

Montana Department of Transportation
Economic Development Policy Paper

Table of Contents



Executive Summary	E-1
I. Introduction.....	1
A. Background.....	1
B. Changes Since the Original TranPlan 21	2
II. Strategic Considerations and Trends and Their Implication for Transportation and Economic Development.....	4
A. Geography	4
B. Population Trends.....	8
C. Economic Trends Through the 1990s	13
D. Forecasts of Future Growth	20
III. Economic Development Issues.....	32
A. Issues Raised by the Public, Stakeholders, and Industry Representatives	32
B. Economic And Growth Issues Raised By Technical Analysis	34
IV. Policy Goals and Actions.....	36

Attachment A: Methods Used to Estimate Future Output of Commodity Industries

Attachment B: Status and Disposition of Original TranPlan 21 Goals and Actions

Executive Summary



This document presents the Executive Summary to the TranPlan21 2002 Update Economic Development Policy Paper.

A. Strategic Trends

1. Population

a. Trends

- Low population density.
- Low and uneven population growth.
- Population growth is concentrated in a few counties.
- Growth trends continue to favor western Montana.

b. Transportation Implications

- For most of the State, travel demand and population growth will not create congestion at the statewide or regional levels.
- Montana counties experiencing the bulk of the State's population growth will continue to experience reduced service levels on their arterial system.
- Aging population will increase the importance of public transportation, age-related safety provisions, and other strategies for meeting the needs of the elderly.
- In large parts of Montana, Montanans will have to drive further to access services.
- Montanans will be driving longer distances to work as businesses need to recruit over a larger geographic area.

2. Economic Trends

a. Trends

- Decreasing employment in forest products, farming, mining, and manufacturing.
- Increased productivity in basic industries.

- Services continue to be the growth sectors.
- Tourism and visitor industry will remain strong.
- Changes in the transportation sector reflect changes in Montana's population and economy.

3. Forecasts of Future Growth

a. Trends

- Population is forecast to grow at the national rate.
- Montana will continue to age faster than the U.S. as a whole.
- Population and employment growth will be concentrated in the most urban counties.
- Population continues to shift from east to west.
- Statewide employment is forecast to grow slowly, but employment and income from services will grow at a faster rate than the nation.
- Economic forecasts indicate growth in the value of bulk commodities to be shipped out of the State and an increase in manufactured products that are likely to be trucked or flown out of the State.
- Economic growth and potential for diversification is concentrated in the growing parts of Montana.
- Service industry growth will generate increased demand for air travel and increase traffic in parts of the State.
- The Port of Sweet Grass will continue to dominate Montana's international exports.

b. Transportation Implications

- The transportation system must continue to meet the needs for shipping high-volume, low-value commodities.
- Montana remains heavily dependent on rail for shipping bulk commodities.
- Economic diversification and service sector growth will increase demand for truck transportation.
- Intermodal package delivery is required by growth industries.
- Increased air travel will be required to deliver producer services and increased regional travel will be demanded to deliver and consume services.
- Reliability as opposed to journey time are key performance factors for just-in-time delivery.

B. Economic Development Issues

1. Issues Raised by the Public, Stakeholders, and Industry Representatives

a. MDT's Role

- Economic development should become a factor in MDT's transportation investment decisions.
- MDT needs to produce more detailed economic impacts and benefits studies.
- Montanans' top priorities for MDT's role in economic development are:
 - Improving commercial air service to Montana.
 - Funding projects to boost business relocation to Montana.
 - Maintaining or updating Montana's existing transportation system.
- In eastern Montana, some citizens desire to retain existing and promote new freight rail service to support the eastern Montana economy.
- Some citizens want two-lane highways to be expanded to four lanes to attract business.

b. Tourism

- MDT should give short-term consideration to accommodate visitors and residents during Lewis and Clark Bicentennial.
- Better directional signage would help tourism.
- Rest areas need to be open year-round and should offer more amenities, such as visitor information kiosks and Internet access.
- A scenic byway program promoting Montana's uniqueness could attract tourism and more funding.

2. Economic and Growth Issues Raised by Technical Analysis

- The greatest transportation barrier for economic development in much of Montana is distance to markets rather than a lack of infrastructure.
- Highway investments can best support economic development by improving system reliability.
- Montana's basic industries are heavily dependent on motor carrier and rail services on the existing transportation system.

- Montana has a strong policy interest in the preservation of rail services and the cost of these services.
- The modal implications of economic growth trends are increased importance of:
 - Package delivery and highway freight.
 - Air highway intermodal freight.
 - Air transportation service.
- Through planning, investment, and policy action Montana will need to ensure that new requirements for motor carriers, air transportation, and intermodal services are addressed.
- Growth will be concentrated in the most urban counties requiring corridor planning and management.

C. Policy Goals and Actions

The actions that MDT can take to support economic development are as follows:

- **Supportive actions.** These are actions to help retain the existing foundations of the economy by preserving the efficient operation of the current system.
- **Reactive actions.** These are actions that are demand-driven. They respond to new needs created by the ongoing economic transitions that Montana is experiencing.
- **Proactive actions.** These are actions that seek to maximize new economic opportunities. They involve investing in strategic improvements to the transportation system and supporting state and local economic development initiatives to generate economic diversification.
- **Informational actions.** These are actions that clarify and communicate what transportation investments can and cannot accomplish in support of economic development.
- **Institutional actions.** These are the organizational actions necessary for MDT to strengthen its capacity to support economic development.

The roles that MDT can take to support economic development fall into the following three categories:

- Investments in transportation infrastructure.
- Policy support and advocacy.
- Technical support, administration, and coordination.

The following policy goals and actions are considered for inclusion in the TranPlan 21 2002 Update:

POLICY GOAL A: Preserve the efficient functioning of the transportation system used by Montana's export-oriented ("basic") industries to access regional, national, and international markets.

Action A.1: Work with Montana industry and shippers on a continuing basis to identify infrastructure, regulatory, and administrative barriers to their efficient use of the transportation system. (Page 37)

Action A.2: Use input from A.1 and technical analysis to identify the freight mobility needs of Montana's basic industry on the segments of the state highway system where growth is forecast and specify strategies for addressing these needs. (Page 37)

Action A.3: Continue to provide state-level leadership and participate in regional initiatives to increase the productivity of the motor carrier industry. (Page 38)

Action A.4: Conduct quarterly meetings with rail industry representatives, monitor developments in the industry, and work with the industry where possible to preserve the existing rail system. (Page 38)

Action A.5: Update the state rail plan to identify potential highway and rail service impacts arising from structural change in the rail industry, and define governmental actions to address them that will support economic development. (Page 39)

Action A.6: Provide technical support to Montana communities and airport operators to preserve the federal Essential Air Service program in cooperation with the Governor's EAS Task Force. (Page 39)

POLICY GOAL B: Monitor and address capacity needs arising from Montana's economic growth trends.

Action B.1: Specify strategic economic development transportation linkages based on emerging travel demands and incorporating findings from the Highway Reconfiguration Study. (Page 40)

Action B.2: Identify and address deficiencies in the strategic transportation network. (Page 41)

Action B.3: Establish economic development as an evaluation consideration for prioritizing and scoping highway reconstruction projects. (Page 41)

POLICY GOAL C: Support state and local economic development initiatives to maximize new economic opportunities.

Action C.1: Support business retention, recruiting, and other related activities of the Governor's Office of Economic Opportunity. (Page 42)

Action C.2: Establish a transportation economic opportunities program to help fund roadway projects that support business attraction and retention efforts. (Page 43)

Action C.3: Coordinate with and provide support to local economic development initiatives. (Page 43)

Action C.4: Identify airport improvements and statewide aviation strategies that will support economic development as part of Montana's continuous statewide aviation planning process contingent of FAA funding and approval. (Page 44)

Action C.5: Provide state-level leadership to evaluate whether there are possibilities for reducing the cost and increasing the frequency and reliability for out-of-state air travel. (Page 44)

Action C.6: Participate in multi-state and regional initiatives that facilitate international trade by identifying and addressing bottlenecks in Montana. (Page 45)

POLICY GOAL D: Support the tourism industry through promoting access to recreational, historical, cultural, and scenic destinations.

Action D.1: Promote tourism through improved visitor rest areas and co-location of travel information centers. (Page 46)

Action D.2: Support state and local agencies to market tourist travel and tourist routes. (Page 46)

Action D.3: Coordinate with federal agencies, tribal governments, neighboring states, and Canadian provinces. (Page 47)

POLICY GOAL E: Develop MDT's organizational capacity to support economic development.

Action E.1: Strengthen MDT's capability to support economic development. (Page 47)

Action E.2: Communicate MDT's role in economic development, opportunities for Montana firms to do business with MDT, economic development performance objectives, and associated accomplishments. (Page 47)

Action E.3: Monitor and evaluate economic development-driven travel demands and assess the investments required to address them as part of the ongoing planning process. (Page 48)

Action E.4: Conduct outreach to representatives of mining industries in Montana. (Page 49)

Action E.5: Provide technical support and information so that economic development needs are considered in MPO planning, MDT corridor planning, and project development. (Page 49)

I. Introduction

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This policy paper describes the potential policy goals and actions that Montana Department of Transportation (MDT) could implement to support the development of Montana's economy. They will be considered for adoption as part of the 2002 TranPlan 21 Update process. This policy paper updates and replaces the Economic Development and Freight Mobility policy papers that were adopted in 1995 as part Montana's long-range multimodal transportation plan, TranPlan 21.

The policy paper is organized into the following sections:

II. Strategic Considerations and Trends and their Implication for Transportation and Economic Development. This section presents the result of a technical assessment of Montana's economic trends and their implications for MDT's role in transportation.

III. Economic Development Issues. This section lists the most important economic development issues for MDT to consider when planning, investing in, and operating elements of Montana's transportation system. These issues are identified through the technical analysis and a program of public and stakeholder input.

IV. Policy Goals and Actions. This section lists the potential range of actions that MDT could take to address issues raised by the technical analysis and stakeholder input.

A. Background

MDT's current plan supports economic development by recognizing that Montana's economy has long been dependent on agriculture and natural resources. The transportation system supports this economy by providing the infrastructure through which major commodities such as grains, livestock, lumber, natural gas, oil, coal, and copper are exported from the state. Over recent decades, the national and Montana economy has been changing with the introduction of new technologies and production methods, the establishment of small manufacturing industries, and both household and business demands for services.

In 1995, the initial TranPlan 21 recognized these trends, and observed that Montana faced significant transportation challenges that varied by region. For example, in western and southwestern Montana, demand for transportation services was growing to support the new service economy. Declining populations and slow economic trends in the eastern and north-central regions of Montana posed challenges to the State in maintaining the quality of the transportation system.

B. Changes Since the Original TranPlan 21

Findings in the original TranPlan 21 were based on trends in the early 1990s. Most apply today, but changes have occurred in the second half of the decade. Below are key extracts from the initial document that still apply, amended where appropriate:

- Montana's traditional economic base is not going away, and these industries will continue to generate demands for bulk transportation services. This remains true today, but it is important to note that demand and prices were uneven for some of the State's key mining resources. In addition, automated production processes have enabled Montana industries to maintain or increase output while reducing employment and wages. This maintains the importance of the transportation system for shipping commodities; however, it reduces employment and income in the regions of the State where these industries are dominant. This, in turn, reduces travel demand for both the highway system and for air transportation service.
- Trends suggested more value-added production from Montana's resource base, particularly important in wood products. This trend may lead to diverting a portion of rail demand for bulk commodities to truck demand for smaller-sized, but higher-valued goods. In the case of lumber, despite the emergence of the log-home industry in the Bitterroot Valley, there appears to have been limited increase in truck traffic of value-added wood products. This is mainly because all segments of Montana's wood products industry are declining. The past year saw production decline at most of the State's wood processing facilities. Production of lumber and plywood in Montana are at the lowest levels in the State since the mid-1980s. The estimated annual lumber production in 2001 is just over 1.1 million board feet, a 6 percent decline from 2000; and plywood production fell to an estimated 555 square feet in 2001, a 4.5 percent decline from the previous year. Accordingly, gross state product generated from lumber and wood products declined by 38 percent in real value between 1990 and 1999. However, growth in other types of value-added production such as specialty grains that require product identification will generate new travel demands.¹
- Though wood products was the largest manufacturing industry in Montana, the manufacturing sector appeared to be diversifying, led by the growing industries of petroleum and coal products, furniture and fixtures, instruments, and apparel. Trends through the 1990s reinforce this finding.
- Manufacturing was also decentralizing from urban to rural areas, indicating truck traffic volumes will increase on Montana's rural highways, particularly in the southern tier of the State, near metropolitan areas.
- Services grew rapidly in Montana from the mid-1970s to the early 1990s, even at times when Montana's traditional resource industries were stagnant. Services continued to grow through the 1990s.

¹ Sources: Bureau of Economic Analysis, U.S. Department of Commerce; and Montana Economic Outlook Seminar, 2002, University of Montana.

- Tourism to Montana grew from the mid-1980s and was expected to grow, though upswings and downswings were envisioned. Montana's visitors primarily come by car, leading to concerns about conditions of secondary roads and traffic volumes near key destinations. These trends continued from 1993 to 2001, the number of non-resident visitors to Montana has increased by 14 percent and expenditures have also increased by 14 percent in constant dollars.²
- Population was forecast to grow more rapidly in Montana's urban areas than the state as whole. Seven urban counties were identified in the initial TranPlan 21 (Cascade, Flathead, Gallatin, Lewis and Clark, Missoula, Silver Bow, and Yellowstone). Data from 2000 show that growth is prevalent in three of the counties: Flathead, Gallatin, and Missoula.

² Institute for Tourism and Recreation Research, University of Montana.

II. Strategic Considerations and Trends and Their Implication for Transportation and Economic Development

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In order to manage and develop a transportation system that supports the State's economy today and in the future, MDT needs to consider the State's geography, population, and economy. In the past, these three features have combined to produce an extensive transportation system in Montana oriented towards shipping bulk commodities by highway and rail to terminals and then out of state. The highway system developed to provide farm and ranch to market access. Geography, population, and economy remain key considerations in determining current and future transportation demands in Montana. Their implications for economic development are discussed in turn.

A. Geography

The following geographic realities are important considerations in determining how to support economic development through transportation in Montana:

- **Scale of the state**

Montana spans 147,046 square miles, making the State the fourth largest in the United States in overall size and land area (behind Alaska, Texas, and California).

- **Topography**

Montana's internal waterways cover 1,490 square miles, which is 26th among states. Montana's one percent ratio of water to land area is 40th among the 50 states. The average ratio of the 50 states is 7.1 percent. Compared to other states that are heavily dependent on the shipment of bulk commodities, MDT has no inland waterways that are used for shipping these commodities.

- **Distance from markets**

Montana's industry is a long distance from markets for commodities, products, and services. Commodities that originate in Montana are shipped an average of 711 miles per ton, nearly three times the United States average of 240 miles per ton of commodities. The average distances per ton of cargo originating in Idaho, North Dakota, and South Dakota are 317 miles, 319 miles, and 469 miles, respectively. Wyoming, however, transports its goods an average of 856 miles per ton.³

³ Source: 1997 Commodity Flow Survey, US Dept of Transportation and US Dept of Commerce

- **Location in low population region**

Montana has a relatively small economy, as do its neighboring states. Therefore, Montana businesses have smaller local and regional markets in which to sell goods and services than do their competitors. However, the neighboring Canadian provinces have larger populations and economies.

- **East-west orientation**

The transportation system in many parts of the State, most notably in eastern Montana, is oriented east–west. At the regional and national levels, Montana is a bridge state for motor carriers.

1. Transportation Implications

a. Competitive disadvantage due to distance from market

- Transporting goods to markets is more difficult and costly for businesses in Montana than those in other states, presenting a competitive disadvantage for the state.
- Continued and increased reliance upon air transportation services.

The “gap” between Montana and the rest of the nation, in the distance over which products are shipped, has grown between 1993 and 1997 from a differential above the national norm of 347 miles per ton in 1993 to 471 in 1997.⁴ As seen in Exhibit II–1, between 1993 and 1997, Montana saw the commodities it produces and ships increase by 16 percent, which is on par with the national rate of increase.

Exhibit II–1: Change in Miles per Ton of Shipments, 1993-1997

	1997 Tons Shipped	1997 Miles per Ton	Change 1993-1997	
			Tons Shipped	Miles per Ton
Montana	95,778	711	16%	19%
Idaho	47,764	317	3%	-22%
North Dakota	87,831	319	45%	7%
South Dakota	36,853	469	46%	92%
Wyoming	275,466	856	-6%	0%
U.S.	11,089,733	240	14%	-4%

Sources: 1993 and 1997 Commodity Flow Surveys, U.S. Department of Transportation and U.S. Department of Commerce. Calculations by EDR Group.

⁴ Sources: 1993 and 1997 Commodity Flow Surveys, US Dept of Transportation and US Dept of Commerce

An increase of miles per ton is not necessarily bad, as it could indicate national and international demand for products produced in-state, such as Gateway Computers shipped from South Dakota.⁵ (South Dakota's average miles per ton was 41 percent of Montana's average in 1993 and 66 percent in 1997.) When taken in context of a large state, such as Montana, and without a dynamic change in product mix (and demand) that affects shipment mileage, the data indicates that producers in Montana are faced with higher mileage for shipping than national competitors.

Shipping distances for seven of 17 selected commodities that originate in Montana are equivalent or less than the U.S. averages for those products. For the other 10 commodities, however, the distances are longer and most are significantly longer than the national average. Exhibit II-2 reviews these tons per mile shipped of these commodities.⁶

⁵Commodity Flow Surveys measure distances shipped within the United States. For exports, the CFS accounts for shipments to borders or ports.

⁶Data for commodities not included in this accounting are not reported in the Montana commodity flow survey because of: suppressions to avoid disclosing data of individual companies; 0 or less than a single unit of measure of a commodity in Montana; or a valid sample could not be obtained.

Exhibit II–2: Shipping Distances for Selected Commodities Originating in Montana

Selected Commodities	Tons Per Mile		Montana compared to U.S.	
	U.S.	Montana	Difference in Miles Per Ton (1)	Percent Montana/U.S. (2)
Base Metals	350	1191	841	340%
Cereal grains	410	690	281	169%
Other agricultural products	326	141	-186	43%
Chemicals	400	856	455	214%
Coal	446	950	504	213%
Coal and petroleum products	152	367	215	241%
Electronic and other electrical equipment and components, and office equipment	683	212	-471	31%
Fuel oils	106	162	56	152%
Furniture, mattresses and mattress supports, lamps, lighting fittings	581	769	188	132%
Lumber/wood products	179	976	797	546%
Machinery	542	588	47	109%
Metallic ores and concentrates	526	1025	499	195%
Plastics and rubber	530	235	-295	44%
Prepared foods	345	447	102	130%
Primary metals	376	1191	815	317%
Printed products	292	246	-46	84%
Transportation equipment	480	182	-298	38%

Note: (1) Positive numbers and (2) ratios over 100 percent indicate that a specific good produced in Montana is shipped further than the national average for that commodity. Negative numbers and ratios under 100 percent indicate that goods produced in Montana are shipped less distance than the national averages.

Sources: 1997 Commodity Flow Survey for United States and Montana

Montana's geography also virtually eliminates water transportation as an effective mode for shipment. Nationally, the 1997 Commodity Flow Survey (CFS) shows that 6.1 percent of all tonnage is transported by water. These tons account for 14 percent of the ton miles incurred within the United States, but only 1.2 percent of the value of shipped tonnage. Thus, water is a cost-effective way to transport bulk commodities that are relatively low value per unit. Montana is not able to use waterway transportation, and the 1997 CFS does not report any tonnage shipped by water. Historically, Montana industry has compensated by constructing and maintaining railways to ship bulk commodities.

b. Continued and increased reliance on air transportation services

The use of air transportation services and telecommunications technology provides the means to overcome Montana's distance from markets. Montana's geography indicates increased importance of air transportation services. This includes both business-related travel and shipping. The air transportation sector is particularly important for the growing high-end services that can contribute to economic development. Such sectors include business services, finance, insurance, real estate, and consulting.

These service industries require efficient roadway connections among population centers within Montana. In addition, access to and from airports is necessary to facilitate in-state commerce, business travel among states, and tourist travel.

B. Population Trends

Montana's population trends will have one of the most significant impacts on the demand for transportation in Montana. The number of people, the age structure of the population, and where they live are important considerations for MDT's long-range planning. In turn, they are key trends to consider when assessing the State's economy because Montana's growing industries typically need to be located in, or close to, the population centers.

1. Low Population Density

Montana's population was reported in the 2000 census at 902,195, which is 0.3 percent of the United States and 22 percent of the five-state region. In land area, Montana covers 4 percent of the nation, and 31 percent of the region. Montana is among the country's least populated states, and 48th in the nation, with about six people per square mile (ahead of Alaska and Wyoming). By comparison, the per square mile densities of the United States and Montana's four border states are about 80 and 10, respectively (Source: Northeast-Midwest Institute).

2. Low and Uneven Population Growth

During the 1990s, Montana maintained its national share of population. In 1990 and 2000, the State ranked 44th among the 50 states in population, and grew at just under the national rate. Regionally, it appears that Idaho is emerging as the dominant state among Montana's immediate neighbors, showing a 1990 to 2000 population increase at more than double the U.S. rate. Due to the impact of Idaho, Montana's 10-year population growth lagged behind the total of neighboring states. However, Montana's rate of growth was more robust than North Dakota, South Dakota, and Wyoming (Exhibit II-3).

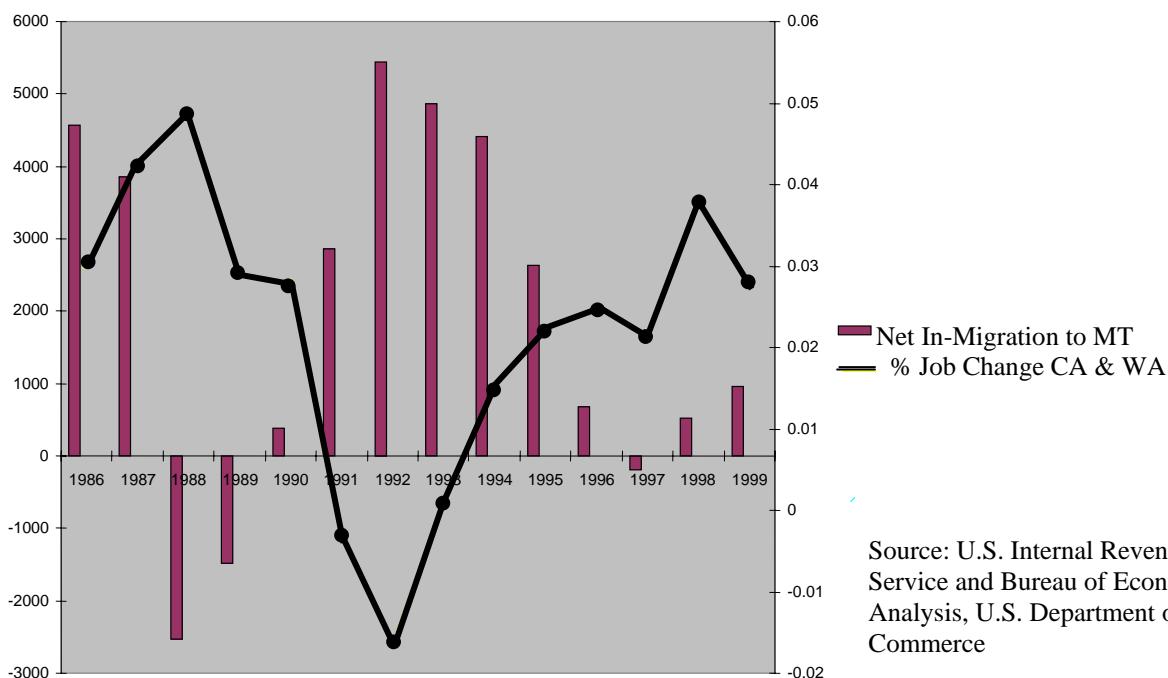
Exhibit II–3: Population of States in the Region

State/Region	2000	Rank 2000	Rank 1990	Growth Rate 1990–2000
Montana	902,195	44	44	12.9%
Idaho	1,293,953	39	42	28.5%
North Dakota	642,285	47	47	0.5%
South Dakota	754,844	46	45	8.5%
Wyoming	493,782	50	50	8.9%
Total 4 Regional States	3,184,864	—	—	13.8%
United States	281,421,906	—	—	13.1%

Source: U.S. Census, U.S. Department of Commerce

Population growth in Montana occurs primarily through migration. Within Montana, population change has been driven by the movement of people from agricultural and resource-based communities in search of employment opportunities.

Historically, shifts of migration patterns to Montana are linked to the health of the California and Washington State economies. This dynamic is illustrated by Exhibit II–4 below, and is not likely to change. People move to Montana when the economy is poor in these two states, and there are both perceived opportunities in Montana and a belief that with a lower cost of living, dollars will go further. The latter perception is also a reason that retirees move to the State.

Exhibit II–4: Migration from California and Washington to Montana

3. Population Growth is Concentrated in a Few Counties

Montana is and will continue to be a rural state. Montana does not have a city with a population of 100,000. The largest county in the state is Yellowstone, with 129,350 people, followed by Missoula County with 95,800 and Cascade County with 80,350. In the 1990s, the proportion of the population in these urban counties was little changed.

Growth in Montana's seven urban counties was an aggregate of 16.5 percent through the 1990s, which is slightly higher than the statewide average. These counties, however, show three different population patterns:

- Strong urbanization trends are seen in Flathead, Gallatin, and Missoula counties, where population increased by 25.8 percent—twice the state average.
- Growth was slightly faster than the State in Lewis and Clark and Yellowstone counties, with an overall population increase of 14.9 percent.
- Silver Bow and Cascade counties were subject to de-urbanization in the 1990s, with an aggregate growth rate of 3 percent.

4. Growth Trends Continue to Favor Western Montana

During the 1990s, population and income continued to move from eastern to western Montana, a trend which was noted in the original TranPlan 21. Exhibit II-5 and Exhibit II-6 examine Montana on the basis of its five transportation districts. Missoula and Flathead counties, two of the strongly urbanized areas in the state, are in District 1 in western Montana. Gallatin, the third county of this cluster, is in the southwestern District 2, as is Silver Bow. Lewis and Clark and Cascade counties are in District 3 of the north-central portion of the state, and Yellowstone County is in District 5, in Montana's south-central region. District 4, which includes the eastern third of Montana, does not host an urban county area.

Exhibit II-5: Location of Transportation Districts in Montana



Exhibit II–6: Personal Income, Population, and Job change in Montana, 1990 to 2000

Transportation District	Total Personal Income 2000 (\$ millions)	Change of Income 1990-2000 (constant \$)	Total Employment (1,000s)	Change 1990-2000	Population (1,000s)	Change 1990-2000
District 1	5,863.6	51%	169.08	42%	275.81	24%
District 2	3,574.5	48%	99.83	39%	159.97	17%
District 3	4,597.7	27%	124.24	20%	199.28	6%
District 4	1,689.7	20%	49.59	8%	80.43	-7%
District 5	4,400.0	39%	122.57	28%	186.75	13%
Montana	20,125.5	39%	565.31	30%	902.24	13%
United States	7,888,295.4	38%	167,211.30	20%	281,467.20	13%

Source: NPA Data Services

5. Aging Population

Montana's population has been aging at a faster pace than the nation as a whole. The median age of Montanans increased against the national median, from 0.9 years above the median in 1990 to 2.2 years in 2000. With a median age of 37.5 years, Montana's population is older than each of its neighboring states by 1.3 to 4.3 years. In the last decade, the median age in North Dakota, South Dakota, and Wyoming all moved from below to above the national average. Only Idaho saw the center of its population become younger, as compared to the U.S.

Montana also has a lower proportion of younger workers (those aged 18 to 44) and a higher percentage of mature workers (aged 45-64) than each of its neighboring states and the nation. (See Exhibit II–7.)

Exhibit II–7: Percent of Population by Age Group

State/Region/U.S.	Percent of Population- 2000				Years	
	Under 18	18-44	45-64	65 and Over	Median Age 2000	Median Age 1990
Montana	25.5	36.7	24.4	13.4	37.5	33.8
Idaho	28.5	38.7	21.5	11.3	33.2	31.5
North Dakota	25.0	38.6	21.6	14.7	36.2	32.4
South Dakota	26.8	37.6	21.2	14.3	35.6	32.5
Wyoming	26.1	38.2	24.0	11.7	36.2	32.1
United States	25.7	39.9	22.0	12.4	35.3	32.9

By age cohort, Montana's population has fewer young workers, aged 25 to 44 than it did in 1990, and 50 percent more mid-aged to older workers (ages 45 to 64). The more urban the area, the higher rate of growth is seen for this latter age group. The state's 12

percent growth in elderly (65 and older) was proportionate with Montana's overall population change. It was also proportionate in the quickly urbanizing Flathead, Gallatin, and Missoula counties, but growth among senior cohorts was greater than population change in the aggregate of Lewis & Clark, Yellowstone, Silver Bow, and Cascade counties. (See Exhibit II-8.)

Exhibit II-8: Change in the Age Structure of Montana's Population, 1990 to 2000

State Totals			Strong Growth Urban Counties-1		Moderate Growth Urban Counties-2		Stagnant Urban Counties-3	
	Pop. 2000	Change 1990-2000	Pop. 2000	Change 1990-2000	Pop. 2000	Change 1990-2000	Pop. 2000	Change 1990-2000
Total 2000	902.2	13%	189.2	26%	185.1	15%	115.0	3%
	320.4	9%	73.0	23%	64.3	10%	39.7	-1%
Under 25	236.8	-5%	63.4	6%	50.6	-4%	29.3	-14%
25-44	225.4	50%	32.4	71%	46.6	54%	29.4	37%
45-64	119.5	12%	20.4	26%	23.6	20%	16.5	5%
65+								

Note: 1. Flathead, Gallatin, and Missoula counties; 2. Lewis & Clark and Yellowstone counties; 3. Silver Bow and Cascade counties

Source: NPA Data Services

6. Transportation Implications

Travel demand is determined by population and the level of economic activity. Travel in Montana breaks down into the following demands: daily commuting for work, school, and other commitments; business travel (not commuting) by Montanans or by out of state visitors; and personal or vacation travel by both Montanans and visitors. The implications of the demographic trends detailed above are:

- **For most of the State travel demand, growth due to population change will not reduce travel times and create congestion at the statewide or regional levels.**

Combined population and land area indicates that travel (distinct from commodity shipments) is not burdened by congestion and travel times are already at their minimums (LOS A or B).⁷

Population and income are indicators of the demand for personal travel by Montana's citizens. As we look at changes among transportation districts, we can hypothesize that the aggregate demand for personal travel has increased in

⁷ If congestion is a problem anywhere, it would be localized in peak hour traffic at key intersections in the several of Montana's cities.

western and southwestern Montana, held steady – or perhaps moderately increased in the central regions of the State, and decreased in eastern Montana.

- **Montana counties experiencing the bulk of the State's population growth will continue to experience reduced service levels on their arterial system.**

Capacity concerns are concentrated in a few counties.

- **Aging population will increase the importance of public transportation, age-related safety provisions, and other strategies for meeting the needs of the elderly.**

Montana's aging population has implications for transportation programs to serve the State's elderly citizens. If a greater proportion of the population is unable to drive, or restricted in driving, due to infirmities generally associated with aging, then the State and communities may be called on to provide increasing amounts of public transportation to assure that Montanans can remain mobile.

- **In large parts of Montana, residents will have to drive further to access services.**

Population trends indicate that smaller communities will continue to lose services and that Montanans will have to drive longer distances to regional service centers. This will increase the importance of winter maintenance for many communities.

- **Montanans will be driving longer distances to work as businesses need to recruit over a larger geographic area.**

An aging population with fewer citizens in prime working age (the 18-44 and 45-64 cohorts) has implications for impeding future economic growth if the in-state labor pool supply is restricted and/or fostering an increase of VMT in Montana as people drive longer distances to work. If a labor shortage does arise, however, then there may be a perception that jobs are available, leading to additional migration from Washington, California, and elsewhere.

C. Economic Trends Through the 1990s

Montana's economy underwent key changes in the 1990s.

1. Decline in Importance of Farming, Mining, and Manufacturing for Montanans

Between 1990 and 1999, employment in the goods-producing sectors of farming, mining, and manufacturing increased by four percent, but personal income decreased in constant dollars by three percent. Collectively, the direct impact of these sectors

decreased in importance for Montanans, falling from 15 percent to 12 percent of the State's employment and from 10 percent to 8 percent of the total personal income.

Recent price and production patterns of key natural resources, wheat, cattle, and timber, present uneven growth patterns in Montana. On the positive side, the price per bushel of Montana's wheat has been rising since 1998 and is above 1991 levels, although it is still significantly beneath the decade's 1994-95 highs. Cattle prices have been on a "roller-coaster" since 1986, recording steep price rises from 1986 to 1991, a precipitous decline from 1993 to 1996 and a dramatic rise since that point, which leaves Montana's steer and heifer cattle prices at record highs in 2001. From a transportation perspective, however, higher unit prices may translate into smaller supplies, meaning less wheat or cattle to transport. This is certainly true for wheat in Montana, which in 2001 recorded its lowest output since 1998, and was 13 percent beneath its 2000 level. In addition, Montana's volumes of timber board feet cut and timber board feet sold have declined from more than 500 million feet cut and 400 million feet sold in 1989 to approximately 100 million board feet cut and sold in 2001.

Exhibit II-9 shows the performance of Montana's large export industries measured by changes in employment and gross state product (GSP). Note that metal mining and coal mining lost employment during the 1990s, but gained income (in constant dollars) over the decade – indicating that these industries are mechanizing, and still produce considerable income for Montana. However, lumber and wood products and oil and gas extraction lost both employment and income over the decade. Both sectors declined in absolute numbers, and Montana's lumber and wood products industry lost market share in the United States, perhaps signifying that these industries are declining in Montana.

Exhibit II–9: Performance of Key Core Industries in Montana

Sector	Changes during the 1990s		
	% Employment Change	% Income Change	Position Relative to the National Industry
Metal Mining	-26%	66%	Montana's employment declined faster than the U.S. and GSP increased less than the U.S.
Coal Mining	-15%	128%	Montana's employment declined slower than the U.S.; and GSP increased was greater than the U.S. increase.
Lumber and Wood Products	-15%	-38%	Montana's employment declined, while the U.S. employment increased. Montana's GSP decreased steeper than the U.S. decrease.
Oil and Gas Extraction	-10%	-39%	Employment in Montana declined more slowly than the U.S. decline. GSP increased in the U.S. but declined in Montana
Farms	5%	15%	Employment in Montana rose, while remaining flat across the U.S. GSP, however, increased at a higher rate nationally than in Montana.

Note: The forestry sector saw an increase of employment in Montana, but at a slower rate than the nation as a whole. Income data from BEA is not available for this sector.

Source: U.S. Bureau of Economic Analysis

2. Automation in Basic Industries Supplants Employment and Personal Income

There were significant capital investments in farming and manufacturing during the 1990s. This is resulting in healthy industries where industry income rises – but employment and personal income stagnates or falls. Exhibit II–10 illustrates that farming, mining, and manufacturing employment and income lagged behind gross State product for those sectors. The mining and farming industries' contribution to the gross State product rose while personal income actually fell (all monetary comparisons are in constant dollars).

Exhibit II–10: Percent Change of Major Goods Producing Sectors by Employment, Income, and Product

Sector	Employment	Personal Income (constant \$s)	Gross State Product (constant \$s)
Farming	5%	-13%	15%
Mining	-15%	-12%	25%
Manufacturing	10%	6%	25%

Source: Bureau of Economic Analysis, U.S. Department of Commerce

3. Services Continue to be the Growth Sectors

The growth sectors identified in the initial TranPlan 21 continued to increase their shares of the Montana economy. Combined, the sectors of wholesale and retail trade, finance, insurance and real estate, and services grew by 35 percent in employment and 40 percent in personal income (constant dollars). In 1990, these sectors accounted for 56 percent of Montana's employment and generated 29 percent of its personal income. By the end of the decade, these shares had increased to 60 percent and 33 percent, respectively.

As shown in Exhibit II–11, during the 1990s, employment and income continued increasing in wholesale and retail trade, finance, insurance, real estate, and services. Moreover, in the latter two sectors, income grew at a much higher rate than employment.

Exhibit II–11: Percent Change of Trade, Financial and Service Sectors by Employment and Income, 1990 –1999

Sector	Employment	Personal Income
Wholesale trade	19%	18%
Retail trade	33%	22%
Finance, insurance, and real estate	31%	79%
Services	41%	47%

Source: Bureau of Economic Analysis, U.S. Department of Commerce

4. Tourism

Montana hosted 9.5 million visitors in 2000 and 2001. Visitors, including both recreation and business visitors, spent about \$1.6 billion in Montana in 1999 (the last year for which spending data is available), about eight percent of the State's gross product. The visitor-serving industry is responsible for about 25,800 direct jobs in Montana, a level about 80 percent to 93 percent of direct employment in each of the sectors of farming, construction, manufacturing, finance, insurance, real estate, and health services. Recreational tourism is expected to increase during 2002 as Americans shy away from overseas travel due to international conditions. (Source:

Outlook 2002, University of Montana, and Institute for Tourism and Recreation Research, University of Montana).

It is accepted that the overwhelming proportion of visitors to Montana drive into the State. Data provided by the University of Montana's Bureau of Business and Economic Research in Outlook 2002, suggest that the use of air travel is increasing. The volume of non-resident visitors has increased from more than eight million to about 9.5 million from 1992 to 2001. Airplane deboardings in Montana (which might be visitors or Montana residents) has been increasing at a faster pace over the same period, from slightly more than 800,000 arrivals in 1992 to about 1.1 million in 2001 (it is still too early to determine the impacts of September 11 on the visitor industry in general and specifically on air travel in Montana). Although it is certainly possible that these data show that Montanans are flying more often, it is also worth noting that the proportion of visitors to deboardings has been increasing. Montana's five busiest airports for passenger arrivals are, in order, Billings, Bozeman, Missoula, Kalispell and Great Falls.

- **Attraction of national parks**

Tourism in Montana benefits from two national parks, Glacier on Montana's northwest Canadian border and Yellowstone on Montana's south-central border with Wyoming.⁸ Together, visitors to the two parks increased from 3.5 million in 1980 to 5.5 million in 2000, an increase of 58 percent over 20 years. Within that change there are changes in visitation patterns. In 1980 and 1990, Yellowstone attracted 58 percent and 59 percent of the total visitors, respectively. However, in 2000, 69 percent of all visitors came to Yellowstone. Over the 20-year period, these two parks increased their share of all visitors to the national parks under the jurisdiction of the Pacific Field Office of the National Park Service from 7 percent to 9 percent.⁹

- **Out-of-state visitors**

University of Montana data show that out-of-state visitors increased by 14 percent between 1993 and 2000. During these seven years, visitation was flat for Yellowstone and Glacier National Parks, actually declining by one percent.¹⁰ The strong performance of Montana's visitor industries despite flat national park attendance indicates a positive trend for business travel and tourism in the state. Montana has considerable interest in continuing to develop the skiing industry as a winter counter-balance to national park and other summer visitations. Ski visits to Montana grew from about 750,000 in the 1991-92 winter to roughly 950,000

⁸ Yellowstone National Park is primarily in Wyoming, but the northern tip is in Montana close to Bozeman and Billings. Glacier National park spills north into Canada, but is primarily in Montana.

⁹ Source: United States National Park Service. Note: In these data, a single visitor to both Glacier and Yellowstone National Parks is counted twice.

¹⁰ Sources: Institute for Tourism and Recreation Research, University of Montana, and the United States National Park Service.

in 1998-99, but these have been flat since then, although it appears that increasingly more Montanans are skiing. The role of Montanans is important in maintaining the infrastructure of the skiing industry as a base for a possible resurgence in out-of-state winter vacationers. (Source: Outlook 2002, University of Montana).

5. Changes in the Transportation Sector Reflect Changes in Montana's Population and Economy

An aging population and three strongly urbanizing counties, coupled with changes from commodity industries to trade, services and financial sectors, as well as changes within the commodity sectors have affected transportation in Montana. We can, in part, measure these changes examining employment and income changes in various transportation industries in the state. In the 1990s:

- Trucking and warehousing increased by 22 percent in employment and 18 percent in income.
- Railroads declined two percent in both employment and income.
- Air transportation employment grew by 39 percent, with a 21 percent increase in income.
- Local and interurban transportation saw employment growth of 30 percent and income growth of 18 percent.

6. Opportunities for Economic Diversification

The major sectors upon which Montana's economy has been dependent tend to be cyclical industries providing limited opportunities for employment and economic diversification. It is to other sectors that Montana must look for economic diversification.

During the 1990s, Montana had 12 export-oriented industries that grew faster in employment over the decade than the national average and experienced a growth in gross state product after accounting for inflation. Engineering and management services, which has a higher ratio of gross state product in Montana than in the national economy. While these industries are small in Montana, they indicate areas of growth potential. We are not arguing that these industries will continue to grow, and we accept that "rate of growth" can be misleading when comparing a large industry to a small – in some cases tiny industrial sector. Nevertheless, Montana's young industries have established a toehold in the state, and represent opportunities for growth. These industries are listed in Exhibit II-12.

Exhibit II–12: Growing Montana Export-Oriented Industries

Finance, insurance, and real estate	Industrial machinery
Electrical equipment	Chemicals
Instruments	Leather products
Rubber and plastic products	Transportation equipment
Furniture	Fabricated metal products
Paper products	Engineering and management services

Exhibit II–13 on the following page illustrates the trends of Montana industries against national averages during the 1990s by employment. Industries on the upper half of the chart are more represented in Montana than the nation as of 1999. In addition, those industries on the left half of the graphic performed better than the U.S. in terms of percent of employment growth. Those on the right lagged behind the national growth rates.

Exhibit II–13: Major Growth Industries in Montana

						<i>High</i>
						<i>Representation</i>
*Farm		*Railroad Tran *Coal Mining				
*Hotels		*Petroleum/Coal Products				
*Amusements						
*Ag Services						
*Retail						
*Soc. Service						
*Eat/Drink Est.		*Oil/Gas Extr.				
*Health Service.						
						<i>Average</i>
						<i>Representation</i>
*Eng/Mang. Serv.						
*Wholesale		*Printing/Pub.				
*Finance-Insurance		*Paper Prod				
*Air Transp.		*Leather/Prod				
*Food Prod.						
*Industr. Machinery.			*Primary Metals			
*Chemicals		*Furniture				
*Rubber/Plstcs		*Instrumnts				
*Fabr. Metal		*Transp. Equip.				
*Elect. Equip.			*Appl/Txtls			
						<i>Low</i>
						<i>Representation</i>
Faster Growth	Grow US Decl	Slower Decline	Slower Growth	Faster Decline	Decline US Grow	

D. Forecasts of Future Growth

The Montana Department of Commerce purchases population and economic forecasts from NPA Data Services. The forecasts run to 2025, and include population by age cohort, employment at one-digit levels of the standard industrial classification system, and earnings of workers and proprietors in these sectors.¹¹ The following subsections summarize our analysis of these forecasts.

1. Population is Forecast to Grow at the National Rate

By 2025, Montana is projected by NPA to grow to almost 1.2 million people, an overall growth rate of 29 percent from 2000, which is equivalent to a predicted national growth rate of 30 percent over the same period.

¹¹ Department of Commerce Officials question the mining data provided by NPA. They believe that NPA may be undercounting this sector.

2. Montana Will Continue to Age Faster Than the U.S. as a Whole

The growth rate of Montanans 65 or older is predicted at 102 percent (more than doubling), compared to a national rate of 84 percent.

3. Population and Employment Growth Will Be Concentrated in the Most Urban Counties

Trends of population concentration persist. Uneven growth will continue across the state, with an aggregate 45 percent population increase in Flathead, Gallatin, and Missoula Counties and 36 percent in Lewis and Clark and Yellowstone.

Silver Bow and Cascade counties will continue to fall behind the rest of Montana, and experience stagnation with an overall 4 percent population increase. These counties are predicted by NPA to show net losses in all cohorts except the elderly, which will grow by 85 percent. Lewis and Clark and Yellowstone counties face a significantly aging population, as well. By comparison, the strongest three urban counties will see substantial growth in youth, and working age cohorts, and their senior population will grow at a slower rate than predicted for Montana. By 2025, the over-65 population of Flathead, Gallatin, and Missoula counties will be 14 percent of the combined total, two-thirds of the projected state average. Exhibit II-14 illustrates projected population changes in absolute numbers for Montana and urban counties.

Exhibit II-14: Montana's Expected Population Growth to 2025 (in Thousands)

State Totals			Strong Growth Urban Counties-1		Moderate Growth Urban Counties-2		Stagnant Urban Counties-3	
	Pop. 2000	Change 2000- 2025	Pop. 2000	Change 2000-2025	Pop. 2000	Change 2000- 2025	Pop. 2000	Change 2000- 2025
Totals	1166	264	344	106	251	66	120	5
Under 25	380	60	120	30	81	16	39	(1)
25-44	295	59	97	30	65	14	25	(5)
45-64	250	24	78	23	54	7	26	(3)
65+	241	121	49	24	52	28	31	14

Note: 1 Missoula, Flathead, and Gallatin; 2. Lewis & Clark and Yellowstone counties; 3. Silver Bow and Cascade counties

Source: NPA Data Services

4. Population Continues to Shift From East to West

NPA forecasts indicate that eastern Montana's population will continue to decline relative to the rest of the state. The population centers in western Montana will grow faster than that of the east. Between 2000 and 2025 population in:

- Northwestern Montana (MDT District 1) is projected to grow by 45 percent.
- Southwestern and south-central Montana (MDT Districts 2 and 5) will keep pace with the state and national projections, showing overall growth of 29 percent.
- North-central Montana (MDT District 3) will increase by 16 percent, which is predicted to be entirely due to a doubling of its senior population.
- Eastern Montana (District 4) is predicted to fall further behind the rest of Montana, with a 10 percent net increase, one-third the predicted State rate.

Exhibit II–15: State Population Projections

State & District	Population (in Thousands) 2025	%Change 2000-25	%Change 65+ Pop. 2000-25	Proportion of State 2025
Montana	1,116	29%	102%	100%
District 1	400	45%	136%	34%
District 2	207	29%	79%	19%
District 3	230	18%	105%	20%
District 4	89	10%	44%	8%
District 5	240	29%	97%	21%

Source: NPA Data Services

5. Statewide Employment is Forecast to Grow Slowly, but Employment and Income From Services will Grow at a Faster Rate than the Nation

The Montana economy is expected to grow by 220,000 jobs between 2000 and 2025, or 39 percent above its current employment base, generating income of over \$9 billion, nearly doubling the State's 2000 level (an increase of 96 percent in constant dollars is projected). Montana is projected to increase its national market share of the goods producing sectors of farming, mining, and manufacturing, as well as the retail sector, which is important to serve the visitor industry.

Projections over the 25-year period indicate that:

- Farm employment is expected to drop by 13 percent, but real income will rise by 25 percent. National totals are –13 percent and 22 percent, respectively.
- Mining employment is expected to rise by 47 percent, with income increasing by 106 percent. Nationally, employment is predicted to increase at 35 percent and income by 89 percent.
- Manufacturing employment is forecast to increase by 6 percent and earnings by 54 percent. This is faster than the lower national forecast rates of a two percent rise in employment and 43 percent in income.

- Employment in retailing is forecast to grow 43 percent and the sector's income by 104 percent compared to national growth rates of 38 percent and 94 percent, respectively.
- Jobs in finance, insurance, and real estate are forecast to increase by one-third, and income to more than double. Nationally, job growth in this service sector will exceed Montana's, growing at 39 percent, but national income growth will lag behind Montana at a 95 percent increase.
- Montana's service sector will grow by 55 percent in employment and 124 percent in income. These rates are equivalent to national projections of 56 percent in jobs and 118 percent in income.
- Other sectors that by themselves are not significant drivers of transportation demand account for 66,000 of the predicted job gains in Montana (37 percent growth) and \$5 billion in new income (93 percent growth).

6. Economic Forecasts Indicate Growth in the Value of Bulk Commodities to be Shipped Out of the State and an Increase in Manufactured Products that are Likely to be Trucked or Flown Out of the State

Exhibit II–16 lists the major industries in Montana and potential manufacturing growth industries, based on trends in the 1990s and forecast data. Large percentage increases are due to small bases of manufacturing output in 1998.

Exhibit II–16: Estimates of Montana’s Future Output in Selected Manufacturing Industries by 2025

	Estimated Range of Output by Value in 2025 (\$millions)*	Lower Bound Percent Change in Value 1998-2025
Major Industries		
Farming	4364	92%
Wood products	1881 – 2520	55%
Metal mining		See note 1
Coal Mining		See note 2
Oil mining		See note 3
Petroleum products		See note 3
Forestry Products		See note 4
Industries of Potential Growth Opportunity		
Food processing	985 – 1320	35%
Furniture	186 – 250	511%
Pulp and paper	437 – 586	59%
Printing and publishing	499 – 669	132%
Chemicals and allied	382 – 512	149%
Rubber and plastic products	200 – 268	2329%
Leather products	20 – 27	1731%
Fabricated metal	195 – 261	239%
Industrial machinery	1091 – 1462	703%
Electrical equipment	137 – 183	256%
Transportation equipment	325 – 436	695%
Scientific instruments	142 – 190	421%

*The lower bound of the range is a linear extension of 1990-98 output trends to 2025. The higher bound is scaled up so that the sum of all manufacturing industries agrees with NPA's projected change in overall personal income generated by manufacturing sector in 2025.

Note 1: The mining sector is notoriously volatile and 1998 was a particularly poor year for metal mining and oil extraction. The metal mining industry is now thriving; oil, however has not fared well recently.

Note 2: The coal mining industry enjoyed a very strong decade. Projecting output from the 1990s on a straight line would result in a 541 percent increase of output value.

Note3: Petroleum products is generally a strong industry in Montana, but the value of output fell in 1998, making extrapolation from that year particularly unreliable

Note 4: Forestry products is a strong industry in Montana that also had an off-year in 1998.

Source: Calculated by Economic Development Research Group, using economic sector forecasts from NPA Data Services and extrapolation of 1980-88 detailed industry trends from U.S. Bureau of Economic Analysis.

7. Economic Growth and Potential for Diversification is Concentrated in the Growing Parts of Montana

Exhibit II–17 shows the location of key commodity industries by the transportation district in which they are concentrated. A single asterisk (*) denotes the location of more than 20 percent of an industry and two asterisks (**) indicates the location of more than 50 percent of an industry. The small but growing industries are most concentrated in Districts 1 and 2.

Exhibit II–17: Locations Where Key Montana Industries Are Concentrated

Transportation District:	1	2	3	4	5
Largest Industries					
Farm Products			*	*	*
Forestry Products	**				
Metallic Mining					**
Coal				**	**
Fuel oils			*	*	*
Coal and petroleum products					**
Wood Products	**				
Small but Growing Industries					
Printing & Publishing	*		*		*
Paper Products	**				
Food Products			*	*	*
Leather Products		*	*	*	
Industrial Machinery	**				
Fabricated Metal	*				*
Chemicals		*	*		*
Furniture	*	*			*
Rubber & Plastics	*	*			*
Electrical Equipment		**			
Instruments	*	*			
Transportation Equipment		**			*

Source: U.S. Departments of Commerce, Bureau of Economic Analysis, with estimates of withheld data provided by Minnesota Implan Group.

8. Service Industry Growth Will Generate Increased Demand for Air Travel and Increase Traffic In Parts of the State

Our analysis estimates an increase of 30,000 new service jobs in business, legal, architectural, and management services. As NPA projections are not more detailed than major sectors, we look to trends in the 1990s to guide us as we seek to apply employment forecasts. In 2000, 43,900 Montanans worked in business, legal and engineering, and management services. Employment in these three sectors grew by a

rate of 56 percent in Montana between 1990 and 2000, compared to growth of 45 percent for the overall service sector¹².

During the past decade, the rate of growth for these three industries was at 125 percent of the overall service sector. For this analysis we assume that the rate of growth to 2025 in these three travel-oriented service industries will remain constant at 125 percent of growth in the service sector across as predicted by NPA. (See Exhibit II-18.)

Exhibit II-18: Service Sector Growth Forecasts, 2000 to 2025

	Number		Growth Rates from 2000	
	2015	2025	2015	2025
NPA projections for service sector	234,270	268,940	36%	45%
Estimated employment for business, legal, and engineering/management sectors	63,800	74,800	57%	70%

Service sector growth varies by transportation district and employment sector. Southwestern Montana, District 2, shows the strongest gain in these important service sectors, followed by District 1 in the northwestern portion of the state. Districts 1, 3, and 5 all have between 21,000 and 23,000 jobs key service jobs. District 4 has the fewest, though growth in eastern Montana was at a higher rate than Districts 3 and 5 (See Exhibit II-19).

Exhibit II-19: Employment in Key Services by District

	FIRE	Pro. Services	Hotel	Totals	Urban Counties
District 1	-17%	92%	18%	41%	Flathead, Missoula
District 2	49%	78%	80%	70%	Gallatin, Silver Bow
District 3	21%	55%	-7%	34%	Lewis & Clark, Cascade
District 4	9%	62%	48%	37%	None
District 5	24%	36%	36%	32%	Yellowstone
Statewide	14%	63%	34%	41%	

Note: FIRE is Finance, Insurance, and Real Estate. “Hotel” is Hotel and Lodging Places. “Pro. Services” is the total of four service sectors: Professional Services, Business Services, Legal Services, and Educational Services.

Source: U.S. Departments of Commerce, Bureau of Economic Analysis, with estimates of withheld data provided by Minnesota Implan Group.

¹² Source: Bureau of Economic Analysis, U.S. Department of Commerce.

9. Montana's International Exports Performed Significantly Better Than Other States' Exports Through the Port of Sweet Grass

The ports of Sweet Grass in Montana and Coutts in Alberta on the Canadian side of the border connect Montana with Calgary and Edmonton. These ports comprise by far the dominant route for Montanan-Canadian trade, handling 75 percent – 80 percent of imports into Montana and exports from Montana. The Port of Sweet Grass is on I-15 (approximately 35 miles north of Shelby). I-15 also directly connects Sweet Grass with Great Falls (116 miles from the Port), Helena (204 miles), and Butte (268 miles). Butte and Shelby connect the Port of Sweet Grass to Montana's principal international truck freight routes of I-90 and I-15, respectively.

- **Major ports in Montana**

Goods originating in the 50 states and Puerto Rico pass through the Port of Sweet Grass into Canada. The leading originating state is Texas, which is the origin of 29 percent of the value of goods exported through the Port, followed by California, Oklahoma, and Illinois. Montana ranks fifth. In 2000, Montanans sent \$163.3 million of cargo through Sweet Grass, accounting for about 5 percent of exports from that Port. Montana, however, saw an increase of 83 percent (in nominal dollars) of the value of its exports from 1997 through 2000. As Exhibit II–20 shows, Montana's rate of growth is 20 times higher than the Port average and is significantly higher than goods originating from other states. Moreover, the value of Montanan goods exported through Sweet Grass accounts for more than 30 percent the State's foreign shipments.

Exhibit II–20: Goods Exported through the Port of Sweet Grass

State of Origin	Annual 2000	Percent of total in 2000	Change 1997-2000, Nominal \$s	Change 1997-2000, Constant 1997 \$
Texas	\$1,002,525,083	29%	16%	8%
California	544,552,933	16%	39%	30%
Oklahoma	200,682,284	6%	-2%	-9%
Illinois	172,285,839	5%	-33%	-38%
Montana	163,298,843	5%	83%	71%
Other States	1,346,813,881	39%	-10%	-16%
Total All States	\$3,430,158,863	100%	4%	-3%

Source: Massachusetts Institute for Social and Economic Research

Based on interviews, it appears that four other ports along the Canadian border in Montana are significant to the state. The two other 24-hour truck ports on the Canadian border are Raymond in eastern Montana (District 4), and Roosville (District 1), which is the only port between the continental divide and Idaho. The Port of Roosville recently upgraded its facilities and primarily services the lumber industries

of both sides of the border. U.S. customs has a deliberate policy of funneling imports to Sweet Grass and Raymond. The Port of Piegan, just east of the divide on Route 89 (District 3 in Glacier County), has 5-10 percent of the activity seen in Sweet Grass, according to a U.S. customs official. Just west of Piegan, at Glacier National Park, is the Port of Chief Mountain, open from May through September. This port transports very little cargo, but is a major tourist and visitor route into Montana.

10. Transportation Implications

In summary, Montana's primary industries and the potential growth industries in the state include the following characteristics.

- Major industries in the state are based on extraction of natural resources and produce bulk commodities: farm products, forestry products, coal and metal mining, lumber and oil, and gas extraction.
- Montana's major and growing industries include manufacturers of natural resources: petroleum and coal products, wood products, food and kindred products, chemicals, rubber and plastics, leather products, paper products, and furniture.
- Some of Montana's small and growing sectors are manufacture of technology products, through not necessarily high tech, including: industrial machinery, fabricated metal products, electrical/electronic equipment, transportation equipment, and instruments.
- Additional major and growing industries serve tourism, as well as internal demand: eating and drinking establishments, hotels and lodging places and amusements, and technology products. Other industries are positioned to export services: engineering and managerial services, finance insurance, and real estate.

These trends have the following implications for Montana's transportation system:

- **The transportation system must continue to meet the needs for shipping high volume and low value commodities.**

Looking at all modes of transportation, Montana shipped 0.9 percent of tonnage originating in the United States in 1997, but Montana's shipments accounted for only 0.2 percent of the value of national commodity flows. This indicates an economy based on high volume and low value. Exhibit II-22 below lists commodities shipped in the United States and Montana that accounted for more than 2.5 percent of the value of shipments in their respective economies. Note that more commodity industries in Montana supply 2.5 percent of value to the state economy than industries do in the national economy. Note also, however, that the dominant industry listed below for the United States is electronics, which provide more than 12 percent of the value of all shipments nationally, and 2.9 percent in Montana. Coal accounts for 57 percent of all tonnage shipped of

products originating in Montana, but less than five percent of the value of these shipments.

Exhibit II–21: Montana Commodities by Value of Shipment, 1997

United States		Montana	
Commodity	% of Total Value Shipped	Commodity	% of Total Value Shipped
Electronic/other electrical equipment and components and office equipment	12.5%	Gasoline and aviation turbine fuel	12.2%
Motorized and other vehicles (including parts)	8.2%	Wood products	9.9%
Miscellaneous manufactured products	6.1%	Fuel oils	5.5%
Machinery	6.0%	Other prepared foodstuffs and fats and oils	5.2%
Textiles, leather, and articles of textiles or leather	5.5%	Base metal in primary or semi-finished forms and in finished basic shapes	4.9%
Other prepared foodstuffs and fats and oils	5.0%	Cereal grains	4.8%
Base metal in primary or semi-finished forms and in finished basic shapes	4.1%	Coal	4.6%
Plastics and rubber	4.0%	Machinery	4.6%
Printed products	3.7%	Mixed freight	4.3%
Mixed freight	3.3%	Coal and petroleum products, n.e.c.	3.2%
Articles of base metal	3.3%	Miscellaneous manufactured products	3.1%
Pharmaceutical products	3.2%	Printed products	2.9%
Gasoline and aviation turbine fuel	3.1%	Electronic and other electrical equipment and components and office equipment	2.9%
Chemical products and preparations, n.e.c.	3.0%	Metallic ores and concentrates	2.9%
Meat, fish, seafood, and their prep.	2.6%	Motorized and other vehicles (including parts)	2.7%
		Miscellaneous manufactured products	3.1%
		Printed products	2.9%

Note: Commodities listed account for more than 2.5% of value of shipment originating from the U.S. and Montana.

Source: 1997 Commodity Flow Survey for Montana and the United States

- **Montana remains heavily dependent on rail for shipping bulk commodities.**

With an economy structured on bulk commodities and without waterways, Montana is heavily reliant on rail. Nationally, 69 percent of all commodity tonnage is moved by truck and 14 percent is moved by rail. Montana, however, ships 29 percent of its tonnage by truck and 69 percent by rail. Coal is a major consumer of rail freight, and is the heaviest product produced in Montana, accounting for 57 percent of all tonnage originating in the state. For all industries aside from coal, Montana looks more like the U.S. average, but still relies three times more on rail transportation than the nation. (See Exhibit II-22.)

Exhibit II-22: Transport of Core Products by Rail

Product	Rail		Truck		Water		Pipeline	
	MT	U.S.	MT	U.S.	MT	U.S.	MT	U.S.
Cereal Grains	59%	29%	11%	39%	*	18%	6%	*
Other Ag. Products	14%	7%	73%	80%	*	7%	*	*
Metallic Ores and Concentrates	67%	47%	14%	14%	*	7%	*	1%
Fuel Oils	11%	1%	58%	51%	*	11%	*	34%
Coal and Petroleum Products	26%	50%	63%	56%	*	10%	*	28%
Lumber and Wood Products	46%	6%	54%	88%	*	*	*	*

Source: 1997 Commodity Flow Survey for Montana and the U.S.

Not including coal, major agriculture, mining, and manufacturing industries in Montana are all more rail dependent than the industries' national profiles. In Montana, these industries use trucking roughly as much as in the United States. (See Exhibit II-23).

Exhibit II-23: Shipment Modes in Montana vs. the United States

	Total Tons Shipped (1000s)	Truck	Rail	Truck and Rail	Other Modes
Montana	41,209	64.8%	23.9%	1.3%	9.9%
U.S.	9,872,695	75.8%	08.7%	0.5%	14.9%

Source: 1997 Commodity Flow Survey, United States and Montana

- **Economic diversification and service sector growth will increase demand for truck transportation.**

Measured by tonnage shipped, trucking is the dominant transportation mode of those small goods producing industries in Montana that grew faster than the national rate during the 1990s. Service sector growth will increase demand for truck transportation.

- Intermodal package delivery is required by growth industries.**

Growth industries within Montana use trucking and truck-air intermodal transport services. Air transportation and “parcel services, U.S. Post office and couriers,” which contain both air and trucking components, will become increasingly important in shipping lightweight high value goods. To illustrate this, Exhibit II-24 provides the national rates because state-data for many of the small Montana industries are not revealed. Note the dramatic difference in percentage trucked for both instruments and electronics when comparing tonnage to value by mode.

Exhibit II-24: National Transportation Patterns during the 1990s

Commodity	By Tons			By Value			Parcel, U.S. Postal Service/ courier
	Truck	Rail	Air	Truck	Rail	Air	
Electrical/electronic	85%	1%	2%	56%	-	10%	28%
Instruments	68%	-	5%	37%	-	11%	48%
Rubber/Plastics	75%	19%	-	79%	8%	1%	8%
Furniture	94%	1%	-	91%	-	1%	5%
Paper Products	78%	18%	-	83%	10%	-	3%
Machinery	88%	2%	1%	77%	2%	3%	13%
Chemicals	53%	27%	-	66%	8%	2%	15%
Leather Products	77%	-	1%	63%	-	2%	30%
Transp. Equipment	71%	15%	-	59%	12%	9%	-

- Increased air travel to deliver producer services and increased regional travel demand to deliver and consume services.**

Industries that generate significant business travel are found within the sectors of finance, insurance, real estate, and services. These sectors all showed robust gains in Montana – the State showed indications of catching up to the national profile in these sectors. Employment in finance, insurance and real estate, and engineering and management services outpaced national growth in the 1990s by 31 percent to 22 percent in the former and 53 percent to 29 percent in the latter. These industries are all forecast to grow considerably over the next 20 years.

These services generate considerable business-related travel. Travel is required to deliver the services and often to purchase the services. In Montana, this is likely to result in growth in air travel into and out of the most rapidly urbanizing counties where these businesses are located.

III. Economic Development Issues



The technical analysis findings detailed above and the TranPlan 21 2002 Update public and stakeholder involvement provide the agenda of plan update issues addressed in this policy paper. These issues are summarized in this section.

A. Issues Raised by the Public, Stakeholders, and Industry Representatives

The TranPlan 21 2002 Update process used survey results, stakeholder meetings, public open houses, and other information sources to identify issues of importance to Montanans to be addressed in the plan update. The overall results from this issues identification process are presented in a separate document. The issues raised that specifically relate to MDT's role in economic development are summarized below.

1. MDT's Role

- **Economic development should become a factor in MDT's transportation investment decisions.**

Input indicated that Montanans want MDT to consider economic development in project selection and prioritization. Although in most parts of the state there is a general sentiment that the transportation system is not a barrier to economic development.

- **MDT needs to produce more detailed economic impacts and benefits studies.**

Public input expressed concern that MDT be careful to consider economic benefits versus costs in making investment decisions. The concern is to caution MDT against making politically driven investment decisions that are not the best use of public funds.

- **Montanans' top priorities for MDT's role in economic development are:**

- Improving commercial air service to Montana.
- Funding projects to boost business relocation to Montana.
- Maintaining or updating Montana's existing transportation system.

Surveys and public input identified these priorities for economic development action.

- **Retain existing and promote new freight rail service to support the Eastern Montana economy.**

There is considerable concern that Montana will experience a new round of branch line closures as the rail industry consolidates grain terminals. Further, many in the agricultural industry are concerned about their shipping costs and level of rail service. There is strong interest in identifying governmental actions to preserve rail service and to enhance competition.

- **Montana agricultural interests remain concerned about lack of competition with the BNSF.**

A large majority of the grain shipped from Montana is transported by the Burlington Northern Santa Fe (BNSF) Railroad. The cost of shipping represents about one-third the value of the crop. Grain producers are interested in any opportunities to increase competition and reduce rates. This issue is being addressed by the Governor's Office. BNSF believes that there is competition with motor carriers and that they are responsive to their customers and the marketplace.

- **Two-lane highways should be expanded to four lanes to attract business.**

Through public involvement surveys and at some of the open houses the desire to expand two-lane highways to four lanes to promote economic development was expressed. However, other participants in these meetings are concerned that such activities would offer limited economic benefit and take resources from meeting other more pressing highway needs.

- **Economic growth in urban areas is different from economic growth in rural areas; infrastructure alone does not guarantee economic development.**

There appears to be recognition by a number of transportation stakeholders that building roads will not in itself result in economic development. Therefore, MDT's role can be most effective in creating an environment that supports economic development by managing the existing system efficiently and exercising its administrative responsibilities with the needs of business in mind.

2. Tourism

- **MDT should give short-term consideration to accommodate visitors and residents during Lewis and Clark Bicentennial.**

The Bicentennial may bring in 6-8 million more visitors to Montana between 2003 and 2006 – the transportation system must be ready.

- **Better directional signage would help tourism.**

Current signage is not effective at drawing people off the highways and into Montana's communities and businesses.

- **Rest areas need to be open year-round and should offer more amenities, such as visitor information kiosks and Internet access.**

There is considerable stakeholder belief that it is important that MDT does more to enhance the visitor experience and support tourism through the operation of rest areas.

- **A scenic byway program promoting Montana's uniqueness could attract tourism and more funding.**

There are a number of initiatives that aim to increase the length of time visitors stay in the State by attracting them to additional destinations. Identifying and marketing scenic routes and enhancing them are initiatives that the visitor industry is seeking to pursue.

B. Economic And Growth Issues Raised By Technical Analysis

The technical analysis identified the following issues to be considered in the TranPlan21 2002 Update.

- **The principal transportation-related barrier Montana industry faces is distance from markets.**

The economic analysis demonstrated that the primary transportation-related competitive disadvantage that Montana faces is due to distance from markets. The current transportation system provides an extensive network for getting products to markets. There do not appear to be any corridor or segment-level capacity constraints on this network. Analysis indicates that the highway system does not provide any significant barriers to the performance of Montana's basic industries. Growth forecasts indicate that future constraints will occur in Montana's most urban counties.

Further, economic growth analysis indicates that in Montana's lagging regions new infrastructure is unlikely to eliminate the competitive disadvantages of these areas namely: size and level of skills in the work force, long distance to market, and scarcity of inputs and access to raw materials. MDT is undertaking a Highway Reconfiguration Study that will examine this issue in more detail.

- **Montana's basic industries are heavily dependent on motor carrier and rail services on the existing transportation system.**

Montana industry ships large volumes of low value bulk commodities. The cost of shipping is a high proportion of the costs of doing business. Montana has a strong interest in ensuring that it has a regulatory and administrative environment that supports motor carrier efficiency. Current industry is dependent on the efficient use of the existing transportation system. Basic industries are becoming more productive as agricultural and mining output has increased with decreasing employment levels.

- **Montana has a strong policy interest in the preservation of rail services to support existing industry.**

TranPlan 21 2002 Update analysis indicates the continued importance of rail services to Montana's economy. This is most notable for mining and agricultural commodities.

- **To support economic development Montana will need to expand the transportation system in the faster growing parts of the State.**

Growth over the next 20 years will be concentrated in those communities that are already the fastest growing. Further, the industries that offer the greatest opportunities for diversification are most likely to locate in these areas. Therefore, there will be transportation system development needs to make these locations competitive and to accommodate the growth that occurs there.

- **The modal implications of economic growth trends are increased importance of:**

- Package delivery and highway freight.
- Air-highway intermodal freight.
- Air transportation service.

Montana's faster growing industries and those that offer the best prospects for economic diversification will generate increased demands for truck and air transportation.

- **Through planning, investment, and policy action Montana will need to ensure that new requirements for motor carriers, air transportation, and intermodal services are addressed.**

Analysis indicates that manufacturing growth and service economy growth will require a transportation system that continues to allow efficient freight mobility as growth occurs. In addition, MDT will need to address new intermodal demands as they occur. This will likely include both air-truck and truck-rail connectivity.

- **Growth will be concentrated in the most urban counties requiring corridor planning and management.**

Economic and population growth analysis indicates that growth will be geographically concentrated and that MDT will need to ensure effective corridor planning and management to accommodate this growth and maintain mobility.

IV. Policy Goals and Actions



This section lists the potential range of actions that MDT could take to address issues raised by the technical analysis and stakeholder input. The actions that MDT can take to support economic development are as follows:

- Supportive actions: these are actions to help retain the existing foundations of the economy by preserving the efficient operation of the current system.
- Reactive actions: these are actions that are demand-driven. They respond to new needs created by the ongoing economic transitions that Montana is experiencing.
- Proactive actions: these are actions that seek to maximize new economic opportunities. They involve investing in strategic improvements to the transportation system and supporting state and local economic development initiatives to generate economic diversification.
- Informational actions: these are actions that clarify and communicate what transportation investments can and cannot accomplish in support of economic development.
- Institutional actions: these are the organizational actions necessary for MDT to strengthen its capacity to support economic development.

The roles that MDT can take to support economic development fall into three categories:

- Investments in transportation infrastructure. The types of investments are constrained by state and federal law depending on the funding source.
- Policy support and advocacy. This role does not involve funding a particular mode but involves advocacy or other measures to support the state's policy objectives. For example, supporting the federal Essential Air Service program would fall under this category.
- Technical support, administration, and coordination. This role does not involve direct investment but involves administrative and technical support.

The following policy goals and actions are considered for inclusion in the TranPlan 21 2002 Update:

POLICY GOAL A: Preserve the efficient functioning of the transportation system used by Montana's export-oriented ("basic") industries to access regional, national, and international markets

Purpose: Preserve the existing transportation network used by the traditional backbones of the state's economy: coal and metal mining, forestry, lumber products, and agriculture.

Rationale: Montana's large and mature resource industries remain the major freight travel generators in Montana. This policy goal recognizes that Montana has an extensive highway and rail system with adequate capacity to meet the transportation needs of Montana's basic industries. MDT's goal is to preserve this system while addressing the infrastructure needs required to accommodate growth and advance the economic diversification opportunities identified in the TranPlan 21 2002 Update analysis.

ACTION A.1: Work with Montana industry and shippers on a continuing basis to identify infrastructure, regulatory, and administrative barriers to their efficient use of the transportation system.

This action involves MDT conducting an annual survey or focus group discussion with representatives of Montana's basic industries, the motor carrier industry, the railroad industry, and other shippers that serve these industries to identify regulatory, administrative, and infrastructure constraints. It would also enable identification of emerging needs or issues based upon trends in these industries. These constraints would be identified annually and an action plan for addressing them through MDT's existing business processes specified. The action plan could only address those issues that fall under MDT's jurisdictional authority.

Implementation Responsibility:

Level of Effort:

ACTION A.2: Use input from A.1 and technical analysis to identify the freight mobility needs of Montana's basic industry on the segments of the state highway system where growth is forecast and specify strategies for addressing these needs.

The problem addressed by this action is the degradation of level of service that is forecast to occur on a number of the major arterials that pass through Montana's major cities. This will increase travel time, reduce reliability, and increase user costs. It is these areas that, over the TranPlan 21 2002 Update horizon, growth will have the greatest impact on the productivity of the transportation system. The intent of the action is to target investment on those areas in which travel time and reliability will be reduced due to growth and land development patterns. The types of freight-specific strategies include building truck bypasses, designating truck routes, and preserving arterials in the growing areas abutting Montana's larger cities. MDT's access management initiative can also support this action. The results of the Reconfiguration Study can be used to identify such types of improvements likely to provide the most economic benefits.

Implementation Responsibility:

Level of Effort:

ACTION A.3: Continue to provide state-level leadership in regional initiatives to increase the productivity of the motor carrier industry.

This action involves MDT continuing to participate in state and regional initiatives that will increase the productivity of the motor carrier industry and reduce the shipping costs to their customers. This action includes MDT's ongoing investments in weigh-in-motion facilities and other initiatives to improve the efficiency with which MDT exercises its administrative and regulatory role with respect to motor carriers.

An element of this action includes evaluating opportunities for providing price competition with freight rail for grain shipment. Issues to consider are:

- Evaluating special projects to provide access to additional sources, such as the Columbia – Snake River.
- Evaluating Motor Carrier productivity policy issues.

The intent is to determine options available that could increase competition.

Implementation Responsibility:

Level of Effort:

ACTION A.4: Conduct quarterly meetings with rail industry representatives, monitor developments in the industry, and work with the industry where possible to preserve the existing rail system.

This action recognizes that Montana's basic industries are dependent on rail. The competitiveness and profitability of Montana exporters is greatly affected by their access to rail and the cost of rail transportation. Further, output levels and shipment volumes have increased. Rail services are provided by private industry. However, Montana's shippers are concerned about the impact that current operational decisions and the continuing reorganization in the rail industry has on rail services. This action will involve dialogue between rail providers and the State. Through the dialogue areas of common interest between the industry, shippers, and the State can be identified. The intent of the action is to identify opportunities for communities, the State, and the railroads to partner in order to preserve the existing system and improve the services available to Montanans.

The dialogue is intended to provide a forum for discussing issues regarding:

- Future of branchlines
- Intermodal pricing practices
- Opportunities for backhaul into Montana

Implementation Responsibility:

Level of Effort:

ACTION A.5: Update the State rail plan to identify potential highway and rail service impacts arising from structural change in the rail industry, and define governmental actions to address them that will support economic development.

This action recognizes that the State, through MDT, has a continuing interest in undertaking rail planning. Such rail planning recognizes that the rail infrastructure and rail services are provided by private enterprise. In Montana and nationally there has been a continual trend for government to be less involved in rail transportation. The action recognizes that the investment and operating decisions of the rail industry impact MDT's management of the highway system and the economies of Montana communities. The action will identify the intermodal needs arising from the consolidation of grain elevators and the hauling of grain longer distances to these elevators.

Implementation Responsibility:

Level of Effort:

ACTION A.6: Provide technical support to Montana communities and airport operators to preserve the federal Essential Air Service Program in cooperation with the Governor's EAS Task Force.

This action involves MDT providing technical support and state-level leadership in cooperation with the Governor's Essential Air Service task force to advocate for the continuation of the Essential Air Service passenger subsidies provided by the federal government to Big Sky Airlines for the provision of air service into communities in eastern Montana.

Implementation Responsibility:

Level of Effort:

POLICY GOAL B: Monitor and address capacity needs arising from Montana's economic growth trends

Purpose: To respond to emerging transportation investment needs for the coming decade.

Rationale: TranPlan 21 2002 Update analysis indicates that the greatest growth of jobs and income is occurring in industries that produce higher value added products, typically occurring in smaller size plants, often located in the fringe or outside of Montana's urban centers. While that trend is starting from a relatively small core of manufacturing activity in the state, it is already emerging as one of the most visible elements of new economic growth for Montana. In addition, over the next 20 years service employment of all types will be the fastest growing part of the economy. Actions under this policy aim to provide a planned response to these trends.

Many of these new industries have specialized products and services with national (or in some cases, international) markets. This trend, together with increasing national markets for manufactured products, is shifting needs for freight movement.

ACTION B.1: Specify strategic economic development transportation linkages based on emerging travel demands and findings from the Highway Reconfiguration Study.

The intent of the action is to identify the infrastructure network required to meet the emerging travel demands on Montana's economy. The action should not define system-level development objectives such as divided highways. The intent is to identify performance standards for the productivity or efficiency of the transportation system. MDT's congestion management system would provide the starting point for this analysis because it identifies those parts of the network that have the most demand-driven capacity constraints. The findings from the Reconfiguration Study may also identify demand driven transportation needs to support this analysis. Models and other analysis tools developed for the Highway Reconfiguration Study will also be used for this analysis.

This action involves MDT defining "strategic transportation linkages for economic development." The action should incorporate multi-modal corridors and facilities that connect major locations for Montana's core industries and its projected future growth industries. It should be designed on the basis of performance standards for highway access (in terms of intercity travel times, reliability and routing circuitry), airport access (in terms of access roads and capabilities for handling corporate jets, nighttime, winter, and inclement weather), rail access (in terms of areas served and locations of intermodal facilities), and international transportation (including access and capabilities of airport, highway, and rail trans-border movements). The focus on reliability is connected to the ability of time-sensitive trucks to pass tractors, slower-moving vehicles, and traffic accidents in a timely manner.

There are examples of such strategic economic development transportation networks. They include Illinois DOT's Economic Corridors (Lifelines Program), Georgia DOT's and Mississippi DOT's Economic Development Highways, Wisconsin DOT's Corridors 2020 and TransLinks, and Minnesota DOT's Interregional Corridors Plan. Each of these networks defines a priority intercity (trunk highway) network, and then determines road width needs to handle heavy trucks, serve rail and air intermodal transport hubs and ensure high reliability of vehicle flows along those inter-city links. The Wisconsin system goes further as the state airport system plan is currently being integrated with the state highway planning process. This action would be crafted in a way applicable to Montana.

Implementation Responsibility:

Level of Effort:

ACTION B.2: Identify and address deficiencies in the strategic transportation network.

This action can be accomplished through dialogue with leaders of growth industries to determine their needs and obtain input on strategies to address them. It would be further supported through technical analysis to overlay forecast travel demand on the network. The deficiencies could be addressed through construction, advocacy, or policy change. The action would be coordinated with local economic development organizations, MPOs, and local jurisdictions.

Implementation Responsibility:

Level of Effort:

ACTION B.3: Establish economic development as an evaluation consideration for prioritizing and scoping highway reconstruction projects.

The intent of this action is that in prioritizing reconstruction projects MDT would, with “other things being equal,” prioritize projects based upon their importance for economic development. Implementation will require establishing clear performance criteria for evaluating economic development impacts. To be consistent with TranPlan 21 2002 Update recommendations, these criteria should focus on whether the project addresses a deficiency on the strategic network, user cost savings, travel time reliability enhancement, and other factors. MDT will use the model and other analysis tools from the Highway Reconfiguration Study to analyze relative economic benefits.

Currently, when reconstruction projects are designed they are designated as either “reconstruction” or “reconstruction with capacity.” Projects prioritized under this action should be designated “reconstruction with capacity and economic development.” This would indicate to project delivery staff that there are economic development considerations that need to be identified and addressed during project scoping.

Implementation Responsibility:

Level of Effort:

POLICY GOAL C: Support state and local economic development initiatives to maximize new economic opportunities.

Purpose: To support Montana’s state-level economic development initiatives within established policies and practices.

Rationale: MDT is not an economic development agency and does not set economic development policy; transportation demand arises from the level of economic activity in Montana.

The TranPlan 21 2002 Update analysis identified a number of industries that are expected to have high growth nationally. In Montana, these industries are small but showing signs of higher than average growth potential. They include: food products, computer technologies, web and telephone based financial service centers, machinery/fabricated metal products, electronics/instruments manufacturing and chemical/plastic products. The web site for the Governor's Office of Economic Opportunity also highlights many of these same industry sectors in its promotion of "Montana Success Stories." This policy goal will be implemented through actions that MDT takes to support economic development initiatives aimed at business attraction and retention.

ACTION C.1: Support business retention, recruiting, and other related activities of the Governor's Office of Economic Opportunity.

MDT will support actions the Governor's Office of Economic Opportunity takes to implement its strategic plan. The action will ensure that MDT plans and investments support Montana's economic development strategy. The success of business retention and recruiting efforts to diversify Montana's economy and attract new growth industries will depend on how well the state is seen as meeting the needs of those industries. A major consideration in business location decisions is how well a candidate location rates in terms of (1) access to an appropriately skilled and stable workforce, (2) reliable access to materials, other inputs, and business partners at a reasonable cost, and (3) reliable access for delivery of products and services to outside national/international customer markets in a timely manner. Transportation access features are typically key considerations. MDT is in a position to support and enhance business attraction efforts, though it can do so only if transportation planning efforts (for multi-modal access linkages and terminals/nodes) are well coordinated with economic development efforts.

This latter issue pertains to the fact that state business recruiters routinely work on a confidential basis with businesses that are considering locating or expanding in a state, to help them identify available buildings, sites, and communities. In a growing number of states, the economic development agency is identifying the key site location needs of target industries and formally developing lists of places that meet those needs. The problem is that a number of outside businesses are requesting only sites along four lane roads, and the economic developers are obliging them by only selecting such sites. Although well meaning, that situation can undermine MDT plans that call for high-quality two-lane roads with shoulders, and it can reinforce regional economic disparities associated with the locations of two-lane versus four-lane roads. Only a coordinated dialogue can ensure that both economic development efforts and transportation investment decisions are made in a mutually reinforcing manner.

Implementation Responsibility:

Level of Effort:

ACTION C.2: Establish a transportation economic opportunities program to help fund roadway projects that support business attraction and retention efforts.

This action involves using a portion of MDT's state highway funds to finance projects that support job creation and/or retention. The intent of the action is that state funds would be used to support business retention and attraction efforts. The funds would be available as a tool to assist state and local economic development officials to attract and retain business. The funds would be available to be used flexibly to meet emerging needs. For example, the construction of improved highway access into an industrial site may be a deal maker for business attraction. The program would be available to meet these needs. The funding program will establish standards for evaluating projects based upon: employment created, income generation, and the leverage of private and other public investment by MDT dollars.

Due to restrictions in state law, only highway projects will be eligible for funding through the program. These projects would not be restricted to the state system. For all projects there would be a requirement of financial participation by the facility owner or operator. This will help to ensure that there is strong local commitment to the project. The program should be administered with the understanding that funds will only be expended where there are projects that meet the specified performance criteria. If there are not enough projects, the criteria would not be relaxed. This will prevent funding projects of negligible or marginal economic simply because funding has been requested. Implementation will need to address legislative constraints, In Montana, programs that use state special revenue account funds for non-highway project require legislation to address the non-diversional clause requirements of the Montana constitution.

Similar programs exist in other states. These include: Oregon DOT's Immediate Opportunity Fund, Florida DOT's Transportation Outreach Program, New York State DOT's Industrial Access Program, Iowa DOT's Railroad Economic Development Program and "RISE Program" (for roads), Wisconsin DOT's Transportation Assistance Program, Maine DOT's Industrial Rail Access Program, Illinois DOT's Economic Development Transportation Program, Mississippi DOT's Economic Development Highway Program, and Michigan DOT's Freight Economic Development Program.

Implementation Responsibility:**Level of Effort:****ACTION C.3: Coordinate with and provide support to local economic development initiatives.**

This action involves MDT coordinating with and providing support to local economic development initiatives. There are a number of local and regional organizations with initiatives underway to attract new businesses, and retain and help existing business to expand. When requested, MDT would provide planning assistance, transportation expertise, and other support for improvements.

The planning assistance needs to be based on the understanding that (1) new and improved transportation facilities will not by themselves necessarily lead to any new business activity, but (2) that it can be “leveraged” as part of a broader economic development strategy to attract and grow local business activity. Transportation expertise can be provided through the District office. The coordination will identify the type of support sought for local economic development initiatives. The support may be operational and relate to traffic management, signing, signal operation or it may involve desired infrastructure improvements. Desired infrastructure improvements would be eligible for funding consideration through implementation of Action C.2.

Models include a highway and economic development guide for regional planning organizations produced by the Appalachian Regional Commission and a guide for metropolitan areas produced by the New York State DOT, as well as a regional economic development and transportation needs book produced for district offices by Wisconsin DOT.

Implementation Responsibility:

Level of Effort:

ACTION C.4: Identify airport improvements and statewide aviation strategies that will support economic development as part of Montana’s continuous statewide aviation planning process contingent on FAA funding and approval.

This action involves conducting an aviation-related economic development assessment as part of MDT’s statewide aviation planning process. The traditional approach to such efforts has been to undertake economic impact analysis. This action should not do that. The intent is to identify strategic issues that can be addressed by MDT and Montana airport operators to support economic development. It should also identify specific airport improvements necessary to support economic development. The analysis should address passenger, freight, and business-related general aviation. Strategic issues of importance include the growth in package delivery and the changing nature of intermodal operations. For example, Federal Express has located its regional distribution center at Great Falls International Airport. Implementation of the action will be dependent on the Federal Aviation Authority’s agreement to fund the analysis as an element within the system plan.

Implementation Responsibility:

Level of Effort:

Action C.5: Provide state-level leadership to evaluate whether there are possibilities for reducing the cost, and increasing the frequency and reliability for out of state air travel.

This action involves MDT providing state-level leadership to conduct a study involving airport operators, industry representatives, and other stakeholders to assess industry trends

and market opportunities. Recognizing that air transportation services are provided by private industry in response to traveler demand the study would:

- Compare Montana's air service to service from other regional states.
- Examine opportunities for enhancing service to and from Montana through concentrating long-distance service and non-stop service at a designated airport to achieve higher volumes of flights to and from state.
- Study options for establishing a "hub and spoke" system in Montana, where instate flights feed into a core airport in the state.

The outcome of the analysis will be strategies for ensuring Montana has the air transportation services required for economic diversification.

Implementation Responsibility:

Level of Effort:

ACTION C.6: Participate in multi-state and regional initiatives that facilitate international trade by identifying and addressing bottlenecks.

This action involves the continued participation by MDT in multistate trade corridor initiatives. The TranPlan 21 2002 Update analysis findings indicate that Montana is not experiencing a large growth in international trade related traffic. Nor are there corridor-level capacity constraints impacting international trade. In addition, the principal bottlenecks Montana industry faces are also in other states. The intent of this action is to focus on addressing bottlenecks that impact travel time and travel reliability. MDT will not emphasize one corridor over another in implementing this action, because there are multiple official and unofficial trade corridors in Montana.

Implementation Responsibility:

Level of Effort:

POLICY GOAL D: Support the tourism industry through promoting access to recreational, historical, cultural, and scenic destinations

Purpose: To factor the important role that the highway system plays in Montana's visitor industry into MDT's planning, investments, and operations.

Rationale: The visitor industry is a large and growing component of the Montana economy. The visitor industry supported through their business planning has identified a number of opportunities for MDT to enhance the visitor experience and partner to support the development of the tourist industry. The objective is to increase the length of out-of-state visits in part by increasing the number of destinations on offer.

ACTION D.1: Promote tourism through improved visitor rest areas and co-location of travel information centers.

This action should be implemented in coordination with other actions that address rest areas. The action recognizes that 90 to 95 percent of out of state visitors to Montana arrive by car and most other visitors arrive by air and then rent a car. Rest areas are a part of their visitor experience. Further, Montana tourist industry considers rest areas as prime locations for providing travel information. This can result in tourists staying longer and visiting other attractions. As part of action implementation, tourist considerations should be addressed in establishing an overall rest area level of service policy. Rest area design and maintenance should consider access for buses, trucks, and recreational vehicles.

Implementation Responsibility:

Level of Effort:

ACTION D.2: Support state and local agencies to market tourist travel and tourist routes.

Tourism is one area where Montana's natural advantages are clear. The majority of visitors drives into the state or flies into the region and then rents a car to drive within the state. Montana's highway system is a key element for tourism and is effectively a transportation service. Driving on many of Montana's scenic routes is a large element of many visits. Through this action MDT should continue to partner with agencies such as Travel Montana, the Montana Tourism and Recreational Initiative, and other state and federal agencies, to enhance the availability of visitor support information and services. Elements may include efforts to enhance and/or initiate:

- MDT participation on the Travel Montana Tourism Advisory Council.
- Addressing tourism-related needs at visitor rest areas and participating in travel information centers.
- Addressing tourist needs on the state's multi-modal transportation maps.
- Special signage to promote local businesses and attraction.
- Providing Web-based visitor travel information or links to other Montana tourism-related sites.
- Assisting groups organizing special events with route planning and traffic management.

Implementation Responsibility:

Level of Effort:

ACTION D.3: Coordinate with federal agencies, tribal governments, neighboring states, and Canadian Provinces.

This action involves coordinating with the appropriate federal, tribal, and other agencies that manage recreational use and who are developing recreational use of land in Montana. These activities generate increasing and sometimes special travel demands. The intent of the action is to coordinate MDT's planning and investment decisions with these activities.

Implementation Responsibility:

Level of Effort:

POLICY GOAL E: Develop MDT's organizational capacity to support economic development

Purpose: To effectively accomplish MDT's economic development policy goals and implement the associated actions.

Rationale: For Montana to be successful, MDT must communicate consistently how transportation can and cannot support economic development. Further, MDT needs the organizational capacity to ensure that its staff resources and transportation improvements most effectively address economic development outcomes.

ACTION E.1: Strengthen MDT's capability to support economic development.

This action elevates the importance of economic development in MDT and strengthens MDT's ability to act upon the economic development findings in TranPlan 21. It would also support the ongoing economic development components of the statewide planning process. This would provide a resource to help communicate MDT's role in economic development and coordinate and participate in state and local economic development initiatives as appropriate.

Implementation Responsibility:

Level of Effort:

ACTION E.2: Communicate MDT's role in economic development, opportunities for Montana firms to do business with MDT, economic development performance objectives, and associated accomplishments.

This action involves MDT establishing and communicating a clear consistent message regarding its role in economic development and the relationship between transportation and economic development. This will include detailing and communicating the role of the economic development and freight mobility function. Through this action MDT will identify and use the most effective channels for communicating with Montana businesses regarding opportunity for doing business with MDT. The action involves providing accountability to Montanans by reporting on accomplishments in meeting these goals.

These will be most effective if related back to MDT's economic development performance objectives.

Implementation Responsibility:

Level of Effort:

ACTION E.3: Monitor and evaluate economic development-driven travel demands and assess the investments required to address them as part of the on-going planning process.

This action involves MDT maintaining a technical understanding of the travel demands generated by the state's economic trends. The TranPlan 21 Update identified changes occurring in Montana's economy that will affect future transportation needs. These include changes in:

- The composition of the state's business activity.
- The location of economic growth.
- Transportation technology and mode requirements.
- National and international cargo markets.

The action involves periodic assessment and monitoring of these changes. TranPlan 21 Update analysis identified the following emerging and continuing economic changes that are shaping Montana's future transportation needs:

• Need time-sensitive shipments.

The greatest percentage growth of freight is via air and truck, particularly the increase in next-day delivery of higher value and time-sensitive manufactured parts and documents to and from other states. This is fueling growth of overnight courier and parcel delivery activities.

• Growth and location of freight movements by truck.

This is increasing needs for reliable and accessible rural to city highway routes. It is also increasing needs for efficient trucking and warehousing centers.

• Importance of airports and air transportation services.

The growth of services and advanced manufacturing industries in Montana will increase corporate jet and charter jet activity, increasing needs for investment in runway improvements at smaller airports around the state.

• Intermodal freight.

Nearly all air freight involves intermodal air-to-truck transfers, so the growth of freight movements by air to outside markets is also increasing needs for reliable inter-city highway routes as well as freight facilities at airports.

Implementation Responsibility:Level of Effort:**ACTION E.4: Conduct outreach to representatives of mining industries.**

The technical analysis indicates an increase in mine production within Montana. The purpose of the action is to:

- Become familiar with plans and projections from the industries.
- Determine if existing transportation infrastructure will support anticipated mining activity.
- Develop and implement plans, if warranted, to upgrade infrastructure required for mining needs.

Implementation Responsibility:Level of Effort:**ACTION E.5: Provide technical support and information so that economic development needs are considered in MPO planning, MDT corridor planning, and project development.**

This action involves ensuring that economic development objectives and economic development-related travel demands are understood and addressed across Montana's business areas. This includes MPO planning, corridor planning and studies, project design, and the operation of the transportation system.

Implementation Responsibility:Level of Effort:

Attachment A: Methods Used to Estimate Future Output of Commodity Industries



For goods producing industries, we use the following data:

- Output by value and income per industry in 1990 and 1998.
- NPA income projections to 2025 for farming, mining, and manufacturing.

A. Farming

“Farming” as a single sector (not including forest products) is reported by though NPA projections, and by the Bureau of Economic Analysis. *Therefore, we base our output projection on NPA forecast of income growth.*

Between 1990 and 1998, Montana’s farm income declined by 57 percent and its output declined by 46 percent. NPA, however, predicts a 25 percent rise in farm earnings between 2000 and 2025 (32 percent from 1998), despite a 13 percent loss of employment in this sector.

The Farming sector contains multiple industries, some of which may be susceptible to increased automation processes. To estimate potential future output from Montana’s farms, we did the following:

- Calculated a ratio of output to income for 1990 (\$8.48 of output per dollar of income) and 1998 (\$10.51 to \$1).
- Assumed that this trend toward automation increased on a straight line to 2025 (which would result in a ratio of \$14.69 to \$1 of income in 2025).
- Applied these ratios to the income totals for farming projected by NPA. These calculations come to \$4.4 billion of output in 2025 (based on constant 1996 \$s used by NPA). This projection is about 79 percent greater than output reported for 1998, but just about two and one-half percent above the 1990 total (underscoring the volatility of a natural resource-based economy) increases of 84 percent and 119 percent, respectively, for these two benchmark years.

B. Other Goods-Producing Sectors

Unfortunately, NPA does not breakdown these sectors. Therefore, we can not differentiate between coal mining, metal mining, and oil extraction, or among large and small manufacturing industries.

We first summed the 1990 and 1998 income data for mining and manufacturing sectors at the industry level, using 1996 dollar values to be consistent with NPA, and projected the net difference to 2025 on a straight line. Second, we compared the total income with NPA income projections:

- Summing of manufacturing industries in 1998 and the difference, 1990 and 1998, straight-lined to 2025 – results in a 2025 income projection for 1.1 billion, which is roughly 34 percent less than the NPA income projection of \$1.47 million. As a result, the lower bound of our output projections based on straight-lining the BEA 1998 industry data can viewed as “conservative” estimates for planning purposes.
- To establish consistency with NPA data, we increased the straight-output by approximately 34 percent. We use these numbers as the upper-bounds of the ranges.
- It is evident that the 1990s were volatile in natural resource economies (with the exception of coal). Aggregate mining data from 1998 is totally unreliable for projections due to mine closings endured by the metal mining and non-metal mining sectors, both having incurred significant losses when compared to 1990 levels. Metal mining, for example, recorded losses in output (-41 percent) and income (-29 percent) when measuring just the two years of 1990 and 1998. Today, metal mining - benefiting from a strong demand for platinum, is a strong industry in Montana. An economist of the state’s Department of Commerce expects the industry to continue its growth. Several non-metal (and non-energy) mines closed during the mid-1990s, including a phosphorite rock mine and a talc mine. Moreover, as mentioned earlier Montana Department of Commerce officials believe that NPA may be undercounting employment in the mining sector, which might significantly affect income projections (and therefore output projections) for this sector.

Attachment B: Status and Disposition of Original TranPlan 21 Policy Goals and Actions

1995 TranPlan 21 Policy Goals and Actions Economic Development Policy Paper	Status	Disposition in TranPlan 21 2002 Update
POLICY GOAL A. Promote a transportation system that provides cost effective access for Montana's export oriented ("basic") industries to regional, national, and international markets.	Retained and strengthened.	Incorporated under: Policy Goal A. Preserve the efficient functioning of the transportation system used by Montana's export-oriented ("basic") industries to access regional, national, and international markets.
Action A.1. Work with shippers and private providers on a continuing basis to identify barriers to be overcome and transportation improvements that will enhance access to regional, national, and international markets.	MDT has implemented this recommendation through biennial surveys.	Continued and enhanced under: Actions A.1, A.2, A.3, and A.4.
Action A.2. Prioritize support for "basic" industries as criteria in programming and project selection.	Original action not specific enough.	Intent strengthened through Actions A.2, B.2, and B.3.
Action A.3. Work with commercial air carriers to maintain and enhance existing levels of service.	Need for action still holds.	This action continues as A.6.
POLICY GOAL B. Ensure state and local economic development policies, plans and priorities are factored into transportation planning and programming.	Policy requires greater specificity regarding MDT action.	Original intent retained and strengthened by focusing on what MDT can implement most effectively. Policy Goal C. Support state and local economic development initiatives to maximize new economic opportunities.
Action B.1. Hold annual meetings with Department of Commerce regional development officers to discuss and review long-range plans, identify local and regional industries, infrastructure concerns, and transportation impediments (if any).	This action is not considered the most effective.	Original intent addressed through Actions C.3, D.2, E.2.
Action B.2. Factor state and local economic development program priorities into the programming process.	Retained and strengthened.	Action replaced with alternatives that include contributing to funding transportation infrastructure projects, Action C.2.

DISCUSSION DRAFT

1995 TranPlan 21 Policy Goals and Actions Economic Development Policy Paper	Status	Disposition in TranPlan 21 2002 Update
Action B.3. Establish a new city park and rest area Program to encourage visitors to contribute to economic development.	Action completed.	
POLICY GOAL C. Engage in multistate and regional initiatives that facilitate international trade.		
Action C.1. Participate in an examination of multistate trade corridor initiatives.	Action Completed.	Current role defined in Action A.6.
Action C.2. Coordinate with planning undertaken by Canadian Provincial Governments of Alberta and Saskatchewan.	Action partially implemented.	Action continues under D.3.
POLICY GOAL D. Promote tourism and access to recreational, historical, cultural, and scenic destinations through transportation planning and programming.	Policy goal retained.	Policy Goal D: Support the tourism industry through promoting access to recreational, historical, cultural, and scenic destinations.
Action D.1. Implement the recommendations of the scenic byway feasibility study.	Implemented as allowed under state statute.	Action no longer holds referenced study almost 10 years old.
Action D.2. Prioritize and encourage the development of transportation enhancements that promote tourist access.		Intent of the Action is fulfilled and strengthened though funding eligible projects under Action C.2.
Action D.3. Encourage more tourist oriented directional signing.		Action addressed through D.2.
Action D.4. Minimize negative impacts of billboards by implementing recommendations from the Governor's Outdoor Advertising Task Force.	Action completed.	
Action D.5. Maintaining community character that enhances tourism and local economic development will be considered as part of project evaluation.	Ongoing.	The issue and action will be addressed through considering context sensitive design as part of Roadway System performance and not economic development.

1995 TranPlan 21 Policy Goals and Actions Freight Mobility Policy Paper	Status	Disposition in TranPlan 21 2002 Update
POLICY GOAL A: Ensure efficient highway freight mobility.		<p>Addressed through:</p> <p>Policy Goal A: Preserve the efficient functioning of the transportation system used by Montana's export-oriented ("basic") industries to access regional, national, and international markets.</p> <p>Policy Goal B: Monitor and address capacity needs arising from Montana's economic growth trends.</p>
Action A.1. Monitor highway freight corridors and prioritize improvements in these corridors.	Retained.	Addressed through actions A.1, B.1, B.2, E.3, E.4, and E.5.
Action A.2. Identify and address impediments to efficient freight movements in highway freight corridors.	Retained.	Addressed through actions A.1, B.1, B.2, E.3, E.4, and E.5.
Action A.3. Ensure freight corridors are addressed in metropolitan planning organization and other jurisdictional transportation plans.		Not retained, approach focuses on barrier and constraints.
Action A.4. Work with local, federal and Canadian governments to ensure Montana's border crossing needs are met.	Ongoing.	This is institutionalized into how MDT does business. Free standing action not required.
POLICY GOAL B. Ensure a balanced freight system through preservation of the existing rail and air transportation system.		<p>Restated as:</p> <p>Policy Goal A. Preserve the efficient functioning of the transportation system used by Montana's export-oriented ("basic") industries to access regional, national, and international markets.</p>
Action B.1. Prevent the further loss of rail branch lines by working with the railroad industry to facilitate the preservation of branch lines.	Retained.	Incorporated into Action A.4 and A.5.
Action B.2. Identify and address priority grade separation needs at busy railroad crossings.		Not carried forward as an economic development related action.
Action B.3. Retain existing rights of way in rail corridors.		Not carried forward as an economic development related action.

DISCUSSION DRAFT

1995 TranPlan 21 Policy Goals and Actions Freight Mobility Policy Paper	Status	Disposition in TranPlan 21 2002 Update
Action B.4. Work with airport operators to maintain, preserve and improve levels of commercial air freight service.	Retained.	Addressed through actions A.6 and C.5.
POLICY GOAL C. Improve intermodal connectivity by increasing the use of intermodal freight facilities.		Addressed through Policy Goals A, B, and C.
Action C.1. Encourage the use of, and improve the performance of, existing intermodal terminals with open access to enable efficient transfers between modes.	Ongoing. Addressed through new actions.	Incorporated into A.1, B.2, C.1, C.3.
Action C.2. Encourage the use of existing truck/rail reload facilities and work with private industry in the development of new facilities with open access.	Ongoing. Addressed through new actions.	Incorporated into A.1, B.2, C.1, C.3.
Action C.3. Involve shippers and private sector providers on a periodic basis to improve the MDT's understanding of freight needs.	Retained.	Addressed through A.1.
Action C.4. Include freight access as a component of statewide airport system planning.	Included in new action.	Address issue in C.4.
Action C.5. Ensure that the MDT has in-house modal expertise to address freight issues associated with Interstate Commerce Commission requirements.	No longer applicable.	Issue no longer applicable, action removed.