Buses for Byways: Concept Plan

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**Buses for Byways**

Concept Plan

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7/8/2014
Acknowledgements

This concept plan is the result of over a year of data collection, discussion, comments, and reviews by multitudes of people in Idaho, Wyoming, and Montana. First, we would be remiss by not acknowledging the vision of Jan Brown, former Yellowstone Business Partnership Executive Director, who believed passionately that access to trails and public lands by all people is possible while at the same time generating opportunities for local businesses in the region and giving people a "greener" transportation option.

Second, Tim O'Donoghue, Team Leader of the Yellowstone region and Dylan Boyle, Team Leader of the ID Panhandle/MT region were instrumental in connecting us with business leaders throughout the region. Without their help, this project would have suffered tremendously.

Third, attendees at the initial 'jump off' meeting for this project helped generate ideas and fine tune the process. A special thanks goes to: Ellen Liberteen - Stanley Chamber of Commerce; Lorraine Roach - Top 10 Scenic Byways Founder, current YBP Board Member; Kristine Phipps - WY Office of Tourism; Jim Evans- ED Nez Perce Foundation; Jeff Osgood- CTAI; JoAnn Wolters; Grant Simons- ID Operators & Guides Association; Tim O'Donaghue- GY Tourism Council; Tammy Stringham- Lemhi Economic Dev.; Jan Brown; Dillon Boyle- Crown of Continent Geotourism Council; Liz Townely- Outdoor Rec BLM; Stephanie Sims- Intl Selkirk Loop; Sarah Lush- National Parks Conservation Association; Charlie – Water Access/Recreation Mgt Issues for ID; Alice Trendle- Hells Canyon Scenic Byway (Eastern OR Visitors Ass., Scenic Bikeways); Clif Warren—CTAI; Mark Troy- Outfitter in Salmon, Fire Crew Transportation Thompson Mine Transportation, Mineral Extraction Transportation; Karen Ballard- ID Tourism; Anna Holden – Top 10 Scenic Drives.

Fourth, an enormous thank you goes to Lorraine Roach who took over at the end to review and edit this final plan. Her selfless time in these final hours made this report a worthy document.

Finally, we want to thank the offices of tourism in Idaho, Wyoming, and Montana; chambers of commerce and visitor centers throughout the tri-state region, the airports within the region, and the outfitters and guides associations in Idaho and Montana for their assistance.

Funding

This report was funded by a U.S. Federal Highway Administration National Scenic Byway Program Grant, the Yellowstone Business Partnership, and Top 10 Scenic Drives partners.
Executive Summary

Buses for Byways (B4B) is a conceptual idea designed to help people of all ages and abilities gain access to recreation sites along the Top 10 Scenic Drives in Idaho, Wyoming, and Montana as well as segments of eastern Oregon and Washington. The benefit of public transit to recreation sites is the reduction of personal vehicles (crowding, air and noise pollution) on the roadways, access to public recreation areas by people who would not otherwise have access, and business opportunities for current providers or start-ups with shuttle capability. A top reason for B4B is to give people a better, more enjoyable, safer transportation option that is both gentler on the earth and often more enjoyable than a private vehicle.

Secondary and primary data were used to assess the feasibility of a public transportation system along the nine scenic byways in this study. The byways were organized into three regions for analysis: Greater Yellowstone Region; Central Idaho/Hells Canyon Region, and the MT/ID Panhandle Region. Each of these regions has three byways. Results indicate there is both supply and demand for the transportation system.

- **TRENDS:** The three byway regions have grown in population since 1990, ranging from 29% to 42%, to a little over 1 million residents with median age increasing by 3 years since 2010. On average, visitation to the region’s national parks and national forests are estimated to be about 18.8 million visits per year by both residents and nonresidents. Airport deboardings have decreased slightly since the 2008 recession, but highway traffic has remained steady. Trends show a positive trend in population, mobility, and recreation use.

- **DEMAND:** 82% of the regional residents and 66% of nonresidents have experienced a need for some sort of public transportation to/from a recreation access point in their lifetime. However, only 34% of residents and 35% of nonresidents are willing to use a shuttle service. Of those willing to use the service, 57% of residents and 70% of nonresidents are willing to pay for the shuttle service. The top areas for using a shuttle service are the national parks – Yellowstone, Grand Tetons, and Glacier. Residents and visitors would use the services for access to trailheads and rivers for hiking, rafting, fishing, and skiing. 79% of tourism and recreation business owners reported getting requests for public transit to airports, within and to other communities, as well as requests to recreation access points and national parks. These results indicate some demand, but not an overwhelming demand, for a public transportation system to recreation access points.

- **SUPPLY:** Transit vehicle supply was assessed through tourism and recreation business owners in ID, MT, and WY. Supply of vehicles averaged 3.5 per business owner, with many having only one vehicle. The number of seats available ranged from 0 to 1,000. Additionally, 21 charter bus companies service the tri-state area adding to the supply. When asked, one third of business owners indicated a willingness to take other people (not their customers) to the airport or to trailhead/river access points. About one third would have interest in a tri-state transportation reservation system, and about one quarter would be willing to pick up others along their current route to or from a recreation access site. Scheduling, vehicle availability, liability, and return on investment were the challenges mentioned to participating in a public transit system. Results show a moderate but positive business owner response indicating that supply is available for the buses for byways concept.

Within this study, 51 business owners provided contact information to be called in regards to establishing the transportation system, presenting an opportunity for making the next step in implementation. These self-identified business owners, along with a lead organization, could become the market leaders within their region if the reservation system was set up and marketed well to both residents and nonresidents.
Section 1 - Buses for Byways Introduction

Buses for Byways (B4B) is a unique and intriguing concept to help people of all ages and abilities gain access to recreation sites along the Top 10 Scenic Drives in Idaho, Wyoming, and Montana, as well as segments of eastern Oregon and Washington. The benefit of public transit to recreation sites is the reduction of personal vehicles (crowding, air and noise pollution) on the roadways, access to public recreation areas by people who would not otherwise have access, and business opportunities for current providers or start-ups with shuttle capability. The long term idea is to utilize the currently available supply of public transit, such as private shuttles, and set up a point-to-point transportation system. This concept is based on the initial set-up of Linx - Greater Yellowstone Regional Transportation Cooperative. Linx provided mobility management services for people in and around the Greater Yellowstone area - connecting the park to the gateway communities and beyond. Seasonal park employees, international visitors, one-way trail hikers, and others found the service useful for their transportation needs.

This report provides secondary and primary data analysis to highlight the feasibility of the B4B idea in the area of the Top 10 Scenic Drives (Figures 1 and 2). Based on demographic trends in the region, visitor trends, resident recreation needs, and transportation supply within the regions of the scenic drives, the concept plan will provide recommendations of how and where implementation of a regional network of transportation providers could be successful.

This concept plan represents only the U.S. drives, and, therefore, only nine drives are highlighted. The 10th drive, solely in Canada, is not part of this concept plan. In addition, the Canadian portions of the Waterton-Glacier International Peace Park Loop and the International Selkirk Loop All-American Road are not included in this plan.

The complexity and details of a regional transportation network is not the purpose of this report. However, the feasibility and concept portion of the project is provided. The success of a regional transportation system is in the on-the-ground establishment of the system from a supply side, and then the subsequent communication and marketing of the transportation available to residents living within the Top 10 Scenic drive regions. If implemented with attention to details, business owners, residents and visitors could benefit from this plan.
The nine scenic drives included in this concept plan are highlighted in black on this map in Figure 1. For the purposes of this plan, three regions were established to be able to concentrate data and analysis at the regional level. The regions are highlighted in the above map.

Figure 1: Scenic Drives in Concept Plan Region
Section 1.1 - Byway Description

A National Scenic Byway is a road recognized by the United States Department of Transportation for its archeological, cultural, historic, natural, recreational, and/or scenic qualities. To be eligible for designation as a National Scenic Byway, a road or highway must be significant in at least one of the six qualities listed above and complete an approved Corridor Management Plan. The program was established by Congress in 1991 to preserve and protect the nation’s scenic but often less-traveled roads and to promote tourism and economic development. The program is administered by the Federal Highway Administration. At the time of this writing, the National Scenic Byways program is no longer receiving federal funding.

The most scenic roads in the National Scenic Byway program may be designated as All American Roads. To be designated as an All American Road, the road or highway must: be significant in at least two of the qualities listed above, have features that do not exist elsewhere in the United States, and be scenic enough to be a tourist destination unto itself. As of November 2010, there were 120 National Scenic Byways and 31 All American Roads (in the Top 10 Scenic drives, four are All American Roads and 6 are Scenic Byways).

The nine scenic drives in this concept plan are adjacent to or serve as direct corridors to 50 national park system units, national forests, or wilderness/recreation areas, and a total of 53 state parks in Idaho, Montana, Wyoming and Oregon. Recreation along and adjacent to these drives includes all possible outdoor recreation activities with scenic driving, hiking, camping, boating, fishing, and hunting being the most popular activities.

Section 1.2 – Regional Visitation Trends

Visitor statistics for the three main states in this plan (ID, MT, WY) are not comparable due to differences in data collection. Idaho’s latest statistic says 13.5 million *overnight trips* occurred in 2008. Wyoming’s latest statistic says 9.1 million *overnight visitors* came to Wyoming in 2013. Montana’s latest statistic says 11 million *nonresident visitors* came in 2013. Both the Idaho and Wyoming statistics include resident overnight trips. In Montana, a 2011-12 resident travel study indicated that 15.4 million person-trips were taken by Montanans in a 12 month period. Another complexity to these statistics is that of the ‘unique’ visitor. How many of the visitors counted in each state are also counted in the other two states? It is impossible to assess the total number of visitors to this group of states. With that said, visitation is continuing to increase, and, whatever the true visitation number is to these three states, it is substantially larger than the combined population of 3.2 million residents, creating a driving force of economic impact for the region.

2. [http://www.wyomingofficeoftourism.gov/media/88350/2013YearInReview.pdf](http://www.wyomingofficeoftourism.gov/media/88350/2013YearInReview.pdf)
Section 2 - Top 10 Sub-region Trend Analysis

This section provides a view into the counties along the Top 10 Scenic Drives as it relates to population and age changes over time, traffic counts along the drive highways, selected airport traffic near or within the drive highway regions, visitation numbers in national parks and visitation to US Forest Service land along the scenic drives. The purpose of these secondary data graphs is to provide a glimpse into local variation within each scenic drive, discuss changes that are evident over time, and to project how these demographic and visitation trends will affect the Top 10 Scenic Drive regions. While the Salt Lake City Airport can be a gateway to the Yellowstone region, we have not included it in this analysis due to the sheer volume of traffic that is only slightly correlated to traffic along the Top 10 Scenic Drives.

Information for data trends along the Top 10 Scenic Drives have been collected from the following data centers:

2. 6-year view of annual traffic along scenic byways: State Departments of Transportation:
   - ID – http://www.idt.idaho.gov/highways/roadwaydata/Maps/ATR_WIMmap_map.html
3. Monthly airport ridership included for each region were:
   - Greater Yellowstone Region airport deboardings: Cody & Jackson Hole, WY; West Yellowstone, Bozeman, & Billings MT; Idaho Falls, ID
     - personal communication, Sheri Taylor, Air Service Development Manager, Wyoming Department of Transportation, Aeronautics Div.
     - personal communication, Megan Jenkins, Executive Assistant, Jackson Hole Airport & Teresa Stone, Admin. Assistant, Idaho Falls Regional Airport
   - Central Idaho/Hells Canyon Region airport deboardings: Missoula, MT; and Boise, Lewiston-Nez Perce, & Sun Valley, ID
     - Personal communication, Bruce MacLachlan, Airport Mgr., Lewiston-Nez Perce County regional Airport
   - Montana/Idaho Panhandle Region airport deboardings: Kalispell, MT, Great Falls, Mt, Missoula, MT; and Spokane, WA
     - http://www.spokaneairports.net/pass_data.htm

The three sub-regions within the Top 10 scenic drives each contain three byways further explained and detailed in section 2. All data numbers can be found in the companion publication, “Buses for Byways Data Document.”
Section 2.1 - Greater Yellowstone Region
The Greater Yellowstone Region consists of three scenic byways as illustrated on the map and described in the box to the right.

Circle the Continental Divide Driving Tour
“This tour highlights the best of Wyoming — including national parks, museums, rodeos, pioneer trails, Native American tribes, jaw-dropping scenery, and colorful wildlife. Visit the rumored burial spot of Sacajawea on the Wind River Indian Reservation. Walk in historic wagon ruts on the Oregon Trail. Hike and camp on five million acres of public land. Experience the essence of the Wyoming Rocky Mountains along the Continental Divide.”

Beartooth All-American Road
“With 10,000 mountain lakes, 20 peaks reaching over 12,000 feet in elevation, and 12 national forest campgrounds, the Beartooth Highway is one of America’s most scenic drives. Witness the rare transition of lush forest ecosystem to alpine tundra in just a few miles on the highest elevation road in the Northern Rockies, and access the northeast entrance to Yellowstone National Park.”

Yellowstone-Grand Teton Loop
“The Yellowstone-Grand Teton Loop allows you to explore our nation’s first national park — nestled in the heart of the Wyoming Rocky Mountains — including geysers, historic lodges, wildlife, the peaks of the Grand Teton Mountains, and Jackson Hole. Yellowstone evokes images of free-roaming herds of buffalo, wandering bears, and towering jets of water shooting up from the ground. Rising 13,000 feet toward the sky, the Grand Tetons are a masterpiece of nature ... with shimmering lakes, thick forests, and awesome peaks covered in snow most of the year. Connected by the John D. Rockefeller Jr. Memorial Parkway, Yellowstone and Grand Teton compose a living, breathing wilderness.”
Greater Yellowstone Region: Yellowstone-Grand Teton Loop, County Trends in Population and Age

**Yellowstone-Grand Teton Loop County Population Trends**

- Fremont, ID
- Teton, ID
- Park, WY
- Teton, WY

**Median Age in Yellowstone-Grand Teton Loop Counties**

- Fremont, WY
- Teton, ID
- Park, WY
- Teton, WY

Greater Yellowstone Region: Beartooth All-American Road, County Trends in Population and Age

**Beartooth All American Road County Population Trends**

- Park, MT
- Carbon, MT
- Park, WY

**Median Age in Beartooth All American Road Counties**

- Park, MT
- Carbon, MT
- Park, WY
Greater Yellowstone Region: County Trends in Population and Age

Circle the Continental Divide Driving Tour County Population Trends

Median Age in Circle the Continental Divide Drive Counties

Greater Yellowstone Region - Mean of Average Annual Daily Traffic Along Select Scenic Roadways

Greater Yellowstone Percent Air Traffic 2013: Total Deboardings = 1,160,818
Greater Yellowstone Region: National Park & National Forest Recreation Visits

Yellowstone NP Recreation Visits
2000-2013

Grand Teton NP Recreation Visits
2000-2013

JDR Mem. Parkway Recreation Visits
2000-2013

Yellowstone Region: National Forest Visits

- Shoshone NF
  - 646,000

- Bridger-Teton NF
  - 2,182,000
Greater Yellowstone Region Summary of Trends

Between 1990 and 2012, population has grown in every county of the Greater Yellowstone Region. In 2012, the overall population of the region was 322,014 which is a 41.8% increase in this timeframe. In addition, median age climbed between 2000 and 2010 by 3.5 years (38 years old to 41.8 years old). A view of each byway shows more detail in population and age changes:

- Circle the Continental Divide county populations grew 30.4%. Median age went from 38.5 to 39.8 in ten years.
- Beartooth All-American Road county populations grew 18.7%. Median age went from 40.8 to 45.7 in ten years.
- Yellowstone/Grand Teton county populations grew 67.4%. Median age went from 33.7 to 35.9 in ten years.

In the six years from 2007-2012, traffic on the byway highways in the Greater Yellowstone Region fluctuated from year-to-year with no apparent large discrepancies in counts on any of the three byways. The least amount of traffic is recorded on the Beartooth All-American Road (closed for 7 ½ months/yr.), while counts on the Circle the Continental Divide shows the most traffic. However, natural gas development in the Circle Tour roads south of Grand Teton National Park has increased the amount of traffic in that area, increasing the numbers substantially. This, along with a 114% population growth in Sublette County (from 4,843 to 10,368 from 1990-2012) shows another variable affecting the byway traffic.

Six airports in the Greater Yellowstone Region (Cody, Jackson Hole, Idaho Falls, Billings, Bozeman, and West Yellowstone) show an overall increase in deboardings of 9% from 2007 to 2013. The one significant change for this region is the substantial increase in the Bozeman airport of 32%.

Recreation visits to the national parks have historically been up and down from year to year. This is no exception in the Greater Yellowstone Region. Between 2000 and 2013, Yellowstone NP had a high of 3.6 million recreation visits in 2010 with a low of 2.76 million in 2001. The average visitation for these 14 years was 3.1 million recreation visitors. Grand Teton National Park had a high of 2.7 million recreation visits in 2012 with a low of 2.35 million in 2003 with average visitation of 2.5 million visits. Finally, the John D. Rockefeller Jr. Memorial Parkway was highest in 2013, having 1.2 million recreation visits with a low of 1.03 million in 2006 and an average over the 14 years of 1.1 million visits.

National Forest visitor data within the Greater Yellowstone Region has not been collected on a yearly basis. Therefore, no trend analysis is available. However, between the Shoshone NF and the Bridger-Teton NF, 2.8 million visits were made to the two forests in a year.

In summary, the Greater Yellowstone Region has been growing steadily in population. The U.S. population grew 24% from 1990-2010, however, the Yellowstone region grew almost 6% more at 29.8%. Median age in the region also increased. The U.S. median age in 2010 was 37.2, quite a bit different from the median age ranges of the counties within this region (32.8 in Sweetwater County, WY to 48.6 in Hot Springs County, WY). Highway traffic does not show any large increases or decreases indicating a relatively stable system. Airport deboardings increased 9% and appear to be similar to slight changes in highway traffic volumes. Visits to the National Parks and the forests show a healthy number of recreation users with typical historical fluctuations in park visitation. In sum, population increases have been high in the Greater Yellowstone Region, but it is likely the nonresident visitation growth in the tri-state region is driving the overall recreation visits to the parks and byways.
Section 2.2 – Central Idaho/Hells Canyon Region
The Central Idaho/Hells Canyon Region consists of three scenic byways as illustrated on the map and described in the box to the right.

Figure 2: Central Idaho/Hells Canyon

Descriptions from www.drivethetop10.com

**Hells Canyon All-American Road**
"Hells Canyon is North America’s deepest river gorge and encompasses a vast and remote region with dramatic changes in elevation, terrain, climate and vegetation. The total 75 mile stretch of the ‘Wild and Scenic’ Snake River from the Hells Canyon Dam northward for 75 miles to the Washington-Oregon border is largely inaccessible except by river craft. Carved by the great Snake River, Hells Canyon plunges 8,000 feet below snowcapped He Devil Peak of the Seven Devils Mountains."

**Northwest Passage Scenic Byway All-American Road**
"In 1803, President Jefferson commissioned Meriwether Lewis and William Clark to find the Northwest Passage – the link between the Missouri River and the Columbia River through the unexplored Rocky Mountains. This 202-mile byway, stretching across North Central Idaho, follows the explorers’ route through the ancestral homeland of the Nez Perce people."

**Salmon-Sawtooth Scenic Byways**
"Known as the whitewater capital of the world, the Salmon River-Sawtooth Scenic Byways are full of river rafting, fishing, and other recreation. Beginning in Shoshone, the byway rolls north through fertile agricultural land to the resort towns of Hailey, Ketchum, and Sun Valley. It then terminates in the Stanley Idaho Rocky Mountains, where the Sawtooth meets the Salmon River Scenic Byways."
Central Idaho/Hells Canyon Region: County Trends in Population and Age

Hells Canyon County Population Trends

Median Age in Hells Canyon Counties

Northwest Passage Scenic Byway County Population Trends

Median Age in Northwest Passage Scenic Byway Counties
Central Idaho/Hells Canyon Region: County Trends in Population and Age

**Salmon River-Sawtooth Scenic Byway County Population Trends**

- 1990
- 2000
- 2010
- 2012

**Median Age in Salmon River-Sawtooth Counties**

- Lemhi, ID
- Custer, ID
- Blaine, ID
- Lincoln, ID

Central Idaho/Hells Canyon Region: Daily Traffic Averages along Scenic Byways and Relevant Airport Traffic

**Central Idaho/Hells Canyon Region - Mean of Average Annual Daily Traffic Along Select Scenic Roadways**

- Hells Canyon All-American Road
- Northwest Passage Scenic Byway All-American Road
- Salmon River-Sawtooth Scenic Byway

**Central ID/Hells Canyon Air Traffic 2013:**

- Total Deboardings = 1,711,645

- Boise 78%
- Missoula 16%
- Sun Valley 3%
- Lewiston-Nez Perce 3%
Central Idaho/Hells Canyon Region: National Park & National Forest Recreation Visits

Nez Perce Nat'l Historic Park
Recreation Visits 2000-2013

Craters of the Moon Recreation Visits
2000-2013

Central ID/Hells Canyon Region National Forest Visits

Sawtooth NF
Payette NF
Bitterroot NF
Wallowa-Whitman NF
Clearwater NF
Salmon-Challis NF
Nez Perce NF

Visits
0
200,000
400,000
600,000
800,000
1,000,000
1,200,000

1,087,000
810,000
777,000
447,000
294,000
236,000
145,000
Central Idaho/Hells Canyon Region Summary of Trends

Between 1990 and 2012, population has grown in every county of the region except two (Butte County, ID and Wallowa County, OR). In 2012, the overall population of the region was 319,761, a 28.7% increase over 1990. In addition, median age climbed between 2000 and 2010 by 4.2 years (40 years old to 44 years old). A view of each byway shows more detail in population and age changes:

- The Salmon River-Sawtooth Byway county population grew 46.7%. Median age went from 39.3 to 43 in ten years.
- Northwest Passage Scenic Byway All-American Road county populations grew 34.7%. Median age went from 39.8 to 44 in ten years.
- Hells Canyon All American Road county populations grew 7.7%. Median age went from 41 to 45.5 in ten years.

In the six years from 2007-2012, traffic on the byway highways in the Central Idaho/Hells Canyon Region fluctuated from year-to-year with no apparent large discrepancies in counts on any of the three byways. The least amount of traffic is recorded on Hells Canyon All-American Road. The Northwest Passage Scenic Byway All-American Road shows the most traffic in this region which is an obvious reflection of the byway with the highest county populations in the region, and nearly a 35% growth in those county populations.

Four airports are used in this region for access points to the byways – Boise, Lewiston-Nez Perce County, Sun Valley, and Missoula. Interestingly, only Missoula was up in deboardings between 2007 and 2013. Boise and Sun Valley were down 23% and Lewiston-Nez Perce was down 14%. This could be a reaction to the recession. This results in an overall decrease in airplane traffic of 19% from 2007 to 2013. The Boise airport may be leveling off at 1.3 million deboardings, which is 380,000 fewer passengers from the high in 2007.

Two national park system units located in the Central Idaho/Hells Canyon region have historically been up and down from year to year like all other park units nationwide. Craters of the Moon National Monument has been fairly consistent in visitation between 2000 and 2013 averaging out around 200,000 visits each year. The Nez Perce National Historic Park, on the other hand, has been on a fairly steady upward climb in visitation between 2000 and 2013 resulting in a 104% increase since 2000 to nearly 300,000 visits in a year. Much of this increase could be attributed to the Lewis and Clark Bicentennial Commemoration which traveled right through the Nez Perce National Historic Park.

National forest visitor data within the Central Idaho/Hells Canyon Region is only collected periodically (usually a 5-year cycle). The data available is a one year analysis, therefore no trend analysis is possible. There are seven national forests in this region. The Sawtooth National Forest has slightly over 1 million visitors in a year, which includes a very popular Sawtooth National Recreation Area. The Payette National Forest receives the next highest visitation at 810,000. In total, the seven national forests receive nearly 3.8 million visits per year.

In summary, the Central Idaho/Hells Canyon Region has been growing steadily in population (28.7%), slightly higher than the U.S population growth of 24% in the years 1990-2010. Median age in the region also increased. The U.S. median age in 2010 was 37.2, which is in the range of this region’s counties (33.2 in Missoula County, MT to 44.4 in Wallowa County, OR). Highway traffic does not show any large increases or decreases indicating a relatively stable system. Airport deboardings decreased 19% between 2007 and 2013, perhaps the result of a slow recession recovery of the major airlines. Visits to the national parks and forests show a healthy number of recreation users with acceptable fluctuations between the years in the park system. In sum, the population increase in this area is the main indicator of possible transportation needs in the Central Idaho/Hells Canyon Region.
Section 2.3 – Montana/Idaho Panhandle Region

The MT/ID Panhandle Region consists of three scenic byways as illustrated on the map and described in the box to the right.

Descriptions from www.drivethetop10.com

**Waterton-Glacier International Peace Park**

“At the narrow waist of the Rockies, where Alberta, British Columbia, and Montana meet, sprawls one of the world’s wildest, most diverse, and intact ecosystems. In the early 1890s, conservationist and Glacier Park advocate George Bird Grinnell dubbed this region the "Crown of the Continent" -- highlighting its geographical importance as the headwaters of the continent, spilling waters into the Pacific Ocean, Gulf of Mexico, and Hudson Bay."

**Montana Scenic Loop**

"Straddling the Great Northern Rocky Mountains -- what the Blackfeet call the "Backbone of the World" -- the nearly 400-mile-long Montana Scenic Loop has spectacular mountains, extensive wilderness, abundant wildlife, and a down-home friendliness. The Bob Marshall wilderness, Great Bear wilderness and the Scapegoat wilderness are the center of this loop. From high, rugged Montana Rocky Mountains to wind-swept plains, some consider it the best scenic drive in the West."

**International Selkirk Loop All-American Road**

"The International Selkirk Loop - All-American Road is a 280-mile drive that takes in northeast Washington, northern Idaho, and southeast British Columbia. The Loop follows rivers and lakeshores used by native tribes, explorer David Thompson, gold seekers on the Wild Horse Trail, and early settlers. With its dense, green mixed conifer forests, the Selkirk Range is the last remaining domain of the woodland caribou in the Lower 48 states."
Montana/Idaho Panhandle Region: County Trends in Population and Age

Montana Scenic Loop Population Trends

Median Age in Montana Scenic Loop

- Flathead
- Lake
- Missoula
- Powell
- Lewis & Clark
- Teton
- Pondera
- Glacier
Montana/Idaho Panhandle Region: Daily Traffic Averages along Scenic Byways and Relevant Airport Traffic

Montana/Idaho Panhandle - Mean of Average Annual Daily Traffic Along Select Scenic Roadways

- Waterton-Glacier International Peace Park Loop
- Montana Scenic Loop
- International Selkirk Loop All-American Road

MT/ID Panhandle Air Traffic 2013:
Total Deboardings = 3,310,501

- Spokane 90%
- Glacier Int’l 5%
- Great Falls 5%

Montana/Idaho Panhandle Region: National Park & National Forest Recreation Visits

Glacier NP Recreation Visits 2000-2013

MT/ID Panhandle Region National Forest Visitation

- ID Panhandle NF: 1,278,000
- Kootenai NF: 892,000
- Flathead NF: 852,000
- Lewis & Clark NF: 404,000
- Colville NF: 336,000
Montana/Idaho Panhandle Region Summary of Trends

Between 1990 and 2012, population has grown in every county but two in the MT/ID Panhandle Region (Teton and Pondera, MT counties). In 2012, the overall population of the region was 393,761, a 39.8% increase in this timeframe. In addition, median age climbed between 2000 and 2010 by 3.3 years (37.4 years old to 40.7 years old). A view of each byway shows more detail in population and age changes:

- Montana Scenic Loop county populations grew 38.5%. Median age went from 37.1 to 40.4 in ten years.
- Waterton-Glacier county populations grew 47.7%. Median age went from 34.8 to 36.5 in ten years.
- Selkirk Loop county populations grew 46.5%. Median age went from 40.3 in 2000 to 45.5 in ten years.

In the six years from 2007-2012, traffic on the byway highways in the MT/ID Panhandle Region fluctuated slightly from year-to-year with no apparent large discrepancies in counts on any of the three byways. The International Selkirk Loop appears to be on a slight downward trend in traffic but still has the highest recorded traffic of the three byways in this region. The Montana scenic loop shows the least amount of traffic of the three byways.

The three major airports servicing the MT/ID Panhandle Region (Kalispell, MT; Great Falls, MT; Spokane, WA) show an overall decrease in deboardings of 13% from 2007 to 2013. The two smaller airports (Kalispell and Great Falls) increased 14% and 27% respectively but do not have much influence on the percent change when the larger airport, Spokane, was down 16% in this timeframe.

Glacier National Park is the only national park in the MT/ID Panhandle Region. Glacier visitation numbers are positively correlated to opening and closing dates of the Going-to-the-Sun Road in the park, which is dependent on the snowfall each winter. However, like all national parks, visitation in Glacier National Parks goes up and down over the years. Between 2000 and 2013, Glacier had a high of nearly 2.2 million recreation visits in 2013 with a low of 1.6 million in 2001. The average visitation for these 14 years was about 2 million recreation visitors.

National forest visitor data within the MT/ID Panhandle Region has not been collected on a yearly basis, therefore no trend analysis is available. However, between the five forests (Idaho Panhandle, Kootenai, Flathead, Lewis & Clark, and Colville), nearly 3.8 million visits were made to the five forests in a year.

In summary, the MT/ID Panhandle Region has been growing steadily in population. The U.S population grew 24% from 1990-2010, while the MT/ID Panhandle region grew substantially more at 39.8%. Median age in the region also increased and is higher than the U.S. The U.S. median age in 2010 was 37.2, while 9 of the 11 counties in the region were above that median. Highway traffic does not show any significant concerns in terms of large increases or decreases indicating a relatively stable system. Overall airport deboardings decreased 13% causing a bit of alarm in relation to nonresidents coming into the region (at least by air), but this was probably due to the recession. Visits to the National Parks and the forests show a healthy number of recreation users with typical historical fluctuations in park visitation. In sum, the population increase and the age increases in this area may be the main indicators of possible transportation needs in the MT/ID Panhandle Region.
Section 3 – Recreation Access Supply and Demand Analysis

The previous section highlighted secondary data trends related to the areas within the nine scenic byways of this concept plan. This section will assess the demand for public transportation to and from recreation access points and the possible supply for the transportation system. The demand analysis portion of this study is based on primary data collected from residents of the three states (ID, MT, WY), visitors to these states, inquiries to destination marketing organizations, and business owners’ perception of demand. While a wide net was cast for the demand data, it still cannot be extrapolated to the population at large. The supply analysis was generated through primary data collection from business owners in the three states as well as the secondary analysis of current transportation options within ID, MT, and WY. The businesses contacted for the study were solicited from the tourism and recreation industry sectors.

Section 3.1 - Demand Analysis
Summarizing the demand data collected, the following results were found:

- In the planning stages of a trip, 146 people inquired at destination marketing organizations (tourism offices at state, regional, and local levels) about public transportation during the spring/summer months of 2013.5
- Foreign visitors are only slightly likely to look for public transportation options while in ID, MT, and WY according to five European tour operators connected with Rocky Mountain International (an organization who coordinates the international tourism activities for the state tourism departments of Idaho, Montana, South Dakota, Wyoming and North Dakota).6
- As many as 70% of nonresident respondents of ID, MT, and WY said they were somewhat likely to very likely to use a transportation service to or from a recreation access site for a small fee. Fifty-seven percent of resident respondents of the three states indicated they were somewhat likely to very likely to use a transportation service to or from a recreation access site for a small fee.
- A full 80% of the tourism and recreation business owners said they have inquiries from guests and employees for public transportation services. Nearly half of those tourism and recreation business owners said they received occasional inquiries while 30% said they had inquiries often or all the time.8
- The top four areas of transportation needs suggested by both residents and nonresidents were Yellowstone National Park, Glacier National Park, Grand Teton National Park, and Lolo Pass.

The following data highlighted in this report were extremely useful for furthering the concept plan. For methods and survey questions used in the study, refer to Appendices B, C, D, and E. For data summaries, see the companion report, “Buses for Byways Data Document.”

______________________________
5 Visitor Centers, state tourism offices, and other tourism organizations recorded the number of times someone called their office and asked about public transportation (see Appendix B).
6 A short survey of RMI tour operators was completed by 5 operators through an email survey (see Appendix C).
7 An on-line survey link was sent to ITRR panel members, Dept. of Tourism newsletter recipients in WY and ID, Geotourism newsletter recipients (Greater Yellowstone and Crown of the Continent), and Friends of the Beartooth newsletter recipients (see Appendix D).
8 An on-line survey link was sent to Tourism and Recreation Business owners in MT, ID, and the Greater Yellowstone region of Wyoming (see Appendix E).
Resident and Visitor Survey Results - Demand Data

Figure 2 shows that both residents and nonresidents have been in situations where a transport system to a recreation access point would have been beneficial if available. Not surprisingly, residents were more likely to be involved in recreation access experiences more than the nonresidents in nearly every situation asked of the respondents.

Figure 2: Travel Behavior of Residents* and Nonresidents

Residents and Visitors: Have you ever...

- paid anyone to move your vehicle from one recreation access point to another?
- hitchhiked to or from a trail/river access while recreating in the U.S.?
- had to drive two vehicles to make your recreation feasible (e.g. one for each end of the trail)?
- changed your outdoor recreation plans in the U.S. because you lacked transportation to or from an access?
- NOT participated in an outdoor recreation activity in the U.S. because you lacked transportation?
- taken public transportation in the U.S. to get to outdoor recreation access points?

*Residents of Idaho, Montana and Wyoming
As seen in Figure 3, the personal vehicle is still the transportation option of choice by both residents and nonresidents, but certainly residents are more likely to use their own vehicle. However, when asked about shuttle vehicle use, about one third of both resident and nonresident respondents said they would consider this choice of transportation to access recreation sites.

Figure 3: Type of Transportation People might use to Access Recreation Sites: Percent of Respondents

Methods of Transportation Respondents would Consider Using in ID, MT, or WY

<table>
<thead>
<tr>
<th>Transportation Method</th>
<th>Nonresidents (N=1,297)</th>
<th>Residents* (N=654)</th>
</tr>
</thead>
<tbody>
<tr>
<td>My personal vehicle</td>
<td>72%</td>
<td>98%</td>
</tr>
<tr>
<td>Rental vehicle</td>
<td>35%</td>
<td>55%</td>
</tr>
<tr>
<td>Shuttle vehicles</td>
<td>35%</td>
<td>34%</td>
</tr>
<tr>
<td>Other public transit city buses, vans, etc.</td>
<td>19%</td>
<td>16%</td>
</tr>
<tr>
<td>Snowmobile shuttle</td>
<td>10%</td>
<td>11%</td>
</tr>
<tr>
<td>Charter bus</td>
<td>16%</td>
<td>11%</td>
</tr>
<tr>
<td>Charter flight</td>
<td>10%</td>
<td>8%</td>
</tr>
<tr>
<td>Long-haul bus/intercity bus</td>
<td>7%</td>
<td>7%</td>
</tr>
<tr>
<td>Other</td>
<td>6%</td>
<td>4%</td>
</tr>
</tbody>
</table>

*Residents of Idaho, Montana and Wyoming
Respondents were asked about their likelihood of paying for transportation to recreation sites. Nonresidents were more inclined to say they would pay as 70% of nonresidents are somewhat likely to very likely to pay for this service compared to 57% of residents who would be somewhat to very likely to pay a fee for transportation (Figure 4).

**Figure 4: Likelihood of residents and nonresident to pay for transportation to recreation sites**

<table>
<thead>
<tr>
<th>Likelihood of Paying for Transportation to Recreation Sites</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not at all likely</td>
<td>15%</td>
</tr>
<tr>
<td>Unlikely</td>
<td>16%</td>
</tr>
<tr>
<td>Somewhat unlikely</td>
<td>10%</td>
</tr>
<tr>
<td>Somewhat likely</td>
<td>12%</td>
</tr>
<tr>
<td>Likely</td>
<td>17%</td>
</tr>
<tr>
<td>Very likely</td>
<td>11%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mean</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident</td>
<td>3.43</td>
</tr>
<tr>
<td>Nonresident</td>
<td>3.86</td>
</tr>
</tbody>
</table>

*Residents of Idaho, Montana and Wyoming*
Residents and nonresidents have similar travel behavior to various types of recreation sites. Nonresidents are slightly more likely to visit the sites more than residents except to “other public lands.” Both respondent groups are active in their travel behavior and both groups have a higher likelihood of visiting national parks than any other type of public land or historic and cultural type sites and events (Figure 5).

Figure 5: Types of places visited while traveling

<table>
<thead>
<tr>
<th>Types of Places</th>
<th>Likelihood of Visiting Certain Sites While Traveling**</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Parks</td>
<td>Nonresidents (N=1,297) 5.73, Residents* (N=654) 5.59</td>
</tr>
<tr>
<td>State parks</td>
<td>Nonresidents (N=1,297) 5.45, Residents* (N=654) 5.32</td>
</tr>
<tr>
<td>Other public lands</td>
<td>Nonresidents (N=1,297) 5.08, Residents* (N=654) 5.12</td>
</tr>
<tr>
<td>Historic sites</td>
<td>Nonresidents (N=1,297) 4.94, Residents* (N=654) 5.20</td>
</tr>
<tr>
<td>Museums</td>
<td>Nonresidents (N=1,297) 4.71, Residents* (N=654) 4.71</td>
</tr>
<tr>
<td>Cultural sites</td>
<td>Nonresidents (N=1,297) 4.48, Residents* (N=654) 4.48</td>
</tr>
<tr>
<td>Cultural events</td>
<td>Nonresidents (N=1,297) 4.24, Residents* (N=654) 4.24</td>
</tr>
</tbody>
</table>

*Residents of Idaho, Montana and Wyoming
**6 point Scale: 1=not at all likely to 6=very likely
As shown in Figure 6, residents are slightly more likely to participate in outdoor recreation activities than nonresidents, however nonresidents are slightly more likely to plan vacations and do things around scenic beauty opportunities.

Figure 6: Likelihood of participating in certain activities while traveling

<table>
<thead>
<tr>
<th>Activity</th>
<th>Mean Response</th>
<th>Nonresidents (N=1,297)</th>
<th>Residents (N=654)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participate in outdoor recreation activities</td>
<td>5.27</td>
<td>5.34</td>
<td></td>
</tr>
<tr>
<td>Plan your vacation around the opportunity to enjoy scenic beauty</td>
<td>5.51</td>
<td>5.18</td>
<td></td>
</tr>
<tr>
<td>Search for scenic driving routes</td>
<td>5.45</td>
<td>5.07</td>
<td></td>
</tr>
<tr>
<td>Stop at scenic overlooks</td>
<td>5.54</td>
<td>5.17</td>
<td></td>
</tr>
<tr>
<td>Specifically travel to an area for scenic beauty</td>
<td>5.64</td>
<td>5.41</td>
<td></td>
</tr>
</tbody>
</table>

*Residents of Idaho, Montana and Wyoming
**6 point Scale: 1=not at all likely to 6=very likely
A large majority of business owners (79%, N=526) reported that they get inquiries about public transportation from their guests or employees (Figure 7). While more business owners indicated these were occasional inquiries, it shows a need by visitors to the area for this type of transportation.

The type of inquiry varies, but the most frequent inquiry is a ride to or from the airport (40%, N=683) followed by a ride within or to another community (Figure 8). It is interesting to note that inquiries to national parks (19%), river access points (15%) and rides to trailheads (14%) are asked of business owners.
Table 1 highlights the areas and activities that residents and visitors said were places they would use public transportation and the types of activities they wanted to do in those areas.

### Table 1: Areas and activities for public transportation need*

<table>
<thead>
<tr>
<th>Areas of demand**</th>
<th># of respondents (n=749)</th>
<th>% of total</th>
<th>Region***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellowstone National Park</td>
<td>169</td>
<td>19%</td>
<td>1</td>
</tr>
<tr>
<td>Glacier National Park</td>
<td>125</td>
<td>14%</td>
<td>3</td>
</tr>
<tr>
<td>Grand Teton National Park</td>
<td>52</td>
<td>6%</td>
<td>1</td>
</tr>
<tr>
<td>Lolo Pass</td>
<td>41</td>
<td>5%</td>
<td>2</td>
</tr>
<tr>
<td>Missouri River</td>
<td>37</td>
<td>4%</td>
<td>3</td>
</tr>
<tr>
<td>Not sure</td>
<td>35</td>
<td>4%</td>
<td>1</td>
</tr>
<tr>
<td>Bozeman area</td>
<td>33</td>
<td>4%</td>
<td>1</td>
</tr>
<tr>
<td>Bob Marshall Wilderness</td>
<td>24</td>
<td>3%</td>
<td>3</td>
</tr>
<tr>
<td>Blackfoot River</td>
<td>21</td>
<td>2%</td>
<td>3</td>
</tr>
<tr>
<td>Flathead River/Valley/Lake</td>
<td>20</td>
<td>2%</td>
<td>3</td>
</tr>
<tr>
<td>Clark Fork River</td>
<td>19</td>
<td>2%</td>
<td>3</td>
</tr>
<tr>
<td>Sawtooths</td>
<td>18</td>
<td>2%</td>
<td>2</td>
</tr>
<tr>
<td>Madison River</td>
<td>17</td>
<td>2%</td>
<td>1</td>
</tr>
<tr>
<td>Salmon River</td>
<td>17</td>
<td>2%</td>
<td>2</td>
</tr>
<tr>
<td>Yellowstone River</td>
<td>16</td>
<td>2%</td>
<td>1</td>
</tr>
<tr>
<td>Any state park</td>
<td>15</td>
<td>2%</td>
<td>All regions</td>
</tr>
<tr>
<td>Missoula to GNP</td>
<td>15</td>
<td>2%</td>
<td>3</td>
</tr>
</tbody>
</table>

* Residents and Visitors were asked: “Please give an example of where in Idaho, Montana, and/or Wyoming you would use (or could have used) a transportation service for recreation access. What is the recreation activity you are referencing?”

**Full list is provided in the companion report, Buses for Byways Data Report

***1 = Greater Yellowstone Region; 2 = Central Idaho/Hells Canyon Region; 3 = MT/ID Panhandle Region

### Activities listed for transportation needs*

<table>
<thead>
<tr>
<th>Activity</th>
<th># of responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hiking</td>
<td>123</td>
</tr>
<tr>
<td>Rafting</td>
<td>105</td>
</tr>
<tr>
<td>Fishing</td>
<td>75</td>
</tr>
<tr>
<td>Ski/Backcountry ski</td>
<td>61</td>
</tr>
<tr>
<td>Touring national parks</td>
<td>54</td>
</tr>
<tr>
<td>Transportation to resort/accommodation</td>
<td>49</td>
</tr>
<tr>
<td>Shuttles to ski hills</td>
<td>39</td>
</tr>
<tr>
<td>Tubing</td>
<td>38</td>
</tr>
<tr>
<td>Kayaking</td>
<td>36</td>
</tr>
<tr>
<td>Backpacking</td>
<td>29</td>
</tr>
<tr>
<td>Shuttle to river access points</td>
<td>29</td>
</tr>
<tr>
<td>Not sure</td>
<td>28</td>
</tr>
<tr>
<td>Access from gateway communities into Parks</td>
<td>25</td>
</tr>
<tr>
<td>Biking</td>
<td>24</td>
</tr>
<tr>
<td>Floating</td>
<td>18</td>
</tr>
<tr>
<td>Visit historic sites</td>
<td>12</td>
</tr>
<tr>
<td>Sightseeing</td>
<td>12</td>
</tr>
<tr>
<td>Handicap access</td>
<td>12</td>
</tr>
<tr>
<td>Wildlife viewing</td>
<td>11</td>
</tr>
<tr>
<td>Visit ghost towns</td>
<td>9</td>
</tr>
<tr>
<td>Horseback riding</td>
<td>6</td>
</tr>
<tr>
<td>Shopping</td>
<td>4</td>
</tr>
<tr>
<td>Snowmobiling</td>
<td>4</td>
</tr>
<tr>
<td>Cross Country skiing</td>
<td>3</td>
</tr>
<tr>
<td>Snowcoach</td>
<td>3</td>
</tr>
<tr>
<td>Snowshoeing</td>
<td>1</td>
</tr>
<tr>
<td>Dog sledding</td>
<td>1</td>
</tr>
<tr>
<td>Wolf watching</td>
<td>1</td>
</tr>
</tbody>
</table>
In summary, the findings from the demand analysis for public transportation to recreation sites indicate there is a reasonable number of people who are interested in public transportation and are willing to pay a small fee for that transportation. While residents of the three primary states (ID, MT, and WY) did not respond as positively as visitors to the area, still more than half of the resident respondents who would use a shuttle (57%) said they would pay a small fee for transportation services. What is unknown from this data is the amount recreationists would be willing to pay. The study was not intended to assess the fee range for transportation.

Section 3.2 – Recreation Supply Access

Summarizing the transportation supply data collected, the following results were found:

- Nearly 1/3 (31%) of respondents currently own vehicles to shuttle/transport their customers (162 of 518 respondents).
- Of those who currently have vehicles, the mean number of vehicles is 3.5. The number of seats available ranges from 0 to 1,000 with the larger number of seats represented by three business owners with 20-29 vehicles each.
- Of the 162 business owners with vehicles, airport shuttling was the highest use of their vehicles (59%) followed by transport to rivers (31%), transport within the community (28%), transport to trailheads (28%), and scenic tours for their guests (28%).
- In response to four different fictitious but plausible scenarios, the following transportation options were favorable:
  - 32% (n=43) would definitely take other people to the airport for a small fee if there was room in the vehicle. 28% (n=38) said maybe.
  - 39% (n=53) would take others to a trailhead or river access with an underutilized van for a fee. 24% (n=32) said maybe.
  - 30% (n=41) would be interested in exploring a tri-state reservation system for fixed route and on-demand services as long as the business dictates the destinations and times. 35% (n=47) said maybe.
  - 25% (n=33) indicated they would be willing to pick up and take others to a recreation access point while they were already shuttling their own guests if they had room. 36% (n=48) said maybe.
  - In the combined scenarios, 204 respondents said “no” while 170 said “yes” and 165 said “maybe.” Combined, the yes and maybe responses equaled 335, indicating a positive response to the possibility of utilizing their vehicles to transport non-guests.
- Logistically, business owners were most concerned about coordinating scheduling, the vehicle availability, and cancellations. These concerns along with liability/insurance and the cost of providing that type of service were the most frequent challenges mentioned by business owners.
- Beyond the tourism and recreation business owners’ supply, other transportation options are limited in the tri-state area.

The following data highlighted in this report were extremely useful for furthering the concept plan. For methods and survey questions used in the study, refer to Appendix E. For data summaries, see the companion document, “Buses for Byway Data Document.”

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9 Tourism and recreation business owners in ID, MT, & WY completed an on-line survey regarding inquiries, current transportation, and future likelihood.
Tourism and recreation business owners who currently have vehicles to transport their guests/clients were more likely to take their guests to and from the airport than any other activity (Figure 9 and Table 2).

**Figure 9: Type of Transportation Business Owners with Vehicles Currently Offer to Guests**

<table>
<thead>
<tr>
<th>Nature of Current Transportation</th>
<th>Number of Businesses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ride to/from airport</td>
<td>96</td>
</tr>
<tr>
<td>A ride to/from a river access point</td>
<td>50</td>
</tr>
<tr>
<td>A ride within your community</td>
<td>46</td>
</tr>
<tr>
<td>Scenic tour of the area</td>
<td>45</td>
</tr>
<tr>
<td>A ride to/from a trailhead</td>
<td>45</td>
</tr>
<tr>
<td>Other tours (e.g. wildlife)</td>
<td>40</td>
</tr>
<tr>
<td>Other</td>
<td>30</td>
</tr>
<tr>
<td>A ride to/from one community to another</td>
<td>26</td>
</tr>
</tbody>
</table>

**Table 2: Type, Number, and Percent of Business Owners Conducting Transportation Services**

<table>
<thead>
<tr>
<th>Type of Transportation</th>
<th>#</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ride to/from airport</td>
<td>96</td>
<td>59%</td>
</tr>
<tr>
<td>A ride to/from a river access point</td>
<td>50</td>
<td>31%</td>
</tr>
<tr>
<td>A ride within your community</td>
<td>46</td>
<td>28%</td>
</tr>
<tr>
<td>A ride to/from a trailhead</td>
<td>45</td>
<td>28%</td>
</tr>
<tr>
<td>Scenic tour of the area</td>
<td>45</td>
<td>28%</td>
</tr>
<tr>
<td>Other tours (e.g. wildlife)</td>
<td>40</td>
<td>25%</td>
</tr>
<tr>
<td>Other</td>
<td>30</td>
<td>19%</td>
</tr>
<tr>
<td>A ride to/from one community to another</td>
<td>26</td>
<td>16%</td>
</tr>
</tbody>
</table>
Business owners were asked hypothetical questions regarding their willingness to take people other than their own guests in their vehicle. These scenarios were asked of all business owners whether or not they currently have their own business vehicle.

**Scenario #1 (N=155)**

“Your business has a van/bus currently used for airport runs. Four of the seven seats are filled with your guests. For a fee and with an advance reservation, would you be willing to take other people to the airport?”

In this scenario Greater Yellowstone Region business owners were less likely to be willing to take others to the airport if they had room. The MT/ID Panhandle Region business owners were the most likely to agree.

**Scenario #2 (N=155)**

“Your van is not fully utilized during the day. For a fee and with an advance reservation, would you be willing to shuttle interested parties to a trailhead or river access point?”

Business owners throughout the three regions were similar in their response of 40% saying yes, they would do this type of transportation and another 23% to 28% saying they might do this activity.
Scenario #3: Willingness to explore a tri-state transportation reservation system?

- MT/ID Panhandle (n=56)
  - No: 32%
  - Maybe: 27%
  - Yes: 41%

- Central ID/Hells Canyon (n=26)
  - No: 31%
  - Maybe: 31%
  - Yes: 38%

- Greater Yellowstone (n=53)
  - No: 26%
  - Maybe: 26%
  - Yes: 40%

In scenario #3, 1/3 or more in each region were reluctant to be a part of a reservation system. More “maybe” responses were given in this scenario, reflecting an uncertainty in the prospect of the idea.

Scenario #4: Willingness to pick up guests on the way to recreation access points for a fee?

- MT/ID Panhandle (n=56)
  - No: 34%
  - Maybe: 27%
  - Yes: 39%

- Central ID/Hells Canyon (n=26)
  - No: 31%
  - Maybe: 23%
  - Yes: 46%

- Greater Yellowstone (n=53)
  - No: 27%
  - Maybe: 23%
  - Yes: 50%

Half of the business owners in the Greater Yellowstone Region would not pick up additional people along their route to an access point, but only 1/3 of the other owners said no. Again, there is uncertainty in this transportation option with many owners saying “maybe” they would do this activity.
In Figure 12, business owners were asked to describe the challenges they perceived based on the four scenarios they had just responded to in the survey. While a few owners said they didn’t see any challenges, most responded with one or more barriers or concerns. The largest percent of owners mentioned their concern for the scheduling of the transportation followed by liability or access to insurance. The price and the “bottom line” to their business was also questioned. Finally, a number of owners said that current state regulations would not even allow this type of activity to take place and therefore state laws would have to be changed.

**Figure 12: Business Owner Challenges in Being Part of a Transportation Reservation System**

**Challenges Mentioned by Business Owners**

- Coordinating schedules/vehicle availability/cancellations: 28
- Liability/insurance: 14
- Worth the $?/pricing: 12
- Regulations/restrictions: 10
- Compromises my client’s experience: 6
- No issues: 3
- Time doing it: 3
- Time of year: 2
- Only a few seats filled: 2
- Vehicle maintenance: 2
- Park fees: 1
- Low volume: 1
Public Transportation along the Top 10 Scenic Drives

Other than the tourism and recreation business owner supply inventory, we attempted to get an inventory of additional existing public transportation within the Top 10 Scenic Drive regions. Idaho has six charter/tour bus companies listed, Montana has seven charter/tour bus companies listed and Wyoming has nine charter/tour companies listed (See Appendix A for listings with website addresses). When looking at other types of transportation, e.g. ride share or carpool options, it quickly became apparent that Idaho is the leader in public transportation offerings among the three states (ID, MT, WY). With that said, there are opportunities for ride sharing through a number of national online sites. An individual can input a beginning zip code and an ending zip code and the system will attempt to connect the person with someone else also going that direction. Usually these are long-haul trips and haven't been used much for shorter trips. These services can be found at:

http://www.ridebuzz.org
http://www.carpoolworld.com
http://www.rideshareonline.com/
http://www.ridester.com

Ride shares within the three main states of the Top 10 Scenic Drives are provided below.

Idaho:  http://findmydahoride.org/
Idaho has developed a ride share system online that allows individuals to contact a transportation service for a ride in towns, between towns, or to other states within the system. Many of the routes bring people to medical facilities, but bus services are also available. My Idaho Ride helps people identify their best options to fit their travel needs. To find a transportation provider, individuals go on line and simply search by city, identify any special travel needs, or just zoom in on the map to their starting location. Much of the service provides disabled American Veterans a ride to the medical services they need by using volunteer drivers.

Montana:  http://www.ridesharemtd.com/
Bozeman and Billings – A partnership between the Western Transportation Institute at Montana State University and the Human Resource Development Council District IX (HRDC) in Bozeman provides a system to find rides with others with the same destination.
Missoula Ravalli Transportation Management Association – The ‘i ride’ vanpool currently has 18 routes serving Missoula, Ravalli, Lake and Mineral county. Routes are designed to accommodate the riders and can change from day to day. http://www.mrtma.org/iride-vanpool.html

Wyoming:
Jackson - http://startbus.com/  Southern Teton Area Rapid Transit (START Bus or START) is the public transportation system that serves the residents and visitors of Teton County, Wyoming. START Bus runs routes within the town of Jackson, between Jackson and Teton Village as well as commuter routes from Star Valley, WY and Teton County, ID.
Section 4 – Summary, Conclusions, Challenges, Implementation

Summarizing the volume of data and responses to the various surveys was not an easy task. The following summary table brings all the most important data into a one-page review. Overall, this report found the populations within the three byway regions have grown anywhere from 29% to 42% since 1990, resulting in slightly more than 1 million residents spread fairly evenly among the regions. Like the U.S., the median age is increasing, but these three regions tend to have a slightly older population than the country as a whole. While tourism numbers are not counted for each of these byway regions, the tri-states of ID, MT, and WY together claim 33.7 million visitors. It is unknown how many of those visitors are counted in more than one state, but the overall trend is that visitation to the states could be as high as 10 times the state population. These travelers are more likely to visit the three byway regions since these regions are some of the most scenic areas in each of the states. Much of that visitation is confirmed with the estimate of 9.4 million national park visits on average per year and the 9.4 million national forest visits within the byway regions on average per year as well. It is unknown how many of those park and forest visits represent residents, but with such a small population base, it is clear the nonresident visitation is a big influence to the byway regions.

In estimating demand for public transportation to recreation sites along the nine scenic byways, it was discovered that only 18% of resident respondents had not needed any public type of transportation for recreation in their lifetime, which is significantly different than the 34% of nonresident respondents who indicated they had not needed this same service for recreation access. This shows that residents have had a higher need than nonresidents for public transportation to recreation sites, perhaps due to the outdoor recreation available out their back door. Only 34% of residents and 35% of nonresidents indicated they are willing to use a shuttle vehicle, and of those respondents, residents are far less willing to pay for a shuttle system (57% compared to 70% of nonresidents). Hiking, rafting, fishing and skiing are the top activities in which residents and nonresidents could use a shuttle system. The highest priority area for shuttles consists of the three main national parks in the tri-state region: Yellowstone, Grand Teton, and Glacier. Other areas were also mentioned, but at a much lower level of need. Finally, 79% of tourism and recreation business owners will get requests for public transportation. These include rides to national parks or recreation areas (19%), rides to river access points (15%), rides to trailheads (14%), and rides within national parks or recreation areas (10%). While these are not high numbers, it does indicate a need for transportation to recreation access points.

While the demand is there for transportation to recreation sites, supply is also available, but with caveats. About one third of the businesses in this study indicated they own vehicles for transport and about one third of those are willing to consider taking people other than their own clients/customers to the airport or recreation access points. Only 30% of the business owners indicated they would be willing to be a part of a transportation reservation system. The biggest concerns about transporting non-clients were scheduling, liability and return on investment for the business owners with vehicles. An analysis of charter bus companies in the tri-state area shows about 21 different charter companies with a variety of bus sizes. This could be a simple market to tap into if the fees were reasonable for the consumer and the return on investment of the business owner was acceptable. Finally, the transportation reservation system already working in Idaho could be used as a template for a tri-state system. The website www.findmyidahoride.org has a simple and easy way for people to catch rides which could be used for more than medical and other necessity purposes. The summary table for trends, demand and supply is provided next.

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### Trend Summary

<table>
<thead>
<tr>
<th></th>
<th>Greater Yellowstone</th>
<th>Central ID/Hells Canyon</th>
<th>MT/ID Panhandle</th>
<th>3-region Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population growth</td>
<td>+41.8% to 322,014</td>
<td>+28.7% to 319,761</td>
<td>+39.8% to 393,761</td>
<td>1,035,536</td>
</tr>
<tr>
<td>Median age</td>
<td>38 - 42 years old</td>
<td>40 - 44 years old</td>
<td>37 - 41 years old</td>
<td>37-44 yrs. old</td>
</tr>
<tr>
<td>Tourism numbers</td>
<td>WY = 9,100,000 (res. &amp; nonres.)</td>
<td>ID = -13,500,000 (res. &amp; nonres.)</td>
<td>MT - 11,000,000 (nonresidents)</td>
<td>33,700,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Airports Deboardings Avgs/yr</td>
<td>1,109,167</td>
<td>1,843,569</td>
<td>3,504,376</td>
<td>6,340,558</td>
</tr>
<tr>
<td>Highway traffic Avg./yr.</td>
<td>9,689,959</td>
<td>4,315,927</td>
<td>14,184,934</td>
<td>28,190,820</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 yr. avg. NPS Visitation</td>
<td>3 NPS sites = 6,900,000/yr.</td>
<td>2 NPS sites = 500,000/yr.</td>
<td>1 NPS site = 2,000,000/yr.</td>
<td>9,400,000</td>
</tr>
<tr>
<td>1 yr. national forest visits</td>
<td>2 NF units = 2,800,000/yr.</td>
<td>7 NF units = 3,800,000/yr.</td>
<td>5 NF units = 3,760,000/yr.</td>
<td>10,360,000</td>
</tr>
</tbody>
</table>

### Demand Survey Summary - Residents & Visitors

#### Percent who have used some form of transport during their lifetime (% who answered “yes” to needing transportation in 0 to 6 of the situations described)

<table>
<thead>
<tr>
<th></th>
<th>Resident n</th>
<th>Residence %</th>
<th>Nonresident n</th>
<th>Residence %</th>
</tr>
</thead>
<tbody>
<tr>
<td>no transportation needs</td>
<td>119</td>
<td>18%</td>
<td>438</td>
<td>34%</td>
</tr>
<tr>
<td>1 transportation need</td>
<td>149</td>
<td>23%</td>
<td>295</td>
<td>23%</td>
</tr>
<tr>
<td>2 transportation needs</td>
<td>140</td>
<td>21%</td>
<td>220</td>
<td>17%</td>
</tr>
<tr>
<td>3 transportation needs</td>
<td>112</td>
<td>17%</td>
<td>184</td>
<td>14%</td>
</tr>
<tr>
<td>4 transportation needs</td>
<td>72</td>
<td>11%</td>
<td>95</td>
<td>7%</td>
</tr>
<tr>
<td>5 transportation needs</td>
<td>39</td>
<td>6%</td>
<td>54</td>
<td>4%</td>
</tr>
<tr>
<td>6 transportation needs</td>
<td>23</td>
<td>4%</td>
<td>11</td>
<td>1%</td>
</tr>
<tr>
<td>Total</td>
<td>654</td>
<td>100%</td>
<td>1297</td>
<td>100%</td>
</tr>
</tbody>
</table>

#### % willing to use shuttle vehicles
- Resident: 34%
- Nonresident: 35%

#### % willing to pay for transport to recreation sites
- Resident: 57%
- Nonresident: 70%

#### Top sites recreationist could use transport system
- Resident: 39% national parks (Yellowstone, Glacier, Tetons)

#### Type of activities for their transportation needs
- Resident: Hiking, rafting, fishing, skiing

### Demand Survey Summary - Business Owners

#### % of business owners who get public transport inquiries sometimes to many times
- Resident: 79%

#### Inquiries related to recreation access
- 19% (ride to/from national park or rec. area)
- 15% (ride to/from river access point)
- 14% (ride to/from trailhead)
- 10% (ride within national park or rec area)

### Supply Summary

#### # of respondent business owners with transport vehicles; mean number of vehicles owned
- Resident: 162 with vehicles; 3.5 avg. # of vehicles (range =1 to 1,000)

#### % of business who would take other people to the airport
- Resident: 32%

#### % of business who would take others to trailhead/river
- Resident: 39%

#### % of business who have interest in tri-state transport reservation system
- Resident: 30%

#### % of business who would pick up others along their route to a recreation access site
- Resident: 25%

#### Business concerns
- Scheduling, vehicle availability, liability, ROI

#### Charter bus business in tri-states
- Resident: 9 in WY; 7 in MT; 6 in WY
Implementation of this concept of public transportation to recreation access sites would require further attempts to identify interested parties. Within this study, 51 business owners provided their names and contact information to be called in regards to establishing the transportation system (see "Buses for Byways Data Document" for listing of interested business owners). These owners included 14 from the Central ID/Hells Canyon Region, 16 from the Greater Yellowstone Region and 21 from the MT/ID Panhandle region. While these are not large numbers, it presents an opportunity for making the next step in implementation. These self-identified business owners could become the market leaders within their region if the reservation system was set up and marketed well to both residents and nonresidents.

Section 4.1 – Regional Byway Specific Opportunities and Gaps

As shown in Figure 13, the MT/ID Panhandle region has the larger number of respondents who currently provide transportation.

Figure 13: Regional comparison of the number of business owners with transportation availability
This is followed by the Greater Yellowstone Region and then the Central Idaho/Hells Canyon Region. The greatest numbers of interested business owners are located in the MT/ID Panhandle region. Since the state of Idaho is already leading the tri-states in the development of a transportation network system, and each one of these three byway regions is located partially or fully in Idaho, it is recommended that the Community Transportation Association of Idaho (CTAI) or another regional transportation organization that has or could easily garner relationships in Idaho, Montana, and Wyoming (and possibly Washington and Oregon) be pursued as a starting point for transportation to recreation access points. It might be useful to start first with the current reservation system developed by CTAI, or the Linx Co-op reservation and ticketing system as the test case. While it might be necessary to change the web address of the reservation system used to something that would encourage use by people in all three states as well as all nonresidents of the three states, that could happen over time and not immediately.

The next step would be to look at the Greater Yellowstone Region. The data showed that Yellowstone and the Tetons were high on the list for recreation access demand by residents and visitors. Unlike Glacier National Park with a shuttle system currently in place for travel along the Going-to-the-Sun Road, Yellowstone has only tried Linx as a transportation option in and to the park. While the Linx system was not as successful as originally conceived and there was a dependency on grant dollars to make it happen, the final ridership numbers after the three-year pilot program showed that ridership increased 219% (754 riders in 2011 to 2,409 riders in 2013). The final Linx report suggested more marketing of the transportation system, allow for buses to stay overnight in the park to reduce mileage, work more with Xanterra on the bus system, allow ticket sales to occur on the bus, and look into interpretive guiding en-route, to name a few recommendations. The apparent lack of success for Linx could also be attributed to the inability of Linx to shuttle people between trailheads or river access points on a multiple-times-per day system. It only stopped at set sites within developed areas of the park and gateway communities. It is recommended to look at the successes and challenges the Glacier National Park shuttle system has had in transporting recreationists within the park system as a starting point for a Yellowstone specific shuttle system. Of course Glacier does not use current business owners in the shuttle system, so a Yellowstone shuttle might be able to operate quite differently by utilizing the current and potential business owners from gateway communities. Finally, it is recommended that any public transportation system developed in this region strives to carry people from the hub airports (Bozeman, Billings, Cody, and Jackson Hole) into Yellowstone National Park. Access within the park is only one solution. Access to and within Yellowstone answers a full complement of transportation needs.

If a transportation system is to be built in the region, a combination of the successes of the “findmyidahoride.org” and the Linx system should be studied and built upon. For instance, the on-line reservation and ticketing system is already built for Linx and could be expanded. The number of suppliers in Idaho is established and could be used as a starting point for implementation.

This study was conducted at the regional level with each region consisting of three separate byways apiece. Not enough data was available for an independent analysis of each of the nine byways leaving a gap in knowledge for specific byways. The demand appears to exist on each byway, but this gap in data does not encourage confidence in the transportation development feasibility across the nine byways. In addition,
there is a gap in the full number of possible suppliers. While the on-line survey was able to tap into the supply side of tourism and recreation business owners, it is not an exhaustive list. This also includes the need to know if any of these suppliers would have the capability and be willing to carry or trailer rafts, canoes, kayaks, or bicycles. One of the top activities respondents wanted a transportation system for was rafting. Finally, there is a gap in knowledge of the fee recreationists would be willing to pay for the convenience of being dropped off or picked up at various trailheads or river access sites. This goes along with the acceptable rate of pay a business owner needs to provide the service.

Section 4.2 – Future Directions and Implementation Steps
The idea of public transportation to and from recreation access points in Idaho, Montana, and Wyoming utilizing existing business owners and their vehicles is an incredible vision, and with hard work it has potential for success. The data gathered for this study appears to support the public transportation idea. This concept plan is provided more for the feasibility of the system rather than the intricate details needed to make the system work. However, within this concept plan are the following steps suggested for testing and implementing the Buses for Byways system.

Implementation Steps
The steps for implementation are outlined in numerical order but could easily be switched around as needed. These steps are a foundation for the success of a tri-state public transportation reservation system.

1. Someone will need to be the champion of this effort. Without an individual and an organization to support the efforts to move it forward, this idea will not be successful. Whoever takes the lead in implementation would need to start cautiously and build the system incrementally. Suggested lead organizations could include, but are not limited to:
   a. Community Transportation Association of Idaho (CTAI).
   b. Linx – a coop of public transportation providers in the Greater Yellowstone Area.
   c. Sustainable Business Council, Missoula, MT.
   d. Western Transportation Institute, Montana State University, Bozeman, MT.
   e. Offices of Economic Development in Idaho (Boise, Sandpoint, Lewiston, Coeur d’Alene, Idaho Falls), Washington (Spokane), Montana (Missoula, Kalispell, Bozeman, Billings, Red Lodge), and Wyoming (Jackson, Cody).
   f. Xanterra Parks and Resorts – Yellowstone and Glacier National Parks Concessionaire.
   g. University of Idaho and University of Montana faculty within Resource Recreation and Tourism or the Parks, Tourism and Recreation Management programs.
   h. Idaho Outfitters and Guides Association, MT Outfitters and Guides Association, WY Outfitters and Guides Association, Fishing Outfitters Association of Montana, Montana Ski Area's Association, Idaho Ski Area Association

2. Distribute this report to all the business owners who indicated interest in the concept. Follow up with a phone discussion to pinpoint their degree of interest. Establish a task force of interested business owners and the lead organization to discuss all the challenges and barriers that could interfere with success. This provides a template of steps to follow for implementation.
3. Review transportation regulations in all the states involved in this concept. If laws prohibit this concept in any one of the states, this will need to be addressed. If one state’s laws are more amenable to this type of public transportation, it is recommended to begin the concept in that state or states while a bill is being written and submitted to the state where changes are needed in the law.

4. Establish a relationship with the Community Transportation Association of Idaho. This group is already involved in transportation topics with rideshare, advocating for public transportation, and other sustainable options. They are responsible for the website and implementation of find-my-Idaho-ride which should be used as the template or as the system that buses for byways could use for recreation related ride opportunities. Idaho is the leader in this concept and could move the entire tri-state area into a well-organized and run public transportation system.

5. Conduct a thorough inventory of willing business owners in the tri-state area. In this study various members of outfitter and guide associations, the hotel/motel associations, and ski resorts showed interest. A more thorough explanation with real scenarios provided to these business owner would help them decide if they could participate in this transportation system model.

6. Focus on one byway area to implement, test, and redesign the transportation system. Polish this one area first before moving forward to other byways. Key details in the implementation will be the establishment of pick-up and drop-off sites amenable to the transportation provider. In Idaho, park-and-ride lots and pullouts are already available, but other states do not have these as an option.

7. Marketing the concept and getting people to engage from the consumer side is one of the biggest challenges. For success with nonresident customers, establish a relationship with each state tourism office, regional tourism offices, and convention and visitor bureaus. For success with locals, establish relationships with recreation clubs/associations in the byway regions. These include biking, running, rafting, kayaking, hiking, geocaching, climbing, mountain biking, XC skiing, alpine skiing/snowboarding, walking, birding, and others not even thought about. These are the people who are involved in activities in which buses for byways is interested in promoting.

For a public transportation reservation system to work in this tri-state area, vehicles will need to be available (supply) so when a recreationist (demand) is looking for a ride, it is obtainable. It will only take a few failed attempts by recreationists to give up on using the public transportation option. It will take many years to establish a complete transportation system from the supply side and many years to get recreationists and visitors to think of this system as their go-to option for a ride to a trailhead, river access, national park, or other recreation area. Once established, this should be a mutually beneficial system for all parties involved: business owners, residents and nonresidents. This could be the future for accessing outdoor recreation points of interest through a sustainable manner.
Section 5 – Appendices

Appendix A: Charter bus service by state
Appendix B: Inquiry Tally
Appendix C: Foreign Tour Operator Perception of Demand Survey
Appendix D: Visitor and Resident Demand Survey
Appendix E: Business Owner Demand and Supply Survey
## Appendix A: Charter bus service by state

<table>
<thead>
<tr>
<th>State</th>
<th>Contact info</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wyoming</strong></td>
<td></td>
</tr>
<tr>
<td>Sublink Stage</td>
<td>(307)367-7433; Pinedale</td>
</tr>
<tr>
<td>Callowishus Park Tourism Company</td>
<td><a href="http://www.callowishus.com">www.callowishus.com</a></td>
</tr>
<tr>
<td><strong>Montana</strong></td>
<td></td>
</tr>
<tr>
<td>Beach Transportation</td>
<td><a href="http://www.beachtrans.com/">http://www.beachtrans.com/</a></td>
</tr>
<tr>
<td>Total Transportation</td>
<td><a href="http://www.mttotaltransportation.com/bus_tours.htm">http://www.mttotaltransportation.com/bus_tours.htm</a></td>
</tr>
<tr>
<td><strong>Idaho</strong></td>
<td></td>
</tr>
<tr>
<td>Sun Valley Express</td>
<td><a href="http://secure.sunvalleyexpress.com/">http://secure.sunvalleyexpress.com/</a></td>
</tr>
<tr>
<td>Sawtooth Transportation</td>
<td><a href="http://www.sawtoothtrans.com/">http://www.sawtoothtrans.com/</a></td>
</tr>
</tbody>
</table>
Appendix B: Inquiry Tally

Methods: Between May and September 2013, Visitor Centers, state tourism offices, and other tourism organizations recorded the number of times someone called their office and asked about public transportation.

Visitor Inquiry Tally Sheet

The Yellowstone Business Partnership, Top 10 Scenic Drives and the U.S. Federal Highway Administration are conducting a study about public transportation needs to recreation access points such as trailheads, river access points for fishing and boating, etc. The purpose of this Tally Sheet is to help determine the demand by visitors and residents for public and private transportation to recreation access points.

INSTRUCTIONS:
• Place a tic mark for every visitor or resident who asks about transportation to a recreation access point.
• During the 1st week of each a month, scan the document and attach it in an email to Yellowstone Business Partnership, c/o [enter your name] to this email: [enter your email address]
• If unable to scan & email, please mail the paper copy to: [enter your name and mailing address]
• Question? Call [enter your phone #] or send me an email [enter your email address]

<table>
<thead>
<tr>
<th>Month: November 2013</th>
<th>Inquiries about Transit (Place Tic mark in this column)</th>
<th>Total Daily Inquiries (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day: 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of your Organization: ______________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Today’s Date: (xx/xx/xxxx) : __________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Which month does this data represent? ____________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Number of Inquiries about Transit: __________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total number of inquiries (calls/walk-ins) for the month: __________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initials of Employee __________</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Appendix C: Foreign Tour Operator Perception of Demand Survey

**Methods:** Rocky Mountain International, who coordinates the international tourism activities for the state tourism departments of Idaho, Montana, South Dakota, Wyoming, and North Dakota, sent a link to the ITRR survey below to five of their promotion offices in Europe. These offices responded based on their perception of international travelers to Montana, Idaho, and Wyoming.

**Perception of Demand Survey**

Thank you for your willingness to answer a few questions regarding international travel to the Rocky Mountain Region of the United States. The Institute for Tourism and Recreation Research at the University of Montana is involved in a project looking at public transportation needs of visitors to Wyoming, Idaho, and/or Montana. International visitors are part of our study population and your knowledge about their needs is very valuable to this study.

1. To the best of your ability, please estimate how many people within a year inquire about using public transportation while visiting Wyoming, Idaho and/or Montana? ____________
   1a. What percent is this of all your Wyoming, Idaho and/or Montana inquiries ________ %

2. Please describe the questions your clients have regarding transportation within Wyoming, Idaho, and/or Montana.

3. One type of public transportation being discussed in the Wyoming, Idaho, and Montana region is for travel to various hiking trails, river access points, and other outdoor recreation areas.

   How likely are your clients to use public transportation to reach these areas? (circle only one)
   - Not at all likely
   - Somewhat likely
   - Likely
   - Very likely

4. From your perspective, how interested are your clients in driving designated scenic byways in Wyoming, Idaho, and/or Montana?

   - Not at all interested
   - Somewhat interested
   - Interested
   - Very interested

5. What best describes your affiliation? (circle only one)

   - RMI office
   - Tour Operator

6. Please add any comments related to your clients and public transportation needs in the Wyoming, Idaho and/or Montana region.
Appendix D: Visitor and Resident Demand Survey

**Methods:** An on-line survey link was sent to ITRR panel members, Dept. of Tourism newsletter recipients in WY and ID, Geotourism newsletter recipients (Greater Yellowstone and Crown of the Continent), and Friends of the Beartooth newsletter recipients. The ITRR panel has ~3,000 active survey respondents from around the world. It received about a 30% response rate. The total number of people this link was sent to from the tourism offices and newsletters is unknown. 1,951 responses were obtained.

Thank you for taking 5 minutes of your time to answer these questions about recreation access. In this survey, you will be asked about outdoor recreation and transportation to and from recreation access points. This is an opportunity for you to tell us more about yourself and your recreation travel preferences.

In which country do you reside?

In what U.S. state do you reside?

In which Montana county do you currently live?

In which Wyoming county do you currently live?

In which Idaho county do you currently live?

In which Canadian province do you reside?

Have you ever vacationed in the United States in your adult life? Yes  No

In which of the following outdoor recreation activities do you participate? (check all that apply)

1. Day hiking
2. Backpacking
3. Developed camping
4. Primitive camping
5. River rafting/kayaking/paddle boarding
6. River rafting/kayaking/paddle boarding
7. Geocaching
8. Birding
9. Scenic driving/sightseeing
10. Fishing
11. XC skiing or snowshoeing
12. Downhill skiing/boarding
13. Backcountry skiing/boarding
14. None of these activities
15. Other

The purpose of the following questions is to help determine if there is a demand or need for public transportation services between trail heads, river put-ins, and other recreation access points. Please think of this as you are answering the following questions.

Have you ever taken public transportation in the U.S. to get to outdoor recreation access points? Yes  No

Have you ever not participated in an outdoor recreation activity in the U.S. because you lacked transportation to or from the recreation access point? Yes  No

Have you ever changed your outdoor recreation plans in the U.S. because you lacked transportation to or from the recreation access point (either there or back)? Yes  No

Have you ever had to drive two vehicles to make your recreation activity feasible (e.g. one for each end of the trail for instance)? Yes  No

Have you ever had to hitchhike to or from a trail/river access while recreating in the U.S. (e.g. a personal vehicle was left at one end)? Yes  No

In the U.S., have you ever paid anyone to move your vehicle from one recreation access point to another? (e.g. this could be someone moving your car to your destination trail head or down the river to another launch/take out spot). Yes  No

In which of the following three states have you vacationed/recreated during your adult life? (check all that apply)

1. Day hiking
2. Backpacking
3. Developed camping
4. Primitive camping
5. River inner-tubing
6. River rafting/kayaking/paddle boarding
7. Geocaching
8. Birding
9. Scenic driving/sightseeing
10. Fishing
11. XC skiing or snowshoeing
12. Downhill skiing/boarding
13. Backcountry skiing/boarding
14. None of these activities
15. Other
In which of the following three states do you hope to vacation/recreate during the next five years? (check all that apply)?

Idaho Montana Wyoming None of these

What methods of transportation would you consider using for recreation access while vacationing/recreating in any of these three states: Idaho, Montana, or Wyoming? (check all that apply)

1. My personal vehicle
2. Rental vehicle
3. Long-haul bus/inter-city bus
4. Charter/tour bus
5. Shuttle vehicles
6. Snowmobile shuttle
7. Other public transit (city buses, vans, etc.)
8. Charter flight
9. Other

For a small fee, how likely is it that you would use a transportation service to be driven to or from a recreation access point (e.g. trailhead/river put-in/ski area) in Idaho, Montana, and/or Wyoming?

Not at all likely Unlikely Somewhat unlikely Somewhat likely Likely Very likely

Please give an example of where in Idaho, Montana and/or Wyoming you would use (or could have used) a transportation service for recreation access. What is the recreation activity you are referencing? __________________________________________

Now we would like to know a little more about you.

When you travel and recreate, how likely are you to visit the following...?

<table>
<thead>
<tr>
<th>Historic sites</th>
<th>Not at all likely</th>
<th>Unlikely</th>
<th>Somewhat unlikely</th>
<th>Somewhat likely</th>
<th>Likely</th>
<th>Very likely</th>
</tr>
</thead>
<tbody>
<tr>
<td>Museums</td>
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<td></td>
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</tr>
<tr>
<td>Other public lands</td>
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</tbody>
</table>

When you travel and recreate, how likely are you to...?

<table>
<thead>
<tr>
<th>Specifically travel to an area for scenic beauty</th>
<th>Not at all likely</th>
<th>Unlikely</th>
<th>Somewhat unlikely</th>
<th>Somewhat likely</th>
<th>Likely</th>
<th>Very Likely</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop at scenic overlooks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Search for scenic driving routes</td>
<td></td>
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<td></td>
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<tr>
<td>Plan your vacation around the opportunity to enjoy scenic beauty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Participate in outdoor recreation activities</td>
<td></td>
<td></td>
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</tbody>
</table>

48
When you travel and recreate, how likely are you to...?

<table>
<thead>
<tr>
<th>Activity</th>
<th>Not at all likely</th>
<th>Unlikely</th>
<th>Somewhat unlikely</th>
<th>Somewhat likely</th>
<th>Likely</th>
<th>Very likely</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seek out locally grown food</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Seek out locally made arts and crafts</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Recycle</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Choose a form of transportation other than your personal automobile</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Conserve water</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Conserve energy</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Purchase environmentally friendly products</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
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</tbody>
</table>

What is your gender?  Male  Female

What is your highest completed level of education?
1. Some high school
2. High school diploma or equivalent
3. Some college
4. Associates degree
5. Bachelors degree
6. Masters degree
7. Doctorate
8. Professional degree

What best describes your annual household income in US dollars?
1. Less than $25,000
2. $25K to less than $50K
3. $50K to less than $75K
4. $75K to less than $100K
5. $100K to less than $150K
6. $150K to less than $200K
7. $200K or greater

What is your age? 49
Appendix E: Business Owner Demand and Supply Survey

Methods: An on-line survey link was sent to Tourism and Recreation Business owners in MT, ID, and the Greater Yellowstone region of Wyoming. The team leaders in each region were responsible for sending the survey link to business owners in their region. The number of business owners who were sent the link is unknown, therefore a response rate is not calculated. 683 business owners responded to the survey.

Hello: This study is to assess your perception of the demand for public transportation to recreation access points and to determine the number of tourism-related businesses that may wish to add or expand transportation services as a business component. The survey is being sent to tourism businesses in the tri-state area of Montana, Idaho, and Wyoming. This survey should take approximately 5 minutes to complete. It is voluntary and you may choose to stop the survey at any point. Your responses will be kept confidential. By clicking “next” below I provide consent and acknowledge my rights as a voluntary research participant. I also acknowledge there is minimal risk to me in completing this survey. If you have questions regarding this study, please contact Norma Niekerson, Director, Institute for Tourism and Recreation Research (ITRR), at the University of Montana, norma.nickerson@umontana.edu, 406-243-2328 OR Christine Osehell, Assistant Director, christine.oschell@umontana.edu, 406-243-6454.

Indicate which of the following best describes your business. (please check only one)

1. Outfitter or Guide
2. Hotel/motel
3. Guest Ranch
4. Campground
5. Ski resort
6. Other type of resort or lodge
7. Transportation provider
8. Outdoor equipment retailer
9. Community recreation organization
10. NPS concessionaire
11. Tour guide or operator
12. Other

In which state is your business located? Wyoming Idaho Montana Washington Oregon

In which town is your business located (or nearest to)? _____________________________

How often do your guests or employees inquire about public transportation or shuttle opportunities around the area?

Never Occasionally Often All the time

What type of transportation do people inquire about or need? (check all that apply)

1. A ride to/from the airport
2. A ride to/from a trailhead
3. A ride to/from a river access point
4. A ride within your community
5. A ride to/from one community to another
6. A ride to/from a national park or recreation area
7. A ride within a national park or recreation area
8. A tour of the area
9. Other
10. Other

Does your business own vehicles to shuttle/transport customers during their time with you? Yes No

What is the nature of that transportation? (check all that apply)

1. Airport shuttling
2. Scenic tours
3. Other tours, e.g. ecological, wildlife, photography
4. Transport to trailheads
5. Transport to river access
6. Transport within the community
7. Transport to other communities
8. Other
This study is looking "outside the box" for public transportation prospects. Since your business may have the ability to transport guests, there might be additional business opportunities for you to investigate. Please respond to the following scenarios.

**Scenario #1:**
Your business has a van/bus currently used for airport runs. Four of the seven seats are filled with your guests. For a fee and with an advance reservation, would you be willing to take other people to the airport?

Yes No Maybe

**Scenario #2**
Your van is not fully utilized during the day. For a fee and with an advance reservation, would you be willing to shuttle interested parties to a trailhead or river access point?

Yes No Maybe

**Scenario #3**
An online tri-state reservation system currently exists where your business can market its independent transportation services for access to recreation sites and/or nearby communities and airports. This website can handle reservations for both fixed route and on-demand services where your business dictates the destinations and times. Would you be interested in exploring this business opportunity?

Yes No Maybe

**Scenario #4**
You are shuttling your guests or others to a recreation access point. Would you be willing to pick up additional guests along the way who have reserved and paid for a seat on the tri-state reservation system?

Yes No Maybe

If such an online reservation system were available in your area, how interested would you be in having your transportation service operate as part of a regional transportation network?

Not at all interested Somewhat interested Very interested

What challenges (if any) came to your mind when you responded to the previous four scenarios?

**The final three questions are related to the supply of transportation that currently exists in the tri-state area.**

How many vehicles do you have that can transport people? ________________

Approximately how many total seats are in those vehicles? ________________

Please provide your name, address, email and phone number if you are interested in being contacted in the future about this public transportation system. ________________________

Thank you for your time! Please provide any additional comments regarding public transportation in the tri-state area.
**Appendix F: Linx Transportation Inquiries**

The following list of inquiries was gathered by the Linx Transportation organization after the end of the pilot study offering transportation to and within Yellowstone National Park.

<table>
<thead>
<tr>
<th>2013</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>October</td>
<td>November</td>
<td>December</td>
</tr>
<tr>
<td></td>
<td>Total</td>
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</tr>
<tr>
<td></td>
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<td>69</td>
<td>71</td>
</tr>
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<tr>
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<td>Jackson Gate</td>
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<tr>
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<td>6</td>
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<tr>
<td>Bozeman</td>
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<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Charters</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Refferals</td>
<td>9</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Other</td>
<td>4</td>
<td>10</td>
<td>4</td>
</tr>
</tbody>
</table>

**Comments**

- Many questions asking about when park closes & already asking about 2014 schedules.
- Travel agents both USA AND RMI asking about rates and schedules for 2014.
- Hikers asking about connections both this year and next.
- Mainly park info and requests for 2014 schedules.
### 2014

<table>
<thead>
<tr>
<th>Month</th>
<th>Total calls/e-mails</th>
<th>Total</th>
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<tbody>
<tr>
<td>January</td>
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<td>102</td>
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<tr>
<td></td>
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<td></td>
<td>Cody Gate</td>
<td>4</td>
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<tr>
<td></td>
<td>Jackson Gate</td>
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<td></td>
<td>West Yellowstone Gate</td>
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<td></td>
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<td>2</td>
</tr>
<tr>
<td></td>
<td>Bozeman</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Charters</td>
<td>1</td>
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<tr>
<td></td>
<td>Refferals</td>
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</tr>
<tr>
<td></td>
<td>Other</td>
<td>8</td>
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<tr>
<td></td>
<td><strong>Comments</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6-7 hikers looking for drop off pickups in YNP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 RMI people looking for general info on transportation</td>
<td></td>
</tr>
<tr>
<td>February</td>
<td></td>
<td>100</td>
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<tr>
<td></td>
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<td></td>
<td>West Yellowstone Gate</td>
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<td>16</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td><strong>Comments</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chambers asking for an update</td>
<td></td>
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<tr>
<td></td>
<td>Rivers asking for service points</td>
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<td>March</td>
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<td>Refferals</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td><strong>Comments</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Linx members who offered the services.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Many Asian employees looking for our info and routes.</td>
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### April

<table>
<thead>
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<td>Bozeman</td>
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<td>Charters</td>
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<td>Refferals</td>
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<tr>
<td>Other</td>
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</tr>
</tbody>
</table>

**Comments**

- They have planned trips based on using public transport.
- 2 people asked who to contact about service being dropped.
- Coop idea worked for Linx passed it off to Jan and Arthur.

### May 1-16

<table>
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