**Table A1**. Long-distance trip generation model estimation result

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attributes** | **Private** | | | | **Business** | | | | **Leisure** | | | |
| **No long-distance  trip** | **Daytrip** | **Overnight trip** | **Being away** | **No long-distance  trip** | **Daytrip** | **Overnight trip** | **Being away** | **No long-distance  trip** | **Daytrip** | **Overnight trip** | **Being away** |
| Alternative specific constant (ASC) | 0.00 | -6.20\*\*\* | -5.04\*\*\* | -9.14\*\*\* | 0.00 | -10.27\*\*\* | -19.65\*\*\* | -10.30\*\* | 0.00 | -5.57\*\*\* | -8.25\*\*\* | -5.16\*\*\* |
| Has 1 or more auto | 0.00 | 0.39\*\*\* | -0.18\*\* | - | 0.00 | 0.53\*\*\* | - | - | 0.00 | 0.38\*\*\* | - | 0.19\*\*\* |
| Is Medium HH Economic Status | 0.00 | 0.21\*\*\* | 0.21\*\*\* | 1.05\*\*\* | 0.00 | - | - | - | 0.00 | 0.31\*\*\* | 0.70\*\*\* | 0.20\*\*\* |
| Is High or Very High HH Economic status | 0.00 | 0.29\*\*\* | 0.33\*\*\* | 1.60\*\*\* | 0.00 | 0.25\*\*\* | - | 0.54\*\*\* | 0.00 | 0.42\*\*\* | 0.86\*\*\* | 0.50\*\* |
| Is between 18-60 years old | 0.00 | 0.68\*\*\* | 0.27\*\*\* | - | 0.00 | 2.06\*\*\* | 9.20\*\*\* | 2.12\*\* | 0.00 | 0.34\*\* | 0.96\*\*\* | 0.36\*\*\* |
| Is Over 60 years old | 0.00 | 0.82\*\*\* | 0.25\*\*\* | 0.76\*\*\* | 0.00 | 1.94\*\* | 8.57\*\* | 1.94\*\*\* | 0.00 | 0.59\*\*\* | 1.06\*\*\* | 0.43\*\*\* |
| Is Male | 0.00 | 0.10\*\*\* | - | - | 0.00 | 1.53\*\*\* | 1.90\*\*\* | 1.28\*\*\* | 0.00 | 0.14\*\* | - | 0.15\*\* |
| Is Holiday | 0.00 | 0.16\* | 0.98\*\*\* | - | 0.00 | -1.28\*\*\* | - | -0.96\*\*\* | 0.00 | 1.41\*\*\* | 1.40\*\*\* | 1.05\*\*\*\* |
| Is Employed | 0.00 | -0.28\*\*\* | -0.16\*\*\* | - | 0.00 | 2.83\*\*\* | 1.88\*\* | 2.20\* | 0.00 | -0.19\*\*\* | - | - |
| Is Student | 0.00 | -0.30\*\*\* | - | - | 0.00 | - | - | - | 0.00 | - | 0.57\*\*\* | 0.27\*\* |
| Is Area Type: Mid-sized City | 0.00 | 0.11\*\* | - | - | 0.00 | 0.12\* | - | - | 0.00 | - | - | -0.10\*\* |
| Is Area Type: rural | 0.00 | 0.21\* | -0.19\*\*\* | - | 0.00 | 0.16\*\*\* | - | - | 0.00 | - | - | - |
| Calibration factor | 0.00 | 0.92 | 2.96 | -2.41 | 0.00 | 0.67 | 2.24 | -1.72 | 0.00 | 0.24 | 2.09 | -2.14 |

Note: values in the table represent the estimated coefficients and the level of significance is marked by \* (p-value < 0.10), \*\* (p-value< 0.05) and \*\*\* (p-value< 0.01).

**Table A2**. Long-distance destination choice model estimation result

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Attributes** | **Daytrip** | | | **Overnight trip** | | |
| **Private** | **Business** | **Leisure** | **Private** | **Business** | **Leisure** |
| log10(distance) | -4.16\*\*\* | -5.10\*\*\* | -4.59\*\*\* | -3.68\*\*\* | -3.16\*\*\* | -3.48\*\*\* |
| Population+Employment | 6.87\*\*\* | 8.01\*\*\* | 6.99\*\*\* | 6.92\*\* | 8.12\*\*\* | 6.52\*\* |
| Number of hotels | 2.94\*\* | 4.43\*\*\* | 3.84\*\*\* | 3.42\*\* | 5.80\*\*\* | 4.60\*\*\* |
| Calibration factor | 1.01 | 0.95 | 1.06 | 1.01 | 1.06 | 1.05 |

Note: values in the table represent the estimated coefficients and the level of significance is marked by \* (p-value < 0.10), \*\* (p-value< 0.05) and \*\*\* (p-value< 0.01).

**Table A3**. Mode choice coefficients for day trips

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Private | | | | Business | | | | Leisure | | | |
| Variable | **Auto** | **Air** | **Bus** | **Rail** | **Auto** | **Air** | **Bus** | **Rail** | **Auto** | **Air** | **Bus** | **Rail** |
| Alternative specific constant (ASC) | 0 | -4.0077\*\* | -2.60126\* | -0.52663 | 0 | -5.252777\*\* | -1.09477 | 0.95953. | 0 | -6.81000\*\* | -2.27720\*\*\* | -1.25398\*\* |
| Is Male | 0 | 0 | 0 | -0.91968\*\* | 0 | 0 | 0 | -1.50017\*\*\* | 0 | 0 | 0 | 0 |
| Is Student | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.04206\* |
| Is Employed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -0.85786\* |
| Is HH Size 1 person | 0 | 0 | 0 | 1.81008\*\*\* | 0 | 0 | 0 | 1.04658\*\* | 0 | 0 | 0 | 1.18572\*\*\* |
| Is HH Size 2 persons | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is HH Size 3 persons | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is HH Size over 3 persons | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is below 18 years old | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -3.73311\*\*\* |
| Is between 18 – 39 years old | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is between 40 – 59 years old | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is over 60 years old | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.39919\*\* | -1.68283\*\*\* |
| Is Low HH Economic Status | 0 | 0 | 3.51746\*\* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.209\* |
| Is Very Low HH Economic Status | 0 | 0 | 3.51746\*\* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.209\* |
| Is High HH Economic Status | 0 | 0 | 0 | -0.71029. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is Very High HH Economic Status | 0 | 0 | 0 | -0.71029. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| alpha \* gTime | 11.51368\*\*\* | 11.51368\*\*\* | 11.51368\*\*\* | 11.51368\*\*\* | 14.09411\*\*\* | 14.09411\*\*\* | 14.09411\*\*\* | 14.09411\*\*\* | 4.91861\*\*\* | 4.91861\*\*\* | 4.91861\*\*\* | 4.91861\*\*\* |
| VOT | 32 | 32 | 32 | 32 | 65 | 65 | 65 | 65 | 32 | 32 | 32 | 32 |
| alpha | -0.0015 | -0.0015 | -0.0015 | -0.0015 | -0.0015 | -0.0015 | -0.0015 | -0.0015 | -0.0015 | -0.0015 | -0.0015 | -0.0015 |
| Calibration factor | 0.000 | 2.6150 | 1.1786 | 0.7126 | 0.000 | 7.8084 | 1.8922 | 0.2330 | 0.000 | 5.3560 | 1.5136 | 0.5797 |

Note: values in the table represent the estimated coefficients and the level of significance is marked by \* (p-value < 0.10), \*\* (p-value< 0.05) and \*\*\* (p-value< 0.01).

**Table A4**. Mode choice coefficients for overnight trips

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Private | | | | Business | | | | Leisure | | | |
| variable | **Auto** | **Air** | **Bus** | **Rail** | **Auto** | **Air** | **Bus** | **Rail** | **Auto** | **Air** | **Bus** | **Rail** |
| Alternative specific constant (ASC) | 0 | -4.01027\*\*\* | -2.53597\*\*\* | -2.773153\*\*\* | 0 | -2.89192\*\*\* | 0 | 0.84004. | 0 | -3.90274\*\*\* | -4.32665\*\*\* | -3.48152\*\*\* |
| Is Male | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -0.88582\* | 0 | 0 | 0 | 0 |
| Is Student | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.62514\*\* | 2.80975\*\*\* |
| Is Employed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.89557\*\*\* |
| Is HH Size 1 person | 0 | 0 | 0 | 1.74401\*\*\* | 0 | 0 | 0 | 0 | 0 | 0 | 2.77615\*\* | 0.52879. |
| Is HH Size 2 persons | 0 | 0 | 0 | 1.36511. | 0 | 0 | 0 | 0 | 0 | 0 | 2.77615\*\* | 0.52879. |
| Is HH Size 3 persons | 0 | 0 | 0 | 1.36511. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1.50153\*\* |
| Is HH Size over 3 persons | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is below 18 years old | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is between 18 – 39 years old | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is between 40 – 59 years old | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is over 60 years old | 0 | 0 | 0 | 1.74401\*\* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.20149\*\* |
| Is Low HH Economic Status | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is Very Low HH Economic Status | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is High HH Economic Status | 0 | 0 | 0 | -1.59189\*\*\* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Is Very High HH Economic Status | 0 | 0 | 0 | -1.59189\*\*\* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| alpha \* gTime | 4.22943\*\* | 4.22943\*\* | 4.22943\*\* | 4.22943\*\* | 7.30716\*\*\* | 7.30716\*\*\* | 7.30716\*\*\* | 7.30716\*\*\* | 6.96257\*\*\* | 6.96257\*\*\* | 6.96257\*\*\* | 6.96257\*\*\* |
| VOT | 32 | 32 | 32 | 32 | 65 | 65 | 65 | 65 | 32 | 32 | 32 | 32 |
| alpha | -0.0015 | -0.0015 | -0.0015 | -0.0015 | -0.005 | -0.005 | -0.005 | -0.005 | -0.0015 | -0.0015 | -0.0015 | -0.0015 |
| Calibration factor | 0.000 | 1.1312 | 2.0828 | 0.8313 | 0.000 | 4.0138 | 0.1608 | 0.4516 | 0.000 | 5.2325 | 3.2154 | 0.6867 |

Note: values in the table represent the estimated coefficients and the level of significance is marked by \* (p-value < 0.10), \*\* (p-value< 0.05) and \*\*\* (p-value< 0.01).