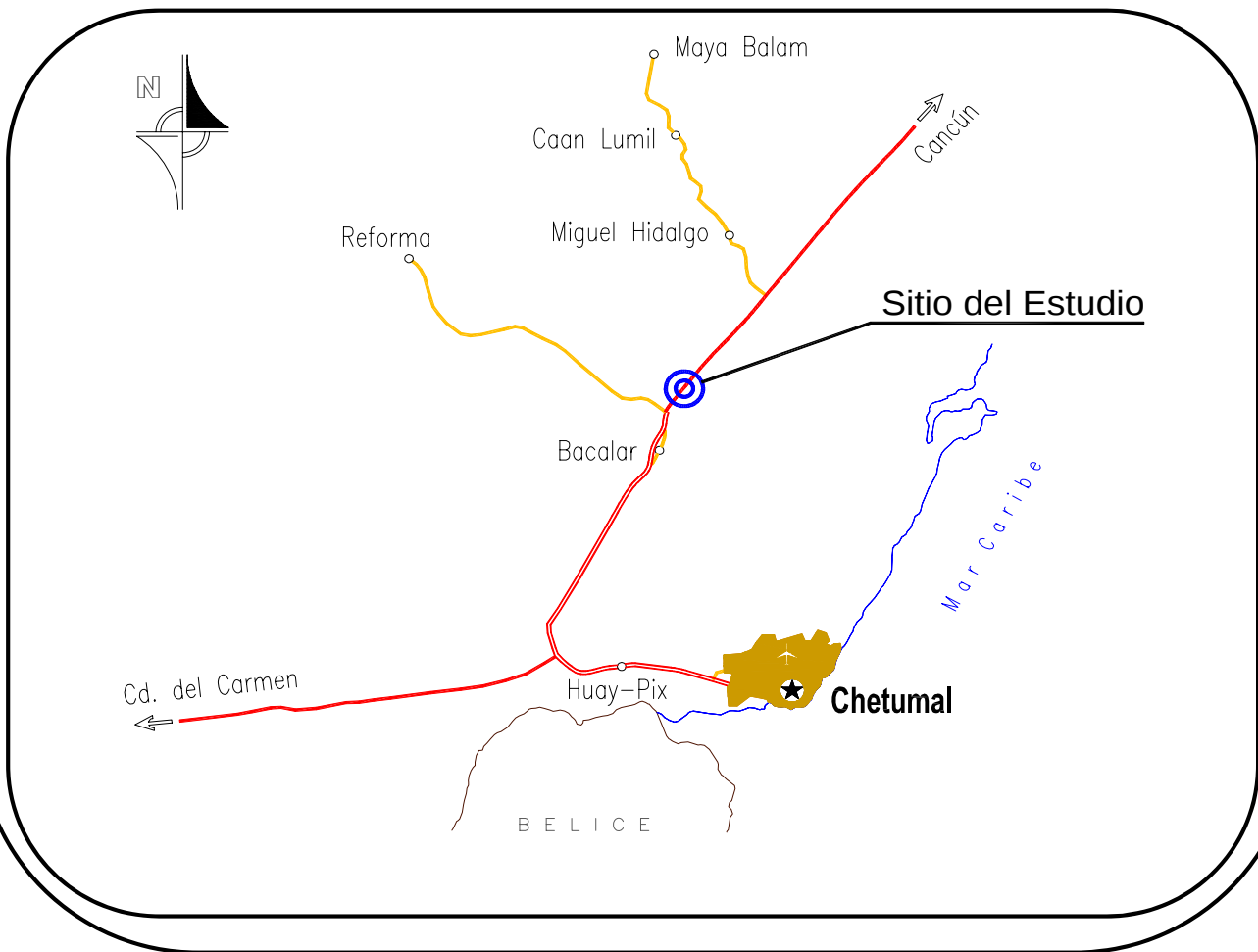


**Estudio de Origen - Destino y Peso**  
**Estación "Bacalar"**

Carretera: **Reforma Agraria - Puerto Juárez**  
 Tramo: **T. Izq. La Reforma - T. Izq. Lázaro Cárdenas**  
 Km: **25+500**  
 Origen: **Reforma Agraria**

| Referencia                         | Coordenadas Cartográficas "UTM" |             |      | Coordenadas Geográficas |             |
|------------------------------------|---------------------------------|-------------|------|-------------------------|-------------|
|                                    | Y                               | X           | Zona | Latitud                 | Longitud    |
| Inicio de Tramo                    | 2,068,594.447                   | 353,835.476 | 16Q  | 18.7035585              | -88.3861934 |
| Fin de Tramo                       | 2,095,323.324                   | 375,228.502 | 16Q  | 18.9464686              | -88.1850330 |
| Sitio de Encuesta                  | 2,070,928.349                   | 355,323.963 | 16Q  | 18.7247500              | -88.3722500 |
| Sitio Medición del Pesaje Dinámico | 2,071,325.739                   | 355,619.936 | 16Q  | 18.7283611              | -88.3694722 |

Estudio efectuado del 18 Al 21 de Octubre de 2011



## Síntesis del Estudio Origen-Destino

### Estación "Bacalar"

Carretera: Reforma Agraria - Puerto Juárez

Lugar: KM 25+500

Origen: Reforma Agraria

Tramo: T. Izq. La Reforma - T. Izq. Lázaro Cárdenas

Fecha: Estudio efectuado del 18 Al 21 de Octubre de 2011

#### 1.- Volúmenes de Tránsito

(Número de Vehículos)

|                        |        |
|------------------------|--------|
| Hacia: Puerto Juárez   | 8,705  |
| Hacia: Reforma Agraria | 8,389  |
| Total Aforado          | 17,094 |

|                 | Hacia: Puerto Juárez | Hacia: Reforma Agraria | Ambos Sentidos |
|-----------------|----------------------|------------------------|----------------|
| Promedio Diario | 2,176                | 2,097                  | 4,274          |
| Máximo Horario  | 203                  | 161                    | 360            |

| Transito Diario | Hacia: Puerto Juárez | Máximo Horario |      | Hacia: Reforma Agraria | Máximo Horario |      | Total  |
|-----------------|----------------------|----------------|------|------------------------|----------------|------|--------|
|                 |                      | A.M.           | P.M. |                        | A.M.           | P.M. |        |
| Lunes           |                      |                |      |                        |                |      |        |
| Martes          | 1,981                | 159            | 131  | 1,987                  | 128            | 140  | 3,968  |
| Miércoles       | 1,991                | 192            | 161  | 2,023                  | 136            | 161  | 4,014  |
| Jueves          | 2,151                | 173            | 151  | 2,034                  | 128            | 148  | 4,185  |
| Viernes         | 2,582                | 183            | 203  | 2,345                  | 141            | 158  | 4,927  |
| Sábado          |                      |                |      |                        |                |      |        |
| Domingo         |                      |                |      |                        |                |      |        |
| Total           | 8,705                |                |      | 8,389                  |                |      | 17,094 |

#### 2.- Clasificación Vehicular

(Número de Vehículos)

| Tipo de Vehículo | Hacia: Puerto Juárez | Hacia: Reforma Agraria | Total  | %      |
|------------------|----------------------|------------------------|--------|--------|
| A                | 4,556                | 4,334                  | 8,890  | 52.0%  |
| U                | 2,409                | 2,320                  | 4,729  | 27.7%  |
| B                | 401                  | 419                    | 820    | 4.8%   |
| C2               | 418                  | 446                    | 864    | 5.1%   |
| C3               | 224                  | 208                    | 432    | 2.5%   |
| T3-S2            | 351                  | 301                    | 652    | 3.8%   |
| T3-S3            | 79                   | 69                     | 148    | 0.9%   |
| T3-S2-R4         | 225                  | 245                    | 470    | 2.7%   |
| OTROS            | 42                   | 47                     | 89     | 0.5%   |
| Total            | 8,705                | 8,389                  | 17,094 | 100.0% |

### 3.- Promedio de Pasajeros por Vehículo y por Sentido

| Tipo de Vehículo | Hacia: Puerto Juárez | Hacia: Reforma Agraria | Ambos Sentidos |
|------------------|----------------------|------------------------|----------------|
| Automóviles      | 2.35                 | 2.41                   | 2.38           |
| Autobuses        | 21.55                | 19.73                  | 20.62          |

### 4.- Promedio de Tripulantes por Tipo de Vehículo (Número de Personas)

| Tipo de Vehículo | Hacia: Puerto Juárez | Hacia: Reforma Agraria | Ambos Sentidos |
|------------------|----------------------|------------------------|----------------|
| U                | 2.16                 | 2.16                   | 2.16           |
| B                | 1.31                 | 1.31                   | 1.31           |
| C2               | 1.52                 | 1.64                   | 1.58           |
| C3               | 1.41                 | 1.37                   | 1.39           |
| T3-S2            | 1.24                 | 1.25                   | 1.24           |
| T3-S3            | 1.33                 | 1.28                   | 1.30           |
| T3-S2-R4         | 1.20                 | 1.14                   | 1.17           |
| OTROS            | 1.29                 | 1.17                   | 1.23           |

### 5.- Motivo del Viaje de los Automóviles (Número de Vehículos)

| Motivo  | Hacia: Puerto Juárez |     | Hacia: Reforma Agraria |     | Ambos Sentidos |     |
|---------|----------------------|-----|------------------------|-----|----------------|-----|
| Trabajo | 3,234                | 71% | 3,022                  | 70% | 6,256          | 70% |
| Paseo   | 1,322                | 29% | 1,312                  | 30% | 2,634          | 30% |

### 6.- Camiones con Carga y sin Carga por Sentido

| Tipo de Vehículo | Hacia: Puerto Juárez |           | Hacia: Reforma Agraria |           | Ambos Sentidos |           |
|------------------|----------------------|-----------|------------------------|-----------|----------------|-----------|
|                  | Con Carga            | Sin Carga | Con Carga              | Sin Carga | Con Carga      | Sin Carga |
| C2               | 256                  | 162       | 196                    | 250       | 452            | 412       |
| C3               | 149                  | 75        | 113                    | 95        | 262            | 170       |
| T3-S2            | 306                  | 45        | 85                     | 216       | 391            | 261       |
| T3-S3            | 59                   | 20        | 40                     | 29        | 99             | 49        |
| T3-S2-R4         | 136                  | 89        | 120                    | 125       | 256            | 214       |
| Otros            | 29                   | 13        | 10                     | 37        | 39             | 50        |
| Total            | 935                  | 404       | 564                    | 752       | 1,499          | 1,156     |

## 7.- Toneladas Transportadas por Tipo de Producto y por Sentido

Sentido: **1**

Hacia: **Puerto Juárez**

| 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                                           | 5                       | 9.6            | 0           | 0.0            | 3           | 43.0           | 4           | 109.0          | 0           | 0.0            | 0           | 0.0          | 12          | 161.6           |
| 2.- Agrícolas                                            | 22                      | 72.7           | 10          | 107.9          | 91          | 1,541.1        | 9           | 223.4          | 2           | 35.0           | 2           | 32.0         | 136         | 2,012.1         |
| 3.- Animales y sus Derivados                             | 14                      | 48.0           | 3           | 44.0           | 18          | 302.1          | 0           | 0.0            | 0           | 0.0            | 0           | 0.0          | 35          | 394.1           |
| 4.- Minerales                                            | 2                       | 7.5            | 0           | 0.0            | 2           | 55.7           | 0           | 0.0            | 0           | 0.0            | 0           | 0.0          | 4           | 63.2            |
| 5.- Petróleo y sus Derivados                             | 3                       | 10.8           | 2           | 21.0           | 2           | 31.2           | 2           | 48.2           | 12          | 455.3          | 0           | 0.0          | 21          | 566.5           |
| 6.- Inorgánicos                                          | 3                       | 16.1           | 2           | 16.0           | 1           | 30.0           | 0           | 0.0            | 8           | 337.2          | 0           | 0.0          | 14          | 399.3           |
| 7.- Industriales                                         | 198                     | 830.1          | 124         | 1,022.8        | 170         | 2,878.8        | 43          | 1,104.2        | 105         | 4,282.3        | 27          | 503.2        | 667         | 10,621.4        |
| 8.- Varios                                               | 9                       | 35.1           | 8           | 38.0           | 19          | 274.4          | 1           | 9.0            | 9           | 336.2          | 0           | 0.0          | 46          | 692.7           |
| <b>Total</b>                                             | <b>256</b>              | <b>1,029.8</b> | <b>149</b>  | <b>1,249.7</b> | <b>306</b>  | <b>5,156.3</b> | <b>59</b>   | <b>1,493.8</b> | <b>136</b>  | <b>5,446.0</b> | <b>29</b>   | <b>535.2</b> | <b>935</b>  | <b>14,910.8</b> |
| Promedio de Toneladas Transportadas por Tipo de vehículo | 4.0                     |                | 8.4         |                | 16.9        |                | 25.3        |                | 40.0        |                | 18.5        |              | 15.9        |                 |

Sentido: **2**

Hacia: **Reforma Agraria**

| 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                                           | 1                       | 3.0          | 2           | 16.5           | 0           | 0.0            | 0           | 0.0            | 0           | 0.0            | 0           | 0.0          | 3           | 19.5           |
| 2.- Agrícolas                                            | 7                       | 22.9         | 2           | 7.0            | 13          | 248.7          | 0           | 0.0            | 0           | 0.0            | 0           | 0.0          | 22          | 278.6          |
| 3.- Animales y sus Derivados                             | 19                      | 74.0         | 14          | 172.1          | 14          | 282.5          | 0           | 0.0            | 5           | 115.4          | 0           | 0.0          | 52          | 644.0          |
| 4.- Minerales                                            | 0                       | 0.0          | 0           | 0.0            | 0           | 0.0            | 0           | 0.0            | 0           | 0.0            | 0           | 0.0          | 0           | 0.0            |
| 5.- Petróleo y sus Derivados                             | 2                       | 18.7         | 1           | 18.0           | 2           | 25.9           | 4           | 86.6           | 14          | 506.0          | 0           | 0.0          | 23          | 655.2          |
| 6.- Inorgánicos                                          | 0                       | 0.0          | 1           | 16.5           | 2           | 57.2           | 0           | 0.0            | 1           | 26.0           | 0           | 0.0          | 4           | 99.7           |
| 7.- Industriales                                         | 160                     | 605.8        | 90          | 824.7          | 50          | 867.1          | 36          | 1,040.0        | 99          | 4,404.1        | 10          | 142.1        | 445         | 7,883.8        |
| 8.- Varios                                               | 7                       | 21.8         | 3           | 36.4           | 4           | 46.4           | 0           | 0.0            | 1           | 10.0           | 0           | 0.0          | 15          | 114.6          |
| <b>Total</b>                                             | <b>196</b>              | <b>746.2</b> | <b>113</b>  | <b>1,091.2</b> | <b>85</b>   | <b>1,527.8</b> | <b>40</b>   | <b>1,126.6</b> | <b>120</b>  | <b>5,061.5</b> | <b>10</b>   | <b>142.1</b> | <b>564</b>  | <b>9,695.4</b> |
| Promedio de Toneladas Transportadas por Tipo de vehículo | 3.8                     |              | 9.7         |                | 18.0        |                | 28.2        |                | 42.2        |                | 14.2        |              | 17.2        |                |

### Ambos Sentidos

| 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                       | 12.6           | 2           | 16.5           | 3           | 43.0           | 4           | 109.0          | 0           | 0.0             | 0           | 0.0          | 15           | 181.1           |
| 2.- Agrícolas                                            | 29                      | 95.6           | 12          | 114.9          | 104         | 1,789.8        | 9           | 223.4          | 2           | 35.0            | 2           | 32.0         | 158          | 2,290.7         |
| 3.- Animales y sus Derivados                             | 33                      | 122.0          | 17          | 216.1          | 32          | 584.6          | 0           | 0.0            | 5           | 115.4           | 0           | 0.0          | 87           | 1,038.1         |
| 4.- Minerales                                            | 2                       | 7.5            | 0           | 0.0            | 2           | 55.7           | 0           | 0.0            | 0           | 0.0             | 0           | 0.0          | 4            | 63.2            |
| 5.- Petróleo y sus Derivados                             | 5                       | 29.5           | 3           | 39.0           | 4           | 57.1           | 6           | 134.8          | 26          | 961.3           | 0           | 0.0          | 44           | 1,221.7         |
| 6.- Inorgánicos                                          | 3                       | 16.1           | 3           | 32.5           | 3           | 87.2           | 0           | 0.0            | 9           | 363.2           | 0           | 0.0          | 18           | 499.0           |
| 7.- Industriales                                         | 358                     | 1,435.9        | 214         | 1,847.5        | 220         | 3,745.9        | 79          | 2,144.2        | 204         | 8,686.4         | 37          | 645.3        | 1,112        | 18,505.2        |
| 8.- Varios                                               | 16                      | 56.9           | 11          | 74.4           | 23          | 320.8          | 1           | 9.0            | 10          | 346.2           | 0           | 0.0          | 61           | 807.3           |
| <b>Total</b>                                             | <b>452</b>              | <b>1,776.0</b> | <b>262</b>  | <b>2,340.9</b> | <b>391</b>  | <b>6,684.1</b> | <b>99</b>   | <b>2,620.4</b> | <b>256</b>  | <b>10,507.5</b> | <b>39</b>   | <b>677.3</b> | <b>1,499</b> | <b>24,606.2</b> |
| Promedio de Toneladas Transportadas por Tipo de vehículo | 3.9                     |                | 8.9         |                | 17.1        |                | 26.5        |                | 41.0        |                 | 17.4        |              | 16.4         |                 |

### 8.- Distribución del Peso Promedio por Eje y por Tipo de Vehículo del Total de Camiones Registrados

Carretera: **Reforma Agraria - Puerto Juárez**

KM: **25+500**

Estación: **Bacalar**

| Tipo de Vehículo | Total de Vehículos | Peso Bruto Vehicular Prom. (t) | Peso Promedio por Eje (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 864                | 8.26                           | 3.01                      | 5.25 |      |      |      |      |      |      |      |
| C3               | 432                | 15.25                          | 3.90                      | 5.82 | 5.53 |      |      |      |      |      |      |
| T3-S2            | 652                | 29.29                          | 4.36                      | 6.56 | 6.42 | 5.90 | 6.05 |      |      |      |      |
| T3-S3            | 148                | 40.73                          | 4.50                      | 7.98 | 7.90 | 6.69 | 6.73 | 6.93 |      |      |      |
| T3-S2-R4         | 470                | 53.07                          | 3.85                      | 6.58 | 6.63 | 5.95 | 6.14 | 6.13 | 5.70 | 5.96 | 6.13 |

### 9.- Distribución del Peso Promedio por Eje y por Tipo de Vehículo del Total de Vehículos Cargados

Carretera: **Reforma Agraria - Puerto Juárez**

KM: **25+500**

Estación: **Bacalar**

| Tipo de Vehículo | Total de Vehículos | Peso Bruto Vehicular Prom. (t) | Peso Promedio por Eje (t) |      |      |      |      |      |      |      |      |
|------------------|--------------------|--------------------------------|---------------------------|------|------|------|------|------|------|------|------|
|                  |                    |                                | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| C2               | 452                | 10.17                          | 3.65                      | 6.52 |      |      |      |      |      |      |      |
| C3               | 262                | 18.50                          | 4.46                      | 7.19 | 6.85 |      |      |      |      |      |      |
| T3-S2            | 391                | 36.05                          | 4.75                      | 8.05 | 7.95 | 7.56 | 7.74 |      |      |      |      |
| T3-S3            | 99                 | 49.64                          | 4.81                      | 9.76 | 9.72 | 8.34 | 8.42 | 8.59 |      |      |      |
| T3-S2-R4         | 256                | 71.62                          | 4.07                      | 8.74 | 8.82 | 8.23 | 8.52 | 8.45 | 7.85 | 8.36 | 8.58 |

**10.- Volúmenes de Tránsito 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   |       |             |              |
| Chetumal                   | Q R  | Cancún                 | Q R | 1538 | 586 | 259 | 127 | 41  | 40    | 5     | 43       | 1     | 2124  | 259 | 257 | 2640  | 15.44%      | 660          |
| Chetumal                   | Q R  | Mérida                 | YUC | 1126 | 524 | 161 | 204 | 179 | 85    | 34    | 136      | 22    | 1650  | 161 | 660 | 2471  | 14.46%      | 618          |
| Chetumal                   | Q R  | Felipe Carrillo Puerto | Q R | 1345 | 645 | 25  | 92  | 6   | 5     | 2     | 7        | 1     | 1990  | 25  | 113 | 2128  | 12.45%      | 532          |
| Chetumal                   | Q R  | Pedro Antonio Santos   | Q R | 489  | 354 | 3   | 45  | 4   | 4     | 0     | 0        | 0     | 843   | 3   | 53  | 899   | 5.26%       | 225          |
| Chetumal                   | Q R  | Mahahual               | Q R | 498  | 323 | 24  | 33  | 1   | 2     | 3     | 0        | 0     | 821   | 24  | 39  | 884   | 5.17%       | 221          |
| Chetumal                   | Q R  | Playa del Carmen       | Q R | 570  | 222 | 3   | 31  | 4   | 5     | 2     | 6        | 0     | 792   | 3   | 48  | 843   | 4.93%       | 211          |
| Bacalar                    | Q R  | Pedro Antonio Santos   | Q R | 375  | 237 | 3   | 12  | 5   | 2     | 2     | 0        | 2     | 612   | 3   | 23  | 638   | 3.73%       | 160          |
| Bacalar                    | Q R  | Maya Balam             | Q R | 250  | 266 | 1   | 6   | 0   | 0     | 0     | 0        | 0     | 516   | 1   | 6   | 523   | 3.06%       | 131          |
| Chetumal                   | Q R  | Maya Balam             | Q R | 252  | 181 | 23  | 15  | 0   | 2     | 0     | 0        | 0     | 433   | 23  | 17  | 473   | 2.77%       | 118          |
| México                     | D F  | Cancún                 | Q R | 53   | 24  | 40  | 66  | 61  | 136   | 19    | 18       | 3     | 77    | 40  | 303 | 420   | 2.46%       | 105          |
| Bacalar                    | Q R  | Cancún                 | Q R | 229  | 117 | 4   | 2   | 2   | 12    | 4     | 3        | 3     | 346   | 4   | 26  | 376   | 2.20%       | 94           |
| Chetumal                   | Q R  | Tulum                  | Q R | 190  | 147 | 3   | 7   | 2   | 2     | 0     | 0        | 0     | 337   | 3   | 11  | 351   | 2.05%       | 88           |
| Villahermosa               | TAB  | Cancún                 | Q R | 49   | 18  | 26  | 30  | 6   | 111   | 5     | 71       | 3     | 67    | 26  | 226 | 319   | 1.87%       | 80           |
| Chetumal                   | Q R  | José María Morelos     | Q R | 168  | 114 | 7   | 10  | 4   | 0     | 0     | 0        | 0     | 282   | 7   | 14  | 303   | 1.77%       | 76           |
| Chetumal                   | Q R  | Puerto Morelos         | Q R | 155  | 84  | 2   | 11  | 1   | 1     | 1     | 0        | 0     | 239   | 2   | 14  | 255   | 1.49%       | 64           |
| Chetumal                   | Q R  | La Pantera             | Q R | 127  | 100 | 0   | 12  | 0   | 1     | 2     | 0        | 0     | 227   | 0   | 15  | 242   | 1.42%       | 61           |
| Bacalar                    | Q R  | Felipe Carrillo Puerto | Q R | 122  | 78  | 2   | 2   | 1   | 0     | 2     | 0        | 0     | 200   | 2   | 5   | 207   | 1.21%       | 52           |
| Bacalar                    | Q R  | Mahahual               | Q R | 115  | 49  | 3   | 4   | 0   | 0     | 0     | 0        | 0     | 164   | 3   | 4   | 171   | 1.00%       | 43           |
| Bacalar                    | Q R  | Mérida                 | YUC | 67   | 29  | 1   | 9   | 8   | 9     | 8     | 1        | 5     | 96    | 1   | 40  | 137   | 0.80%       | 34           |
| Bacalar                    | Q R  | La Pantera             | Q R | 66   | 46  | 0   | 6   | 0   | 0     | 0     | 0        | 0     | 112   | 0   | 6   | 118   | 0.69%       | 30           |
| Bacalar                    | Q R  | Nuevo Jerusalén        | Q R | 72   | 44  | 0   | 0   | 0   | 2     | 0     | 0        | 0     | 116   | 0   | 2   | 118   | 0.69%       | 30           |
| Bacalar                    | Q R  | Playa del Carmen       | Q R | 82   | 18  | 0   | 2   | 0   | 1     | 0     | 0        | 0     | 100   | 0   | 3   | 103   | 0.60%       | 26           |
| Chetumal                   | Q R  | Nuevo Jerusalén        | Q R | 68   | 16  | 0   | 0   | 0   | 0     | 0     | 0        | 3     | 84    | 0   | 3   | 87    | 0.51%       | 22           |
| Chetumal                   | Q R  | Chunhuhub              | Q R | 59   | 17  | 2   | 2   | 0   | 0     | 0     | 0        | 0     | 76    | 2   | 2   | 80    | 0.47%       | 20           |
| Chetumal                   | Q R  | Valladolid             | YUC | 50   | 16  | 2   | 2   | 2   | 1     | 1     | 3        | 0     | 66    | 2   | 9   | 77    | 0.45%       | 19           |
| Tuxtla Gutiérrez           | CHIS | Cancún                 | Q R | 16   | 5   | 36  | 3   | 0   | 1     | 0     | 8        | 2     | 21    | 36  | 14  | 71    | 0.42%       | 18           |
| Cárdenas                   | TAB  | Cancún                 | Q R | 4    | 0   | 62  | 0   | 0   | 2     | 0     | 0        | 0     | 4     | 62  | 2   | 68    | 0.40%       | 17           |
| Veracruz                   | VER  | Cancún                 | Q R | 19   | 2   | 4   | 6   | 7   | 7     | 7     | 11       | 5     | 21    | 4   | 43  | 68    | 0.40%       | 17           |
| Heroica Puebla de Zaragoza | PUE  | Cancún                 | Q R | 15   | 4   | 6   | 6   | 6   | 12    | 3     | 6        | 5     | 19    | 6   | 38  | 63    | 0.37%       | 16           |
| Villahermosa               | TAB  | Playa del Carmen       | Q R | 17   | 8   | 0   | 2   | 0   | 14    | 0     | 18       | 4     | 25    | 0   | 38  | 63    | 0.37%       | 16           |
| Bacalar                    | Q R  | Tulum                  | Q R | 38   | 15  | 2   | 2   | 0   | 1     | 0     | 0        | 0     | 53    | 2   | 3   | 58    | 0.34%       | 15           |
| Chetumal                   | Q R  | Cozumel                | Q R | 29   | 25  | 0   | 1   | 1   | 2     | 0     | 0        | 0     | 54    | 0   | 4   | 58    | 0.34%       | 15           |
| México                     | D F  | Playa del Carmen       | Q R | 14   | 12  | 0   | 2   | 10  | 7     | 2     | 4        | 3     | 26    | 0   | 28  | 54    | 0.32%       | 14           |
| Chetumal                   | Q R  | Tizimin                | YUC | 18   | 18  | 14  | 1   | 0   | 2     | 0     | 0        | 0     | 36    | 14  | 3   | 53    | 0.31%       | 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   |       |             |              |
| <b>Chiapas</b>                         |      |                        |     |      |     |     |     |     |       |       |          |       |       |     |     |       |             |              |
| Tuxtla Gutiérrez                       | CHIS | Cancún                 | Q R | 16   | 5   | 36  | 3   | 0   | 1     | 0     | 8        | 2     | 21    | 36  | 14  | 71    | 0.42%       | 18           |
| Distrito Federal                       |      |                        |     |      |     |     |     |     |       |       |          |       |       |     |     |       |             |              |
| México                                 | D F  | Cancún                 | Q R | 53   | 24  | 40  | 66  | 61  | 136   | 19    | 18       | 3     | 77    | 40  | 303 | 420   | 2.46%       | 105          |
| México                                 | D F  | Playa del Carmen       | Q R | 14   | 12  | 0   | 2   | 10  | 7     | 2     | 4        | 3     | 26    | 0   | 28  | 54    | 0.32%       | 14           |
| Puebla                                 |      |                        |     |      |     |     |     |     |       |       |          |       |       |     |     |       |             |              |
| Heroica Puebla de Zaragoza             | PUE  | Cancún                 | Q R | 15   | 4   | 6   | 6   | 6   | 12    | 3     | 6        | 5     | 19    | 6   | 38  | 63    | 0.37%       | 16           |
| <b>Quintana Roo</b>                    |      |                        |     |      |     |     |     |     |       |       |          |       |       |     |     |       |             |              |
| Bacalar                                | Q R  | Pedro Antonio Santos   | Q R | 375  | 237 | 3   | 12  | 5   | 2     | 2     | 0        | 2     | 612   | 3   | 23  | 638   | 3.73%       | 160          |
| Bacalar                                | Q R  | Maya Balam             | Q R | 250  | 266 | 1   | 6   | 0   | 0     | 0     | 0        | 0     | 516   | 1   | 6   | 523   | 3.06%       | 131          |
| Bacalar                                | Q R  | Cancún                 | Q R | 229  | 117 | 4   | 2   | 2   | 12    | 4     | 3        | 3     | 346   | 4   | 26  | 376   | 2.20%       | 94           |
| Bacalar                                | Q R  | Felipe Carrillo Puerto | Q R | 122  | 78  | 2   | 2   | 1   | 0     | 2     | 0        | 0     | 200   | 2   | 5   | 207   | 1.21%       | 52           |
| Bacalar                                | Q R  | Mahahual               | Q R | 115  | 49  | 3   | 4   | 0   | 0     | 0     | 0        | 0     | 164   | 3   | 4   | 171   | 1.00%       | 43           |
| Bacalar                                | Q R  | Mérida                 | YUC | 67   | 29  | 1   | 9   | 8   | 9     | 8     | 1        | 5     | 96    | 1   | 40  | 137   | 0.80%       | 34           |
| Bacalar                                | Q R  | La Pantera             | Q R | 66   | 46  | 0   | 6   | 0   | 0     | 0     | 0        | 0     | 112   | 0   | 6   | 118   | 0.69%       | 30           |
| Bacalar                                | Q R  | Nuevo Jerusalén        | Q R | 72   | 44  | 0   | 0   | 0   | 2     | 0     | 0        | 0     | 116   | 0   | 2   | 118   | 0.69%       | 30           |
| Bacalar                                | Q R  | Playa del Carmen       | Q R | 82   | 18  | 0   | 2   | 0   | 1     | 0     | 0        | 0     | 100   | 0   | 3   | 103   | 0.60%       | 26           |
| Bacalar                                | Q R  | Tulum                  | Q R | 38   | 15  | 2   | 2   | 0   | 1     | 0     | 0        | 0     | 53    | 2   | 3   | 58    | 0.34%       | 15           |
| Chetumal                               | Q R  | Cancún                 | Q R | 1538 | 586 | 259 | 127 | 41  | 40    | 5     | 43       | 1     | 2124  | 259 | 257 | 2640  | 15.44%      | 660          |
| Chetumal                               | Q R  | Mérida                 | YUC | 1126 | 524 | 161 | 204 | 179 | 85    | 34    | 136      | 22    | 1650  | 161 | 660 | 2471  | 14.46%      | 618          |
| Chetumal                               | Q R  | Felipe Carrillo Puerto | Q R | 1345 | 645 | 25  | 92  | 6   | 5     | 2     | 7        | 1     | 1990  | 25  | 113 | 2128  | 12.45%      | 532          |
| Chetumal                               | Q R  | Pedro Antonio Santos   | Q R | 489  | 354 | 3   | 45  | 4   | 4     | 0     | 0        | 0     | 843   | 3   | 53  | 899   | 5.26%       | 225          |
| Chetumal                               | Q R  | Mahahual               | Q R | 498  | 323 | 24  | 33  | 1   | 2     | 3     | 0        | 0     | 821   | 24  | 39  | 884   | 5.17%       | 221          |
| Chetumal                               | Q R  | Playa del Carmen       | Q R | 570  | 222 | 3   | 31  | 4   | 5     | 2     | 6        | 0     | 792   | 3   | 48  | 843   | 4.93%       | 211          |
| Chetumal                               | Q R  | Maya Balam             | Q R | 252  | 181 | 23  | 15  | 0   | 2     | 0     | 0        | 0     | 433   | 23  | 17  | 473   | 2.77%       | 118          |
| Chetumal                               | Q R  | Tulum                  | Q R | 190  | 147 | 3   | 7   | 2   | 2     | 0     | 0        | 0     | 337   | 3   | 11  | 351   | 2.05%       | 88           |
| Chetumal                               | Q R  | José María Morelos     | Q R | 168  | 114 | 7   | 10  | 4   | 0     | 0     | 0        | 0     | 282   | 7   | 14  | 303   | 1.77%       | 76           |
| Chetumal                               | Q R  | Puerto Morelos         | Q R | 155  | 84  | 2   | 11  | 1   | 1     | 1     | 0        | 0     | 239   | 2   | 14  | 255   | 1.49%       | 64           |
| Chetumal                               | Q R  | La Pantera             | Q R | 127  | 100 | 0   | 12  | 0   | 1     | 2     | 0        | 0     | 227   | 0   | 15  | 242   | 1.42%       | 61           |
| Chetumal                               | Q R  | Nuevo Jerusalén        | Q R | 68   | 16  | 0   | 0   | 0   | 0     | 0     | 0        | 3     | 84    | 0   | 3   | 87    | 0.51%       | 22           |
| Chetumal                               | Q R  | Chunhuhub              | Q R | 59   | 17  | 2   | 2   | 0   | 0     | 0     | 0        | 0     | 76    | 2   | 2   | 80    | 0.47%       | 20           |
| Chetumal                               | Q R  | Valladolid             | YUC | 50   | 16  | 2   | 2   | 2   | 1     | 1     | 3        | 0     | 66    | 2   | 9   | 77    | 0.45%       | 19           |
| Chetumal                               | Q R  | Cozumel                | Q R | 29   | 25  | 0   | 1   | 1   | 2     | 0     | 0        | 0     | 54    | 0   | 4   | 58    | 0.34%       | 15           |
| Chetumal                               | Q R  | Tizimin                | YUC | 18   | 18  | 14  | 1   | 0   | 2     | 0     | 0        | 0     | 36    | 14  | 3   | 53    | 0.31%       | 13           |
| <b>Tabasco</b>                         |      |                        |     |      |     |     |     |     |       |       |          |       |       |     |     |       |             |              |
| Cárdenas                               | TAB  | Cancún                 | Q R | 4    | 0   | 62  | 0   | 0   | 2     | 0     | 0        | 0     | 4     | 62  | 2   | 68    | 0.40%       | 17           |
| Villahermosa                           | TAB  | Cancún                 | Q R | 49   | 18  | 26  | 30  | 6   | 111   | 5     | 71       | 3     | 67    | 26  | 226 | 319   | 1.87%       | 80           |
| Villahermosa                           | TAB  | Playa del Carmen       | Q R | 17   | 8   | 0   | 2   | 0   | 14    | 0     | 18       | 4     | 25    | 0   | 38  | 63    | 0.37%       | 16           |
| <b>Veracruz de Ignacio de la Llave</b> |      |                        |     |      |     |     |     |     |       |       |          |       |       |     |     |       |             |              |
| Veracruz                               | VER  | Cancún                 | Q R | 19   | 2   | 4   | 6   | 7   | 7     | 7     | 11       | 5     | 21    | 4   | 43  | 68    | 0.40%       | 17           |