            | TAMPS | LINARES           | N L   | 499  | 767  | 17  | 82  | 22  | 31    | 17    | 28       | 2     | 1266  | 17  | 182  | 1465  | 5.01%       | 366          |
| CIUDAD VICTORIA            | TAMPS | NUEVO LAREDO      | TAMPS | 67   | 69   | 11  | 10  | 6   | 27    | 7     | 4        |       | 136   | 11  | 54   | 201   | 0.69%       | 50           |
| CIUDAD VICTORIA            | TAMPS | MONTEMORELOS      | N L   | 69   | 76   |     | 8   | 9   | 7     | 5     | 6        |       | 145   | 0   | 35   | 180   | 0.62%       | 45           |
| CIUDAD VICTORIA            | TAMPS | ALLENDE           | N L   | 47   | 59   |     | 15  | 21  | 11    | 3     | 12       | 1     | 106   | 0   | 63   | 169   | 0.58%       | 42           |
| CIUDAD VICTORIA            | TAMPS | SALTILLO          | COAH  | 40   | 32   |     | 5   | 11  | 13    | 8     | 5        |       | 72    | 0   | 42   | 114   | 0.39%       | 29           |
| CIUDAD VICTORIA            | TAMPS | CADEREYTA JIMENEZ | N L   | 26   | 15   |     | 5   | 3   | 13    | 8     | 17       |       | 41    | 0   | 46   | 87    | 0.30%       | 22           |
| CIUDAD VICTORIA            | TAMPS | TORREON           | COAH  | 13   | 10   |     | 3   | 2   | 3     | 8     | 13       |       | 23    | 0   | 29   | 52    | 0.18%       | 13           |
| GUADALUPE VICTORIA         | TAMPS | MONTERREY         | N L   | 58   | 13   | 5   | 7   | 4   | 22    | 4     | 10       |       | 71    | 5   | 47   | 123   | 0.42%       | 31           |
| HIDALGO                    | TAMPS | MONTERREY         | N L   | 191  | 194  | 7   | 14  | 9   | 17    | 6     | 13       |       | 385   | 7   | 59   | 451   | 1.54%       | 113          |
| HIDALGO                    | TAMPS | LINARES           | N L   | 97   | 170  | 7   | 17  | 3   | 3     |       | 1        | 4     | 267   | 7   | 28   | 302   | 1.03%       | 76           |
| SOTO LA MARINA             | TAMPS | MONTERREY         | N L   | 104  | 73   |     | 15  | 2   | 12    |       | 8        | 12    | 177   | 0   | 49   | 226   | 0.77%       | 57           |

11.- RUTAS AGRUPADAS POR CIUDAD DE ORIGEN

| RUTAS PRINCIPALES        |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      | TOTAL | % DEL TOTAL | PROM. DIARIO |
|--------------------------|-------|-------------------|-------|------|------|-----|-----|-----|-------|-------|----------|-------|-------|-----|------|-------|-------------|--------------|
|                          |       |                   |       | A    | U    | B   | C2  | C3  | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B   | C    |       |             |              |
| TAMPICO                  | TAMPS | MONTERREY         | N L   | 2604 | 1373 | 370 | 395 | 216 | 517   | 294   | 495      | 103   | 3977  | 370 | 2020 | 6367  | 21.79%      | 1592         |
| TAMPICO                  | TAMPS | LINARES           | N L   | 552  | 964  | 23  | 59  | 30  | 33    | 19    | 18       |       | 1516  | 23  | 159  | 1698  | 5.81%       | 425          |
| TAMPICO                  | TAMPS | SALTILLO          | COAH  | 101  | 34   |     | 12  | 6   | 42    | 19    | 36       | 18    | 135   | 0   | 133  | 268   | 0.92%       | 67           |
| TAMPICO                  | TAMPS | NUEVO LAREDO      | TAMPS | 64   | 56   | 38  | 15  | 8   | 33    | 6     | 18       |       | 120   | 38  | 80   | 238   | 0.81%       | 60           |
| TAMPICO                  | TAMPS | TORREON           | COAH  | 34   | 22   | 5   | 9   | 4   | 31    | 46    | 47       | 6     | 56    | 5   | 143  | 204   | 0.70%       | 51           |
| TAMPICO                  | TAMPS | CADEREYTA JIMENEZ | N L   | 98   | 44   | 4   | 9   | 5   | 13    | 18    | 9        | 3     | 142   | 4   | 57   | 203   | 0.69%       | 51           |
| TAMPICO                  | TAMPS | ALLENDE           | N L   | 52   | 37   |     | 17  | 10  | 15    | 4     | 10       | 4     | 89    | 0   | 60   | 149   | 0.51%       | 37           |
| TAMPICO                  | TAMPS | MONTEMORELOS      | N L   | 62   | 42   |     | 11  | 6   | 8     | 5     |          |       | 104   | 0   | 30   | 134   | 0.46%       | 34           |
| TAMPICO                  | TAMPS | MONCLOVA          | COAH  | 7    | 23   | 1   | 1   |     | 9     | 16    | 24       | 3     | 30    | 1   | 53   | 84    | 0.29%       | 21           |
| VILLA MAINERO            | TAMPS | LINARES           | N L   | 27   | 67   |     |     |     |       |       |          |       | 94    | 0   | 0    | 94    | 0.32%       | 24           |
| VILLAGRAN                | TAMPS | LINARES           | N L   | 253  | 464  | 6   | 26  | 5   | 3     |       | 2        |       | 717   | 6   | 36   | 759   | 2.60%       | 190          |
| VILLAGRAN                | TAMPS | MONTERREY         | N L   | 102  | 143  | 3   | 20  | 8   | 7     | 27    | 6        |       | 245   | 3   | 68   | 316   | 1.08%       | 79           |
| VERACRUZ                 |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| COATZACOALCOS            | VER   | MONTERREY         | N L   | 3    |      | 7   | 9   | 2   | 11    | 15    | 13       |       | 3     | 7   | 50   | 60    | 0.21%       | 15           |
| NARANJOS                 | VER   | MONTERREY         | N L   | 19   | 9    | 2   | 4   |     | 5     | 1     | 7        | 9     | 28    | 2   | 26   | 56    | 0.19%       | 14           |
| POZA RICA DE HIDALGO     | VER   | MONTERREY         | N L   | 68   | 28   | 61  | 14  | 11  | 13    | 15    | 14       | 6     | 96    | 61  | 73   | 230   | 0.79%       | 58           |
| TUXPAM DE RODRIGUEZ CANO | VER   | MONTERREY         | N L   | 48   | 32   | 2   | 11  | 3   | 17    | 11    | 7        |       | 80    | 2   | 49   | 131   | 0.45%       | 33           |
| VERACRUZ                 | VER   | MONTERREY         | N L   | 187  | 130  | 41  | 43  | 27  | 119   | 79    | 98       | 11    | 317   | 41  | 377  | 735   | 2.52%       | 184          |
| VERACRUZ                 | VER   | NUEVO LAREDO      | TAMPS | 29   | 33   | 8   | 11  | 4   | 19    | 4     | 20       |       | 62    | 8   | 58   | 128   | 0.44%       | 32           |
| VERACRUZ                 | VER   | LINARES           | N L   | 18   | 18   | 4   | 3   | 8   | 7     | 6     | 14       | 4     | 36    | 4   | 42   | 82    | 0.28%       | 21           |
| VERACRUZ                 | VER   | TORREON           | COAH  | 12   | 17   |     |     |     | 11    | 25    | 12       |       | 29    | 0   | 48   | 77    | 0.26%       | 19           |
| YUCATAN                  |       |                   |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| MERIDA                   | YUC   | MONTERREY         | N L   | 8    | 12   |     | 17  | 8   | 17    | 13    | 22       | 4     | 20    | 0   | 81   | 101   | 0.35%       | 25           |

## ESTUDIO DE ORIGEN – DESTINO Y PESO

### ESTACIÓN “MANUEL”

CARRETERA: **TAMPICO – CD. MANTE**

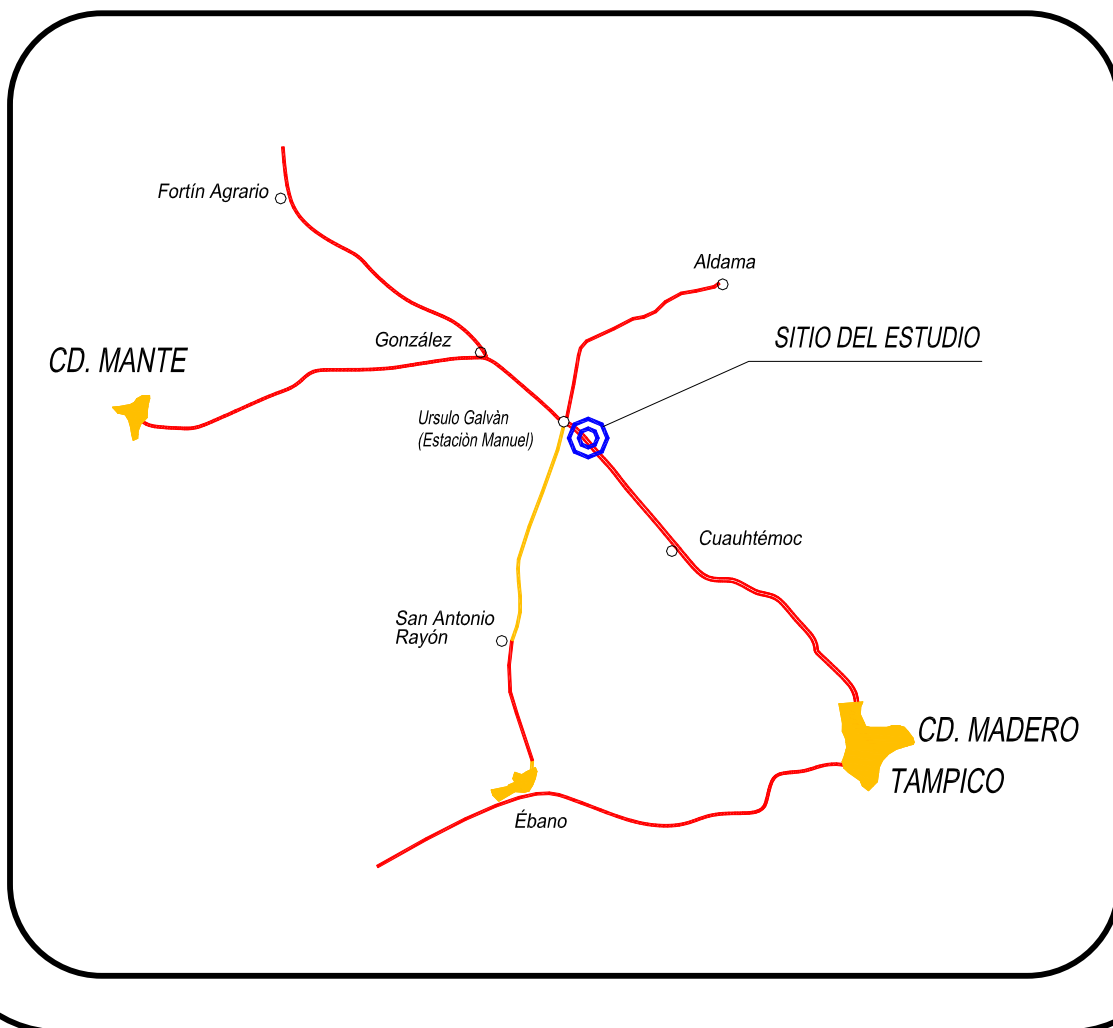
TRAMO: **T. DER. LOMAS DEL REAL – ESTACIÓN MANUEL**

Km: **70 + 700**

REFERENCIA GEOGRÁFICA: **Lat = 22°43'03" N, Long = 98°18'09" W**

ORIGEN: **TAMPICO**

ESTUDIO EFECTUADO DEL 21, 23, 24 Y 25 DE AGOSTO DE 2007



## SINTESIS DEL ESTUDIO ORIGEN-DESTINO

### ESTACION "MANUEL"

CARRETERA: **TAMPICO - CD. MANTE**

LUGAR: **KM 70+700**

ORIGEN: **TAMPICO**

TRAMO: **T. DER. LOMAS DEL REAL - ESTACION MANUEL**

FECHA: **21, 23, 24 Y 25 DE AGOSTO DE 2007**

#### 1.- VOLUMENES DE TRANSITO

(Número de Vehículos)

|                         |       |                 |                         |                       |                       |
|-------------------------|-------|-----------------|-------------------------|-----------------------|-----------------------|
| HACIA: <b>CD. MANTE</b> | 15674 |                 | HACIA: <b>CD. MANTE</b> | HACIA: <b>TAMPICO</b> | <b>AMBOS SENTIDOS</b> |
| HACIA: <b>TAMPICO</b>   | 16575 | PROMEDIO DIARIO | 3919                    | 4144                  | 8062                  |
| TOTAL AFORADO           | 32249 | MAXIMO HORARIO  | 274                     | 285                   | 534                   |

| TRANSITO DIARIO | HACIA: <b>CD. MANTE</b> | MAXIMO HORARIO |      | HACIA: <b>TAMPICO</b> | MAXIMO HORARIO |      | TOTAL |
|-----------------|-------------------------|----------------|------|-----------------------|----------------|------|-------|
|                 |                         | A.M.           | P.M. |                       | A.M.           | P.M. |       |
| LUNES           |                         |                |      |                       |                |      |       |
| MARTES          | 3739                    | 189            | 227  | 3876                  | 210            | 251  | 7615  |
| MIÉRCOLES       |                         |                |      |                       |                |      |       |
| JUEVES          | 3861                    | 247            | 232  | 4035                  | 268            | 277  | 7896  |
| VIERNES         | 4095                    | 230            | 274  | 4212                  | 194            | 285  | 8307  |
| SÁBADO          | 3979                    | 229            | 244  | 4452                  | 225            | 270  | 8431  |
| DOMINGO         |                         |                |      |                       |                |      |       |
| TOTAL           | 15674                   |                |      | 16575                 |                |      | 32249 |

#### 2.- CLASIFICACION VEHICULAR

(Número de Vehículos)

| TIPO DE VEHICULO | HACIA: <b>CD. MANTE</b> | HACIA: <b>TAMPICO</b> | TOTAL | %    |
|------------------|-------------------------|-----------------------|-------|------|
| A                | 4860                    | 5366                  | 10226 | 32%  |
| U                | 3656                    | 3757                  | 7413  | 23%  |
| B                | 789                     | 823                   | 1612  | 5%   |
| C2               | 1155                    | 1135                  | 2290  | 7%   |
| C3               | 711                     | 760                   | 1471  | 5%   |
| T3-S2            | 1769                    | 1823                  | 3592  | 11%  |
| T3-S3            | 822                     | 931                   | 1753  | 5%   |
| T3-S2-R4         | 1753                    | 1834                  | 3587  | 11%  |
| OTROS            | 159                     | 146                   | 305   | 1%   |
| TOTAL            | 15674                   | 16575                 | 32249 | 100% |

### 3.- PROMEDIO DE PASAJEROS POR VEHICULO Y POR SENTIDO

| TIPO DE VEHICULO | HACIA: CD. MANTE | HACIA: TAMPICO | AMBOS SENTIDOS |
|------------------|------------------|----------------|----------------|
| AUTOMOVILES      | 2.37             | 2.36           | 2.36           |
| AUTOBUSES        | 19.85            | 16.66          | 18.22          |

### 4.- PROMEDIO DE TRIPULANTES POR TIPO DE VEHICULO (Número de Personas)

| TIPO DE VEHICULO | HACIA: CD. MANTE | HACIA: TAMPICO | AMBOS SENTIDOS |
|------------------|------------------|----------------|----------------|
| U                | 2.09             | 2.03           | 2.06           |
| B                | 1.48             | 1.56           | 1.52           |
| C2               | 1.28             | 1.28           | 1.28           |
| C3               | 1.26             | 1.21           | 1.23           |
| T3-S2            | 1.18             | 1.19           | 1.18           |
| T3-S3            | 1.20             | 1.20           | 1.20           |
| T3-S2-R4         | 1.19             | 1.21           | 1.20           |
| OTROS            | 1.17             | 1.21           | 1.19           |

### 5.- MOTIVO DEL VIAJE DE LOS AUTOMOVILES (Número de Vehículos)

| MOTIVO  | HACIA: CD. MANTE |     | HACIA: TAMPICO |     | AMBOS SENTIDOS |     |
|---------|------------------|-----|----------------|-----|----------------|-----|
| TRABAJO | 2304             | 47% | 2827           | 53% | 5131           | 50% |
| PASEO   | 2556             | 53% | 2539           | 47% | 5095           | 50% |

### 6.- CAMIONES CON CARGA Y SIN CARGA POR SENTIDO

| TIPO DE VEHICULO | HACIA: CD. MANTE |           | HACIA: TAMPICO |           | AMBOS SENTIDOS |           |
|------------------|------------------|-----------|----------------|-----------|----------------|-----------|
|                  | CON CARGA        | SIN CARGA | CON CARGA      | SIN CARGA | CON CARGA      | SIN CARGA |
| C2               | 485              | 670       | 489            | 646       | 974            | 1316      |
| C3               | 286              | 425       | 478            | 282       | 764            | 707       |
| T3-S2            | 858              | 911       | 907            | 916       | 1765           | 1827      |
| T3-S3            | 455              | 367       | 530            | 401       | 985            | 768       |
| T3-S2-R4         | 985              | 768       | 961            | 873       | 1946           | 1641      |
| OTROS            | 87               | 72        | 54             | 92        | 141            | 164       |
| TOTAL            | 3156             | 3213      | 3419           | 3210      | 6575           | 6423      |

## 7.- TONELADAS TRANSPORTADAS POR TIPO DE PRODUCTO Y POR SENTIDO

SENTIDO: 1

HACIA: CD. MANTE

| TIPO DE PRODUCTO                                               | TONELADAS TRANSPORTADAS |        |             |        |             |         |             |        |             |         |             |        |             |         |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|---------|-------------|--------|-------------|---------|-------------|--------|-------------|---------|
|                                                                | C2                      |        | C3          |        | T3-S2       |         | T3-S3       |        | T3-S2-R4    |         | OTROS       |        | SUBTOTAL    |         |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)     | No. DE VEH. | (t)    | No. DE VEH. | (t)     | No. DE VEH. | (t)    | No. DE VEH. | (t)     |
| 1.- FORESTALES                                                 | 6                       | 12.9   | 10          | 58.5   | 35          | 702.7   | 14          | 134.3  | 51          | 1356.1  | 9           | 132.5  | 125         | 2397.0  |
| 2.- AGRICOLAS                                                  | 33                      | 99.5   | 46          | 387.0  | 158         | 2185.3  | 65          | 969.8  | 100         | 2101.9  | 4           | 28.7   | 406         | 5772.2  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 46                      | 204.6  | 13          | 74.5   | 56          | 835.7   | 18          | 261.9  | 24          | 590.5   | 2           | 39.3   | 159         | 2006.5  |
| 4.- MINERALES                                                  | 20                      | 32.1   |             |        | 34          | 435.6   | 27          | 464.0  | 40          | 1066.8  |             |        | 121         | 1998.5  |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 13                      | 67.8   | 24          | 211.4  | 34          | 618.5   | 34          | 904.2  | 121         | 4902.4  | 3           | 105.8  | 229         | 6810.1  |
| 6.- INORGANICOS                                                | 22                      | 74.1   | 16          | 119.7  | 17          | 317.2   | 23          | 477.9  | 37          | 862.1   | 5           | 16.2   | 120         | 1867.2  |
| 7.- INDUSTRIALES                                               | 299                     | 976.5  | 161         | 963.8  | 473         | 6292.6  | 266         | 4716.5 | 545         | 13651.7 | 59          | 907.5  | 1803        | 27508.6 |
| 8.- VARIOS                                                     | 46                      | 103.0  | 16          | 107.4  | 51          | 633.9   | 8           | 138.2  | 67          | 1669.6  | 5           | 74.9   | 193         | 2727.0  |
| TOTAL                                                          | 485                     | 1570.5 | 286         | 1922.3 | 858         | 12021.5 | 455         | 8066.8 | 985         | 26201.1 | 87          | 1304.9 | 3156        | 51087.1 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.2                     |        | 6.7         |        | 14.0        |         | 17.7        |        | 26.6        |         | 15.0        |        | 16.2        |         |

SENTIDO: 2

HACIA: TAMPICO

|                                                                | TONELADAS TRANSPORTADAS |        |             |        |             |         |             |        |             |         |             |       |             |         |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|---------|-------------|--------|-------------|---------|-------------|-------|-------------|---------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |        | T3-S2       |         | T3-S3       |        | T3-S2-R4    |         | OTROS       |       | SUBTOTAL    |         |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)     | No. DE VEH. | (t)    | No. DE VEH. | (t)     | No. DE VEH. | (t)   | No. DE VEH. | (t)     |
| 1.- FORESTALES                                                 | 8                       | 13.8   | 5           | 33.3   | 24          | 274.8   | 16          | 229    | 30          | 625.8   |             |       | 83          | 1176.7  |
| 2.- AGRICOLAS                                                  | 54                      | 183.0  | 60          | 307.7  | 99          | 1473.9  | 61          | 1086.2 | 64          | 2006.2  | 16          | 311.5 | 354         | 5368.5  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 39                      | 144.0  | 47          | 239.1  | 58          | 878.7   | 16          | 225.4  | 36          | 970.8   | 4           | 38.4  | 200         | 2496.4  |
| 4.- MINERALES                                                  | 4                       | 18.1   | 9           | 42.3   | 2           | 13.9    | 7           | 74.4   | 35          | 853.8   |             |       | 57          | 1002.5  |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 13                      | 44.9   | 18          | 186.3  | 58          | 949.3   | 37          | 690.4  | 55          | 1729.9  | 4           | 79.1  | 185         | 3679.9  |
| 6.- INORGANICOS                                                | 26                      | 107.1  | 42          | 236.0  | 39          | 491.7   | 32          | 539.6  | 37          | 760.6   | 6           | 59.7  | 182         | 2194.7  |
| 7.- INDUSTRIALES                                               | 293                     | 905.3  | 231         | 1258.0 | 547         | 6791.3  | 316         | 4729.5 | 615         | 14892.8 | 19          | 188.4 | 2021        | 28765.3 |
| 8.- VARIOS                                                     | 52                      | 240.4  | 66          | 441.9  | 80          | 1021.5  | 45          | 715.2  | 89          | 2032.7  | 5           | 74.1  | 337         | 4525.8  |
| TOTAL                                                          | 489                     | 1656.6 | 478         | 2744.6 | 907         | 11895.1 | 530         | 8289.7 | 961         | 23872.6 | 54          | 751.2 | 3419        | 49209.8 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.4                     |        | 5.7         |        | 13.1        |         | 15.6        |        | 24.8        |         | 13.9        |       | 14.4        |         |

### AMBOS SENTIDOS

|                                                                | TONELADAS TRANSPORTADAS |        |             |        |             |         |             |         |             |         |             |        |             |          |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|---------|-------------|---------|-------------|---------|-------------|--------|-------------|----------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |        | T3-S2       |         | T3-S3       |         | T3-S2-R4    |         | OTROS       |        | SUBTOTAL    |          |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)     | No. DE VEH. | (t)     | No. DE VEH. | (t)     | No. DE VEH. | (t)    | No. DE VEH. | (t)      |
| 1.- FORESTALES                                                 | 14                      | 26.7   | 15          | 91.8   | 59          | 977.5   | 30          | 363.3   | 81          | 1981.9  | 9           | 132.5  | 208         | 3573.7   |
| 2.- AGRICOLAS                                                  | 87                      | 282.5  | 106         | 694.7  | 257         | 3659.2  | 126         | 2056.0  | 164         | 4108.1  | 20          | 340.2  | 760         | 11140.7  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 85                      | 348.6  | 60          | 313.6  | 114         | 1714.4  | 34          | 487.3   | 60          | 1561.3  | 6           | 77.7   | 359         | 4502.9   |
| 4.- MINERALES                                                  | 24                      | 50.2   | 9           | 42.3   | 36          | 449.5   | 34          | 538.4   | 75          | 1920.6  | 0           | 0.0    | 178         | 3001.0   |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 26                      | 112.7  | 42          | 397.7  | 92          | 1567.8  | 71          | 1594.6  | 176         | 6632.3  | 7           | 184.9  | 414         | 10490.0  |
| 6.- INORGANICOS                                                | 48                      | 181.2  | 58          | 355.7  | 56          | 808.9   | 55          | 1017.5  | 74          | 1622.7  | 11          | 75.9   | 302         | 4061.9   |
| 7.- INDUSTRIALES                                               | 592                     | 1881.8 | 392         | 2221.8 | 1020        | 13083.9 | 582         | 9446.0  | 1160        | 28544.5 | 78          | 1095.9 | 3824        | 56273.9  |
| 8.- VARIOS                                                     | 98                      | 343.4  | 82          | 549.3  | 131         | 1655.4  | 53          | 853.4   | 156         | 3702.3  | 10          | 149.0  | 530         | 7252.8   |
| TOTAL                                                          | 974                     | 3227.1 | 764         | 4666.9 | 1765        | 23916.6 | 985         | 16356.5 | 1946        | 50073.7 | 141         | 2056.1 | 6575        | 100296.9 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.3                     |        | 6.1         |        | 13.6        |         | 16.6        |         | 25.7        |         | 14.6        |        | 15.3        |          |

### 8.- DISTRIBUCION DEL PESO PROMEDIO POR EJE Y POR TIPO DE VEHICULO DEL TOTAL DE CAMIONES REGISTRADOS

CARRETERA: TAMPICO - CD. MANTE

KM: 70+700

EST: MANUEL

| TIPO DE VEHICULO | TOTAL DE VEHICULOS | PESO BRUTO VEHICULAR PROM. (t) | PESO PROMEDIO POR EJE (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 2290               | 6.93                           | 2.59                      | 4.34 |      |      |      |      |      |      |      |
| C3               | 1471               | 11.39                          | 3.28                      | 4.19 | 3.92 |      |      |      |      |      |      |
| T3-S2            | 3592               | 22.28                          | 3.84                      | 4.98 | 4.83 | 4.25 | 4.38 |      |      |      |      |
| T3-S3            | 1753               | 29.06                          | 4.17                      | 5.70 | 5.58 | 4.54 | 4.50 | 4.57 |      |      |      |
| T3-S2-R4         | 3587               | 42.12                          | 3.74                      | 5.36 | 5.35 | 4.69 | 4.76 | 4.70 | 4.38 | 4.52 | 4.62 |

### 9.- DISTRIBUCION DEL PESO PROMEDIO POR EJE Y POR TIPO DE VEHICULO DEL TOTAL DE VEHICULOS CARGADOS

CARRETERA: TAMPICO - CD. MANTE

KM: 70+700

EST: MANUEL

| TIPO DE VEHICULO | TOTAL DE VEHICULOS | PESO BRUTO VEHICULAR PROM. (t) | PESO PROMEDIO POR EJE (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 974                | 8.83                           | 3.25                      | 5.58 |      |      |      |      |      |      |      |
| C3               | 764                | 13.40                          | 3.65                      | 5.03 | 4.72 |      |      |      |      |      |      |
| T3-S2            | 1765               | 29.07                          | 4.38                      | 6.52 | 6.41 | 5.80 | 5.96 |      |      |      |      |
| T3-S3            | 985                | 33.19                          | 4.25                      | 6.48 | 6.40 | 5.38 | 5.32 | 5.36 |      |      |      |
| T3-S2-R4         | 1946               | 52.29                          | 3.88                      | 6.59 | 6.58 | 6.01 | 6.10 | 5.86 | 5.52 | 5.81 | 5.94 |

**10.- VOLUMENES DE TRANSITO POR RUTA**

| RUTAS PRINCIPALES          |                         |       |      |     |     |     |     |       |       |          |       |       |     |      |      | TOTAL  | % DEL TOTAL | PROM. DIARIO |
|----------------------------|-------------------------|-------|------|-----|-----|-----|-----|-------|-------|----------|-------|-------|-----|------|------|--------|-------------|--------------|
|                            |                         |       | A    | U   | B   | C2  | C3  | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B   | C    |      |        |             |              |
| TAMPICO                    | TAMPS MONTERREY         | N L   | 1212 | 699 | 313 | 340 | 244 | 482   | 175   | 424      | 35    | 1911  | 313 | 1700 | 3924 | 12.17% | 981         |              |
| TAMPICO                    | TAMPS CIUDAD VICTORIA   | TAMPS | 1366 | 801 | 131 | 179 | 59  | 94    | 54    | 70       | 8     | 2167  | 131 | 464  | 2762 | 8.56%  | 691         |              |
| TAMPICO                    | TAMPS CIUDAD MANTE      | TAMPS | 985  | 691 | 197 | 145 | 74  | 130   | 37    | 94       | 3     | 1676  | 197 | 483  | 2356 | 7.31%  | 589         |              |
| TAMPICO                    | TAMPS ESTACION MANUEL   | TAMPS | 657  | 600 | 6   | 91  | 32  | 32    | 29    | 30       |       | 1257  | 6   | 214  | 1477 | 4.58%  | 369         |              |
| ALTAMIRA                   | TAMPS MONTERREY         | N L   | 96   | 81  | 7   | 92  | 71  | 290   | 137   | 475      | 31    | 177   | 7   | 1096 | 1280 | 3.97%  | 320         |              |
| TAMPICO                    | TAMPS ALDAMA            | TAMPS | 424  | 445 | 10  | 125 | 113 | 50    | 71    | 27       | 10    | 869   | 10  | 396  | 1275 | 3.95%  | 319         |              |
| TAMPICO                    | TAMPS REYNOSA           | TAMPS | 487  | 314 | 139 | 45  | 30  | 93    | 20    | 42       | 7     | 801   | 139 | 237  | 1177 | 3.65%  | 294         |              |
| TAMPICO                    | TAMPS GONZALEZ          | TAMPS | 570  | 445 | 13  | 49  | 27  | 21    | 19    | 9        | 3     | 1015  | 13  | 128  | 1156 | 3.58%  | 289         |              |
| TAMPICO                    | TAMPS HEROICA MATAMOROS | TAMPS | 454  | 274 | 122 | 32  | 32  | 97    | 39    | 56       | 5     | 728   | 122 | 261  | 1111 | 3.45%  | 278         |              |
| ALTAMIRA                   | TAMPS ESTACION MANUEL   | TAMPS | 235  | 263 |     | 31  | 25  | 16    | 20    | 24       |       | 498   | 0   | 116  | 614  | 1.90%  | 154         |              |
| VERACRUZ                   | VER MONTERREY           | N L   | 123  | 78  | 5   | 54  | 30  | 128   | 47    | 128      | 5     | 201   | 5   | 392  | 598  | 1.85%  | 150         |              |
| ALTAMIRA                   | TAMPS CIUDAD VICTORIA   | TAMPS | 195  | 131 | 2   | 40  | 23  | 30    | 29    | 45       | 8     | 326   | 2   | 175  | 503  | 1.56%  | 126         |              |
| ALTAMIRA                   | TAMPS CIUDAD MANTE      | TAMPS | 115  | 118 | 1   | 59  | 27  | 57    | 29    | 48       | 7     | 233   | 1   | 227  | 461  | 1.43%  | 115         |              |
| ALTAMIRA                   | TAMPS GONZALEZ          | TAMPS | 174  | 146 | 2   | 22  | 23  | 21    | 21    | 19       |       | 320   | 2   | 106  | 428  | 1.33%  | 107         |              |
| VERACRUZ                   | VER REYNOSA             | TAMPS | 137  | 84  | 31  | 23  | 12  | 70    | 23    | 20       | 6     | 221   | 31  | 154  | 406  | 1.26%  | 102         |              |
| ALTAMIRA                   | TAMPS ALDAMA            | TAMPS | 99   | 93  |     | 30  | 32  | 32    | 29    | 19       | 8     | 192   | 0   | 150  | 342  | 1.06%  | 86          |              |
| VERACRUZ                   | VER HEROICA MATAMOROS   | TAMPS | 98   | 73  | 21  | 10  | 10  | 44    | 7     | 30       |       | 171   | 21  | 101  | 293  | 0.91%  | 73          |              |
| CUAUHTEMOC                 | TAMPS ESTACION MANUEL   | TAMPS | 99   | 162 |     | 17  | 2   | 4     |       | 8        |       | 261   | 0   | 31   | 292  | 0.91%  | 73          |              |
| ALTAMIRA                   | TAMPS HEROICA MATAMOROS | TAMPS | 82   | 27  |     | 20  | 23  | 54    | 12    | 52       | 17    | 109   | 0   | 178  | 287  | 0.89%  | 72          |              |
| POZA RICA DE HIDALGO       | VER REYNOSA             | TAMPS | 93   | 57  | 76  | 9   | 10  | 17    | 8     | 6        | 6     | 150   | 76  | 56   | 282  | 0.87%  | 71          |              |
| TAMPICO                    | TAMPS NUEVO LAREDO      | TAMPS | 99   | 71  | 29  | 19  | 2   | 38    | 7     | 12       |       | 170   | 29  | 78   | 277  | 0.86%  | 69          |              |
| TAMPICO                    | TAMPS SAN LUIS POTOSI   | SLP   | 39   | 19  | 21  | 28  | 14  | 38    | 17    | 93       | 8     | 58    | 21  | 198  | 277  | 0.86%  | 69          |              |
| ALTAMIRA                   | TAMPS SAN LUIS POTOSI   | SLP   | 3    | 6   | 5   | 17  | 12  | 59    | 36    | 124      | 12    | 9     | 5   | 260  | 274  | 0.85%  | 69          |              |
| ALTAMIRA                   | TAMPS REYNOSA           | TAMPS | 39   | 31  | 16  | 32  | 8   | 68    | 21    | 39       | 7     | 70    | 16  | 175  | 261  | 0.81%  | 65          |              |
| POZA RICA DE HIDALGO       | VER MONTERREY           | N L   | 53   | 28  | 65  | 32  | 17  | 29    | 13    | 22       |       | 81    | 65  | 113  | 259  | 0.80%  | 65          |              |
| ALTAMIRA                   | TAMPS GUADALAJARA       | JAL   | 26   | 2   |     | 7   | 7   | 53    | 11    | 95       | 5     | 28    | 0   | 178  | 206  | 0.64%  | 52          |              |
| CIUDAD MADERO              | TAMPS CIUDAD VICTORIA   | TAMPS | 89   | 48  |     | 8   | 13  | 2     | 5     | 16       |       | 137   | 0   | 44   | 181  | 0.56%  | 45          |              |
| CIUDAD MADERO              | TAMPS MONTERREY         | N L   | 67   | 18  | 2   | 14  | 9   | 29    | 9     | 32       |       | 85    | 2   | 93   | 180  | 0.56%  | 45          |              |
| TAMPICO                    | TAMPS TORREON           | COAH  | 20   | 9   | 4   | 17  | 11  | 45    | 35    | 22       | 4     | 29    | 4   | 134  | 167  | 0.52%  | 42          |              |
| CIUDAD MADERO              | TAMPS CIUDAD MANTE      | TAMPS | 39   | 28  |     | 12  | 12  | 16    | 16    | 33       | 6     | 67    | 0   | 95   | 162  | 0.50%  | 41          |              |
| HEROICA PUEBLA DE ZARAGOZA | PUE HEROICA MATAMOROS   | TAMPS | 55   | 45  | 11  | 2   | 3   | 14    | 9     | 10       |       | 100   | 11  | 38   | 149  | 0.46%  | 37          |              |
| TUXTLA GUTIERREZ           | CHIS HEROICA MATAMOROS  | TAMPS | 53   | 47  | 7   | 9   |     | 16    | 3     | 1        | 5     | 100   | 7   | 34   | 141  | 0.44%  | 35          |              |
| TAMPICO                    | TAMPS LINARES           | N L   | 42   | 30  | 5   | 15  | 10  | 13    | 6     | 14       |       | 72    | 5   | 58   | 135  | 0.42%  | 34          |              |
| ALTAMIRA                   | TAMPS SALTILLO          | COAH  | 3    |     | 3   | 16  | 10  | 31    | 17    | 54       |       | 3     | 3   | 128  | 134  | 0.42%  | 34          |              |
| CIUDAD MADERO              | TAMPS ALDAMA            | TAMPS | 40   | 12  |     | 8   | 26  | 13    | 23    | 10       |       | 52    | 0   | 80   | 132  | 0.41%  | 33          |              |
| CIUDAD MADERO              | TAMPS CADEREYTA JIMENEZ | N L   | 27   | 13  |     | 5   | 10  | 15    | 16    | 29       | 4     | 40    | 0   | 79   | 119  | 0.37%  | 30          |              |
| HEROICA PUEBLA DE ZARAGOZA | PUE REYNOSA             | TAMPS | 32   | 13  | 20  | 8   | 2   | 28    | 2     | 12       |       | 45    | 20  | 52   | 117  | 0.36%  | 29          |              |
| VILLAHERMOSA               | TAB REYNOSA             | TAMPS | 12   | 25  | 11  | 8   | 3   | 25    | 20    | 10       |       | 37    | 11  | 66   | 114  | 0.35%  | 29          |              |
| ALTAMIRA                   | TAMPS QUERETARO         | QRO   | 5    |     |     | 12  | 6   | 14    | 15    | 55       | 3     | 5     | 0   | 105  | 110  | 0.34%  | 28          |              |

**10.- VOLUMENES DE TRANSITO POR RUTA**

| RUTAS PRINCIPALES          |       |                   |       |    |    |    |    |       |       |          |       |       |    |    |    | TOTAL | % DEL TOTAL | PROM. DIARIO |
|----------------------------|-------|-------------------|-------|----|----|----|----|-------|-------|----------|-------|-------|----|----|----|-------|-------------|--------------|
|                            |       |                   | A     | U  | B  | C2 | C3 | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B  | C  |    |       |             |              |
| TAMPICO                    | TAMPS | CADEREYTA JIMENEZ | N L   | 40 | 16 | 10 | 6  | 5     | 6     | 13       | 12    |       | 56 | 10 | 42 | 108   | 0.33%       | 27           |
| ALTAMIRA                   | TAMPS | NUEVO LAREDO      | TAMPS | 14 | 13 | 4  | 14 |       | 39    | 13       | 10    |       | 27 | 4  | 76 | 107   | 0.33%       | 27           |
| CIUDAD MADERO              | TAMPS | GONZALEZ          | TAMPS | 25 | 27 |    | 9  | 14    | 12    | 3        | 16    |       | 52 | 0  | 54 | 106   | 0.33%       | 27           |
| CIUDAD MADERO              | TAMPS | HEROICA MATAMOROS | TAMPS | 52 | 14 | 7  | 8  | 6     | 2     | 13       | 3     |       | 66 | 7  | 32 | 105   | 0.33%       | 26           |
| TAMPICO                    | TAMPS | SOTO LA MARINA    | TAMPS | 39 | 43 |    | 3  |       | 13    |          | 6     |       | 82 | 0  | 22 | 104   | 0.32%       | 26           |
| VERACRUZ                   | VER   | CIUDAD VICTORIA   | TAMPS | 29 | 24 | 2  | 3  | 5     | 11    | 16       | 11    | 3     | 53 | 2  | 49 | 104   | 0.32%       | 26           |
| TAMPICO                    | TAMPS | XICOTENCATL       | TAMPS | 63 | 32 | 2  | 6  |       |       |          |       |       | 95 | 2  | 6  | 103   | 0.32%       | 26           |
| ALTAMIRA                   | TAMPS | TORREON           | COAH  | 10 | 2  |    | 8  | 3     | 20    | 10       | 43    | 5     | 12 | 0  | 89 | 101   | 0.31%       | 25           |
| MARTINEZ DE LA TORRE       | VER   | REYNOSA           | TAMPS |    | 5  |    |    | 11    | 52    | 14       | 13    |       | 5  | 0  | 90 | 95    | 0.29%       | 24           |
| MERIDA                     | YUC   | MONTERREY         | N L   | 5  | 4  | 2  | 15 | 3     | 32    | 15       | 16    |       | 9  | 2  | 81 | 92    | 0.29%       | 23           |
| TUXPAM DE RODRIGUEZ CANO   | VER   | MONTERREY         | N L   | 25 | 13 | 3  | 10 | 4     | 11    | 15       | 9     |       | 38 | 3  | 49 | 90    | 0.28%       | 23           |
| CIUDAD MADERO              | TAMPS | ESTACION MANUEL   | TAMPS | 20 | 23 |    | 10 | 18    | 2     | 6        | 2     | 2     | 43 | 0  | 40 | 83    | 0.26%       | 21           |
| VILLAHERMOSA               | TAB   | MONTERREY         | N L   | 9  | 13 | 1  | 11 | 7     | 20    | 12       | 10    |       | 22 | 1  | 60 | 83    | 0.26%       | 21           |
| TAMPICO                    | TAMPS | SALTILLO          | COAH  | 28 | 11 |    | 2  | 3     | 16    | 6        | 15    |       | 39 | 0  | 42 | 81    | 0.25%       | 20           |
| CUAUHTEMOC                 | TAMPS | GONZALEZ          | TAMPS | 29 | 44 |    |    | 1     | 2     |          | 4     |       | 73 | 0  | 7  | 80    | 0.25%       | 20           |
| HEROICA PUEBLA DE ZARAGOZA | PUE   | MONTERREY         | N L   | 15 | 2  | 3  | 12 | 6     | 20    | 7        | 13    |       | 17 | 3  | 58 | 78    | 0.24%       | 20           |
| VERACRUZ                   | VER   | NUEVO LAREDO      | TAMPS | 16 | 13 |    | 9  | 1     | 25    | 3        | 6     |       | 29 | 0  | 44 | 73    | 0.23%       | 18           |
| TAMPICO                    | TAMPS | GUADALAJARA       | JAL   | 10 | 2  |    | 9  | 11    | 12    | 3        | 24    |       | 12 | 0  | 59 | 71    | 0.22%       | 18           |
| TUXPAM DE RODRIGUEZ CANO   | VER   | REYNOSA           | TAMPS | 37 | 10 | 8  | 3  |       | 7     | 2        | 4     |       | 47 | 8  | 16 | 71    | 0.22%       | 18           |
| POZA RICA DE HIDALGO       | VER   | HEROICA MATAMOROS | TAMPS | 28 | 6  | 26 |    | 3     | 3     |          | 4     |       | 34 | 26 | 10 | 70    | 0.22%       | 18           |
| ALTAMIRA                   | TAMPS | CADEREYTA JIMENEZ | N L   | 3  | 6  |    | 5  |       | 16    | 12       | 27    |       | 9  | 0  | 60 | 69    | 0.21%       | 17           |
| CIUDAD MADERO              | TAMPS | REYNOSA           | TAMPS | 32 | 9  |    |    | 9     | 6     | 9        | 4     |       | 41 | 0  | 28 | 69    | 0.21%       | 17           |
| MEXICO                     | D F   | HEROICA MATAMOROS | TAMPS | 2  | 14 | 7  | 4  | 5     | 13    | 15       | 8     |       | 16 | 7  | 45 | 68    | 0.21%       | 17           |
| MEXICO                     | D F   | CIUDAD VICTORIA   | TAMPS | 16 | 16 |    | 10 | 5     | 8     | 2        | 2     | 7     | 32 | 0  | 34 | 66    | 0.20%       | 17           |
| TAMPICO                    | TAMPS | SAN FERNANDO      | TAMPS | 20 | 30 |    | 9  | 3     |       | 2        | 2     |       | 50 | 0  | 16 | 66    | 0.20%       | 17           |
| VERACRUZ                   | VER   | CIUDAD MANTE      | TAMPS | 16 | 15 | 1  | 8  | 6     | 10    |          | 10    |       | 31 | 1  | 34 | 66    | 0.20%       | 17           |
| TUXTLA GUTIERREZ           | CHIS  | REYNOSA           | TAMPS | 24 | 18 |    | 4  | 4     | 8     |          | 4     |       | 42 | 0  | 20 | 62    | 0.19%       | 16           |
| ALTAMIRA                   | TAMPS | CHIHUAHUA         | CHIH  | 3  |    |    | 3  | 3     | 17    | 8        | 26    |       | 3  | 0  | 57 | 60    | 0.19%       | 15           |
| VERACRUZ                   | VER   | TORREON           | COAH  | 7  | 4  |    | 6  | 4     | 16    | 12       | 8     | 3     | 11 | 0  | 49 | 60    | 0.19%       | 15           |
| TAMPICO                    | TAMPS | MONCLOVA          | COAH  | 16 | 5  |    | 2  | 3     | 7     | 11       | 12    | 2     | 21 | 0  | 37 | 58    | 0.18%       | 15           |
| TUXTLA GUTIERREZ           | CHIS  | MONTERREY         | N L   | 5  | 9  |    | 8  |       | 19    | 5        | 12    |       | 14 | 0  | 44 | 58    | 0.18%       | 15           |
| ORIZABA                    | VER   | MONTERREY         | N L   | 1  | 2  | 2  | 3  | 12    | 19    |          | 15    | 3     | 3  | 2  | 52 | 57    | 0.18%       | 14           |
| ALTAMIRA                   | TAMPS | MONCLOVA          | COAH  | 9  | 1  |    |    | 6     | 13    | 1        | 24    |       | 10 | 0  | 44 | 54    | 0.17%       | 14           |
| CIUDAD MADERO              | TAMPS | SAN LUIS POTOSI   | SLP   |    | 3  |    |    | 3     | 2     |          | 38    | 8     | 3  | 0  | 51 | 54    | 0.17%       | 14           |
| NARANJOS                   | VER   | REYNOSA           | TAMPS | 13 | 31 |    |    |       |       |          | 6     |       | 44 | 0  | 6  | 50    | 0.16%       | 13           |
| ALTAMIRA                   | TAMPS | LINARES           | N L   | 15 | 2  | 8  | 2  |       | 12    | 4        | 6     |       | 17 | 8  | 24 | 49    | 0.15%       | 12           |
| POZA RICA DE HIDALGO       | VER   | CIUDAD MANTE      | TAMPS | 13 | 8  | 11 | 6  |       | 4     | 3        | 4     |       | 21 | 11 | 17 | 49    | 0.15%       | 12           |
| CUAUHTEMOC                 | TAMPS | ALDAMA            | TAMPS | 14 | 24 |    | 10 |       |       |          |       |       | 38 | 0  | 10 | 48    | 0.15%       | 12           |
| CUAUHTEMOC                 | TAMPS | CIUDAD MANTE      | TAMPS | 15 | 27 |    | 3  |       |       |          | 1     | 2     | 42 | 0  | 6  | 48    | 0.15%       | 12           |

10.- VOLUMENES DE TRANSITO POR RUTA

| RUTAS PRINCIPALES          |       |                   |       |    |    |    |    |    |       |       |          |       |       |    | TOTAL | % DEL TOTAL | PROM. DIARIO |    |
|----------------------------|-------|-------------------|-------|----|----|----|----|----|-------|-------|----------|-------|-------|----|-------|-------------|--------------|----|
|                            |       |                   |       | A  | U  | B  | C2 | C3 | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B  |       |             |              | C  |
| COATZACOALCOS              | VER   | MONTERREY         | N L   | 11 |    | 2  |    | 3  | 6     | 9     | 16       |       | 11    | 2  | 34    | 47          | 0.15%        | 12 |
| POZA RICA DE HIDALGO       | VER   | NUEVO LAREDO      | TAMPS | 7  | 2  | 17 | 10 | 3  | 6     |       | 2        |       | 9     | 17 | 21    | 47          | 0.15%        | 12 |
| HEROICA PUEBLA DE ZARAGOZA | PUE   | LINARES           | N L   | 9  | 2  | 3  |    | 5  | 8     | 5     | 14       |       | 11    | 3  | 32    | 46          | 0.14%        | 12 |
| POZA RICA DE HIDALGO       | VER   | CIUDAD VICTORIA   | TAMPS | 15 | 9  | 2  | 1  | 6  | 9     |       | 4        |       | 24    | 2  | 20    | 46          | 0.14%        | 12 |
| XALAPA ENRIQUEZ            | VER   | MONTERREY         | N L   | 4  | 7  |    | 6  |    | 11    | 9     | 9        |       | 11    | 0  | 35    | 46          | 0.14%        | 12 |
| ALTAMIRA                   | TAMPS | ZACATECAS         | ZAC   | 2  | 2  |    | 1  |    | 11    | 2     | 26       |       | 4     | 0  | 40    | 44          | 0.14%        | 11 |
| TAMPICO                    | TAMPS | QUERETARO         | QRO   |    |    |    |    |    | 19    | 2     | 22       |       | 0     | 0  | 43    | 43          | 0.13%        | 11 |
| TUXPAM DE RODRIGUEZ CANO   | VER   | HEROICA MATAMOROS | TAMPS | 18 | 12 |    | 3  |    | 8     |       | 2        |       | 30    | 0  | 13    | 43          | 0.13%        | 11 |

**11.- RUTAS AGRUPADAS POR CIUDAD DE ORIGEN**

| RUTAS PRINCIPALES          |       |                   |       |     |     |    |    |    |       |       |          |       |       |    |      | TOTAL | % DEL TOTAL | PROM. DIARIO |
|----------------------------|-------|-------------------|-------|-----|-----|----|----|----|-------|-------|----------|-------|-------|----|------|-------|-------------|--------------|
|                            |       |                   |       | A   | U   | B  | C2 | C3 | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B  | C    |       |             |              |
| CHIAPAS                    |       |                   |       |     |     |    |    |    |       |       |          |       |       |    |      |       |             |              |
| TUXTLA GUTIERREZ           | CHIS  | HEROICA MATAMOROS | TAMPS | 53  | 47  | 7  | 9  |    | 16    | 3     | 1        | 5     | 100   | 7  | 34   | 141   | 0.44%       | 35           |
| TUXTLA GUTIERREZ           | CHIS  | REYNOSA           | TAMPS | 24  | 18  |    | 4  | 4  | 8     |       | 4        |       | 42    | 0  | 20   | 62    | 0.19%       | 16           |
| TUXTLA GUTIERREZ           | CHIS  | MONTERREY         | N L   | 5   | 9   |    | 8  |    | 19    | 5     | 12       |       | 14    | 0  | 44   | 58    | 0.18%       | 15           |
| DISTRITO FEDERAL           |       |                   |       |     |     |    |    |    |       |       |          |       |       |    |      |       |             |              |
| MEXICO                     | D F   | HEROICA MATAMOROS | TAMPS | 2   | 14  | 7  | 4  | 5  | 13    | 15    | 8        |       | 16    | 7  | 45   | 68    | 0.21%       | 17           |
| MEXICO                     | D F   | CIUDAD VICTORIA   | TAMPS | 16  | 16  |    | 10 | 5  | 8     | 2     | 2        | 7     | 32    | 0  | 34   | 66    | 0.20%       | 17           |
| PUEBLA                     |       |                   |       |     |     |    |    |    |       |       |          |       |       |    |      |       |             |              |
| HEROICA PUEBLA DE ZARAGOZA | PUE   | HEROICA MATAMOROS | TAMPS | 55  | 45  | 11 | 2  | 3  | 14    | 9     | 10       |       | 100   | 11 | 38   | 149   | 0.46%       | 37           |
| HEROICA PUEBLA DE ZARAGOZA | PUE   | REYNOSA           | TAMPS | 32  | 13  | 20 | 8  | 2  | 28    | 2     | 12       |       | 45    | 20 | 52   | 117   | 0.36%       | 29           |
| HEROICA PUEBLA DE ZARAGOZA | PUE   | MONTERREY         | N L   | 15  | 2   | 3  | 12 | 6  | 20    | 7     | 13       |       | 17    | 3  | 58   | 78    | 0.24%       | 20           |
| HEROICA PUEBLA DE ZARAGOZA | PUE   | LINARES           | N L   | 9   | 2   | 3  |    | 5  | 8     | 5     | 14       |       | 11    | 3  | 32   | 46    | 0.14%       | 12           |
| TABASCO                    |       |                   |       |     |     |    |    |    |       |       |          |       |       |    |      |       |             |              |
| VILLAHERMOSA               | TAB   | REYNOSA           | TAMPS | 12  | 25  | 11 | 8  | 3  | 25    | 20    | 10       |       | 37    | 11 | 66   | 114   | 0.35%       | 29           |
| VILLAHERMOSA               | TAB   | MONTERREY         | N L   | 9   | 13  | 1  | 11 | 7  | 20    | 12    | 10       |       | 22    | 1  | 60   | 83    | 0.26%       | 21           |
| TAMAULIPAS                 |       |                   |       |     |     |    |    |    |       |       |          |       |       |    |      |       |             |              |
| ALTAMIRA                   | TAMPS | MONTERREY         | N L   | 96  | 81  | 7  | 92 | 71 | 290   | 137   | 475      | 31    | 177   | 7  | 1096 | 1280  | 3.97%       | 320          |
| ALTAMIRA                   | TAMPS | ESTACION MANUEL   | TAMPS | 235 | 263 |    | 31 | 25 | 16    | 20    | 24       |       | 498   | 0  | 116  | 614   | 1.90%       | 154          |
| ALTAMIRA                   | TAMPS | CIUDAD VICTORIA   | TAMPS | 195 | 131 | 2  | 40 | 23 | 30    | 29    | 45       | 8     | 326   | 2  | 175  | 503   | 1.56%       | 126          |
| ALTAMIRA                   | TAMPS | CIUDAD MANTE      | TAMPS | 115 | 118 | 1  | 59 | 27 | 57    | 29    | 48       | 7     | 233   | 1  | 227  | 461   | 1.43%       | 115          |
| ALTAMIRA                   | TAMPS | GONZALEZ          | TAMPS | 174 | 146 | 2  | 22 | 23 | 21    | 21    | 19       |       | 320   | 2  | 106  | 428   | 1.33%       | 107          |
| ALTAMIRA                   | TAMPS | ALDAMA            | TAMPS | 99  | 93  |    | 30 | 32 | 32    | 29    | 19       | 8     | 192   | 0  | 150  | 342   | 1.06%       | 86           |
| ALTAMIRA                   | TAMPS | HEROICA MATAMOROS | TAMPS | 82  | 27  |    | 20 | 23 | 54    | 12    | 52       | 17    | 109   | 0  | 178  | 287   | 0.89%       | 72           |
| ALTAMIRA                   | TAMPS | SAN LUIS POTOSI   | SLP   | 3   | 6   | 5  | 17 | 12 | 59    | 36    | 124      | 12    | 9     | 5  | 260  | 274   | 0.85%       | 69           |
| ALTAMIRA                   | TAMPS | REYNOSA           | TAMPS | 39  | 31  | 16 | 32 | 8  | 68    | 21    | 39       | 7     | 70    | 16 | 175  | 261   | 0.81%       | 65           |
| ALTAMIRA                   | TAMPS | GUADALAJARA       | JAL   | 26  | 2   |    | 7  | 7  | 53    | 11    | 95       | 5     | 28    | 0  | 178  | 206   | 0.64%       | 52           |
| ALTAMIRA                   | TAMPS | SALTILLO          | COAH  | 3   |     | 3  | 16 | 10 | 31    | 17    | 54       |       | 3     | 3  | 128  | 134   | 0.42%       | 34           |
| ALTAMIRA                   | TAMPS | QUERETARO         | QRO   | 5   |     |    | 12 | 6  | 14    | 15    | 55       | 3     | 5     | 0  | 105  | 110   | 0.34%       | 28           |
| ALTAMIRA                   | TAMPS | NUEVO LAREDO      | TAMPS | 14  | 13  | 4  | 14 |    | 39    | 13    | 10       |       | 27    | 4  | 76   | 107   | 0.33%       | 27           |
| ALTAMIRA                   | TAMPS | TORREON           | COAH  | 10  | 2   |    | 8  | 3  | 20    | 10    | 43       | 5     | 12    | 0  | 89   | 101   | 0.31%       | 25           |
| ALTAMIRA                   | TAMPS | CADEREYTA JIMENEZ | N L   | 3   | 6   |    | 5  |    | 16    | 12    | 27       |       | 9     | 0  | 60   | 69    | 0.21%       | 17           |
| ALTAMIRA                   | TAMPS | CHIHUAHUA         | CHIH  | 3   |     |    | 3  | 3  | 17    | 8     | 26       |       | 3     | 0  | 57   | 60    | 0.19%       | 15           |
| ALTAMIRA                   | TAMPS | MONCLOVA          | COAH  | 9   | 1   |    |    | 6  | 13    | 1     | 24       |       | 10    | 0  | 44   | 54    | 0.17%       | 14           |
| ALTAMIRA                   | TAMPS | LINARES           | N L   | 15  | 2   | 8  | 2  |    | 12    | 4     | 6        |       | 17    | 8  | 24   | 49    | 0.15%       | 12           |
| ALTAMIRA                   | TAMPS | ZACATECAS         | ZAC   | 2   | 2   |    | 1  |    | 11    | 2     | 26       |       | 4     | 0  | 40   | 44    | 0.14%       | 11           |
| CIUDAD MADERO              | TAMPS | CIUDAD VICTORIA   | TAMPS | 89  | 48  |    | 8  | 13 | 2     | 5     | 16       |       | 137   | 0  | 44   | 181   | 0.56%       | 45           |
| CIUDAD MADERO              | TAMPS | MONTERREY         | N L   | 67  | 18  | 2  | 14 | 9  | 29    | 9     | 32       |       | 85    | 2  | 93   | 180   | 0.56%       | 45           |
| CIUDAD MADERO              | TAMPS | CIUDAD MANTE      | TAMPS | 39  | 28  |    | 12 | 12 | 16    | 16    | 33       | 6     | 67    | 0  | 95   | 162   | 0.50%       | 41           |
| CIUDAD MADERO              | TAMPS | ALDAMA            | TAMPS | 40  | 12  |    | 8  | 26 | 13    | 23    | 10       |       | 52    | 0  | 80   | 132   | 0.41%       | 33           |

11.- RUTAS AGRUPADAS POR CIUDAD DE ORIGEN

| RUTAS PRINCIPALES    |       |                   |       |      |     |     |     |     |       |       |          |       |       |     |      | TOTAL | % DEL TOTAL | PROM. DIARIO |
|----------------------|-------|-------------------|-------|------|-----|-----|-----|-----|-------|-------|----------|-------|-------|-----|------|-------|-------------|--------------|
|                      |       |                   |       | A    | U   | B   | C2  | C3  | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B   | C    |       |             |              |
| CIUDAD MADERO        | TAMPS | CADEREYTA JIMENEZ | N L   | 27   | 13  |     | 5   | 10  | 15    | 16    | 29       | 4     | 40    | 0   | 79   | 119   | 0.37%       | 30           |
| CIUDAD MADERO        | TAMPS | GONZALEZ          | TAMPS | 25   | 27  |     | 9   | 14  | 12    | 3     | 16       |       | 52    | 0   | 54   | 106   | 0.33%       | 27           |
| CIUDAD MADERO        | TAMPS | HEROICA MATAMOROS | TAMPS | 52   | 14  | 7   | 8   | 6   | 2     | 13    | 3        |       | 66    | 7   | 32   | 105   | 0.33%       | 26           |
| CIUDAD MADERO        | TAMPS | ESTACION MANUEL   | TAMPS | 20   | 23  |     | 10  | 18  | 2     | 6     | 2        | 2     | 43    | 0   | 40   | 83    | 0.26%       | 21           |
| CIUDAD MADERO        | TAMPS | REYNOSA           | TAMPS | 32   | 9   |     |     | 9   | 6     | 9     | 4        |       | 41    | 0   | 28   | 69    | 0.21%       | 17           |
| CIUDAD MADERO        | TAMPS | SAN LUIS POTOSI   | SLP   |      | 3   |     |     | 3   | 2     |       | 38       | 8     | 3     | 0   | 51   | 54    | 0.17%       | 14           |
| CUAUHTEMOC           | TAMPS | ESTACION MANUEL   | TAMPS | 99   | 162 |     | 17  | 2   | 4     |       | 8        |       | 261   | 0   | 31   | 292   | 0.91%       | 73           |
| CUAUHTEMOC           | TAMPS | GONZALEZ          | TAMPS | 29   | 44  |     |     | 1   | 2     |       | 4        |       | 73    | 0   | 7    | 80    | 0.25%       | 20           |
| CUAUHTEMOC           | TAMPS | ALDAMA            | TAMPS | 14   | 24  |     | 10  |     |       |       |          |       | 38    | 0   | 10   | 48    | 0.15%       | 12           |
| CUAUHTEMOC           | TAMPS | CIUDAD MANTE      | TAMPS | 15   | 27  |     | 3   |     |       |       | 1        | 2     | 42    | 0   | 6    | 48    | 0.15%       | 12           |
| TAMPICO              | TAMPS | MONTERREY         | N L   | 1212 | 699 | 313 | 340 | 244 | 482   | 175   | 424      | 35    | 1911  | 313 | 1700 | 3924  | 12.17%      | 981          |
| TAMPICO              | TAMPS | CIUDAD VICTORIA   | TAMPS | 1366 | 801 | 131 | 179 | 59  | 94    | 54    | 70       | 8     | 2167  | 131 | 464  | 2762  | 8.56%       | 691          |
| TAMPICO              | TAMPS | CIUDAD MANTE      | TAMPS | 985  | 691 | 197 | 145 | 74  | 130   | 37    | 94       | 3     | 1676  | 197 | 483  | 2356  | 7.31%       | 589          |
| TAMPICO              | TAMPS | ESTACION MANUEL   | TAMPS | 657  | 600 | 6   | 91  | 32  | 32    | 29    | 30       |       | 1257  | 6   | 214  | 1477  | 4.58%       | 369          |
| TAMPICO              | TAMPS | ALDAMA            | TAMPS | 424  | 445 | 10  | 125 | 113 | 50    | 71    | 27       | 10    | 869   | 10  | 396  | 1275  | 3.95%       | 319          |
| TAMPICO              | TAMPS | REYNOSA           | TAMPS | 487  | 314 | 139 | 45  | 30  | 93    | 20    | 42       | 7     | 801   | 139 | 237  | 1177  | 3.65%       | 294          |
| TAMPICO              | TAMPS | GONZALEZ          | TAMPS | 570  | 445 | 13  | 49  | 27  | 21    | 19    | 9        | 3     | 1015  | 13  | 128  | 1156  | 3.58%       | 289          |
| TAMPICO              | TAMPS | HEROICA MATAMOROS | TAMPS | 454  | 274 | 122 | 32  | 32  | 97    | 39    | 56       | 5     | 728   | 122 | 261  | 1111  | 3.45%       | 278          |
| TAMPICO              | TAMPS | NUEVO LAREDO      | TAMPS | 99   | 71  | 29  | 19  | 2   | 38    | 7     | 12       |       | 170   | 29  | 78   | 277   | 0.86%       | 69           |
| TAMPICO              | TAMPS | SAN LUIS POTOSI   | SLP   | 39   | 19  | 21  | 28  | 14  | 38    | 17    | 93       | 8     | 58    | 21  | 198  | 277   | 0.86%       | 69           |
| TAMPICO              | TAMPS | TORREON           | COAH  | 20   | 9   | 4   | 17  | 11  | 45    | 35    | 22       | 4     | 29    | 4   | 134  | 167   | 0.52%       | 42           |
| TAMPICO              | TAMPS | LINARES           | N L   | 42   | 30  | 5   | 15  | 10  | 13    | 6     | 14       |       | 72    | 5   | 58   | 135   | 0.42%       | 34           |
| TAMPICO              | TAMPS | CADEREYTA JIMENEZ | N L   | 40   | 16  | 10  | 6   | 5   | 6     | 13    | 12       |       | 56    | 10  | 42   | 108   | 0.33%       | 27           |
| TAMPICO              | TAMPS | SOTO LA MARINA    | TAMPS | 39   | 43  |     | 3   |     | 13    |       | 6        |       | 82    | 0   | 22   | 104   | 0.32%       | 26           |
| TAMPICO              | TAMPS | XICOTENCATL       | TAMPS | 63   | 32  | 2   | 6   |     |       |       |          |       | 95    | 2   | 6    | 103   | 0.32%       | 26           |
| TAMPICO              | TAMPS | SALTILLO          | COAH  | 28   | 11  |     | 2   | 3   | 16    | 6     | 15       |       | 39    | 0   | 42   | 81    | 0.25%       | 20           |
| TAMPICO              | TAMPS | GUADALAJARA       | JAL   | 10   | 2   |     | 9   | 11  | 12    | 3     | 24       |       | 12    | 0   | 59   | 71    | 0.22%       | 18           |
| TAMPICO              | TAMPS | SAN FERNANDO      | TAMPS | 20   | 30  |     | 9   | 3   |       | 2     | 2        |       | 50    | 0   | 16   | 66    | 0.20%       | 17           |
| TAMPICO              | TAMPS | MONCLOVA          | COAH  | 16   | 5   |     | 2   | 3   | 7     | 11    | 12       | 2     | 21    | 0   | 37   | 58    | 0.18%       | 15           |
| TAMPICO              | TAMPS | QUERETARO         | QRO   |      |     |     |     |     | 19    | 2     | 22       |       | 0     | 0   | 43   | 43    | 0.13%       | 11           |
| VERACRUZ             |       |                   |       |      |     |     |     |     |       |       |          |       |       |     |      |       |             |              |
| COATZACOALCOS        | VER   | MONTERREY         | N L   | 11   |     | 2   |     | 3   | 6     | 9     | 16       |       | 11    | 2   | 34   | 47    | 0.15%       | 12           |
| MARTINEZ DE LA TORRE | VER   | REYNOSA           | TAMPS |      | 5   |     |     | 11  | 52    | 14    | 13       |       | 5     | 0   | 90   | 95    | 0.29%       | 24           |
| NARANJOS             | VER   | REYNOSA           | TAMPS | 13   | 31  |     |     |     |       |       | 6        |       | 44    | 0   | 6    | 50    | 0.16%       | 13           |
| ORIZABA              | VER   | MONTERREY         | N L   | 1    | 2   | 2   | 3   | 12  | 19    |       | 15       | 3     | 3     | 2   | 52   | 57    | 0.18%       | 14           |
| POZA RICA DE HIDALGO | VER   | REYNOSA           | TAMPS | 93   | 57  | 76  | 9   | 10  | 17    | 8     | 6        | 6     | 150   | 76  | 56   | 282   | 0.87%       | 71           |
| POZA RICA DE HIDALGO | VER   | MONTERREY         | N L   | 53   | 28  | 65  | 32  | 17  | 29    | 13    | 22       |       | 81    | 65  | 113  | 259   | 0.80%       | 65           |
| POZA RICA DE HIDALGO | VER   | HEROICA MATAMOROS | TAMPS | 28   | 6   | 26  |     | 3   | 3     |       | 4        |       | 34    | 26  | 10   | 70    | 0.22%       | 18           |
| POZA RICA DE HIDALGO | VER   | CIUDAD MANTE      | TAMPS | 13   | 8   | 11  | 6   |     | 4     | 3     | 4        |       | 21    | 11  | 17   | 49    | 0.15%       | 12           |

11.- RUTAS AGRUPADAS POR CIUDAD DE ORIGEN

| RUTAS PRINCIPALES        |     |                   |       |     |    |    |    |    |       |       |          |       |       |    |     | TOTAL | % DEL TOTAL | PROM. DIARIO |
|--------------------------|-----|-------------------|-------|-----|----|----|----|----|-------|-------|----------|-------|-------|----|-----|-------|-------------|--------------|
|                          |     |                   |       | A   | U  | B  | C2 | C3 | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B  | C   |       |             |              |
| POZA RICA DE HIDALGO     | VER | NUEVO LAREDO      | TAMPS | 7   | 2  | 17 | 10 | 3  | 6     |       | 2        |       | 9     | 17 | 21  | 47    | 0.15%       | 12           |
| POZA RICA DE HIDALGO     | VER | CIUDAD VICTORIA   | TAMPS | 15  | 9  | 2  | 1  | 6  | 9     |       | 4        |       | 24    | 2  | 20  | 46    | 0.14%       | 12           |
| TUXPAM DE RODRIGUEZ CANO | VER | MONTERREY         | N L   | 25  | 13 | 3  | 10 | 4  | 11    | 15    | 9        |       | 38    | 3  | 49  | 90    | 0.28%       | 23           |
| TUXPAM DE RODRIGUEZ CANO | VER | REYNOSA           | TAMPS | 37  | 10 | 8  | 3  |    | 7     | 2     | 4        |       | 47    | 8  | 16  | 71    | 0.22%       | 18           |
| TUXPAM DE RODRIGUEZ CANO | VER | HEROICA MATAMOROS | TAMPS | 18  | 12 |    | 3  |    | 8     |       | 2        |       | 30    | 0  | 13  | 43    | 0.13%       | 11           |
| VERACRUZ                 | VER | MONTERREY         | N L   | 123 | 78 | 5  | 54 | 30 | 128   | 47    | 128      | 5     | 201   | 5  | 392 | 598   | 1.85%       | 150          |
| VERACRUZ                 | VER | REYNOSA           | TAMPS | 137 | 84 | 31 | 23 | 12 | 70    | 23    | 20       | 6     | 221   | 31 | 154 | 406   | 1.26%       | 102          |
| VERACRUZ                 | VER | HEROICA MATAMOROS | TAMPS | 98  | 73 | 21 | 10 | 10 | 44    | 7     | 30       |       | 171   | 21 | 101 | 293   | 0.91%       | 73           |
| VERACRUZ                 | VER | CIUDAD VICTORIA   | TAMPS | 29  | 24 | 2  | 3  | 5  | 11    | 16    | 11       | 3     | 53    | 2  | 49  | 104   | 0.32%       | 26           |
| VERACRUZ                 | VER | NUEVO LAREDO      | TAMPS | 16  | 13 |    | 9  | 1  | 25    | 3     | 6        |       | 29    | 0  | 44  | 73    | 0.23%       | 18           |
| VERACRUZ                 | VER | CIUDAD MANTE      | TAMPS | 16  | 15 | 1  | 8  | 6  | 10    |       | 10       |       | 31    | 1  | 34  | 66    | 0.20%       | 17           |
| VERACRUZ                 | VER | TORREON           | COAH  | 7   | 4  |    | 6  | 4  | 16    | 12    | 8        | 3     | 11    | 0  | 49  | 60    | 0.19%       | 15           |
| XALAPA ENRIQUEZ          | VER | MONTERREY         | N L   | 4   | 7  |    | 6  |    | 11    | 9     | 9        |       | 11    | 0  | 35  | 46    | 0.14%       | 12           |
| YUCATAN                  |     |                   |       |     |    |    |    |    |       |       |          |       |       |    |     |       |             |              |
| MERIDA                   | YUC | MONTERREY         | N L   | 5   | 4  | 2  | 15 | 3  | 32    | 15    | 16       |       | 9     | 2  | 81  | 92    | 0.29%       | 23           |

**SCT**



SECRETARÍA DE  
COMUNICACIONES  
Y TRANSPORTES

Subsecretaría de Infraestructura  
Dirección General de Servicios Técnicos

## ESTUDIO DE ORIGEN – DESTINO Y PESO

### ESTACIÓN “AEROPUERTO”

CARRETERA: **PACHUCA – ENT. CAÑADA RICA**

TRAMO: **ENT. EMPALME – ENT. TIHUATLÁN 1**

Km: **204 + 200**

REFERENCIA GEOGRÁFICA: **Lat = 20°36'58" N, Long = 97°30'17" W**

ORIGEN: **PACHUCA**

ESTUDIO EFECTUADO DEL 4 AL 7 DE SEPTIEMBRE DE 2007



# SINTESIS DEL ESTUDIO ORIGEN-DESTINO

## ESTACION "AEROPUERTO"

CARRETERA: **PACHUCA - ENT. CAÑADA RICA**  
 TRAMO: **ENT. EMPALME - ENT. TIHUATLAN 1**

LUGAR: **KM 204+200**  
 ORIGEN: **PACHUCA**  
 FECHA: **DEL 4 AL 7 DE SEPTIEMBRE DE 2007**

### 1.- VOLUMENES DE TRANSITO

(Número de Vehículos)

|                                |       |  |                         |      |                       |  |                       |
|--------------------------------|-------|--|-------------------------|------|-----------------------|--|-----------------------|
| HACIA: <b>ENT. CAÑADA RICA</b> | 22214 |  | HACIA: ENT. CAÑADA RICA |      | HACIA: <b>PACHUCA</b> |  | <b>AMBOS SENTIDOS</b> |
| HACIA: <b>PACHUCA</b>          | 22501 |  | PROMEDIO DIARIO         | 5554 | 5625                  |  | 11179                 |
| TOTAL AFORADO                  | 44715 |  | MAXIMO HORARIO          | 404  | 501                   |  | 803                   |

| TRANSITO DIARIO | HACIA: ENT. CAÑADA RICA | MAXIMO HORARIO |      | HACIA: <b>PACHUCA</b> | MAXIMO HORARIO |      | TOTAL |
|-----------------|-------------------------|----------------|------|-----------------------|----------------|------|-------|
|                 |                         | A.M.           | P.M. |                       | A.M.           | P.M. |       |
| LUNES           |                         |                |      |                       |                |      |       |
| MARTES          | 5671                    | 381            | 404  | 5489                  | 342            | 403  | 11160 |
| MIÉRCOLES       | 5448                    | 334            | 350  | 5563                  | 292            | 416  | 11011 |
| JUEVES          | 5685                    | 390            | 383  | 5671                  | 311            | 415  | 11356 |
| VIERNES         | 5410                    | 316            | 376  | 5778                  | 269            | 501  | 11188 |
| SÁBADO          |                         |                |      |                       |                |      |       |
| DOMINGO         |                         |                |      |                       |                |      |       |
| TOTAL           | 22214                   |                |      | 22501                 |                |      | 44715 |

### 2.- CLASIFICACION VEHICULAR

(Número de Vehículos)

| TIPO DE VEHICULO | HACIA: ENT. CAÑADA RICA | HACIA: <b>PACHUCA</b> | TOTAL | %    |
|------------------|-------------------------|-----------------------|-------|------|
| A                | 10551                   | 11627                 | 22178 | 50%  |
| U                | 4905                    | 4651                  | 9556  | 21%  |
| B                | 2402                    | 2034                  | 4436  | 10%  |
| C2               | 1725                    | 1709                  | 3434  | 8%   |
| C3               | 873                     | 832                   | 1705  | 4%   |
| T3-S2            | 916                     | 773                   | 1689  | 4%   |
| T3-S3            | 504                     | 552                   | 1056  | 2%   |
| T3-S2-R4         | 281                     | 260                   | 541   | 1%   |
| OTROS            | 57                      | 63                    | 120   | 0%   |
| TOTAL            | 22214                   | 22501                 | 44715 | 100% |

### 3.- PROMEDIO DE PASAJEROS POR VEHICULO Y POR SENTIDO

| TIPO DE VEHICULO | HACIA: ENT. CAÑADA RICA | HACIA: PACHUCA | AMBOS SENTIDOS |
|------------------|-------------------------|----------------|----------------|
| AUTOMOVILES      | 2.03                    | 2.03           | 2.03           |
| AUTOBUSES        | 15.43                   | 15.73          | 15.56          |

### 4.- PROMEDIO DE TRIPULANTES POR TIPO DE VEHICULO (Número de Personas)

| TIPO DE VEHICULO | HACIA: ENT. CAÑADA RICA | HACIA: PACHUCA | AMBOS SENTIDOS |
|------------------|-------------------------|----------------|----------------|
| U                | 2.06                    | 2.02           | 2.04           |
| B                | 1.49                    | 1.47           | 1.48           |
| C2               | 1.34                    | 1.33           | 1.34           |
| C3               | 1.32                    | 1.26           | 1.29           |
| T3-S2            | 1.25                    | 1.23           | 1.24           |
| T3-S3            | 1.19                    | 1.26           | 1.22           |
| T3-S2-R4         | 1.22                    | 1.18           | 1.20           |
| OTROS            | 1.21                    | 1.32           | 1.26           |

### 5.- MOTIVO DEL VIAJE DE LOS AUTOMOVILES (Número de Vehículos)

| MOTIVO  | HACIA: ENT. CAÑADA RICA |     | HACIA: PACHUCA |     | AMBOS SENTIDOS |     |
|---------|-------------------------|-----|----------------|-----|----------------|-----|
| TRABAJO | 6869                    | 65% | 7651           | 66% | 14520          | 65% |
| PASEO   | 3682                    | 35% | 3976           | 34% | 7658           | 35% |

### 6.- CAMIONES CON CARGA Y SIN CARGA POR SENTIDO

| TIPO DE VEHICULO | HACIA: ENT. CAÑADA RICA |           | HACIA: PACHUCA |           | AMBOS SENTIDOS |           |
|------------------|-------------------------|-----------|----------------|-----------|----------------|-----------|
|                  | CON CARGA               | SIN CARGA | CON CARGA      | SIN CARGA | CON CARGA      | SIN CARGA |
| C2               | 612                     | 1113      | 684            | 1025      | 1296           | 2138      |
| C3               | 385                     | 488       | 438            | 394       | 823            | 882       |
| T3-S2            | 375                     | 541       | 419            | 354       | 794            | 895       |
| T3-S3            | 200                     | 304       | 360            | 192       | 560            | 496       |
| T3-S2-R4         | 139                     | 142       | 164            | 96        | 303            | 238       |
| OTROS            | 35                      | 22        | 29             | 34        | 64             | 56        |
| TOTAL            | 1746                    | 2610      | 2094           | 2095      | 3840           | 4705      |

## 7.- TONELADAS TRANSPORTADAS POR TIPO DE PRODUCTO Y POR SENTIDO

SENTIDO: 1

HACIA: ENT. CAÑADA RICA

|                                                                | TONELADAS TRANSPORTADAS |        |             |        |             |        |             |        |             |        |             |       |             |         |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|-------|-------------|---------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |        | T3-S2       |        | T3-S3       |        | T3-S2-R4    |        | OTROS       |       | SUBTOTAL    |         |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)   | No. DE VEH. | (t)     |
| 1.- FORESTALES                                                 | 4                       | 18.0   | 4           | 12     | 8           | 166    | 5           | 121.5  | 7           | 165    |             |       | 28          | 482.5   |
| 2.- AGRICOLAS                                                  | 68                      | 234.9  | 55          | 400.8  | 44          | 639.5  | 36          | 784.1  | 18          | 600.1  | 3           | 4.6   | 224         | 2664.0  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 17                      | 41.4   | 8           | 38.6   | 11          | 174.0  | 2           | 17.5   | 4           | 86     |             |       | 42          | 357.5   |
| 4.- MINERALES                                                  | 6                       | 17.9   | 2           | 5.1    | 5           | 111.0  | 5           | 45.1   | 2           | 79.5   |             |       | 20          | 258.6   |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 51                      | 196.0  | 23          | 168.9  | 22          | 351.9  | 8           | 175.2  | 22          | 932.5  |             |       | 126         | 1824.5  |
| 6.- INORGANICOS                                                | 31                      | 148.0  | 44          | 311.5  | 17          | 339.5  | 13          | 331.4  | 8           | 211.1  | 4           | 60.2  | 117         | 1401.7  |
| 7.- INDUSTRIALES                                               | 402                     | 1373.7 | 214         | 1332.6 | 218         | 3220.3 | 120         | 2218.9 | 74          | 2044.7 | 28          | 329.0 | 1056        | 10519.2 |
| 8.- VARIOS                                                     | 33                      | 88.8   | 35          | 213.9  | 50          | 715.7  | 11          | 197.2  | 4           | 92.4   |             |       | 133         | 1308.0  |
| TOTAL                                                          | 612                     | 2118.7 | 385         | 2483.4 | 375         | 5717.9 | 200         | 3890.9 | 139         | 4211.3 | 35          | 393.8 | 1746        | 18816.0 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.5                     |        | 6.5         |        | 15.2        |        | 19.5        |        | 30.3        |        | 11.3        |       | 10.8        |         |

SENTIDO: 2

HACIA: PACHUCA

|                                                                | TONELADAS TRANSPORTADAS |        |             |        |             |        |             |        |             |        |             |       |             |         |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|-------|-------------|---------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |        | T3-S2       |        | T3-S3       |        | T3-S2-R4    |        | OTROS       |       | SUBTOTAL    |         |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)   | No. DE VEH. | (t)     |
| 1.- FORESTALES                                                 | 10                      | 20.5   | 7           | 86.3   | 36          | 503    | 19          | 289    | 18          | 507.9  |             |       | 90          | 1406.7  |
| 2.- AGRICOLAS                                                  | 100                     | 472.6  | 105         | 766.4  | 38          | 597.5  | 87          | 1894.9 | 24          | 580    | 4           | 57.8  | 358         | 4369.2  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 50                      | 155.4  | 19          | 105.7  | 15          | 175.9  | 13          | 225.4  | 6           | 153.8  |             |       | 103         | 816.2   |
| 4.- MINERALES                                                  | 2                       | 1.1    | 3           | 24.5   | 9           | 142.1  | 6           | 119.0  | 13          | 302.7  | 7           | 56.9  | 40          | 646.3   |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 23                      | 76.5   | 35          | 218.7  | 33          | 526.5  | 24          | 451.6  | 15          | 501.4  |             |       | 130         | 1774.7  |
| 6.- INORGANICOS                                                | 25                      | 90.5   | 36          | 231.8  | 12          | 132.2  | 11          | 202.1  | 8           | 169.4  |             |       | 92          | 826.0   |
| 7.- INDUSTRIALES                                               | 422                     | 1230.1 | 197         | 1147.5 | 237         | 3285.5 | 168         | 2939.2 | 72          | 1664.1 | 18          | 201.7 | 1114        | 10468.1 |
| 8.- VARIOS                                                     | 52                      | 117.0  | 36          | 177.3  | 39          | 502.6  | 32          | 597.1  | 8           | 149.3  |             |       | 167         | 1543.3  |
| TOTAL                                                          | 684                     | 2163.7 | 438         | 2758.2 | 419         | 5865.3 | 360         | 6718.3 | 164         | 4028.6 | 29          | 316.4 | 2094        | 21850.5 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.2                     |        | 6.3         |        | 14.0        |        | 18.7        |        | 24.6        |        | 10.9        |       | 10.4        |         |

### AMBOS SENTIDOS

|                                                                | TONELADAS TRANSPORTADAS |        |             |        |             |         |             |         |             |        |             |       |             |         |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|---------|-------------|---------|-------------|--------|-------------|-------|-------------|---------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |        | T3-S2       |         | T3-S3       |         | T3-S2-R4    |        | OTROS       |       | SUBTOTAL    |         |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)     | No. DE VEH. | (t)     | No. DE VEH. | (t)    | No. DE VEH. | (t)   | No. DE VEH. | (t)     |
| 1.- FORESTALES                                                 | 14                      | 38.5   | 11          | 98.3   | 44          | 669.0   | 24          | 410.5   | 25          | 672.9  | 0           | 0.0   | 118         | 1889.2  |
| 2.- AGRICOLAS                                                  | 168                     | 707.5  | 160         | 1167.2 | 82          | 1237.0  | 123         | 2679.0  | 42          | 1180.1 | 7           | 62.4  | 582         | 7033.2  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 67                      | 196.8  | 27          | 144.3  | 26          | 349.9   | 15          | 242.9   | 10          | 239.8  | 0           | 0.0   | 145         | 1173.7  |
| 4.- MINERALES                                                  | 8                       | 19.0   | 5           | 29.6   | 14          | 253.1   | 11          | 164.1   | 15          | 382.2  | 7           | 56.9  | 60          | 904.9   |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 74                      | 272.5  | 58          | 387.6  | 55          | 878.4   | 32          | 626.8   | 37          | 1433.9 | 0           | 0.0   | 256         | 3599.2  |
| 6.- INORGANICOS                                                | 56                      | 238.5  | 80          | 543.3  | 29          | 471.7   | 24          | 533.5   | 16          | 380.5  | 4           | 60.2  | 209         | 2227.7  |
| 7.- INDUSTRIALES                                               | 824                     | 2603.8 | 411         | 2480.1 | 455         | 6505.8  | 288         | 5158.1  | 146         | 3708.8 | 46          | 530.7 | 2170        | 20987.3 |
| 8.- VARIOS                                                     | 85                      | 205.8  | 71          | 391.2  | 89          | 1218.3  | 43          | 794.3   | 12          | 241.7  | 0           | 0.0   | 300         | 2851.3  |
| TOTAL                                                          | 1296                    | 4282.4 | 823         | 5241.6 | 794         | 11583.2 | 560         | 10609.2 | 303         | 8239.9 | 64          | 710.2 | 3840        | 40666.5 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.3                     |        | 6.4         |        | 14.6        |         | 18.9        |         | 27.2        |        | 11.1        |       | 10.6        |         |

# 8.- DISTRIBUCION DEL PESO PROMEDIO POR EJE Y POR TIPO DE VEHICULO DEL TOTAL DE CAMIONES REGISTRADOS

CARRETERA: PACHUCA - ENT. CAÑADA RICA

KM: 204+200

EST: AEROPUERTO

| TIPO DE VEHICULO | TOTAL DE VEHICULOS | PESO BRUTO VEHICULAR PROM. (t) | PESO PROMEDIO POR EJE (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 3434               | 6.73                           | 2.51                      | 4.22 |      |      |      |      |      |      |      |
| C3               | 1705               | 12.02                          | 3.46                      | 4.41 | 4.15 |      |      |      |      |      |      |
| T3-S2            | 1689               | 22.84                          | 3.90                      | 5.08 | 4.97 | 4.38 | 4.51 |      |      |      |      |
| T3-S3            | 1056               | 30.48                          | 4.27                      | 5.99 | 5.84 | 4.81 | 4.74 | 4.83 |      |      |      |
| T3-S2-R4         | 541                | 44.25                          | 3.78                      | 5.58 | 5.52 | 4.99 | 5.03 | 4.95 | 4.61 | 4.83 | 4.96 |

# 9.- DISTRIBUCION DEL PESO PROMEDIO POR EJE Y POR TIPO DE VEHICULO DEL TOTAL DE VEHICULOS CARGADOS

CARRETERA: PACHUCA - ENT. CAÑADA RICA

KM: 204+200

EST: AEROPUERTO

| TIPO DE VEHICULO | TOTAL DE VEHICULOS | PESO BRUTO VEHICULAR PROM. (t) | PESO PROMEDIO POR EJE (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 1296               | 8.69                           | 3.16                      | 5.53 |      |      |      |      |      |      |      |
| C3               | 823                | 13.83                          | 3.75                      | 5.18 | 4.90 |      |      |      |      |      |      |
| T3-S2            | 794                | 30.25                          | 4.44                      | 6.76 | 6.66 | 6.12 | 6.27 |      |      |      |      |
| T3-S3            | 560                | 35.54                          | 4.31                      | 6.94 | 6.81 | 5.86 | 5.76 | 5.86 |      |      |      |
| T3-S2-R4         | 303                | 53.99                          | 3.88                      | 6.74 | 6.63 | 6.24 | 6.34 | 6.07 | 5.72 | 6.10 | 6.27 |

10.- VOLUMENES DE TRANSITO POR RUTA

| RUTAS PRINCIPALES          |     |                          |       |      |      |     |     |     |       |       |          |       |       |     |      | TOTAL | % DEL TOTAL | PROM. DIARIO |
|----------------------------|-----|--------------------------|-------|------|------|-----|-----|-----|-------|-------|----------|-------|-------|-----|------|-------|-------------|--------------|
|                            |     |                          |       | A    | U    | B   | C2  | C3  | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B   | C    |       |             |              |
| POZA RICA DE HIDALGO       | VER | TIHUATLAN                | VER   | 8002 | 3295 | 526 | 820 | 278 | 129   | 93    | 37       | 10    | 11297 | 526 | 1367 | 13190 | 29.50%      | 3298         |
| POZA RICA DE HIDALGO       | VER | TUXPAM DE RODRIGUEZ CANO | VER   | 4343 | 1554 | 878 | 568 | 272 | 155   | 74    | 48       | 9     | 5897  | 878 | 1126 | 7901  | 17.67%      | 1975         |
| POZA RICA DE HIDALGO       | VER | ALAMO                    | VER   | 2501 | 1007 | 282 | 345 | 126 | 91    | 49    | 18       | 12    | 3508  | 282 | 641  | 4431  | 9.91%       | 1108         |
| POZA RICA DE HIDALGO       | VER | TAMPICO                  | TAMPS | 877  | 465  | 519 | 223 | 86  | 95    | 42    | 36       | 7     | 1342  | 519 | 489  | 2350  | 5.26%       | 588          |
| MEXICO                     | D F | TAMPICO                  | TAMPS | 283  | 174  | 499 | 159 | 139 | 243   | 109   | 62       | 9     | 457   | 499 | 721  | 1677  | 3.75%       | 419          |
| MEXICO                     | D F | TUXPAM DE RODRIGUEZ CANO | VER   | 324  | 119  | 192 | 110 | 58  | 74    | 118   | 24       | 2     | 443   | 192 | 386  | 1021  | 2.28%       | 255          |
| POZA RICA DE HIDALGO       | VER | CASTILLO DE TEAYO        | VER   | 536  | 216  | 68  | 62  | 14  | 7     | 13    | 2        |       | 752   | 68  | 98   | 918   | 2.05%       | 230          |
| POZA RICA DE HIDALGO       | VER | NARANJOS                 | VER   | 309  | 203  | 65  | 60  | 22  | 11    | 6     | 2        |       | 512   | 65  | 101  | 678   | 1.52%       | 170          |
| POZA RICA DE HIDALGO       | VER | CERRO AZUL               | VER   | 379  | 142  | 7   | 23  | 15  | 3     | 6     | 1        |       | 521   | 7   | 48   | 576   | 1.29%       | 144          |
| POZA RICA DE HIDALGO       | VER | REYNOSA                  | TAMPS | 179  | 67   | 125 | 32  | 14  | 24    | 8     | 10       |       | 246   | 125 | 88   | 459   | 1.03%       | 115          |
| MEXICO                     | D F | ALTAMIRA                 | TAMPS | 18   | 12   | 30  | 42  | 37  | 134   | 68    | 26       | 5     | 30    | 30  | 312  | 372   | 0.83%       | 93           |
| MEXICO                     | D F | TIHUATLAN                | VER   | 157  | 105  | 14  | 38  | 16  | 12    | 5     | 6        | 4     | 262   | 14  | 81   | 357   | 0.80%       | 89           |
| MEXICO                     | D F | ALAMO                    | VER   | 90   | 51   | 74  | 40  | 51  | 18    | 7     | 1        | 1     | 141   | 74  | 118  | 333   | 0.74%       | 83           |
| POZA RICA DE HIDALGO       | VER | MONTERREY                | N L   | 92   | 49   | 47  | 35  | 26  | 44    | 9     | 19       | 3     | 141   | 47  | 136  | 324   | 0.72%       | 81           |
| HEROICA PUEBLA DE ZARAGOZA | PUE | TAMPICO                  | TAMPS | 82   | 52   | 46  | 37  | 27  | 22    | 14    | 13       | 2     | 134   | 46  | 115  | 295   | 0.66%       | 74           |
| VERACRUZ                   | VER | TAMPICO                  | TAMPS | 74   | 14   | 162 | 11  |     | 10    | 1     | 2        |       | 88    | 162 | 24   | 274   | 0.61%       | 69           |
| POZA RICA DE HIDALGO       | VER | TANTOYUCA                | VER   | 126  | 57   | 28  | 21  | 7   | 3     | 6     | 2        |       | 183   | 28  | 39   | 250   | 0.56%       | 63           |
| POZA RICA DE HIDALGO       | VER | VERACRUZ                 | VER   | 132  | 60   | 10  | 14  | 9   | 9     | 2     | 4        |       | 192   | 10  | 38   | 240   | 0.54%       | 60           |
| PAPANTLA DE OLARTE         | VER | TIHUATLAN                | VER   | 115  | 74   | 12  | 19  | 7   | 2     | 4     | 2        |       | 189   | 12  | 34   | 235   | 0.53%       | 59           |
| PAPANTLA DE OLARTE         | VER | TUXPAM DE RODRIGUEZ CANO | VER   | 118  | 39   | 21  | 23  | 14  | 9     | 6     | 2        |       | 157   | 21  | 54   | 232   | 0.52%       | 58           |
| HEROICA PUEBLA DE ZARAGOZA | PUE | TUXPAM DE RODRIGUEZ CANO | VER   | 93   | 38   | 25  | 21  | 11  | 8     | 15    | 7        |       | 131   | 25  | 62   | 218   | 0.49%       | 55           |
| POZA RICA DE HIDALGO       | VER | ALTAMIRA                 | TAMPS | 70   | 23   | 20  | 30  | 26  | 22    | 17    | 4        |       | 93    | 20  | 99   | 212   | 0.47%       | 53           |
| HEROICA PUEBLA DE ZARAGOZA | PUE | TIHUATLAN                | VER   | 92   | 47   |     | 31  | 17  | 2     | 3     | 1        | 1     | 139   | 0   | 55   | 194   | 0.43%       | 49           |
| PAPANTLA DE OLARTE         | VER | ALAMO                    | VER   | 97   | 51   |     | 14  | 6   | 4     | 4     |          |       | 148   | 0   | 28   | 176   | 0.39%       | 44           |
| TOTOLAPA                   | VER | TIHUATLAN                | VER   | 88   | 60   | 4   | 12  | 3   | 3     | 1     |          |       | 148   | 4   | 19   | 171   | 0.38%       | 43           |
| POZA RICA DE HIDALGO       | VER | CHICONTEPEC DE TEJEDA    | VER   | 89   | 36   | 18  | 7   | 7   | 1     |       |          |       | 125   | 18  | 15   | 158   | 0.35%       | 40           |
| TULANCINGO                 | HGO | TUXPAM DE RODRIGUEZ CANO | VER   | 34   | 12   | 21  | 14  | 6   | 18    | 22    | 6        | 4     | 46    | 21  | 70   | 137   | 0.31%       | 34           |
| HEROICA PUEBLA DE ZARAGOZA | PUE | HEROICA MATAMOROS        | TAMPS | 85   | 24   |     | 4   |     | 10    | 2     | 6        |       | 109   | 0   | 22   | 131   | 0.29%       | 33           |
| VERACRUZ                   | VER | TIHUATLAN                | VER   | 64   | 18   | 10  | 19  | 8   | 4     | 1     | 3        |       | 82    | 10  | 35   | 127   | 0.28%       | 32           |
| VERACRUZ                   | VER | TUXPAM DE RODRIGUEZ CANO | VER   | 63   | 13   | 17  | 5   | 4   | 17    | 3     | 4        | 1     | 76    | 17  | 34   | 127   | 0.28%       | 32           |
| POZA RICA DE HIDALGO       | VER | TAMIAHUA                 | VER   | 68   | 26   | 12  | 3   | 2   | 6     | 1     | 1        |       | 94    | 12  | 13   | 119   | 0.27%       | 30           |
| MEXICO                     | D F | REYNOSA                  | TAMPS | 29   | 4    | 53  | 9   | 4   | 9     | 6     | 2        |       | 33    | 53  | 30   | 116   | 0.26%       | 29           |
| POZA RICA DE HIDALGO       | VER | BUENAVISTA               | VER   | 58   | 47   |     | 8   |     |       |       |          |       | 105   | 0   | 8    | 113   | 0.25%       | 28           |

11.- RUTAS AGRUPADAS POR CIUDAD DE ORIGEN

| RUTAS PRINCIPALES          |     |                          |       |      |      |     |     |     |       |       |          |       |       |     |      | TOTAL | % DEL TOTAL | PROM. DIARIO |
|----------------------------|-----|--------------------------|-------|------|------|-----|-----|-----|-------|-------|----------|-------|-------|-----|------|-------|-------------|--------------|
|                            |     |                          |       | A    | U    | B   | C2  | C3  | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B   | C    |       |             |              |
| DISTRITO FEDERAL           |     |                          |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| MEXICO                     | D F | TAMPICO                  | TAMPS | 283  | 174  | 499 | 159 | 139 | 243   | 109   | 62       | 9     | 457   | 499 | 721  | 1677  | 3.75%       | 419          |
| MEXICO                     | D F | TUXPAM DE RODRIGUEZ CANO | VER   | 324  | 119  | 192 | 110 | 58  | 74    | 118   | 24       | 2     | 443   | 192 | 386  | 1021  | 2.28%       | 255          |
| MEXICO                     | D F | ALTAMIRA                 | TAMPS | 18   | 12   | 30  | 42  | 37  | 134   | 68    | 26       | 5     | 30    | 30  | 312  | 372   | 0.83%       | 93           |
| MEXICO                     | D F | TIHUATLAN                | VER   | 157  | 105  | 14  | 38  | 16  | 12    | 5     | 6        | 4     | 262   | 14  | 81   | 357   | 0.80%       | 89           |
| MEXICO                     | D F | ALAMO                    | VER   | 90   | 51   | 74  | 40  | 51  | 18    | 7     | 1        | 1     | 141   | 74  | 118  | 333   | 0.74%       | 83           |
| MEXICO                     | D F | REYNOSA                  | TAMPS | 29   | 4    | 53  | 9   | 4   | 9     | 6     | 2        |       | 33    | 53  | 30   | 116   | 0.26%       | 29           |
| HIDALGO                    |     |                          |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| TULANCINGO                 | HGO | TUXPAM DE RODRIGUEZ CANO | VER   | 34   | 12   | 21  | 14  | 6   | 18    | 22    | 6        | 4     | 46    | 21  | 70   | 137   | 0.31%       | 34           |
| PUEBLA                     |     |                          |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| HEROICA PUEBLA DE ZARAGOZA | PUE | TAMPICO                  | TAMPS | 82   | 52   | 46  | 37  | 27  | 22    | 14    | 13       | 2     | 134   | 46  | 115  | 295   | 0.66%       | 74           |
| HEROICA PUEBLA DE ZARAGOZA | PUE | TUXPAM DE RODRIGUEZ CANO | VER   | 93   | 38   | 25  | 21  | 11  | 8     | 15    | 7        |       | 131   | 25  | 62   | 218   | 0.49%       | 55           |
| HEROICA PUEBLA DE ZARAGOZA | PUE | TIHUATLAN                | VER   | 92   | 47   |     | 31  | 17  | 2     | 3     | 1        | 1     | 139   | 0   | 55   | 194   | 0.43%       | 49           |
| HEROICA PUEBLA DE ZARAGOZA | PUE | HEROICA MATAMOROS        | TAMPS | 85   | 24   |     | 4   |     | 10    | 2     | 6        |       | 109   | 0   | 22   | 131   | 0.29%       | 33           |
| VERACRUZ                   |     |                          |       |      |      |     |     |     |       |       |          |       |       |     |      |       |             |              |
| PAPANTLA DE OLARTE         | VER | TIHUATLAN                | VER   | 115  | 74   | 12  | 19  | 7   | 2     | 4     | 2        |       | 189   | 12  | 34   | 235   | 0.53%       | 59           |
| PAPANTLA DE OLARTE         | VER | TUXPAM DE RODRIGUEZ CANO | VER   | 118  | 39   | 21  | 23  | 14  | 9     | 6     | 2        |       | 157   | 21  | 54   | 232   | 0.52%       | 58           |
| PAPANTLA DE OLARTE         | VER | ALAMO                    | VER   | 97   | 51   |     | 14  | 6   | 4     | 4     |          |       | 148   | 0   | 28   | 176   | 0.39%       | 44           |
| POZA RICA DE HIDALGO       | VER | TIHUATLAN                | VER   | 8002 | 3295 | 526 | 820 | 278 | 129   | 93    | 37       | 10    | 11297 | 526 | 1367 | 13190 | 29.50%      | 3298         |
| POZA RICA DE HIDALGO       | VER | TUXPAM DE RODRIGUEZ CANO | VER   | 4343 | 1554 | 878 | 568 | 272 | 155   | 74    | 48       | 9     | 5897  | 878 | 1126 | 7901  | 17.67%      | 1975         |
| POZA RICA DE HIDALGO       | VER | ALAMO                    | VER   | 2501 | 1007 | 282 | 345 | 126 | 91    | 49    | 18       | 12    | 3508  | 282 | 641  | 4431  | 9.91%       | 1108         |
| POZA RICA DE HIDALGO       | VER | TAMPICO                  | TAMPS | 877  | 465  | 519 | 223 | 86  | 95    | 42    | 36       | 7     | 1342  | 519 | 489  | 2350  | 5.26%       | 588          |
| POZA RICA DE HIDALGO       | VER | CASTILLO DE TEAYO        | VER   | 536  | 216  | 68  | 62  | 14  | 7     | 13    | 2        |       | 752   | 68  | 98   | 918   | 2.05%       | 230          |
| POZA RICA DE HIDALGO       | VER | NARANJOS                 | VER   | 309  | 203  | 65  | 60  | 22  | 11    | 6     | 2        |       | 512   | 65  | 101  | 678   | 1.52%       | 170          |
| POZA RICA DE HIDALGO       | VER | CERRO AZUL               | VER   | 379  | 142  | 7   | 23  | 15  | 3     | 6     | 1        |       | 521   | 7   | 48   | 576   | 1.29%       | 144          |
| POZA RICA DE HIDALGO       | VER | REYNOSA                  | TAMPS | 179  | 67   | 125 | 32  | 14  | 24    | 8     | 10       |       | 246   | 125 | 88   | 459   | 1.03%       | 115          |
| POZA RICA DE HIDALGO       | VER | MONTERREY                | N L   | 92   | 49   | 47  | 35  | 26  | 44    | 9     | 19       | 3     | 141   | 47  | 136  | 324   | 0.72%       | 81           |
| POZA RICA DE HIDALGO       | VER | TANTOYUCA                | VER   | 126  | 57   | 28  | 21  | 7   | 3     | 6     | 2        |       | 183   | 28  | 39   | 250   | 0.56%       | 63           |
| POZA RICA DE HIDALGO       | VER | VERACRUZ                 | VER   | 132  | 60   | 10  | 14  | 9   | 9     | 2     | 4        |       | 192   | 10  | 38   | 240   | 0.54%       | 60           |
| POZA RICA DE HIDALGO       | VER | ALTAMIRA                 | TAMPS | 70   | 23   | 20  | 30  | 26  | 22    | 17    | 4        |       | 93    | 20  | 99   | 212   | 0.47%       | 53           |
| POZA RICA DE HIDALGO       | VER | CHICONTEPEC DE TEJEDA    | VER   | 89   | 36   | 18  | 7   | 7   | 1     |       |          |       | 125   | 18  | 15   | 158   | 0.35%       | 40           |
| POZA RICA DE HIDALGO       | VER | TAMIAHUA                 | VER   | 68   | 26   | 12  | 3   | 2   | 6     | 1     | 1        |       | 94    | 12  | 13   | 119   | 0.27%       | 30           |
| POZA RICA DE HIDALGO       | VER | BUENAVISTA               | VER   | 58   | 47   |     | 8   |     |       |       |          |       | 105   | 0   | 8    | 113   | 0.25%       | 28           |
| TOTOLAPA                   | VER | TIHUATLAN                | VER   | 88   | 60   | 4   | 12  | 3   | 3     | 1     |          |       | 148   | 4   | 19   | 171   | 0.38%       | 43           |
| VERACRUZ                   | VER | TAMPICO                  | TAMPS | 74   | 14   | 162 | 11  |     | 10    | 1     | 2        |       | 88    | 162 | 24   | 274   | 0.61%       | 69           |
| VERACRUZ                   | VER | TIHUATLAN                | VER   | 64   | 18   | 10  | 19  | 8   | 4     | 1     | 3        |       | 82    | 10  | 35   | 127   | 0.28%       | 32           |
| VERACRUZ                   | VER | TUXPAM DE RODRIGUEZ CANO | VER   | 63   | 13   | 17  | 5   | 4   | 17    | 3     | 4        | 1     | 76    | 17  | 34   | 127   | 0.28%       | 32           |

**SCT**



SECRETARÍA DE  
COMUNICACIONES  
Y TRANSPORTES

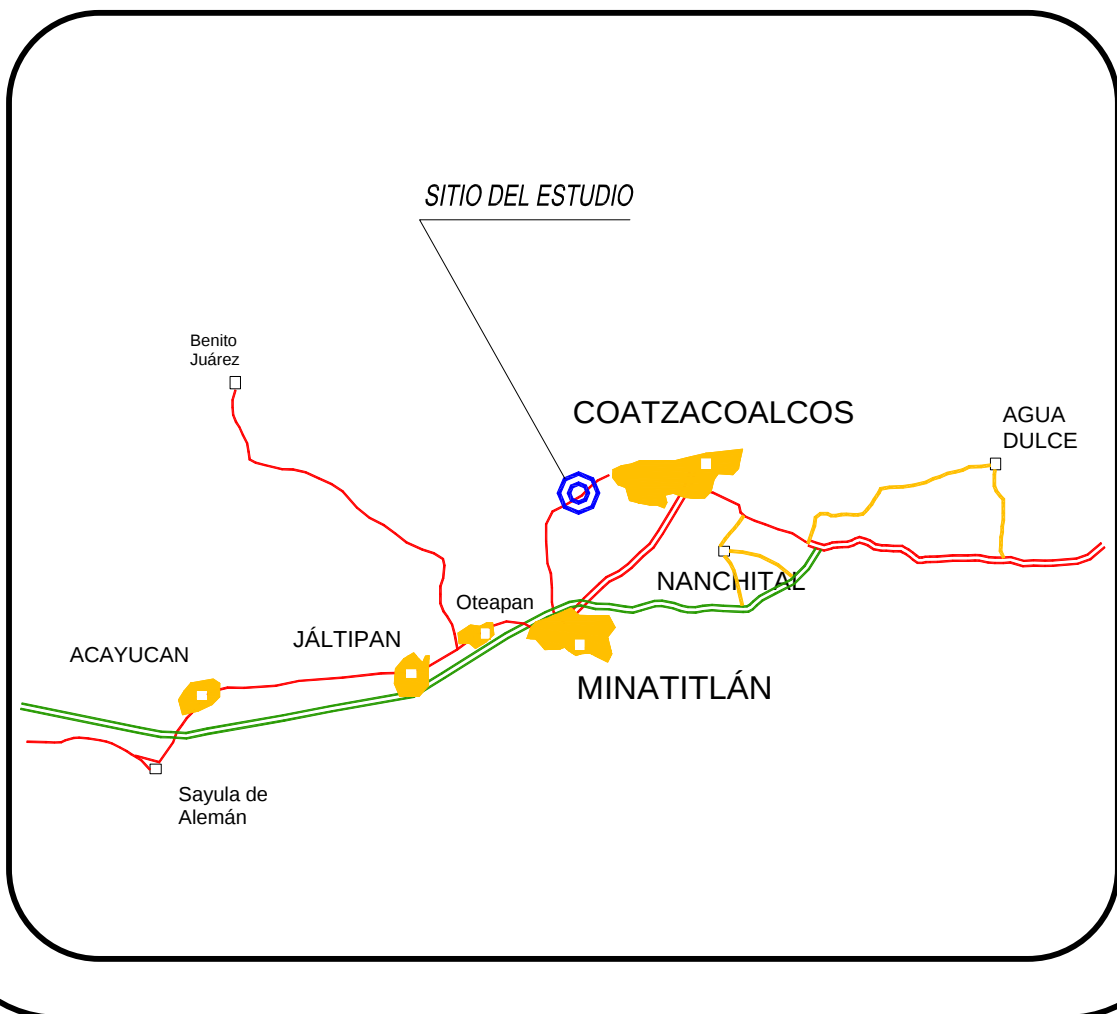
Subsecretaría de Infraestructura  
Dirección General de Servicios Técnicos

## ESTUDIO DE ORIGEN - DESTINO Y PESO

### ESTACIÓN "NUEVO VIVERO"

CARRETERA: **COATZACOALCOS – MINATITLÁN (VÍA CANTICA)**  
TRAMO: **COATZACOALCOS – T.C.(COATZACOALCOS-SALINA CRUZ)**  
Km: **13 + 000**  
REFERENCIA GEOGRÁFICA: **Lat = 18°07'26" N, Long = 94°32'39" W**  
ORIGEN: **COATZACOALCOS**

ESTUDIO EFECTUADO DEL 11 AL 14 DE SEPTIEMBRE DE 2007



## SINTESIS DEL ESTUDIO ORIGEN-DESTINO

### ESTACION "NUEVO VIVERO"

|            |                                               |                                           |                       |
|------------|-----------------------------------------------|-------------------------------------------|-----------------------|
| CARRETERA: | COATZACOALCOS - MINATITLAN (VIA CANTICA)      | LUGAR: KM 13+000                          | ORIGEN: COATZACOALCOS |
| TRAMO:     | COATZACOALCOS-T.C.(COATZACOALCOS-SALINA CRUZ) | FECHA: DEL 11 AL 14 DE SEPTIEMBRE DE 2007 |                       |

#### 1.- VOLUMENES DE TRANSITO

(Número de Vehículos)

|                      |       |  |                   |      |                      |      |                |
|----------------------|-------|--|-------------------|------|----------------------|------|----------------|
| HACIA: MINATITLAN    | 14261 |  | HACIA: MINATITLAN |      | HACIA: COATZACOALCOS |      | AMBOS SENTIDOS |
| HACIA: COATZACOALCOS | 14387 |  | PROMEDIO DIARIO   | 3565 |                      | 3597 | 7162           |
| TOTAL AFORADO        | 28648 |  | MAXIMO HORARIO    | 276  |                      | 302  | 576            |

| TRANSITO DIARIO | HACIA: MINATITLAN | MAXIMO HORARIO |      | HACIA: COATZACOALCOS | MAXIMO HORARIO |      | TOTAL |
|-----------------|-------------------|----------------|------|----------------------|----------------|------|-------|
|                 |                   | A.M.           | P.M. |                      | A.M.           | P.M. |       |
| LUNES           |                   |                |      |                      |                |      |       |
| MARTES          | 3584              | 244            | 257  | 3522                 | 228            | 233  | 7106  |
| MIÉRCOLES       | 3334              | 229            | 239  | 3376                 | 160            | 286  | 6710  |
| JUEVES          | 3600              | 248            | 266  | 3652                 | 220            | 264  | 7252  |
| VIERNES         | 3743              | 247            | 276  | 3837                 | 221            | 302  | 7580  |
| SÁBADO          |                   |                |      |                      |                |      |       |
| DOMINGO         |                   |                |      |                      |                |      |       |
| TOTAL           | 14261             |                |      | 14387                |                |      | 28648 |

#### 2.- CLASIFICACION VEHICULAR

(Número de Vehículos)

| TIPO DE VEHICULO | HACIA: MINATITLAN | HACIA: COATZACOALCOS | TOTAL | %    |
|------------------|-------------------|----------------------|-------|------|
| A                | 8793              | 9061                 | 17854 | 62%  |
| U                | 2920              | 2796                 | 5716  | 20%  |
| B                | 791               | 750                  | 1541  | 5%   |
| C2               | 970               | 999                  | 1969  | 7%   |
| C3               | 454               | 484                  | 938   | 3%   |
| T3-S2            | 161               | 149                  | 310   | 1%   |
| T3-S3            | 127               | 116                  | 243   | 1%   |
| T3-S2-R4         | 30                | 24                   | 54    | 0%   |
| OTROS            | 15                | 8                    | 23    | 0%   |
| TOTAL            | 14261             | 14387                | 28648 | 100% |

### 3.- PROMEDIO DE PASAJEROS POR VEHICULO Y POR SENTIDO

| TIPO DE VEHICULO | HACIA: MINATITLAN | HACIA: COATZACOALCOS | AMBOS SENTIDOS |
|------------------|-------------------|----------------------|----------------|
| AUTOMOVILES      | 1.88              | 1.91                 | 1.90           |
| AUTOBUSES        | 20.40             | 16.15                | 18.33          |

### 4.- PROMEDIO DE TRIPULANTES POR TIPO DE VEHICULO

(Número de Personas)

| TIPO DE VEHICULO | HACIA: MINATITLAN | HACIA: COATZACOALCOS | AMBOS SENTIDOS |
|------------------|-------------------|----------------------|----------------|
| U                | 2.01              | 2.02                 | 2.01           |
| B                | 1.53              | 1.48                 | 1.51           |
| C2               | 1.34              | 1.34                 | 1.34           |
| C3               | 1.27              | 1.25                 | 1.26           |
| T3-S2            | 1.17              | 1.33                 | 1.25           |
| T3-S3            | 1.20              | 1.23                 | 1.22           |
| T3-S2-R4         | 1.07              | 1.38                 | 1.22           |
| OTROS            | 1.13              | 1.25                 | 1.19           |

### 5.- MOTIVO DEL VIAJE DE LOS AUTOMOVILES

(Número de Vehículos)

| MOTIVO  | HACIA: MINATITLAN |     | HACIA: COATZACOALCOS |     | AMBOS SENTIDOS |     |
|---------|-------------------|-----|----------------------|-----|----------------|-----|
| TRABAJO | 6170              | 70% | 5277                 | 58% | 11447          | 64% |
| PASEO   | 2623              | 30% | 3784                 | 42% | 6407           | 36% |

### 6.- CAMIONES CON CARGA Y SIN CARGA POR SENTIDO

| TIPO DE VEHICULO | HACIA: MINATITLAN |           | HACIA: COATZACOALCOS |           | AMBOS SENTIDOS |           |
|------------------|-------------------|-----------|----------------------|-----------|----------------|-----------|
|                  | CON CARGA         | SIN CARGA | CON CARGA            | SIN CARGA | CON CARGA      | SIN CARGA |
| C2               | 409               | 561       | 367                  | 632       | 776            | 1193      |
| C3               | 243               | 211       | 234                  | 250       | 477            | 461       |
| T3-S2            | 107               | 54        | 52                   | 97        | 159            | 151       |
| T3-S3            | 86                | 41        | 39                   | 77        | 125            | 118       |
| T3-S2-R4         | 22                | 8         | 8                    | 16        | 30             | 24        |
| OTROS            | 9                 | 6         | 2                    | 6         | 11             | 12        |
| TOTAL            | 876               | 881       | 702                  | 1078      | 1578           | 1959      |

## 7.- TONELADAS TRANSPORTADAS POR TIPO DE PRODUCTO Y POR SENTIDO

SENTIDO: 1

HACIA: MINATITLAN

|                                                                | TONELADAS TRANSPORTADAS |        |             |        |             |        |             |        |             |       |             |      |             |        |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|-------|-------------|------|-------------|--------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |        | T3-S2       |        | T3-S3       |        | T3-S2-R4    |       | OTROS       |      | SUBTOTAL    |        |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)   | No. DE VEH. | (t)  | No. DE VEH. | (t)    |
| 1.- FORESTALES                                                 |                         |        | 1           | 5      |             |        |             |        | 1           | 10    |             |      | 2           | 15.0   |
| 2.- AGRICOLAS                                                  | 6                       | 16.8   | 9           | 47.6   | 5           | 53.7   | 1           | 9      | 2           | 32    |             |      | 23          | 159.1  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 13                      | 30.6   | 5           | 22.7   | 1           | 14.0   | 1           | 8.0    |             |       |             |      | 20          | 75.3   |
| 4.- MINERALES                                                  |                         |        | 1           | 9.8    | 1           | 6.0    |             |        |             |       |             |      | 2           | 15.8   |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 20                      | 33.5   | 7           | 57.0   | 3           | 37.9   | 2           | 66.5   | 2           | 55    |             |      | 34          | 249.9  |
| 6.- INORGANICOS                                                | 33                      | 180.7  | 92          | 791.1  | 28          | 477.9  | 36          | 660.8  | 5           | 124.7 | 4           | 39.9 | 198         | 2275.1 |
| 7.- INDUSTRIALES                                               | 320                     | 840.8  | 116         | 651.6  | 57          | 838.3  | 41          | 732.4  | 10          | 246.7 | 5           | 50.1 | 549         | 3359.9 |
| 8.- VARIOS                                                     | 17                      | 27.7   | 12          | 88.0   | 12          | 110.1  | 5           | 35.8   | 2           | 40.2  |             |      | 48          | 301.8  |
| TOTAL                                                          | 409                     | 1130.1 | 243         | 1672.8 | 107         | 1537.9 | 86          | 1512.5 | 22          | 508.6 | 9           | 90.0 | 876         | 6451.9 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 2.8                     |        | 6.9         |        | 14.4        |        | 17.6        |        | 23.1        |       | 10.0        |      | 7.4         |        |

SENTIDO: 2

HACIA: COATZACOALCOS

|                                                                | TONELADAS TRANSPORTADAS |        |             |        |             |       |             |       |             |       |             |      |             |        |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|-------|-------------|-------|-------------|-------|-------------|------|-------------|--------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |        | T3-S2       |       | T3-S3       |       | T3-S2-R4    |       | OTROS       |      | SUBTOTAL    |        |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)   | No. DE VEH. | (t)   | No. DE VEH. | (t)   | No. DE VEH. | (t)  | No. DE VEH. | (t)    |
| 1.- FORESTALES                                                 |                         |        | 2           | 3.1    |             |       |             |       |             |       |             |      | 2           | 3.1    |
| 2.- AGRICOLAS                                                  | 34                      | 79.4   | 8           | 32.5   | 4           | 63.7  | 1           | 11    |             |       |             |      | 47          | 186.6  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 7                       | 20.1   | 1           | 3.5    |             |       |             |       |             |       |             |      | 8           | 23.6   |
| 4.- MINERALES                                                  |                         |        |             |        |             |       |             |       |             |       |             |      | 0           | 0.0    |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 10                      | 32.2   | 3           | 28.0   |             |       | 2           | 64.0  |             |       |             |      | 15          | 124.2  |
| 6.- INORGANICOS                                                | 67                      | 437.9  | 136         | 1100.1 | 14          | 151.3 | 17          | 400.4 | 3           | 61    |             |      | 237         | 2150.7 |
| 7.- INDUSTRIALES                                               | 240                     | 845.5  | 80          | 572.0  | 31          | 492.8 | 17          | 255.1 | 4           | 72    | 2           | 21.9 | 374         | 2259.3 |
| 8.- VARIOS                                                     | 9                       | 53.8   | 4           | 34.2   | 3           | 41.0  | 2           | 13.1  | 1           | 15    |             |      | 19          | 157.1  |
| TOTAL                                                          | 367                     | 1468.9 | 234         | 1773.4 | 52          | 748.8 | 39          | 743.6 | 8           | 148.0 | 2           | 21.9 | 702         | 4904.6 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 4.0                     |        | 7.6         |        | 14.4        |       | 19.1        |       | 18.5        |       | 11.0        |      | 7.0         |        |

### AMBOS SENTIDOS

|                                                                | TONELADAS TRANSPORTADAS |        |             |        |             |        |             |        |             |       |             |       |             |         |
|----------------------------------------------------------------|-------------------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|-------|-------------|-------|-------------|---------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |        | T3-S2       |        | T3-S3       |        | T3-S2-R4    |       | OTROS       |       | SUBTOTAL    |         |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)    | No. DE VEH. | (t)   | No. DE VEH. | (t)   | No. DE VEH. | (t)     |
| 1.- FORESTALES                                                 | 0                       | 0.0    | 3           | 8.1    | 0           | 0.0    | 0           | 0.0    | 1           | 10.0  | 0           | 0.0   | 4           | 18.1    |
| 2.- AGRICOLAS                                                  | 40                      | 96.2   | 17          | 80.1   | 9           | 117.4  | 2           | 20.0   | 2           | 32.0  | 0           | 0.0   | 70          | 345.7   |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 20                      | 50.7   | 6           | 26.2   | 1           | 14.0   | 1           | 8.0    | 0           | 0.0   | 0           | 0.0   | 28          | 98.9    |
| 4.- MINERALES                                                  | 0                       | 0.0    | 1           | 9.8    | 1           | 6.0    | 0           | 0.0    | 0           | 0.0   | 0           | 0.0   | 2           | 15.8    |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 30                      | 65.7   | 10          | 85.0   | 3           | 37.9   | 4           | 130.5  | 2           | 55.0  | 0           | 0.0   | 49          | 374.1   |
| 6.- INORGANICOS                                                | 100                     | 618.6  | 228         | 1891.2 | 42          | 629.2  | 53          | 1061.2 | 8           | 185.7 | 4           | 39.9  | 435         | 4425.8  |
| 7.- INDUSTRIALES                                               | 560                     | 1686.3 | 196         | 1223.6 | 88          | 1331.1 | 58          | 987.5  | 14          | 318.7 | 7           | 72.0  | 923         | 5619.2  |
| 8.- VARIOS                                                     | 26                      | 81.5   | 16          | 122.2  | 15          | 151.1  | 7           | 48.9   | 3           | 55.2  | 0           | 0.0   | 67          | 458.9   |
| TOTAL                                                          | 776                     | 2599.0 | 477         | 3446.2 | 159         | 2286.7 | 125         | 2256.1 | 30          | 656.6 | 11          | 111.9 | 1578        | 11356.5 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.3                     |        | 7.2         |        | 14.4        |        | 18.0        |        | 21.9        |       | 10.2        |       | 7.2         |         |

# 8.- DISTRIBUCION DEL PESO PROMEDIO POR EJE Y POR TIPO DE VEHICULO DEL TOTAL DE CAMIONES REGISTRADOS

CARRETERA: COATZACOALCOS - MINATITLAN (VIA CANTICA)

KM: 13+000

EST: NUEVO VIVERO

| TIPO DE VEHICULO | TOTAL DE VEHICULOS | PESO BRUTO VEHICULAR PROM. (t) | PESO PROMEDIO POR EJE (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 1969               | 6.74                           | 2.55                      | 4.19 |      |      |      |      |      |      |      |
| C3               | 938                | 12.54                          | 3.54                      | 4.63 | 4.37 |      |      |      |      |      |      |
| T3-S2            | 310                | 23.52                          | 3.94                      | 5.30 | 5.21 | 4.48 | 4.59 |      |      |      |      |
| T3-S3            | 243                | 29.90                          | 4.21                      | 5.90 | 5.75 | 4.63 | 4.65 | 4.76 |      |      |      |
| T3-S2-R4         | 54                 | 41.28                          | 3.62                      | 5.13 | 5.19 | 4.63 | 4.57 | 4.64 | 4.31 | 4.54 | 4.65 |

# 9.- DISTRIBUCION DEL PESO PROMEDIO POR EJE Y POR TIPO DE VEHICULO DEL TOTAL DE VEHICULOS CARGADOS

CARRETERA: COATZACOALCOS - MINATITLAN (VIA CANTICA)

KM: 13+000

EST: NUEVO VIVERO

| TIPO DE VEHICULO | TOTAL DE VEHICULOS | PESO BRUTO VEHICULAR PROM. (t) | PESO PROMEDIO POR EJE (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 776                | 8.84                           | 3.23                      | 5.61 |      |      |      |      |      |      |      |
| C3               | 477                | 14.59                          | 3.88                      | 5.55 | 5.16 |      |      |      |      |      |      |
| T3-S2            | 159                | 29.88                          | 4.33                      | 6.73 | 6.68 | 6.01 | 6.13 |      |      |      |      |
| T3-S3            | 125                | 34.70                          | 4.26                      | 6.73 | 6.69 | 5.60 | 5.60 | 5.82 |      |      |      |
| T3-S2-R4         | 30                 | 49.15                          | 3.65                      | 6.04 | 6.09 | 5.59 | 5.69 | 5.56 | 5.25 | 5.51 | 5.77 |

**10.- VOLUMENES DE TRANSITO POR RUTA**

| RUTAS PRINCIPALES          |     |               |     |       |      |      |      |     |       |       |          |       |       |      |      |       | TOTAL  | % DEL TOTAL | PROM. DIARIO |
|----------------------------|-----|---------------|-----|-------|------|------|------|-----|-------|-------|----------|-------|-------|------|------|-------|--------|-------------|--------------|
|                            |     |               |     | A     | U    | B    | C2   | C3  | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B    | C    |       |        |             |              |
| MINATITLAN                 | VER | COATZACOALCOS | VER | 13318 | 4110 | 1312 | 1342 | 644 | 141   | 112   | 34       | 11    | 17428 | 1312 | 2284 | 21024 | 73.39% | 5256        |              |
| COSOLECAQUE                | VER | COATZACOALCOS | VER | 1209  | 358  | 132  | 138  | 47  | 14    | 18    |          |       | 1567  | 132  | 217  | 1916  | 6.69%  | 479         |              |
| ACAYUCAN                   | VER | COATZACOALCOS | VER | 956   | 340  | 40   | 122  | 59  | 25    | 26    |          | 4     | 1296  | 40   | 236  | 1572  | 5.49%  | 393         |              |
| CANTICA                    | VER | COATZACOALCOS | VER | 813   | 331  |      | 99   | 25  | 3     | 6     |          |       | 1144  | 0    | 133  | 1277  | 4.46%  | 319         |              |
| JALTIPAN DE MORELOS        | VER | COATZACOALCOS | VER | 398   | 120  |      | 38   | 9   | 8     | 3     |          |       | 518   | 0    | 58   | 576   | 2.01%  | 144         |              |
| VERACRUZ                   | VER | COATZACOALCOS | VER | 241   | 73   | 10   | 41   | 25  | 16    | 13    | 3        | 2     | 314   | 10   | 100  | 424   | 1.48%  | 106         |              |
| COSAMALOAPAN DE CARPIO     | VER | COATZACOALCOS | VER | 191   | 53   | 38   | 18   | 12  | 4     | 2     |          | 4     | 244   | 38   | 40   | 322   | 1.12%  | 81          |              |
| MEXICO                     | D F | COATZACOALCOS | VER | 70    | 23   |      | 64   | 35  | 25    | 21    | 12       |       | 93    | 0    | 157  | 250   | 0.87%  | 63          |              |
| CHINAMECA                  | VER | COATZACOALCOS | VER | 126   | 51   |      | 11   | 17  | 9     | 6     |          |       | 177   | 0    | 43   | 220   | 0.77%  | 55          |              |
| XALAPA ENRIQUEZ            | VER | COATZACOALCOS | VER | 79    | 28   |      | 13   | 5   | 3     | 1     |          |       | 107   | 0    | 22   | 129   | 0.45%  | 32          |              |
| HEROICA PUEBLA DE ZARAGOZA | PUE | COATZACOALCOS | VER | 39    | 5    |      | 15   | 19  | 3     | 2     |          |       | 44    | 0    | 39   | 83    | 0.29%  | 21          |              |
| SAYULA DE ALEMAN           | VER | COATZACOALCOS | VER | 19    | 14   |      | 4    | 3   | 8     | 3     | 1        |       | 33    | 0    | 19   | 52    | 0.18%  | 13          |              |
| NARANJOS                   | VER | COATZACOALCOS | VER | 31    | 10   |      |      | 1   |       |       |          |       | 41    | 0    | 1    | 42    | 0.15%  | 11          |              |
| CATEMACO                   | VER | COATZACOALCOS | VER | 27    | 9    |      | 2    |     | 1     |       |          |       | 36    | 0    | 3    | 39    | 0.14%  | 10          |              |
| CORDOBA                    | VER | COATZACOALCOS | VER | 22    | 6    |      | 3    | 5   | 2     |       | 1        |       | 28    | 0    | 11   | 39    | 0.14%  | 10          |              |
| OTEAPAN                    | VER | COATZACOALCOS | VER | 16    | 13   |      | 4    | 2   | 1     | 2     |          |       | 29    | 0    | 9    | 38    | 0.13%  | 10          |              |
| CUERNAVACA                 | MOR | COATZACOALCOS | VER | 2     |      |      | 2    | 4   | 12    | 13    | 1        |       | 2     | 0    | 32   | 34    | 0.12%  | 9           |              |
| ORIZABA                    | VER | COATZACOALCOS | VER | 20    | 7    |      |      | 3   | 3     | 1     |          |       | 27    | 0    | 7    | 34    | 0.12%  | 9           |              |
| OAXACA DE JUAREZ           | OAX | COATZACOALCOS | VER | 21    | 6    |      | 1    | 4   |       |       |          |       | 27    | 0    | 5    | 32    | 0.11%  | 8           |              |
| MINATITLAN                 | VER | VILLAHERMOSA  | TAB | 8     | 6    |      | 7    | 1   |       |       |          |       | 14    | 0    | 8    | 22    | 0.08%  | 6           |              |

11.- RUTAS AGRUPADAS POR CIUDAD DE ORIGEN

| RUTAS PRINCIPALES          |     |               |     |       |      |      |      |     |       |       |          |       |       |      | TOTAL | % DEL TOTAL | PROM. DIARIO |      |
|----------------------------|-----|---------------|-----|-------|------|------|------|-----|-------|-------|----------|-------|-------|------|-------|-------------|--------------|------|
|                            |     |               |     | A     | U    | B    | C2   | C3  | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B    |       |             |              | C    |
| DISTRITO FEDERAL           |     |               |     |       |      |      |      |     |       |       |          |       |       |      |       |             |              |      |
| MEXICO                     | D F | COATZACOALCOS | VER | 70    | 23   |      | 64   | 35  | 25    | 21    | 12       |       | 93    | 0    | 157   | 250         | 0.87%        | 63   |
| MORELOS                    |     |               |     |       |      |      |      |     |       |       |          |       |       |      |       |             |              |      |
| CUERNAVACA                 | MOR | COATZACOALCOS | VER | 2     |      |      | 2    | 4   | 12    | 13    | 1        |       | 2     | 0    | 32    | 34          | 0.12%        | 9    |
| OAXACA                     |     |               |     |       |      |      |      |     |       |       |          |       |       |      |       |             |              |      |
| OAXACA DE JUAREZ           | OAX | COATZACOALCOS | VER | 21    | 6    |      | 1    | 4   |       |       |          |       | 27    | 0    | 5     | 32          | 0.11%        | 8    |
| PUEBLA                     |     |               |     |       |      |      |      |     |       |       |          |       |       |      |       |             |              |      |
| HEROICA PUEBLA DE ZARAGOZA | PUE | COATZACOALCOS | VER | 39    | 5    |      | 15   | 19  | 3     | 2     |          |       | 44    | 0    | 39    | 83          | 0.29%        | 21   |
| VERACRUZ                   |     |               |     |       |      |      |      |     |       |       |          |       |       |      |       |             |              |      |
| ACAYUCAN                   | VER | COATZACOALCOS | VER | 956   | 340  | 40   | 122  | 59  | 25    | 26    |          | 4     | 1296  | 40   | 236   | 1572        | 5.49%        | 393  |
| CANTICA                    | VER | COATZACOALCOS | VER | 813   | 331  |      | 99   | 25  | 3     | 6     |          |       | 1144  | 0    | 133   | 1277        | 4.46%        | 319  |
| CATEMACO                   | VER | COATZACOALCOS | VER | 27    | 9    |      | 2    |     | 1     |       |          |       | 36    | 0    | 3     | 39          | 0.14%        | 10   |
| CHINAMECA                  | VER | COATZACOALCOS | VER | 126   | 51   |      | 11   | 17  | 9     | 6     |          |       | 177   | 0    | 43    | 220         | 0.77%        | 55   |
| CORDOBA                    | VER | COATZACOALCOS | VER | 22    | 6    |      | 3    | 5   | 2     |       | 1        |       | 28    | 0    | 11    | 39          | 0.14%        | 10   |
| COSAMALOAPAN DE CARPIO     | VER | COATZACOALCOS | VER | 191   | 53   | 38   | 18   | 12  | 4     | 2     |          | 4     | 244   | 38   | 40    | 322         | 1.12%        | 81   |
| COSOLECAQUE                | VER | COATZACOALCOS | VER | 1209  | 358  | 132  | 138  | 47  | 14    | 18    |          |       | 1567  | 132  | 217   | 1916        | 6.69%        | 479  |
| JALTIPAN DE MORELOS        | VER | COATZACOALCOS | VER | 398   | 120  |      | 38   | 9   | 8     | 3     |          |       | 518   | 0    | 58    | 576         | 2.01%        | 144  |
| MINATITLAN                 | VER | COATZACOALCOS | VER | 13318 | 4110 | 1312 | 1342 | 644 | 141   | 112   | 34       | 11    | 17428 | 1312 | 2284  | 21024       | 73.39%       | 5256 |
| MINATITLAN                 | VER | VILLAHERMOSA  | TAB | 8     | 6    |      | 7    | 1   |       |       |          |       | 14    | 0    | 8     | 22          | 0.08%        | 6    |
| NARANJOS                   | VER | COATZACOALCOS | VER | 31    | 10   |      |      | 1   |       |       |          |       | 41    | 0    | 1     | 42          | 0.15%        | 11   |
| ORIZABA                    | VER | COATZACOALCOS | VER | 20    | 7    |      |      | 3   | 3     | 1     |          |       | 27    | 0    | 7     | 34          | 0.12%        | 9    |
| OTEAPAN                    | VER | COATZACOALCOS | VER | 16    | 13   |      | 4    | 2   | 1     | 2     |          |       | 29    | 0    | 9     | 38          | 0.13%        | 10   |
| SAYULA DE ALEMAN           | VER | COATZACOALCOS | VER | 19    | 14   |      | 4    | 3   | 8     | 3     | 1        |       | 33    | 0    | 19    | 52          | 0.18%        | 13   |
| VERACRUZ                   | VER | COATZACOALCOS | VER | 241   | 73   | 10   | 41   | 25  | 16    | 13    | 3        | 2     | 314   | 10   | 100   | 424         | 1.48%        | 106  |
| XALAPA ENRIQUEZ            | VER | COATZACOALCOS | VER | 79    | 28   |      | 13   | 5   | 3     | 1     |          |       | 107   | 0    | 22    | 129         | 0.45%        | 32   |

**SCT**



SECRETARÍA DE  
COMUNICACIONES  
Y TRANSPORTES

Subsecretaría de Infraestructura  
Dirección General de Servicios Técnicos

## ESTUDIO DE ORIGEN – DESTINO Y PESO

### ESTACIÓN “CAÑITAS”

CARRETERA: **VILLAHERMOSA – ESCOPETAZO**

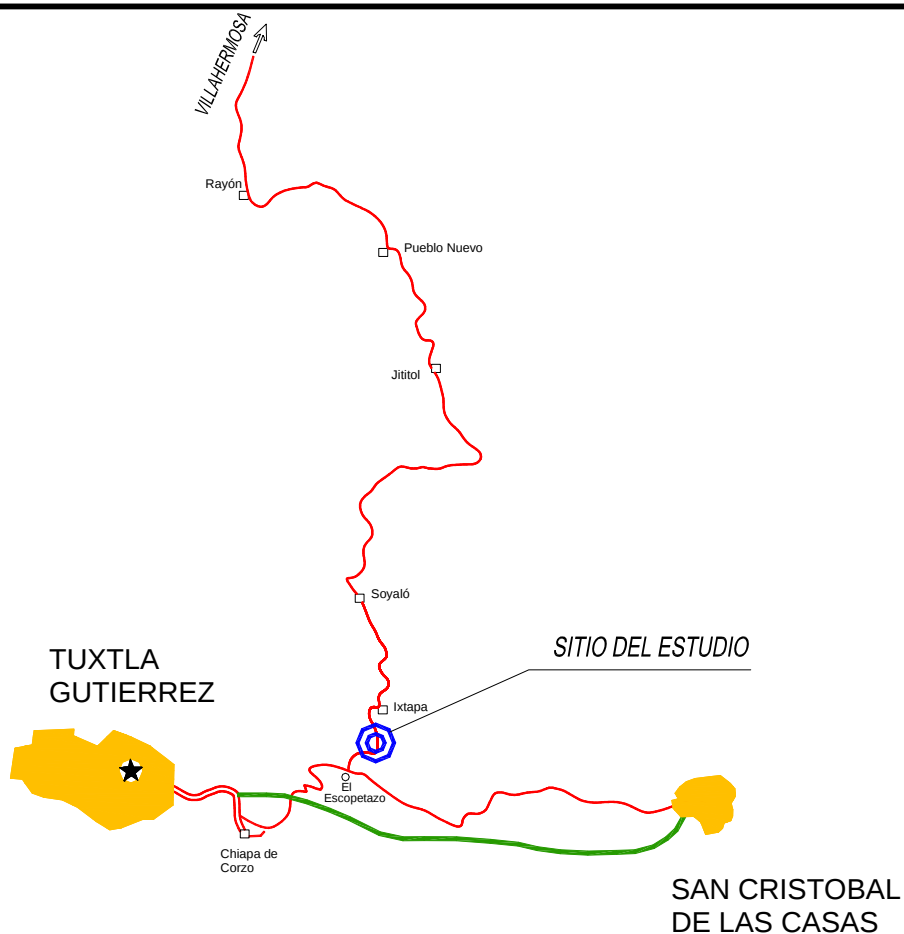
TRAMO: **BOCHIL – ESCOPETAZO**

Km: **247 + 000**

REFERENCIA GEOGRÁFICA: **Lat = 16°47'12" N, Long = 92°54'35" W**

ORIGEN: **VILLAHERMOSA**

ESTUDIO EFECTUADO DEL 18 AL 21 DE SEPTIEMBRE DE 2007



# SINTESIS DEL ESTUDIO ORIGEN-DESTINO

## ESTACION "CAÑITAS"

CARRETERA: **VILLAHERMOSA - ESCOPETAZO**

LUGAR: **KM 247+000**

ORIGEN: **VILLAHERMOSA**

TRAMO: **BOCHIL - ESCOPETAZO**

FECHA: **DEL 18 AL 21 DE SEPTIEMBRE DE 2007**

### 1.- VOLUMENES DE TRANSITO

(Número de Vehículos)

|               |                     |       |
|---------------|---------------------|-------|
| HACIA:        | <b>ESCOPETAZO</b>   | 5518  |
| HACIA:        | <b>VILLAHERMOSA</b> | 5442  |
| TOTAL AFORADO |                     | 10960 |

|                 |                          |                            |                       |
|-----------------|--------------------------|----------------------------|-----------------------|
|                 | HACIA: <b>ESCOPETAZO</b> | HACIA: <b>VILLAHERMOSA</b> | <b>AMBOS SENTIDOS</b> |
| PROMEDIO DIARIO | 1380                     | 1361                       | 2740                  |
| MAXIMO HORARIO  | 144                      | 200                        | 279                   |

| TRANSITO DIARIO | HACIA: <b>ESCOPETAZO</b> | MAXIMO HORARIO |      | HACIA: <b>VILLAHERMOSA</b> | MAXIMO HORARIO |      | TOTAL |
|-----------------|--------------------------|----------------|------|----------------------------|----------------|------|-------|
|                 |                          | A.M.           | P.M. |                            | A.M.           | P.M. |       |
| LUNES           |                          |                |      |                            |                |      |       |
| MARTES          | 1284                     | 89             | 95   | 1280                       | 113            | 92   | 2564  |
| MIÉRCOLES       | 1213                     | 83             | 96   | 1253                       | 111            | 92   | 2466  |
| JUEVES          | 1378                     | 99             | 116  | 1441                       | 200            | 90   | 2819  |
| VIERNES         | 1643                     | 110            | 144  | 1468                       | 131            | 101  | 3111  |
| SÁBADO          |                          |                |      |                            |                |      |       |
| DOMINGO         |                          |                |      |                            |                |      |       |
| TOTAL           | 5518                     |                |      | 5442                       |                |      | 10960 |

### 2.- CLASIFICACION VEHICULAR

(Número de Vehículos)

| TIPO DE VEHICULO | HACIA: <b>ESCOPETAZO</b> | HACIA: <b>VILLAHERMOSA</b> | TOTAL | %    |
|------------------|--------------------------|----------------------------|-------|------|
| A                | 3295                     | 3294                       | 6589  | 60%  |
| U                | 1569                     | 1505                       | 3074  | 28%  |
| B                | 87                       | 78                         | 165   | 2%   |
| C2               | 449                      | 460                        | 909   | 8%   |
| C3               | 73                       | 66                         | 139   | 1%   |
| T3-S2            | 25                       | 23                         | 48    | 0%   |
| T3-S3            | 14                       | 12                         | 26    | 0%   |
| T3-S2-R4         | 1                        | 4                          | 5     | 0%   |
| OTROS            | 5                        | 0                          | 5     | 0%   |
| TOTAL            | 5518                     | 5442                       | 10960 | 100% |

### 3.- PROMEDIO DE PASAJEROS POR VEHICULO Y POR SENTIDO

| TIPO DE VEHICULO | HACIA: ESCOPETAZO | HACIA: VILLAHERMOSA | AMBOS SENTIDOS |
|------------------|-------------------|---------------------|----------------|
| AUTOMOVILES      | 2.11              | 2.20                | 2.15           |
| AUTOBUSES        | 20.92             | 20.60               | 20.77          |

### 4.- PROMEDIO DE TRIPULANTES POR TIPO DE VEHICULO (Número de Personas)

| TIPO DE VEHICULO | HACIA: ESCOPETAZO | HACIA: VILLAHERMOSA | AMBOS SENTIDOS |
|------------------|-------------------|---------------------|----------------|
| U                | 2.04              | 2.28                | 2.16           |
| B                | 1.34              | 1.40                | 1.37           |
| C2               | 1.38              | 1.30                | 1.34           |
| C3               | 1.38              | 1.27                | 1.33           |
| T3-S2            | 1.20              | 1.22                | 1.21           |
| T3-S3            | 1.36              | 1.25                | 1.30           |
| T3-S2-R4         | 1.00              | 1.50                | 1.25           |
| OTROS            | 1.20              |                     | 1.20           |

### 5.- MOTIVO DEL VIAJE DE LOS AUTOMOVILES (Número de Vehículos)

| MOTIVO  | HACIA: ESCOPETAZO |     | HACIA: VILLAHERMOSA |     | AMBOS SENTIDOS |     |
|---------|-------------------|-----|---------------------|-----|----------------|-----|
| TRABAJO | 2884              | 88% | 2847                | 86% | 5731           | 87% |
| PASEO   | 411               | 12% | 447                 | 14% | 858            | 13% |

### 6.- CAMIONES CON CARGA Y SIN CARGA POR SENTIDO

| TIPO DE VEHICULO | HACIA: ESCOPETAZO |           | HACIA: VILLAHERMOSA |           | AMBOS SENTIDOS |           |
|------------------|-------------------|-----------|---------------------|-----------|----------------|-----------|
|                  | CON CARGA         | SIN CARGA | CON CARGA           | SIN CARGA | CON CARGA      | SIN CARGA |
| C2               | 135               | 314       | 291                 | 169       | 426            | 483       |
| C3               | 24                | 49        | 58                  | 8         | 82             | 57        |
| T3-S2            | 11                | 14        | 14                  | 9         | 25             | 23        |
| T3-S3            | 4                 | 10        | 7                   | 5         | 11             | 15        |
| T3-S2-R4         | 0                 | 1         | 2                   | 2         | 2              | 3         |
| OTROS            | 0                 | 5         | 0                   | 0         | 0              | 5         |
| TOTAL            | 174               | 393       | 372                 | 193       | 546            | 586       |

## 7.- TONELADAS TRANSPORTADAS POR TIPO DE PRODUCTO Y POR SENTIDO

SENTIDO: 1

HACIA: ESCOPETAZO

|                                                          | TONELADAS TRANSPORTADAS |       |             |       |             |       |             |       |             |     |             |     |             |       |
|----------------------------------------------------------|-------------------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-----|-------------|-----|-------------|-------|
| TIPO DE PRODUCTO                                         | C2                      |       | C3          |       | T3-S2       |       | T3-S3       |       | T3-S2-R4    |     | OTROS       |     | SUBTOTAL    |       |
|                                                          | No. DE VEH.             | (t)   | No. DE VEH. | (t)   | No. DE VEH. | (t)   | No. DE VEH. | (t)   | No. DE VEH. | (t) | No. DE VEH. | (t) | No. DE VEH. | (t)   |
| 1.- FORESTALES                                           | 1                       | 2.8   |             |       |             |       |             |       |             |     |             |     | 1           | 2.8   |
| 2.- AGRICOLAS                                            | 15                      | 53.1  |             |       |             |       | 1           | 25    |             |     |             |     | 16          | 78.1  |
| 3.- ANIMALES Y SUS DERIVADOS                             | 11                      | 29.3  |             |       |             |       |             |       |             |     |             |     | 11          | 29.3  |
| 4.- MINERALES                                            |                         |       |             |       |             |       |             |       |             |     |             |     | 0           | 0.0   |
| 5.- PETROLEO Y SUS DERIVADOS                             | 3                       | 9.6   | 4           | 28.6  | 1           | 12.0  |             |       |             |     |             |     | 8           | 50.2  |
| 6.- INORGANICOS                                          | 18                      | 75.6  | 2           | 11.1  |             |       |             |       |             |     |             |     | 20          | 86.7  |
| 7.- INDUSTRIALES                                         | 82                      | 298.2 | 15          | 79.6  | 9           | 181.0 | 3           | 105.0 |             |     |             |     | 109         | 663.8 |
| 8.- VARIOS                                               | 5                       | 36.6  | 3           | 11.2  | 1           | 40.0  |             |       |             |     |             |     | 9           | 87.8  |
| TOTAL                                                    | 135                     | 505.2 | 24          | 130.5 | 11          | 233.0 | 4           | 130.0 |             |     |             |     | 174         | 998.7 |
| PROMEDIO DE TONELADAS TRANSPORTADAS POR TIPO DE VEHICULO | 3.7                     |       | 5.4         |       | 21.2        |       | 32.5        |       |             |     |             |     | 5.7         |       |

SENTIDO: 2

HACIA: VILLAHERMOSA

|                                                                | TONELADAS TRANSPORTADAS |        |             |       |             |       |             |       |             |      |             |     |             |        |
|----------------------------------------------------------------|-------------------------|--------|-------------|-------|-------------|-------|-------------|-------|-------------|------|-------------|-----|-------------|--------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |       | T3-S2       |       | T3-S3       |       | T3-S2-R4    |      | OTROS       |     | SUBTOTAL    |        |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)   | No. DE VEH. | (t)   | No. DE VEH. | (t)   | No. DE VEH. | (t)  | No. DE VEH. | (t) | No. DE VEH. | (t)    |
| 1.- FORESTALES                                                 |                         |        |             |       |             |       |             |       |             |      |             |     | 0           | 0.0    |
| 2.- AGRICOLAS                                                  | 18                      | 53.1   | 4           | 13.1  |             |       |             |       | 1           | 20   |             |     | 23          | 86.2   |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 21                      | 67.0   | 2           | 6.6   |             |       |             |       |             |      |             |     | 23          | 73.6   |
| 4.- MINERALES                                                  | 1                       | 3.0    |             |       |             |       |             |       |             |      |             |     | 1           | 3.0    |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 6                       | 19.2   | 6           | 23.6  |             |       |             |       |             |      |             |     | 12          | 42.8   |
| 6.- INORGANICOS                                                | 127                     | 602.9  | 16          | 69.7  | 2           | 25.0  | 1           | 12.0  |             |      |             |     | 146         | 709.6  |
| 7.- INDUSTRIALES                                               | 113                     | 392.4  | 30          | 236.9 | 12          | 159.0 | 6           | 91.7  | 1           | 10   |             |     | 162         | 890.0  |
| 8.- VARIOS                                                     | 5                       | 12.0   |             |       |             |       |             |       |             |      |             |     | 5           | 12.0   |
| TOTAL                                                          | 291                     | 1149.6 | 58          | 349.9 | 14          | 184.0 | 7           | 103.7 | 2           | 30.0 |             |     | 372         | 1817.2 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 4.0                     |        | 6.0         |       | 13.1        |       | 14.8        |       | 15.0        |      |             |     | 4.9         |        |

### AMBOS SENTIDOS

|                                                                | TONELADAS TRANSPORTADAS |        |             |       |             |       |             |       |             |      |             |     |             |        |
|----------------------------------------------------------------|-------------------------|--------|-------------|-------|-------------|-------|-------------|-------|-------------|------|-------------|-----|-------------|--------|
| TIPO DE PRODUCTO                                               | C2                      |        | C3          |       | T3-S2       |       | T3-S3       |       | T3-S2-R4    |      | OTROS       |     | SUBTOTAL    |        |
|                                                                | No. DE VEH.             | (t)    | No. DE VEH. | (t)   | No. DE VEH. | (t)   | No. DE VEH. | (t)   | No. DE VEH. | (t)  | No. DE VEH. | (t) | No. DE VEH. | (t)    |
| 1.- FORESTALES                                                 | 1                       | 2.8    | 0           | 0.0   | 0           | 0.0   | 0           | 0.0   | 0           | 0.0  |             |     | 1           | 2.8    |
| 2.- AGRICOLAS                                                  | 33                      | 106.2  | 4           | 13.1  | 0           | 0.0   | 1           | 25.0  | 1           | 20.0 |             |     | 39          | 164.3  |
| 3.- ANIMALES Y SUS DERIVADOS                                   | 32                      | 96.3   | 2           | 6.6   | 0           | 0.0   | 0           | 0.0   | 0           | 0.0  |             |     | 34          | 102.9  |
| 4.- MINERALES                                                  | 1                       | 3.0    | 0           | 0.0   | 0           | 0.0   | 0           | 0.0   | 0           | 0.0  |             |     | 1           | 3.0    |
| 5.- PETROLEO Y SUS DERIVADOS                                   | 9                       | 28.8   | 10          | 52.2  | 1           | 12.0  | 0           | 0.0   | 0           | 0.0  |             |     | 20          | 93.0   |
| 6.- INORGANICOS                                                | 145                     | 678.5  | 18          | 80.8  | 2           | 25.0  | 1           | 12.0  | 0           | 0.0  |             |     | 166         | 796.3  |
| 7.- INDUSTRIALES                                               | 195                     | 690.6  | 45          | 316.5 | 21          | 340.0 | 9           | 196.7 | 1           | 10.0 |             |     | 271         | 1553.8 |
| 8.- VARIOS                                                     | 10                      | 48.6   | 3           | 11.2  | 1           | 40.0  | 0           | 0.0   | 0           | 0.0  |             |     | 14          | 99.8   |
| TOTAL                                                          | 426                     | 1654.8 | 82          | 480.4 | 25          | 417.0 | 11          | 233.7 | 2           | 30.0 |             |     | 546         | 2815.9 |
| PROMEDIO DE TONELADAS<br>TRANSPORTADAS POR TIPO DE<br>VEHICULO | 3.9                     |        | 5.9         |       | 16.7        |       | 21.2        |       | 15.0        |      |             |     | 5.2         |        |

# 8.- DISTRIBUCION DEL PESO PROMEDIO POR EJE Y POR TIPO DE VEHICULO DEL TOTAL DE CAMIONES REGISTRADOS

CARRETERA: VILLAHERMOSA - ESCOPETAZO

KM: 247+000

EST: CAÑITAS

| TIPO DE VEHICULO | TOTAL DE VEHICULOS | PESO BRUTO VEHICULAR PROM. (t) | PESO PROMEDIO POR EJE (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 909                | 7.40                           | 2.76                      | 4.64 |      |      |      |      |      |      |      |
| C3               | 139                | 12.20                          | 3.39                      | 4.43 | 4.38 |      |      |      |      |      |      |
| T3-S2            | 48                 | 24.91                          | 4.07                      | 5.71 | 5.32 | 4.83 | 4.98 |      |      |      |      |
| T3-S3            | 26                 | 30.35                          | 4.20                      | 5.95 | 5.98 | 4.87 | 4.53 | 4.82 |      |      |      |
| T3-S2-R4         | 5                  | 34.91                          | 3.58                      | 4.94 | 4.74 | 3.93 | 4.09 | 3.74 | 3.24 | 3.32 | 3.33 |

# 9.- DISTRIBUCION DEL PESO PROMEDIO POR EJE Y POR TIPO DE VEHICULO DEL TOTAL DE VEHICULOS CARGADOS

CARRETERA: VILLAHERMOSA - ESCOPETAZO

KM: 247+000

EST: CAÑITAS

| TIPO DE VEHICULO | TOTAL DE VEHICULOS | PESO BRUTO VEHICULAR PROM. (t) | PESO PROMEDIO POR EJE (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 426                | 9.42                           | 3.48                      | 5.94 |      |      |      |      |      |      |      |
| C3               | 82                 | 13.23                          | 3.45                      | 4.82 | 4.96 |      |      |      |      |      |      |
| T3-S2            | 25                 | 32.38                          | 4.59                      | 7.46 | 7.02 | 6.51 | 6.80 |      |      |      |      |
| T3-S3            | 11                 | 37.13                          | 4.25                      | 7.25 | 7.16 | 6.51 | 6.00 | 5.96 |      |      |      |
| T3-S2-R4         | 2                  | 39.75                          | 3.71                      | 6.09 | 5.83 | 5.00 | 5.67 | 3.93 | 3.17 | 3.31 | 3.04 |

10.- VOLUMENES DE TRANSITO POR RUTA

| RUTAS PRINCIPALES          |      |                            |      |      |      |    |     |    |       |       |          |       |       |    |     | TOTAL | % DEL TOTAL | PROM. DIARIO |
|----------------------------|------|----------------------------|------|------|------|----|-----|----|-------|-------|----------|-------|-------|----|-----|-------|-------------|--------------|
|                            |      |                            |      | A    | U    | B  | C2  | C3 | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B  | C   |       |             |              |
| IXTAPA                     | CHIS | TUXTLA GUTIERREZ           | CHIS | 2061 | 1063 | 13 | 183 | 23 | 3     | 4     | 3        | 1     | 3124  | 13 | 217 | 3354  | 30.60%      | 839          |
| BOCHIL                     | CHIS | TUXTLA GUTIERREZ           | CHIS | 1575 | 501  | 11 | 195 | 52 | 12    | 7     |          | 4     | 2076  | 11 | 270 | 2357  | 21.51%      | 589          |
| SOYALO                     | CHIS | TUXTLA GUTIERREZ           | CHIS | 882  | 269  | 2  | 84  | 6  | 5     | 6     |          |       | 1151  | 2  | 101 | 1254  | 11.44%      | 314          |
| SIMOJOVEL DE ALLENDE       | CHIS | TUXTLA GUTIERREZ           | CHIS | 238  | 205  | 24 | 46  | 12 | 3     | 2     |          |       | 443   | 24 | 63  | 530   | 4.84%       | 133          |
| IXHUATAN                   | CHIS | TUXTLA GUTIERREZ           | CHIS | 292  | 140  | 1  | 34  | 4  | 1     | 2     |          |       | 432   | 1  | 41  | 474   | 4.32%       | 119          |
| PICHUCALCO                 | CHIS | TUXTLA GUTIERREZ           | CHIS | 142  | 85   | 85 | 29  | 4  |       |       | 1        |       | 227   | 85 | 34  | 346   | 3.16%       | 87           |
| PUEBLO NUEVO SOLISTAHUACAN | CHIS | TUXTLA GUTIERREZ           | CHIS | 183  | 126  |    | 27  | 9  | 1     |       |          |       | 309   | 0  | 37  | 346   | 3.16%       | 87           |
| JITOTOL DE ZARAGOZA        | CHIS | TUXTLA GUTIERREZ           | CHIS | 190  | 70   |    | 19  | 5  |       |       | 1        |       | 260   | 0  | 25  | 285   | 2.60%       | 71           |
| IXTAPA                     | CHIS | CHIAPA DE CORZO            | CHIS | 150  | 105  |    | 16  | 1  |       |       |          |       | 255   | 0  | 17  | 272   | 2.48%       | 68           |
| IXTAPA                     | CHIS | SAN CRISTOBAL DE LAS CASAS | CHIS | 168  | 73   |    | 14  |    | 1     |       |          |       | 241   | 0  | 15  | 256   | 2.34%       | 64           |
| TAPILULA                   | CHIS | TUXTLA GUTIERREZ           | CHIS | 109  | 60   | 1  | 16  | 1  | 2     |       |          |       | 169   | 1  | 19  | 189   | 1.72%       | 47           |
| BOCHIL                     | CHIS | CHIAPA DE CORZO            | CHIS | 70   | 35   | 1  | 52  | 2  | 1     |       |          |       | 105   | 1  | 55  | 161   | 1.47%       | 40           |
| IXTAPA                     | CHIS | CIUDAD CUAUHEMOC           | CHIS | 57   | 38   |    | 6   |    |       |       |          |       | 95    | 0  | 6   | 101   | 0.92%       | 25           |

11.- RUTAS AGRUPADAS POR CIUDAD DE ORIGEN

| RUTAS PRINCIPALES          |      |                            |      |      |      |    |     |    |       |       |          |       |       |    |     | TOTAL | % DEL TOTAL | PROM. DIARIO |
|----------------------------|------|----------------------------|------|------|------|----|-----|----|-------|-------|----------|-------|-------|----|-----|-------|-------------|--------------|
|                            |      |                            |      | A    | U    | B  | C2  | C3 | T3-S2 | T3-S3 | T3-S2-R4 | OTROS | A + U | B  | C   |       |             |              |
| CHIAPAS                    |      |                            |      |      |      |    |     |    |       |       |          |       |       |    |     |       |             |              |
| BOCHIL                     | CHIS | TUXTLA GUTIERREZ           | CHIS | 1575 | 501  | 11 | 195 | 52 | 12    | 7     |          | 4     | 2076  | 11 | 270 | 2357  | 21.51%      | 589          |
| BOCHIL                     | CHIS | CHIAPA DE CORZO            | CHIS | 70   | 35   | 1  | 52  | 2  | 1     |       |          |       | 105   | 1  | 55  | 161   | 1.47%       | 40           |
| IXHUATAN                   | CHIS | TUXTLA GUTIERREZ           | CHIS | 292  | 140  | 1  | 34  | 4  | 1     | 2     |          |       | 432   | 1  | 41  | 474   | 4.32%       | 119          |
| IXTAPA                     | CHIS | TUXTLA GUTIERREZ           | CHIS | 2061 | 1063 | 13 | 183 | 23 | 3     | 4     | 3        | 1     | 3124  | 13 | 217 | 3354  | 30.60%      | 839          |
| IXTAPA                     | CHIS | CHIAPA DE CORZO            | CHIS | 150  | 105  |    | 16  | 1  |       |       |          |       | 255   | 0  | 17  | 272   | 2.48%       | 68           |
| IXTAPA                     | CHIS | SAN CRISTOBAL DE LAS CASAS | CHIS | 168  | 73   |    | 14  |    | 1     |       |          |       | 241   | 0  | 15  | 256   | 2.34%       | 64           |
| IXTAPA                     | CHIS | CIUDAD CUAUHEMOC           | CHIS | 57   | 38   |    | 6   |    |       |       |          |       | 95    | 0  | 6   | 101   | 0.92%       | 25           |
| JITOTOL DE ZARAGOZA        | CHIS | TUXTLA GUTIERREZ           | CHIS | 190  | 70   |    | 19  | 5  |       |       | 1        |       | 260   | 0  | 25  | 285   | 2.60%       | 71           |
| PICHUCALCO                 | CHIS | TUXTLA GUTIERREZ           | CHIS | 142  | 85   | 85 | 29  | 4  |       |       | 1        |       | 227   | 85 | 34  | 346   | 3.16%       | 87           |
| PUEBLO NUEVO SOLISTAHUACAN | CHIS | TUXTLA GUTIERREZ           | CHIS | 183  | 126  |    | 27  | 9  | 1     |       |          |       | 309   | 0  | 37  | 346   | 3.16%       | 87           |
| SIMOJOVEL DE ALLENDE       | CHIS | TUXTLA GUTIERREZ           | CHIS | 238  | 205  | 24 | 46  | 12 | 3     | 2     |          |       | 443   | 24 | 63  | 530   | 4.84%       | 133          |
| SOYALO                     | CHIS | TUXTLA GUTIERREZ           | CHIS | 882  | 269  | 2  | 84  | 6  | 5     | 6     |          |       | 1151  | 2  | 101 | 1254  | 11.44%      | 314          |
| TAPILULA                   | CHIS | TUXTLA GUTIERREZ           | CHIS | 109  | 60   | 1  | 16  | 1  | 2     |       |          |       | 169   | 1  | 19  | 189   | 1.72%       | 47           |