

APPENDIX E:

YARTS RESERVATION SYSTEM CUSTOMER RESIDENTIAL LOCATION AND TRIP PATTERNS

YARTS management contracts with Betterez to provide the platform for the transit system's reservation system. Beyond providing a convenience for passengers, this system generates data regarding the customers and their travel patterns that is useful in understanding the utilization of the YARTS service as a whole, as well as the four individual service corridors. Specifically, this data can be used to identify the following:

- The residential location of the customer, based on country, state and zip code. Within California, residential location was categorized by county within the immediate YARTS service area (including Inyo County) and by region for areas beyond the service area. These areas were defined as follows:
 - Bay Area – San Francisco, San Mateo, San Jose, Santa Cruz, Alameda, Contra Costa, Marin, Sonoma, Napa and Solano Counties.
 - Central Coast – San Benito, Monterey, San Luis Obispo and Santa Barbara Counties.
 - Central Valley – From San Joaquin County on the north to Kern County on the south.
 - Sacramento Area – Sacramento, Yolo, Placer, El Dorado, Alpine, Amador and Calaveras Counties.
 - North State – All counties north of the Bay Area and Sacramento Area.
 - Southern California – All counties south of the other areas.
- The trip origin and destination of the travel group. Note that this identifies “origin” as outside of the Park and “destination” as within the Park.

Data was obtained and analyzed for all customers making reservations through the service from May 2017 through September 2018. Note that the figures represent individual customers, rather than individual trips. This information is thus best used to identify overall patterns, rather than total number of trips.

120 West Route

Records for a total of 892 reservation customers were evaluated. Analysis tables are presented in Tables 120W-1 through 120W-4, and summarized below.

Customer Residential Location

- Customers come from all over the world, from a total of 29 countries. 77.4 percent are from the U.S. Including Canada, 79.1 percent are from North America. This is followed by 17.4 percent of customers that live in Europe, the largest proportion from England followed by Germany.
- Focusing in on U.S. residents, customers come from 39 different states. Beyond California (43.2 percent of all Sonora Route customers), the highest proportions come from New York (3.5 percent), Florida (3.4 percent) and Texas (2.5 percent).
- The highest proportion of Sonora Route customers within California are Bay Area residents (16.9 percent of all customers, or 39.4 percent of California customers). This is followed by 12.6 percent that are Southern California residents. 4.9 percent of customers reported Tuolumne County residences.

Trip Pattern

The preponderance of customer trips on the Sonora Route are traveling to the Yosemite Valley Visitors Center (98.9 percent). Trip origins are concentrated at four locations outside of the park – Yosemite Pines RV Park (17.6 percent), Rush Creek Lodge (16.9 percent), Yosemite Lakes Campgrounds (15.0 percent) and Mary Laveroni Park (14.8 percent) – that together generate 64.3 percent of the round-trip origins.

TABLE 120W-1: 120 West Route Customers Country of Residence

Country	Region	Count	% of All Customers
Australia	Pacific	15	1.7%
Austria	Europe	1	0.1%
Belgium	Europe	3	0.3%
Brazil	South America	1	0.1%
Canada	North America	15	1.7%
China	Asia	1	0.1%
Czech Republic	Europe	2	0.2%
Denmark	Europe	5	0.6%
France	Europe	6	0.7%
Germany	Europe	42	4.9%
Ireland	Europe	4	0.5%
Israel	Middle East	2	0.2%
Italy	Europe	7	0.8%
Japan	Asia	1	0.1%
Kuwait	Middle East	1	0.1%
Malaysia	Asia	1	0.1%
Malta	Europe	1	0.1%
Netherlands	Europe	16	1.9%
New Zealand	Pacific	2	0.2%
Norway	Europe	2	0.2%
Singapore	Asia	1	0.1%
Slovakia	Europe	1	0.1%
Spain	Europe	2	0.2%
Sweden	Europe	1	0.1%
Switzerland	Europe	7	0.8%
Taiwan	Asia	3	0.3%
Thailand	Asia	2	0.2%
United Kingdom	Europe	50	5.8%
United States	North America	668	77.4%
Total by Region	Asia	9	1.0%
	Europe	150	17.4%
	Middle East	3	0.3%
	North America	683	79.1%
	Pacific	17	2.0%
	South America	1	0.1%

TABLE 120W-2: 120 West Route U.S. Customers State of Residence

State	Count	% of All Customers	State	Count	% of All Customers
Alabama	0	0.0%	Nebraska	2	0.2%
Alaska	0	0.0%	Nevada	6	0.7%
Arizona	18	2.1%	New Hampshire	3	0.3%
Arkansas	1	0.1%	New Jersey	5	0.6%
California	373	43.2%	New Mexico	2	0.2%
Colorado	8	0.9%	New York	30	3.5%
Connecticut	4	0.5%	North Carolina	7	0.8%
Delaware	0	0.0%	North Dakota	1	0.1%
Florida	29	3.4%	Ohio	13	1.5%
Georgia	2	0.2%	Oklahoma	2	0.2%
Hawaii	1	0.1%	Oregon	9	1.0%
Idaho	0	0.0%	Pennsylvania	11	1.3%
Illinois	11	1.3%	Puerto Rico	0	0.0%
Indiana	7	0.8%	Rhode Island	0	0.0%
Iowa	1	0.1%	South Carolina	5	0.6%
Kansas	0	0.0%	South Dakota	0	0.0%
Kentucky	5	0.6%	Tennessee	4	0.5%
Louisiana	1	0.1%	Texas	22	2.5%
Maine	2	0.2%	Utah	5	0.6%
Maryland	9	1.0%	Vermont	0	0.0%
Massachusetts	11	1.3%	Virginia	10	1.2%
Michigan	2	0.2%	Washington	14	1.6%
Minnesota	7	0.8%	Washington DC	0	0.0%
Mississippi	1	0.1%	West Virginia	0	0.0%
Missouri	9	1.0%	Wisconsin	7	0.8%
Montana	0	0.0%	Wyoming	0	0.0%

TABLE 120W-3: 120 West Route California Customers Region of Residence

Region	Count	% of All Customers	% of California Customers
Bay Area	146	16.9%	39.4%
Central Coast	9	1.0%	2.4%
Central Valley	17	2.0%	4.6%
YARTS Area	42	4.9%	11.3%
Fresno County	0	0.0%	0.0%
Inyo County	0	0.0%	0.0%
Madera County	0	0.0%	0.0%
Mariposa County	0	0.0%	0.0%
Merced County	0	0.0%	0.0%
Mono County	0	0.0%	0.0%
Tuolumne County	42	4.9%	11.3%
North State	1	0.1%	0.3%
Sacramento Area	47	5.4%	12.7%
Southern California	109	12.6%	29.4%

TABLE 120W-4: 120 West Route Trip Origin/Destination Round-Trip Pairs

Origin	Destination					Total
	Big Oak Flat Park Entrance	Buck Meadows Restaurant	Crane Flat Gas Station	Mary Laveroni Park	Yosemite Valley Visitor Center	
Yosemite Pines RV Park	2	0	1	0	154	157
Yosemite Lakes Campgrounds	3	0	0	0	131	134
Black Oak Resort & Casino	0	0	0	0	32	32
Inns of California Sonora	0	0	0	0	35	35
Mary Laveroni Park	0	0	0	0	132	132
Big Oak Flat Park Entrance	0	0	0	0	30	30
Buck Meadows Restaurant	0	0	0	0	78	78
Crane Flat Gas Station	0	0	0	0	35	35
Rush Creek Lodge	0	0	0	0	151	151
Sonora Best Western	0	1	1	1	67	70
Rocca Park Jamestown	0	0	0	1	37	38
Total	5	1	2	2	882	892
Percent All Trips						
Yosemite Pines RV Park	0.2%	0.0%	0.1%	0.0%	17.3%	17.6%
Yosemite Lakes Campgrounds	0.3%	0.0%	0.0%	0.0%	14.7%	15.0%
Black Oak Resort & Casino	0.0%	0.0%	0.0%	0.0%	3.6%	3.6%
Inns of California Sonora	0.0%	0.0%	0.0%	0.0%	3.9%	3.9%
Mary Laveroni Park	0.0%	0.0%	0.0%	0.0%	14.8%	14.8%
Big Oak Flat Park Entrance	0.0%	0.0%	0.0%	0.0%	3.4%	3.4%
Buck Meadows Restaurant	0.0%	0.0%	0.0%	0.0%	8.7%	8.7%
Crane Flat Gas Station	0.0%	0.0%	0.0%	0.0%	3.9%	3.9%
Rush Creek Lodge	0.0%	0.0%	0.0%	0.0%	16.9%	16.9%
Sonora Best Western	0.0%	0.1%	0.1%	0.1%	7.5%	7.8%
Rocca Park Jamestown	0.0%	0.0%	0.0%	0.1%	4.1%	4.3%
Total	0.6%	0.1%	0.2%	0.2%	98.9%	100.0%

120/395 Route

Records for a total of 543 reservation customers were evaluated. Analysis tables are presented in Tables 120/395-1 through 120/395-4, and summarized below.

Customer Residential Location

- Customers come from a total of 22 countries or territories. 87.9 percent are from the U.S. and 91.1 percent are from North America. This is followed by 6.1 percent of customers that live in Europe, the largest proportions from England and Germany.
- Focusing in on U.S. residents, customers come from 41 different states and the District of Columbia. Beyond California (39.0 percent of all 120/395 Route customers), the highest proportions come from Texas (4.2 percent), followed by 3.5 percent each from Illinois and Washington.
- Of California residents, the highest proportion of 120/395 Route customers are from Southern California (19.9 percent of all customers or 51.0 percent of California customers). This is followed by Bay Area residents (11.2 percent of all customers, or 28.6 percent of California customers). 4.8 percent of customers reported Mono County residences.

Trip Pattern

The preponderance of customer trips on the 120/395 Route are traveling roughly equally to Yosemite Valley (47.3 percent) and to Tuolumne Meadows (47.7 percent), with the remainder consisting of trips to White Wolf Lodge, Crane Flat and the Rush Creek Trailhead. Most of the trips originate in Mammoth Lakes (72.7 percent in total), while the Lee Vining area stops in total generate 11.8 percent of trip origins. 12.7 percent of trips are within Yosemite National Park, largely between Tuolumne Meadows and Yosemite Valley.

TABLE 120/395-1: 120/395 Route Customers Country of Residence

Country	Region	Count	% of All Customers
Australia	Pacific	3	0.6%
Belgium	Europe	2	0.4%
Brazil	South America	2	0.4%
Canada	North America	17	3.2%
China	Asia	2	0.4%
Czech Republic	Europe	1	0.2%
France	Europe	3	0.6%
Germany	Europe	10	1.9%
Hong Kong	Asia	1	0.2%
Ireland	Europe	1	0.2%
Israel	Middle East	1	0.2%
Japan	Asia	2	0.4%
Netherlands	Europe	3	0.6%
Peru	South America	1	0.2%
Portugal	Europe	1	0.2%
Romania	Europe	1	0.2%
Singapore	Asia	1	0.2%
Sweden	Europe	1	0.2%
Taiwan	Asia	1	0.2%
United Kingdom	Europe	10	1.9%
United States	North America	473	87.9%
Uruguay	South America	1	0.2%
Total by Region	Asia	7	1.3%
	Europe	33	6.1%
	Middle East	1	0.2%
	North America	490	91.1%
	Pacific	3	0.6%
	South America	4	0.7%

TABLE 120/395-2: 120/395 Route U.S. Customers State of Residence

State	Count	% of All Customers	State	Count	% of All Customers
Alabama	2	0.4%	Nebraska	0	0.0%
Alaska	1	0.2%	Nevada	8	1.5%
Arizona	16	3.0%	New Hampshire	4	0.7%
Arkansas	0	0.0%	New Jersey	1	0.2%
California	210	39.0%	New Mexico	1	0.2%
Colorado	12	2.2%	New York	10	1.9%
Connecticut	2	0.4%	North Carolina	7	1.3%
Delaware	1	0.2%	North Dakota	0	0.0%
Florida	11	2.0%	Ohio	8	1.5%
Georgia	10	1.9%	Oklahoma	4	0.7%
Hawaii	3	0.6%	Oregon	17	3.2%
Idaho	4	0.7%	Pennsylvania	8	1.5%
Illinois	18	3.3%	Puerto Rico	0	0.0%
Indiana	5	0.9%	Rhode Island	0	0.0%
Iowa	5	0.9%	South Carolina	0	0.0%
Kansas	3	0.6%	South Dakota	1	0.2%
Kentucky	1	0.2%	Tennessee	8	1.5%
Louisiana	1	0.2%	Texas	22	4.1%
Maine	0	0.0%	Utah	2	0.4%
Maryland	6	1.1%	Vermont	2	0.4%
Massachusetts	9	1.7%	Virginia	6	1.1%
Michigan	10	1.9%	Washington	18	3.3%
Minnesota	2	0.4%	Washington DC	3	0.6%
Mississippi	0	0.0%	West Virginia	0	0.0%
Missouri	5	0.9%	Wisconsin	4	0.7%
Montana	1	0.2%	Wyoming	0	0.0%

**TABLE 120/395-3: 120/395 Route California
Customers Region of Residence**

Region	Count	% of All Customers	% of California Customers
Bay Area	60	11.2%	28.6%
Central Coast	3	0.6%	1.4%
Central Valley	7	1.3%	3.3%
YARTS Area	14	2.6%	6.7%
Fresno County	0	0.0%	0.0%
Inyo County	0	0.0%	0.0%
Madera County	0	0.0%	0.0%
Mariposa County	1	0.2%	0.5%
Merced County	2	0.4%	1.0%
Mono County	10	1.9%	4.8%
Tuolumne County	1	0.2%	0.5%
North State	3	0.6%	1.4%
Sacramento Area	16	3.0%	7.6%
Southern California	107	19.9%	51.0%

Origin	Destination						Total
	Rush Creek	Tuolumne	Tuolumne	White Wolf	Crane Flat Gas	Yosemite	
	Trailhead	Meadows Store	Visitor Center	Lodge	Station	Valley Visitor Center	
Mammoth Mountain Inn	3	25	27	0	0	37	92
The Village Mammoth Lakes	3	30	15	0	0	48	96
Juniper Springs Resort	1	5	4	0	0	12	22
Shilo Inn	1	39	18	0	1	42	101
Mammoth Lakes Park- Tavern Rd	1	23	27	0	0	33	84
June Mountain Ski Area	0	2	3	0	0	3	8
Rush Creek Trailhead	0	2	4	0	0	1	7
Lake View Lodge	0	15	13	0	0	16	44
Mono Basin Visitor Center	0	3	0	0	0	3	6
Tioga Mobil Gas Mart	0	2	2	0	0	10	14
Tuolumne Meadows Store	0	0	0	11	1	27	39
Tuolumne Meadows Visitor Center	0	0	0	5	0	22	27
White Wolf Lodge	0	0	0	0	0	1	1
Crane Flat Gas Station	0	0	0	0	0	2	2
Total	9	146	113	16	2	257	543
Percent All Trips							
Mammoth Mountain Inn	0.6%	4.6%	5.0%	0.0%	0.0%	6.8%	16.9%
The Village Mammoth Lakes	0.6%	5.5%	2.8%	0.0%	0.0%	8.8%	17.7%
Juniper Springs Resort	0.2%	0.9%	0.7%	0.0%	0.0%	2.2%	4.1%
Shilo Inn	0.2%	7.2%	3.3%	0.0%	0.2%	7.7%	18.6%
Mammoth Lakes Park- Tavern Rd	0.2%	4.2%	5.0%	0.0%	0.0%	6.1%	15.5%
June Mountain Ski Area	0.0%	0.4%	0.6%	0.0%	0.0%	0.6%	1.5%
Rush Creek Trailhead	0.0%	0.4%	0.7%	0.0%	0.0%	0.2%	1.3%
Lake View Lodge	0.0%	2.8%	2.4%	0.0%	0.0%	2.9%	8.1%
Mono Basin Visitor Center	0.0%	0.6%	0.0%	0.0%	0.0%	0.6%	1.1%
Tioga Mobil Gas Mart	0.0%	0.4%	0.4%	0.0%	0.0%	1.8%	2.6%
Tuolumne Meadows Store	0.0%	0.0%	0.0%	2.0%	0.2%	5.0%	7.2%
Tuolumne Meadows Visitor Center	0.0%	0.0%	0.0%	0.9%	0.0%	4.1%	5.0%
White Wolf Lodge	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%
Crane Flat Gas Station	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.4%
Total	1.7%	26.9%	20.8%	2.9%	0.4%	47.3%	100.0%

140 Route

This review encompassed a total of 977 reservation customers. The results are shown in Table 140-1 through 140-4, and summarized below.

Customer Residential Location

- Customers come from a total of 46 countries or territories, and from every part of the globe. A relatively low proportion of 60.1 percent are from the U.S., making up the largest proportion of the 63.0 percent that are from North America. Fully 23.0 percent of passengers are from Europe, particularly from the United Kingdom.
- Among U.S. residents, customers come from 40 different states. Beyond California (26.5 percent of all Sonora Route customers), the highest proportions come from Texas, Illinois and New York (between 2 percent and 4 percent apiece).
- The Bay Area generates the largest proportion of California residents using this route, at 41.6 percent. A relatively high (21.0 percent) proportion are residents of the YARTS service area, including 10.5 percent that are Merced County residents and 9.3 percent that are Mariposa County residents. The proportion of ridership on this route that live in Southern California (25.3 percent) is relatively high, despite the fact that the 41 Route provides a more direct route to Yosemite Valley.

Trip Pattern

The trip origin/destination pattern reflects this route's key role in providing regional access from connecting rail and transit services, with 47 percent of trips traveling from Merced (particularly the Amtrak station) and Yosemite Valley (particularly the Visitor's Center). There are also a substantial proportion of trips from the areas just outside the Park (Mariposa to the Park) heading to Yosemite Valley (31.5 percent) as well as 19.6 percent of trips in the "reverse" direction originating in Mariposa or points east and heading to Merced. Overall, this route serves a more diverse pattern of individual passenger trips.

TABLE 140-1: 140 Route Customers Country of Residence

Country	Region	Count	% of All Customers
Argentina	South America	2	0.2%
Australia	Pacific	36	3.7%
Austria	Europe	1	0.1%
Belgium	Europe	2	0.2%
Brazil	South America	1	0.1%
Canada	North America	23	2.4%
Chile	South America	1	0.1%
China	Asia	6	0.6%
Colombia	South America	1	0.1%
Costa Rica	North America	1	0.1%
Czech Republic	Europe	6	0.6%
Denmark	Europe	3	0.3%
Estonia	Europe	3	0.3%
Finland	Europe	5	0.5%
France	Europe	11	1.1%
Germany	Europe	25	2.6%
Hong Kong	Asia	7	0.7%
Hungary	Europe	2	0.2%
India	Asia	6	0.6%
Indonesia	Asia	1	0.1%
Ireland	Europe	12	1.2%
Israel	Middle East	2	0.2%
Italy	Europe	5	0.5%
Japan	Asia	23	2.4%
Malta	Europe	1	0.1%
Mexico	North America	3	0.3%
Malta	Europe	1	0.1%
Netherlands	Europe	7	0.7%
New Zealand	Pacific	16	1.6%
Norway	Europe	2	0.2%
Poland	Europe	3	0.3%
Romania	Europe	1	0.1%
Russia	Europe	4	0.4%
Saudi Arabia	Middle East	1	0.1%
Serbia	Europe	2	0.2%
Singapore	Asia	13	1.3%
South Africa	Africa	2	0.2%
South Korea	Asia	7	0.7%
Spain	Europe	12	1.2%
Sweden	Europe	1	0.1%
Switzerland	Europe	5	0.5%
Taiwan	Asia	11	1.1%
Thailand	Asia	2	0.2%
United Kingdom	Europe	110	11.3%
Turkey	Middle East	1	0.1%
United States	North America	587	60.1%
Total by Region	Asia	76	7.8%
	Africa	2	0.2%
	Europe	224	23.0%
	Middle East	4	0.4%
	North America	614	63.0%
	Pacific	52	5.3%
	South America	5	0.5%

TABLE 140-2: 140 Route U.S. Customers State of Residence

State	Count	% of All Customers	State	Count	% of All Customers
Alabama	1	0.1%	Montana	0	0.0%
Alaska	0	0.0%	Nebraska	0	0.0%
Arizona	6	0.6%	Nevada	2	0.2%
Arkansas	5	0.5%	New Hampshire	1	0.1%
California	259	26.5%	New Jersey	11	1.1%
Colorado	8	0.8%	New Mexico	0	0.0%
Connecticut	4	0.4%	New York	28	2.9%
Delaware	1	0.1%	North Carolina	14	1.4%
Florida	19	1.9%	North Dakota	1	0.1%
Georgia	11	1.1%	Ohio	17	1.7%
Hawaii	5	0.5%	Oklahoma	4	0.4%
Idaho	3	0.3%	Oregon	5	0.5%
Illinois	23	2.4%	Pennsylvania	16	1.6%
Indiana	8	0.8%	Rhode Island	1	0.1%
Iowa	2	0.2%	South Carolina	6	0.6%
Kansas	0	0.0%	South Dakota	0	0.0%
Kentucky	5	0.5%	Tennessee	6	0.6%
Louisiana	1	0.1%	Texas	35	3.6%
Maine	0	0.0%	Utah	4	0.4%
Maryland	9	0.9%	Vermont	0	0.0%
Massachusetts	15	1.5%	Virginia	13	1.3%
Michigan	7	0.7%	Washington	12	1.2%
Minnesota	8	0.8%	West Virginia	1	0.1%
Mississippi	0	0.0%	Wisconsin	3	0.3%
Missouri	0	0.0%	Wyoming	1	0.1%

**TABLE 140-3: 140 Route California Customers
Region of Residence**

Region	Count	% of All Customers	% of California Customers
Bay Area	107	11.0%	41.6%
Central Coast	1	0.1%	0.4%
Central Valley	10	1.0%	3.9%
YARTS Area	54	5.5%	21.0%
<i>Fresno County</i>	1	0.1%	0.4%
<i>Madera County</i>	2	0.2%	0.8%
<i>Mariposa County</i>	24	2.5%	9.3%
<i>Merced County</i>	27	2.8%	10.5%
North State	3	0.3%	1.2%
Sacramento Area	17	1.7%	6.6%
Southern California	65	6.7%	25.3%

TABLE 140-4: 140 Route Trip Origin/Destination Round-Trip Pairs

Origin	Destination													Total	
	Merced Airport	Merced Transpo	Merced AMTRAK	Midtown Mariposa	Mariposa Park and Ride	KOA Campground	Mariposa Park and Ride	Yosemite Bug Resort	Cedar Lodge	El Portal PO	Yosemite View Lodge	Yosemite Valley Visitor Center	Yosemite Valley Lodge-Laurel Cottage		Half Dome Village
Half Dome Village	0	5	44	2	4	0	4	0	0	0	0	0	0	0	59
Majestic Yosemite Hotel	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Yosemite Valley Visitor Center	0	4	48	0	1	0	1	0	0	0	1	0	0	2	57
Yosemite Valley Lodge	0	2	30	0	0	0	0	0	0	0	0	0	0	0	32
Yosemite View Lodge	0	0	3	0	0	0	0	0	0	0	0	40	17	8	68
El Portal PO	0	0	1	0	0	0	0	0	0	0	0	7	0	1	9
Cedar Lodge	0	0	3	0	0	0	0	0	0	0	0	24	6	5	38
Yosemite Bug Resort	2	4	19	0	0	0	0	0	0	0	3	35	1	4	68
Midpines PO	0	0	2	0	0	0	0	0	0	0	0	13	0	1	16
Midpines County Park	0	0	1	0	0	0	0	0	0	0	0	2	0	0	3
KOA Campground	1	1	0	0	0	0	0	0	0	0	0	2	0	0	5
Roadside Rest	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Mariposa Park and Ride	1	1	11	0	0	0	0	0	0	1	0	92	19	5	130
Midtown Mariposa	1	2	5	0	0	0	0	0	0	0	0	25	0	4	37
Cathays Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Merced AMTRAK	0	0	0	6	3	1	3	15	2	1	22	191	15	81	340
Merced Transpo	0	0	0	2	3	0	3	3	2	0	4	64	7	21	109
Merced Airport	0	0	0	1	0	0	0	1	0	0	2	9	2	2	17
Total	5	20	170	11	11	1	11	19	4	2	32	504	67	136	993

Origin	Merced Airport	Merced Transpo	Merced AMTRAK	Midtown Mariposa	Mariposa Park and Ride	KOA Campground	Mariposa Park and Ride	Yosemite Bug Resort	Cedar Lodge	El Portal PO	Yosemite View Lodge	Yosemite Valley Visitor Center	Yosemite Valley Lodge-Laurel Cottage	Half Dome Village	
Half Dome Village	0.0%	0.5%	4.4%	0.2%	0.4%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%
Majestic Yosemite Hotel	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Yosemite Valley Visitor Center	0.0%	0.4%	4.8%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.2%	5.7%
Yosemite Valley Lodge	0.0%	0.2%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.7%
Yosemite View Lodge	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	1.7%	0.8%	6.8%
El Portal PO	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.1%	0.9%
Cedar Lodge	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.4%	0.6%	0.5%	3.8%
Yosemite Bug Resort	0.2%	0.4%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	3.5%	0.1%	0.4%	6.8%
Midpines PO	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	0.1%	1.6%
Midpines County Park	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.3%
KOA Campground	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.1%	0.5%
Roadside Rest	0.0%	0.1%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	9.3%	1.9%	0.0%	13.1%
Mariposa Park and Ride	0.1%	0.2%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.5%	0.0%	0.4%	3.7%
Cathays Valley	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
Merced AMTRAK	0.0%	0.0%	0.0%	0.6%	0.3%	0.1%	1.5%	1.5%	0.2%	0.1%	2.2%	19.2%	1.5%	8.2%	34.2%
Merced Transpo	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.3%	0.3%	0.2%	0.0%	0.4%	6.4%	0.7%	2.1%	11.0%
Merced Airport	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.2%	0.9%	0.2%	0.2%	1.7%
Total	0.5%	2.0%	17.1%	1.1%	1.1%	0.1%	1.1%	1.9%	0.4%	0.2%	3.2%	50.8%	6.7%	13.7%	100.0%

41 Corridor

This review considered reservation records for a total of 764 customers, as shown in Tables 41-1 through 41-4. This review is summarized below.

Customer Residential Location

- Customers of this route are residents of 34 countries. A relatively high percent (83 percent) are from the U.S. The total from North American countries were 86 percent, followed by 9.4 percent from Europe and 2.4 percent from Pacific countries such as Australia.
- Focusing in on U.S. residents, customers come from 44 different states, Washington DC and Puerto Rico. In addition to Californians (31.2 percent of all customers), the highest proportions come from Washington (3.3 percent), New Jersey (2.7 percent) and Arizona (2.6 percent).
- Of the Californians using the 41 Route, the highest proportion (35.9 percent) are Southern Californians, followed by 23.2 percent that are Fresno County residents. Overall, 34.2 percent of customers live in the YARTS service area counties.

Trip Pattern

The largest proportion of trips, comprising 35.8 percent of the total, are from the Fresno-Yosemite international Airport to Yosemite Valley. Including other trip origins in the Fresno area, 56.4 percent of all trips are from Fresno into the Park. Another substantial proportion of trips are from areas just outside the Park (as far south as Oakhurst) into the Park, which generate 27.6 percent of all trips.

TABLE 41-1: 41 Route Customers Country of Residence

Country	Region	Count	% of All Customers
Australia	Pacific	14	1.8%
Belgium	Europe	1	0.1%
Canada	North America	17	2.2%
China	Asia	2	0.3%
Colombia	South America	1	0.1%
Costa Rica	North America	2	0.3%
Czech Republic	Europe	2	0.3%
Denmark	Europe	3	0.4%
Estonia	Europe	1	0.1%
France	Europe	4	0.5%
Germany	Europe	4	0.5%
Hong Kong	Asia	2	0.3%
Hungary	Europe	1	0.1%
India	Asia	1	0.1%
Ireland	Europe	2	0.3%
Italy	Europe	2	0.3%
Japan	Asia	4	0.5%
Korea	Asia	1	0.1%
Mexico	North America	4	0.5%
Netherlands	Europe	5	0.7%
New Zealand	Pacific	4	0.5%
Norway	Europe	1	0.1%
Philippines	Asia	1	0.1%
Poland	Europe	3	0.4%
Romania	Europe	1	0.1%
Russia	Europe	1	0.1%
Singapore	Asia	2	0.3%
Spain	Europe	6	0.8%
Taiwan	Asia	1	0.1%
Turkey	Middle East	1	0.1%
United Kingdom	Europe	35	4.6%
United States	North America	633	83.0%
Uruguay	South America	1	0.1%
Vietnam	Asia	1	0.1%
Total by Region	Asia	15	2.0%
	Europe	72	9.4%
	Middle East	1	0.1%
	North America	656	86.0%
	Pacific	18	2.4%
	South America	2	0.3%

TABLE 41-2: 41 Route U.S. Customers State of Residence

State	Count	% of All Customers	State	Count	% of All Customers
Alabama	3	0.4%	Nebraska	2	0.3%
Alaska	5	0.7%	Nevada	6	0.8%
Arizona	20	2.6%	New Hampshire	2	0.3%
Arkansas	1	0.1%	New Jersey	21	2.7%
California	238	31.2%	New Mexico	1	0.1%
Colorado	14	1.8%	New York	15	2.0%
Connecticut	3	0.4%	North Carolina	16	2.1%
Delaware	1	0.1%	North Dakota	0	0.0%
Florida	33	4.3%	Ohio	14	1.8%
Georgia	2	0.3%	Oklahoma	3	0.4%
Hawaii	3	0.4%	Oregon	6	0.8%
Idaho	2	0.3%	Pennsylvania	7	0.9%
Illinois	25	3.3%	Puerto Rico	1	0.1%
Indiana	8	1.0%	Rhode Island	0	0.0%
Iowa	2	0.3%	South Carolina	3	0.4%
Kansas	2	0.3%	South Dakota	0	0.0%
Kentucky	7	0.9%	Tennessee	4	0.5%
Louisiana	6	0.8%	Texas	41	5.4%
Maine	0	0.0%	Utah	2	0.3%
Maryland	10	1.3%	Vermont	1	0.1%
Massachusetts	13	1.7%	Virginia	11	1.4%
Michigan	13	1.7%	Washington	25	3.3%
Minnesota	12	1.6%	Washington DC	3	0.4%
Mississippi	2	0.3%	West Virginia	0	0.0%
Missouri	8	1.0%	Wisconsin	12	1.6%
Montana	1	0.1%	Wyoming	2	0.3%

TABLE 41-3: 41 Route California Customers Region of Residence

Region	Count	% of All Customers	% of California Customers
Bay Area	35	4.6%	14.8%
Central Coast	9	1.2%	3.8%
Central Valley	22	2.9%	9.3%
YARTS Area	81	10.6%	34.2%
<i>Fresno County</i>	55	7.2%	23.2%
<i>Madera County</i>	16	2.1%	6.8%
<i>Mariposa County</i>	7	0.9%	3.0%
<i>Mono County</i>	2	0.3%	0.8%
<i>Tuolumne County</i>	1	0.1%	0.4%
North State	2	0.3%	0.8%
Sacramento Area	3	0.4%	1.3%
Southern California	85	11.1%	35.9%

TABLE 41-4: 41 Route Trip Origin/Destination Round-Trip Pairs

Origin	Destination														Total		
	Yosemite Valley Visitor Center	Yosemite Valley Lodge	Dome Village	Half Dome Yosemite	Majestic Yosemite Hotel	Big Trees Lodge	Wawona Store	Mariposa Grove	Tenaya Lodge	The Pines at Bass Lake	Oakhurst Best Western	Coarsegold	Chukchansi Gold Resort and Casino	North Fresno		Fresno Amtrak-Greyhound	Fresno Airport
Wawona Store	18	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	24
Big Trees Lodge	5	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Mariposa Grove	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7
Tenaya Lodge	39	14	2	2	2	0	1	0	0	0	0	0	0	0	0	0	58
The Pines at Bass Lake	28	3	0	1	0	0	0	1	0	0	0	0	0	0	0	0	33
Oakhurst Best Western	83	13	7	1	0	0	2	2	0	0	0	0	0	0	0	0	108
Coarsegold	14	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Chukchansi Gold Resort and Casino	11	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	15
North Fresno	34	4	3	2	2	0	0	0	0	0	0	0	1	0	0	0	44
Fresno Amtrak-Greyhound	89	11	9	0	0	2	5	1	2	5	7	1	1	0	0	0	133
Fresno Airport	200	25	38	2	2	3	9	2	10	9	17	0	1	1	2	0	319
Total	527	89	67	10	10	5	18	6	12	14	24	1	3	1	2	0	779
Percent All Trips																	
Wawona Store	2.3%	0.4%	0.3%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.1%
Big Trees Lodge	0.6%	1.8%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%
Mariposa Grove	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%
Tenaya Lodge	5.0%	1.8%	0.3%	0.3%	0.3%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%
The Pines at Bass Lake	3.6%	0.4%	0.0%	0.1%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.2%
Oakhurst Best Western	10.7%	1.7%	0.9%	0.1%	0.1%	0.0%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.9%
Coarsegold	1.8%	0.1%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%
Chukchansi Gold Resort and Casino	1.4%	0.1%	0.3%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9%
North Fresno	4.4%	0.5%	0.4%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	5.6%
Fresno Amtrak-Greyhound	11.4%	1.4%	1.2%	0.0%	0.0%	0.3%	0.6%	0.1%	0.3%	0.6%	0.9%	0.1%	0.1%	0.0%	0.0%	0.0%	17.1%
Fresno Airport	25.7%	3.2%	4.9%	0.3%	0.3%	0.4%	1.2%	0.3%	1.3%	1.2%	2.2%	0.0%	0.1%	0.1%	0.3%	0.0%	40.9%
Total	67.7%	11.4%	8.6%	1.3%	1.3%	0.6%	2.3%	0.8%	1.5%	1.8%	3.1%	0.1%	0.4%	0.1%	0.3%	0.0%	100.0%

Residential Location Data Over All Routes

The residential location data discussed for the individual routes can also be combined to consider YARTS as a whole. These data are shown in Tables T-1 through T-3, as well as Figures T-1 through T-3. A review of these tables indicates the following:

- Overall, customers over the data period came from 55 individual countries and territories. Beyond the U.S. (75.1 percent), countries that generated relatively high proportions of YARTS customers were the United Kingdom (6.5 percent), Germany (2.6 percent), Canada (2.3 percent) and Australia (2.2 percent).
- By continent and region, North America residents generated slightly more than $\frac{3}{4}$ of all customers (77.7 percent) followed by 15.3 percent from Europe and 3.4 percent from Asia. This is also depicted in Figure T-1.
- YARTS was used by residents of all 50 United States, as well as Washington DC and Puerto Rico. As shown in Figure T-2, relatively high proportions of YARTS ridership (beyond Californians) were generated by Texas, Florida, New York, Illinois and Washington, all of which generated at least 2 percent of YARTS ridership.
- The region of California generating total YARTS ridership is summarized in Table T-3, indicating a relatively close balance between Southern California residents (34 percent of Californian customers) and Bay Area residents (32.4 percent). The YARTS service area counties generate a substantial proportion of ridership (6.1 percent of total ridership). Other areas of California generate relatively low proportions of total ridership.
- Finally, Figure T-3 presents a summary comparison of the proportion of ridership by residents on each of the four routes. This reflects the differing markets that each of the routes serves. The 140 Route serves a relatively high proportion of international passengers. Passengers from other U.S. states are concentrated on the 120/395 Route and the 41 Route. Residents of Southern California also tend to use the 120/395 Route as well as the 41 Route, while Bay Area residents are a relatively high proportion of 120 West Route ridership.

TABLE T-1: All Routes Reservation Customers Country of Residence

Country	Region	Count of Reservation System Customers				Total	% of All Customers
		140	120/395	120	41		
Argentina	South America	2	0	0	0	2	0.1%
Australia	Pacific	36	3	15	14	68	2.2%
Austria	Europe	1	0	1	0	2	0.1%
Belgium	Europe	2	2	3	1	8	0.3%
Brazil	South America	1	2	1	0	4	0.1%
Canada	North America	23	17	15	17	72	2.3%
Chile	South America	1	0	0	0	1	0.0%
China	Asia	6	2	1	2	11	0.3%
Colombia	South America	1	0	0	1	2	0.1%
Costa Rica	North America	1	0	0	2	3	0.1%
Czech Republic	Europe	6	1	2	2	11	0.3%
Denmark	Europe	3	0	5	3	11	0.3%
Estonia	Europe	3	0	0	1	4	0.1%
Finland	Europe	5	0	0	0	5	0.2%
France	Europe	11	3	6	4	24	0.8%
Germany	Europe	25	10	42	4	81	2.6%
Hong Kong	Asia	7	1	0	2	10	0.3%
Hungary	Europe	2	0	0	1	3	0.1%
India	Asia	6	0	0	1	7	0.2%
Indonesia	Asia	1	0	0	0	1	0.0%
Ireland	Europe	12	1	4	2	19	0.6%
Israel	Middle East	2	1	2	0	5	0.2%
Italy	Europe	5	0	7	2	14	0.4%
Japan	Asia	23	2	1	4	30	1.0%
Korea	Asia	0	0	0	1	1	0.0%
Kuwait	Middle East	0	0	1	0	1	0.0%
Malta	Europe	1	0	1	0	2	0.1%
Mexico	North America	3	0	0	4	7	0.2%
Malaysia	Asia	0	0	1	0	1	0.0%
Malta	Europe	1	0	1	0	2	0.1%
Netherlands	Europe	7	3	16	5	31	1.0%
New Zealand	Pacific	16	0	2	4	22	0.7%
Norway	Europe	2	0	2	1	5	0.2%
Peru	South America	0	1	0	0	1	0.0%
Philippines	Asia	0	0	0	1	1	0.0%
Poland	Europe	3	0	0	3	6	0.2%
Portugal	Europe	0	1	0	0	1	0.0%
Romania	Europe	1	1	0	1	3	0.1%
Russia	Europe	4	0	0	1	5	0.2%
Saudi Arabia	Middle East	1	0	0	0	1	0.0%
Serbia	Europe	2	0	0	0	2	0.1%
Singapore	Asia	13	1	1	2	17	0.5%
Slovakia	Europe	0	0	1	0	1	0.0%
South Africa	Africa	2	0	0	0	2	0.1%
South Korea	Asia	7	0	0	0	7	0.2%
Spain	Europe	12	0	2	6	20	0.6%
Sweden	Europe	1	1	1	0	3	0.1%
Switzerland	Europe	5	0	7	0	12	0.4%
Taiwan	Asia	11	1	3	1	16	0.5%
Thailand	Asia	2	0	2	0	4	0.1%
Turkey	Middle East	1	0	0	1	2	0.1%
United Kingdom	Europe	110	10	50	35	205	6.5%
United States	North America	587	473	668	633	2361	75.1%
Uruguay	South America	0	1	0	1	2	0.1%
Vietnam	Asia	0	0	0	1	1	0.0%
Total by Region	Asia	76	7	9	14	106	3.4%
	Africa	2	0	0	0	2	0.1%
	Europe	224	33	151	72	480	15.3%
	Middle East	4	1	3	1	9	0.3%
	North America	614	490	683	656	2443	77.7%
Pacific	52	3	17	18	90	2.9%	
South America	5	4	1	2	12	0.4%	

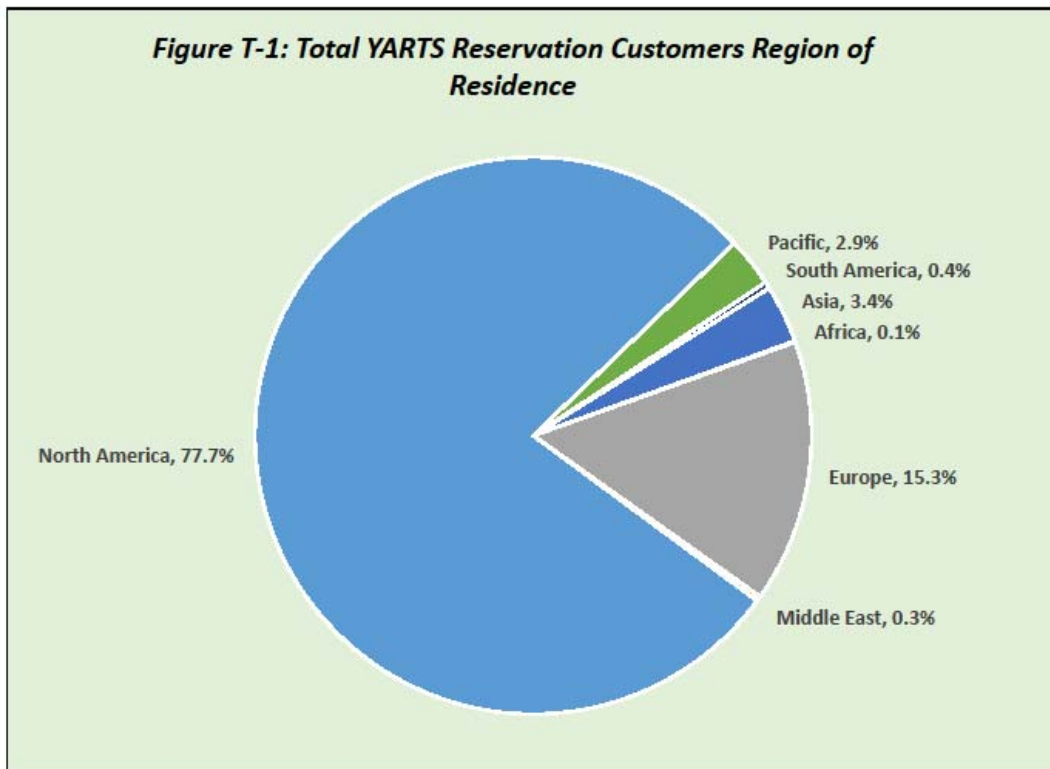


TABLE T-2: All Routes U.S. Customers State of Residence

State	% of All Customers					State	% of All Customers					
	140	120/395	120 West	41	Total		140	120/395	120 West	41	Total	
Alabama	1	2	0	3	6	Nebraska	0	0	2	2	4	0.1%
Alaska	0	1	0	5	6	Nevada	2	8	6	6	22	0.7%
Arizona	6	16	18	20	60	New Hampshire	1	4	3	2	10	0.3%
Arkansas	5	0	1	1	7	New Jersey	11	1	5	21	38	1.2%
California	259	210	373	238	1080	New Mexico	0	1	2	1	4	0.1%
Colorado	8	12	8	14	42	New York	28	10	30	15	83	2.6%
Connecticut	4	2	4	3	13	North Carolina	14	7	7	16	44	1.4%
Delaware	1	1	0	1	3	North Dakota	1	0	1	0	2	0.1%
Florida	19	11	29	33	92	Ohio	17	8	13	14	52	1.7%
Georgia	11	10	2	2	25	Oklahoma	4	4	2	3	13	0.4%
Hawaii	5	3	1	3	12	Oregon	5	17	9	6	37	1.2%
Idaho	3	4	0	2	9	Pennsylvania	16	8	11	7	42	1.3%
Illinois	23	18	11	25	77	Puerto Rico	0	0	0	1	1	0.0%
Indiana	8	5	7	8	28	Rhode Island	1	0	0	0	1	0.0%
Iowa	2	5	1	2	10	South Carolina	6	0	5	3	14	0.4%
Kansas	0	3	0	2	5	South Dakota	0	1	0	0	1	0.0%
Kentucky	5	1	5	7	18	Tennessee	6	8	4	4	22	0.7%
Louisiana	1	1	1	6	9	Texas	35	22	22	41	120	3.8%
Maine	0	0	2	0	2	Utah	4	2	5	2	13	0.4%
Maryland	9	6	9	10	34	Vermont	0	2	0	1	3	0.1%
Massachusetts	15	9	11	13	48	Virginia	13	6	10	11	40	1.3%
Michigan	7	10	2	13	32	Washington	12	18	14	25	69	2.2%
Minnesota	8	2	7	12	29	Washington DC	3	3	0	3	9	0.3%
Mississippi	0	0	1	2	3	West Virginia	1	0	0	12	13	0.4%
Missouri	0	5	9	8	22	Wisconsin	3	4	7	2	16	0.5%
Montana	0	1	0	1	2	Wyoming	1	0	0	3	4	0.1%

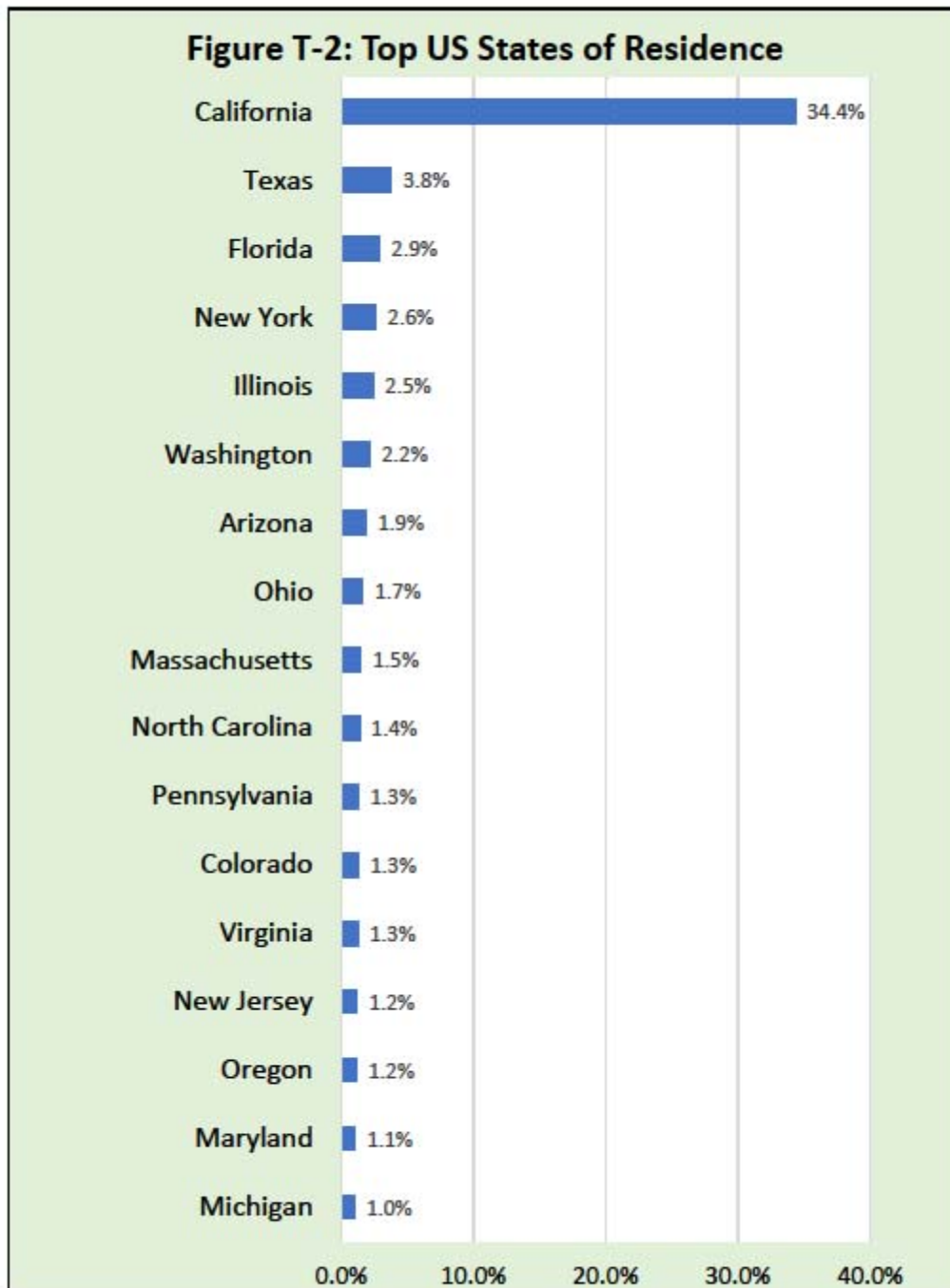


TABLE T-3: All Routes California Customers Region of Residence

Region	140	120/395	120 West	41	Total	% of All Customers	% of California Customers
Bay Area	107	60	146	35	348	11.1%	32.4%
Central Coast	1	3	9	9	22	0.7%	2.0%
Central Valley	10	7	17	22	56	1.8%	5.2%
YARTS Area	54	14	42	81	191	6.1%	17.8%
<i>Fresno County</i>	1	0	0	55	56	1.8%	5.2%
<i>Inyo County</i>	0	0	0	0	0	0.0%	0.0%
<i>Madera County</i>	2	0	0	16	18	0.6%	1.7%
<i>Mariposa County</i>	24	1	0	7	32	1.0%	3.0%
<i>Merced County</i>	27	2	0	0	29	0.9%	2.7%
<i>Mono County</i>	0	10	0	2	12	0.4%	1.1%
<i>Tuolumne County</i>	0	1	42	1	44	1.4%	4.1%
North State	3	3	1	2	9	0.3%	0.8%
Sacramento Area	17	16	47	3	83	2.6%	7.7%
Southern California	65	107	109	85	366	11.6%	34.0%

