

Key Facts

A Summary of Useful Transportation Data

December 1990

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**Washington State
Department of Transportation**

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Key Facts

A Summary of Useful Transportation Data

December 1990



**Washington State
Department of Transportation**

Finance and Budget Management Division
Management and Operations Office
Transportation Building
Olympia, Washington 98504-5201
(206) 753-2628

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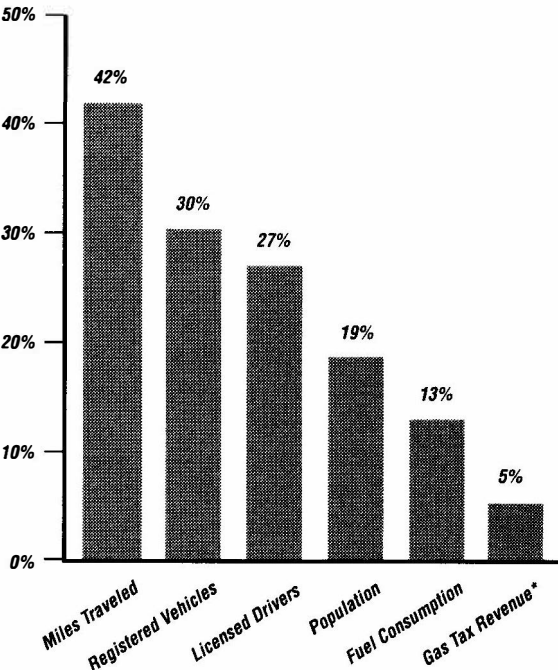
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10 Year Growth In Percent: 1979-1989



**In constant 1979 dollars.*

Transportation Effects on State Economy

- Supports a strong economy.
- Supports virtually every form of economic activity.
- 1 in every 7 workers in Washington State is in a transportation-related job (based on national statistics).
- Americans spend approximately \$1 of every \$5 for transportation.
- At least \$1.3 billion in economic activity created in Washington State by federal funds.
- Approximately 45,000 jobs supported in the economy by WSDOT budget.
- \$75-90 million provided to state general fund in taxes collected from highway contractors and their employees.
- \$1.5 billion in WSDOT programs directly support statewide economic development.
- Partial list of private sector gross income from transportation in calendar year (CY) 1989:

Equipment Manufacturing	\$19.8 Billion
Auto Related Sales	\$10.9 Billion
Transportation Services	\$ 5.5 Billion
Auto Repair	\$ 1.8 Billion

Total Centerline Miles – Streets, Roads, and Highways (Approximate 1989 Mileage in Washington)

	<i>Paved</i>	<i>Unpaved</i>	<i>Total</i>
State			
Interstate	760		760
Primary	4,960		4,960
Secondary	1,080	30	1,110
Urban	200		200
Total State	7,000	30	7,030
County			
Secondary	6,140		6,140
Urban	1,860		1,860
Rural (Off Federal System)	17,000	16,700	33,700
Total County	25,000	16,700	41,700
City			
Secondary	160		160
Urban	2,360		2,360
Other Urban (Off Federal System)	7,780	1,000	8,780
Total City	10,300	1,000	11,300
Other Roads*	Unknown	Unknown	11,300
Federal Roads**	Unknown	Unknown	10,100
Total			81,430

* Includes mileage in state parks, forests, institutions, and other private roads not on the state system.

** Federal parks, forests, and Indian reservations.

Vehicle/Driver Statistics FY 91

(Based on November 1990 Forecast and OFM Data)

Registered Vehicles

Autos	2,869,114
Motor Homes	59,861
Motorcycles	100,000
Mopeds	16,000
For Hire	600
Truck/Tractor Truck	1,200,520
Total Motorized	4,246,095
Trailer/Semi-trailer	552,559
Campers	50,000
Total Registered	4,848,654

Population/Drivers

State Population	4,922,250
Driver Age Population (16 Years and Over)	3,780,427
Drivers Licenses in Force	3,423,509

Vehicle Operations (Average Annual, All Types)

Person Per Motorized Vehicle	1.16
Gallons Consumed Per Vehicle	595
Miles Per Gallon	17.91
Miles Traveled (Billions)	45,253
Miles Per Vehicle	10,624

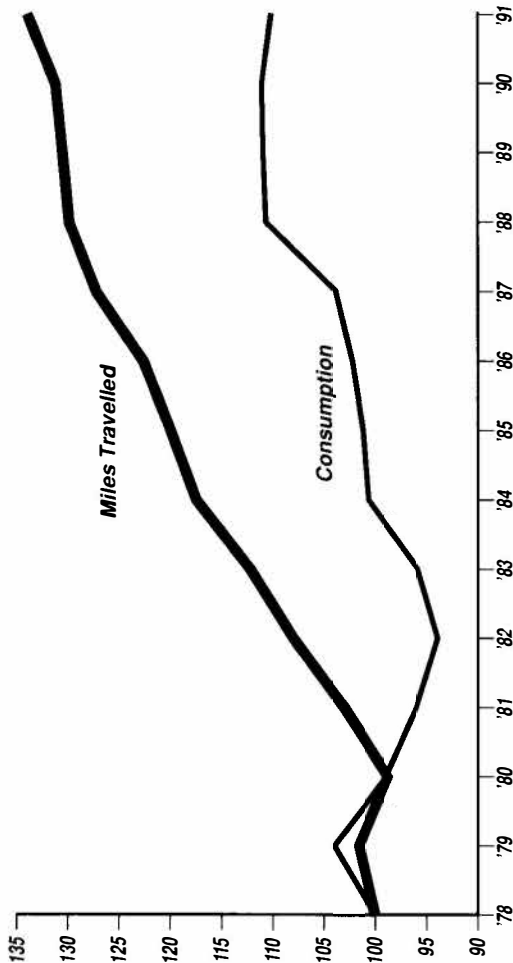
Comparison of Use of Modes

Calendar Year 1988 and 1989

	1988	1989	Percent Change
Public Transit			
(Millions of Passengers)			
Metro	67.1	70.4	4.9%
20 Other Authorities	37.0	37.9	2.4%
Ferries			
(Millions)			
Passengers			
(Excluding Drivers)	11.1	11.6	4.5%
Autos (Including Drivers)	8.3	8.7	4.8%
Highway Miles Travelled			
(Billions)	41.7	43.4	4.1%
Major Airports			
(Millions of Passengers)			
Seattle	14.5	15.2	4.8%
Spokane	1.6	1.5	-6.2%
Rail-AMTRAK			
Washington State On-Off			
(Thousands)	599.9	564.9	-5.8%
Freight Rail			
Private Carriers	3	3	0.0%
Common Carriers	8	8	0.0%
Rail Miles in Operation	3,460	3,330	-3.8%

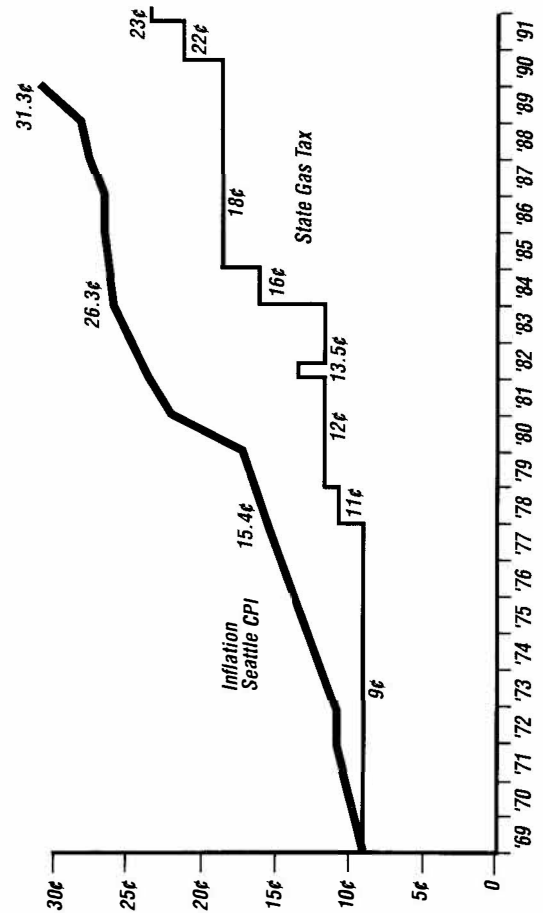
Gasoline Consumption vs. Miles Traveled

Index Values: 1978 = 100



State Gasoline Tax vs. Inflation*

Fiscal Years 1969 - 1990



* Based on Seattle Consumer Price Index (CPI)

Ferry Fleet – 25 Vessels

Jumbo Class

206 autos / 2,000 passengers
SPOKANE, WALLA WALLA

Super Class

160 autos / 2,500 passengers
HYAK, KALEETAN, YAKIMA, ELWHA

Issaquah Class

100–130 autos / 1,200 passengers
ISSAQUAH, KITTITAS, KITSAP, CATHLAMET,
CHELAN, SEALTH

Evergreen Class

100 autos / 1,000–1,140 passengers
EVERGREEN STATE, KLAHOWYA, TILLIKUM

Steel Electric Class

75 autos / 665–800 passengers / refurbished
QUINALT, ILLAHEE, NISQUALLY, KLICKITAT

Passenger-Only

TYEE	(Acquired 9/86)	329 passengers
KALAMA	(Acquired 9/89)	250 passengers
SKAGIT	(Acquired 9/89)	250 passengers

Others

RHODODENDRON	65 autos / 546 passengers
OLYMPIC	55 autos / 605 passengers
HIYU	40 autos / 200 passengers

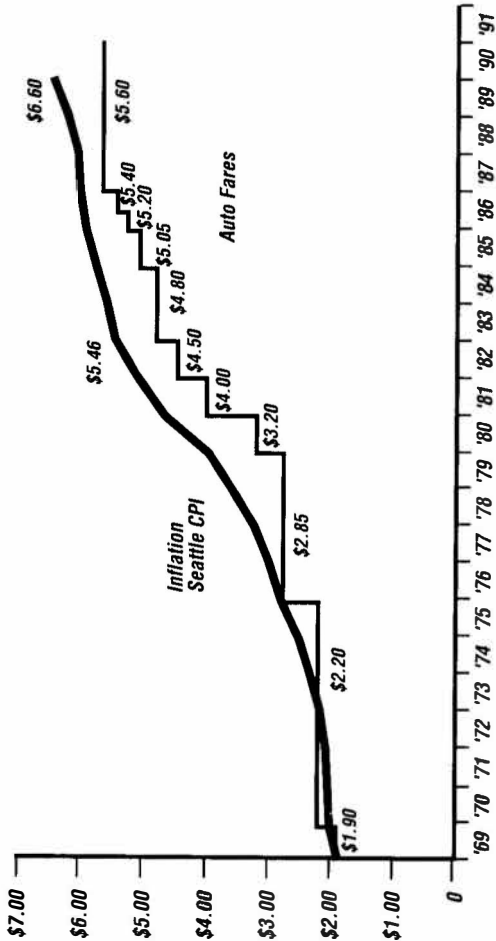
Ferry Traffic

(Traffic in Millions)

<i>Regular Routes Only</i>	<i>Passengers</i>	<i>Vehicles</i>	<i>Total</i>
FY 1983	10.3	6.4	16.7
FY 1984	10.0	6.8	16.8
FY 1985	10.0	7.0	17.0
FY 1986	10.1	7.2	17.3
FY 1987	10.5	7.6	18.1
FY 1988	10.8	8.1	18.9
FY 1989	11.2	8.4	19.6
FY 1990	12.0	9.0	21.0

Ferry Auto Fares vs. Inflation*

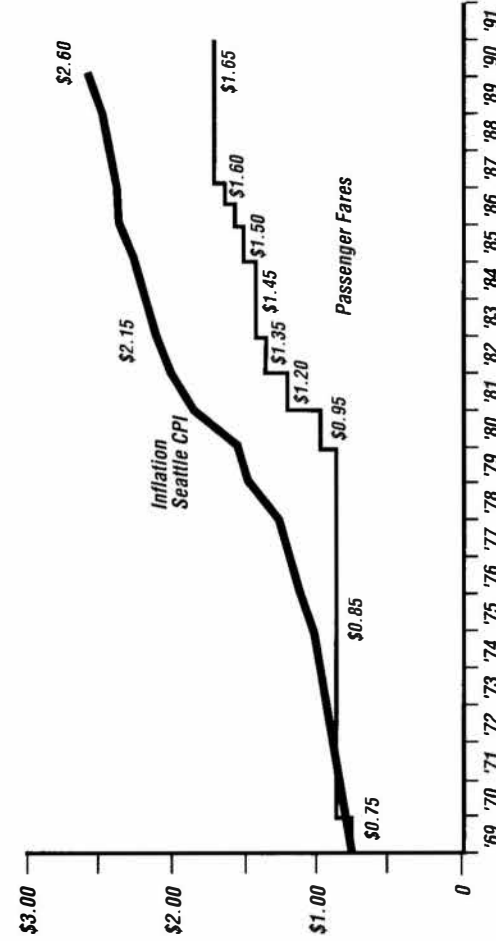
Fiscal Year 1969 - 1990



Note: Ferry fares have not been increased since July 1986.
*Based on Seattle Consumer Price Index (CPI).

Ferry Passenger Fares vs. Inflation*

Fiscal Year 1969 - 1990



Note: Ferry fares have not been increased since July 1986.
*Based on Seattle Consumer Price Index (CPI).

Motor Vehicle Excise Tax History

(Transportation Related)

- | | |
|------|---|
| 1971 | 1.0% Local Option MVET for transit to replace 50% of the 2.0% State MVET. Approved by the 1969 legislature effective July 1, 1971. |
| 1978 | Temporary 0.2% MVET surtax for Ferry System Capital Construction. Approved by the 1977 legislature effective August 1, 1978, until August 1, 2008. |
| 1987 | 0.2% surtax for Ferry System Capital Construction made permanent. |
| 1988 | Temporary 0.1% surtax for Ferry System operations. Approved by the 1987 Legislature effective January 1988 through December 1989. |
| 1988 | Temporary 0.1% surtax for Ferry System operations was extended through December 1990. |
| 1990 | 0.1% surtax for Ferry System operations made permanent.
0.2% surtax for transportation purposes approved effective September 1990. |
| 1993 | 5% of the revenue from the base 2% MVET tax to be transferred from deposit in the General Fund to the Transportation Fund. Approved by the 1990 Legislature effective July 1, 1993. |

State Motor Fuel Tax History

- | | |
|------|---|
| 1921 | 1 cent |
| 1924 | 2 cents |
| 1929 | 3 cents |
| 1931 | 5 cents |
| 1949 | 6.5 cents |
| 1961 | 7.5 cents |
| 1967 | 9 cents |
| 1977 | Variable
21.5% of retail price, net of taxes
12 cent lid
Enacted at 11 cents |
| 1979 | 12 cents
Rose to lid |
| 1981 | Variable
Changed to 10% of retail price, net of taxes
12 cent floor
Enacted at 13.5 cents first 6 months, then fell to 12 cent floor |
| 1983 | 10% variable repealed
Replaced by 6 cent increase phased over two years
Increased to 16 cents July 1983 |
| 1984 | 18 cents in July 1984 |
| 1990 | 22 cents in April 1990 |
| 1991 | 23 cents in April 1991
Approved by the 1990 Legislature |

Gas Tax Distribution

Computed equivalent cents based on legislated distribution before deductions for rebates and transfers for non-highway use, Department of Licensing's cost of collection, and State Treasurer's cost of distribution.

Dedicated 17 Cent Distribution

(RCW 46.68.100)

Urban Arterial Trust Account	1.21 cents
Counties	3.87 cents
Cities	1.96 cents
Ferry Operations	.54 cents
Ferry Capital Construction	.55 cents
State Urban Highways	1.18 cents
State	7.69 cents

Total	17.00 cents
--------------	--------------------

Dedicated 1 Cent Distribution

(RCW 82.36.025)

Rural Arterial Program	.33 cents
Urban Arterial Program	.33 cents
State Highway Construction	.33 cents

Total	1.00 cent
--------------	------------------

Gas Tax Distribution

(Continued)

Dedicated 4 Cent Distribution

RCW 46.68 (4/1/90)

Department of Transportation	1.00 cents
Cities	0.50 cents
Counties – Regular Distribution	0.30 cents
Counties – Arterial Preservation	0.45 cents
Transportation Improvement Board	1.50 cents
Rural Arterial Program	0.25 cents

Total	4.00 cents
--------------	-------------------

Dedicated 1 Cent Distribution

RCW 46.68 (4/1/91)

Special C Program	0.75 cents
Counties – Regular Distribution	0.25 cents

Total	1.00 cent
--------------	------------------

Summary

Cities	2.46 cents
Counties	4.87 cents
Rural Arterial Program	.58 cents
Transportation Improvement Board	3.04 cents
Ferries	1.09 cents
State	10.95 cents

Total	23.00 cents
--------------	--------------------

Source and Distribution of State Revenues

(Includes MVET Transfer)

Motor Vehicle Fund/Transportation Fund

(Based on November 1990 Forecast)

(\$ in Millions)

	1989-91	1991-93	1993-95
Revenues			
Fuel Tax	\$ 1,069	\$ 1,190	\$ 1,245
Licenses, Permits, and Fees	379	420	446
Motor Vehicle Excise Tax (0.2% surtax)	32	94	114
MVET Transfer & Transit Residual	0	20	84
Miscellaneous Revenues	33	48	33
Bond Proceeds	11	30	57
Prior Biennium Cash Balance*	127	76	0
Total Revenues	\$1,651	\$1,878	\$1,979

Distribution — Gas Tax

Nonhighway Rebates	\$ 29	\$ 31	\$ 33
Bond Debt — WSDOT	121	134	134
Transportation Improvement Board	120	153	160
Rural Arterial Program	24	29	31
Cities	112	121	127
Counties	203	218	228
County Arterial Preservation	12	23	24
Puget Sound Cap. Const. Acct.	28	27	29
Puget Sound Ferry Ops. Acct.	27	27	28
Special Category C	2	38	39
Total Gas Tax Distribution	\$ 678	\$ 801	\$ 833

Distribution — Registration Fees

State Patrol	\$ 174	\$ 181	\$ 191
Puget Sound Ferry Ops. Acct.	9	10	11
Total Reg. Fee Distribution	\$ 183	\$ 191	\$ 202

Appropriations

Department of Licensing	\$ 54	\$ 60	\$ 65
Other Agencies/Programs	34	33	32
WSDOT			
Maintenance	200	219	236
Admin. and Planning	122	150	151
Total Appropriations	\$ 410	\$ 462	\$ 484

Available for Construction	\$ 380	\$ 424	\$ 460
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*Cash balance excludes minimum fund balance.

WSDOT Budget

Division/Program

(\$ in Millions)

1989-91

Current

1991-93

Request

Program Development Division

A Preservation and Safety	\$ 207.4	\$ 234.2
B Interstate	532.9	392.0
C Non-Interstate Capacity Improvements	90.8	239.0
G Community Economic Revitalization	2.0	5.0
H Non-Interstate Bridges	60.6	113.0
R7 Reimbursable Projects	71.6	66.0
Total Program Development	\$ 965.3	\$ 1,049.2

Operations Division

M Highway Maintenance and Operations	197.8	222.6
D Highway Management and Facilities	73.8	75.9
Total Operations	\$ 271.6	\$ 298.5

Marine Division

X Marine Maintenance and Operations	184.2	207.1
W Marine Construction	114.0	106.5
Total Marine Division	\$ 298.2	\$ 313.6

Aeronautics Division

F Aeronautics	3.6	3.4
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Planning, Research and

Public Transportation Division

T Planning, Research and Public Transportation	33.8	46.9
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Finance and Budget Management Division

S Transportation Management	31.9	38.1
R Sales and Services to Others	15.4	13.3
U Charges from Other Agencies	14.0	22.8
Total Finance and Budget Management	\$ 61.3	\$ 74.2

Local Programs Division

Z Local Programs	140.5	114.4
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Other

09 Supportive Services	0.4	0.4
81 Belated Claims	3.1	0.0

Total WSDOT Budget	\$ 1,777.8	\$ 1,900.6
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Non-Appropriated

E Transportation Equipment Fund (TEF)	102.1	115.1
OR Right-of-Way Revolving Fund	0.1	10.0

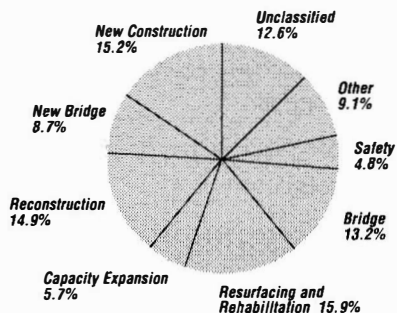
Federal Highway Trust Fund Balance and Commitments

The balance in the Highway Trust Fund has grown from \$9.581 billion at the end of federal fiscal year (FFY) 1983 to \$16.608 billion at the end of FFY 1989. During this period, the balance in the Mass Transit Account has increased from \$519 million to \$6.057 billion while the balance in the Highway Trust Fund for highway programs has increased from \$9.062 billion to \$10.551 billion. Unpaid commitments for highway programs were \$31.685 billion at the end of FFY 1989, or \$21.134 billion greater than the balance available. (Unpaid commitments which exceed the balance available will be paid by future highway user fees accruing to the Highway Trust Fund.) Unpaid commitments for the Mass Transit Account were \$4.144 billion at the end of FFY 1989, or \$1.913 billion less than the balance available.

Federal-Aid Highway Obligations

by the Type of Improvement (1984 - 1988)

Obligations of federal aid highway funds totalled \$71.4 billion for the 5-year period 1984 through 1988 – an average of \$14.3 billion per year. Resurfacing and rehabilitation work represented the largest portion of obligations during the period.



Federal Highway-Users Fees

User Fee Type	Rate on December 1, 1990
Gasoline	\$0.14 / gallon*
Gasohol	\$0.08 / gallon*
Diesel Fuel	\$0.20 / gallon*
Other Special Fuels	\$0.09 / gallon*
Tires	<i>0 - 40 lbs.: No tax</i> <i>40 - 70 lbs.: \$0.15 for every pound over 40 lbs.</i> <i>70 - 90 lbs.: \$4.50 + \$0.30 for every pound over 70 lbs.</i> <i>Over 90 lbs.: \$10.50 + \$0.50 for every pound over 90 lbs.</i>
Truck and Trailer Sales	12% of retailer's sales price for trucks over 33,000 lbs. gross vehicle weight (gvw) and trailers over 26,000 lbs.gvw.
Heavy Vehicle Use (annual tax)	<i>Trucks 55,000 lbs. gvw to 75,000 lbs. gvw: \$100.00 plus \$22.00 for each 1,000 lbs. (or fraction thereof) in excess of 55,000 lbs.</i> <i>Trucks over 75,000 lbs. gvw: \$550.00</i>

*Excludes the 0.1 cent per gallon tax on motor fuel dedicated to the Leaking Underground Storage Tank Fund.

1991 Federal Highway Funds Major Programs

(\$ in Millions)

	FFY 1991	
	U.S.	WA
Interstate		
Completion	\$ 2,709	\$ 63
4R	2,489	54
Discretionary	365	—
Total Interstate	\$5,563	\$117
Primary	\$ 2,269	\$ 39
Urban	716	13
Secondary	573	9
Bridge	1,340	34
Bridge Discretionary*	225	20
Safety	426	6
Emergency Relief	100	100
Grand Total	\$ 11,212	\$ 338

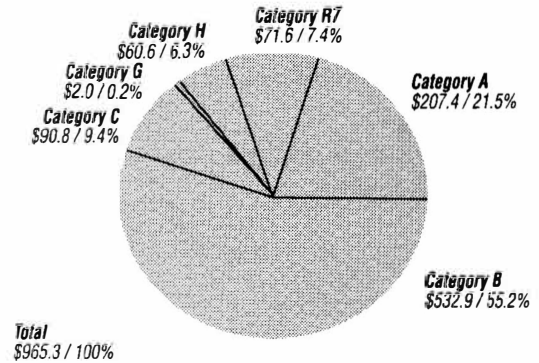
From 1956 through 1988, Washington State has been apportioned or allocated a cumulative average of \$1.70 for every dollar it has contributed to the Federal Highway Trust Fund.

Note: The dollars shown above are net after HPR and PR deductions.

*The \$225 million is the national FFY 1991 apportionment, in addition to this, unspent apportionment from previous years can be redistributed by federal authorities.

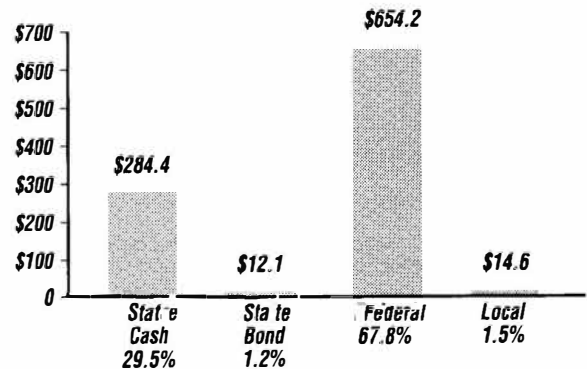
1989-91 Highway Construction

(\$ in millions)



Fund Source

(\$ in millions)



Marine Division

Ferry System Operations

(Based on November 1990 Forecast)

(\$ in Millions)
1989-91

Revenue	
State Revenue*	\$ 70.4
Fares, Tolls, and Miscellaneous	131.9
Total Available Revenue	\$ 202.3
Expenditures	
Operations	\$ 141.4
Engineering	27.6
Finance and Administration	9.8
Executive Management and Support	3.8
Total Proposed Program	\$ 182.6

*Revenue generated from gas tax, registration fees, and Motor Vehicle Excise Tax.

Marine Division

Capital Construction 6-Year Program

(Based on November 1990 Forecast)

(\$ in Millions)
1989-91 1991-93 1993-95

Revenue			
Cash Balance	\$ 4.8	\$ 7.6	\$ 0.0
State Revenue Available	95.5	104.2	121.7
Less Debt Service*	-25.2	-27.8	-27.3
Less DOT Overhead	-0.4	-0.4	-0.4
Less MVF Repayment 6/90**	0.0	0.0	0.0
Transfer from (to) Operations	15.0	0.0	-7.3
Subtotal	\$ 89.7	\$ 83.6	\$ 86.7
Bond Sales	15.0	5.0	51.1
Federal Funds	6.7	11.3	6.0
Local Funds	7.3	6.5	0.0
Total Available Revenue	\$ 118.7	\$ 106.4	\$ 143.8
Expenditures			
Emergency Repair	\$ 2.1	\$ 2.2	\$ 2.4
Continuity of Service	26.3	7.4	5.0
Struct./Mech. Integrity	45.8	52.3	47.0
Efficiency	26.0	33.4	19.4
Capacity	7.3	7.6	65.8
1963 Hood Canal Bridge			
Refunding Revenue Bonds	3.6	3.5	3.6
Total Proposed Program***	\$ 111.1	\$ 106.4	\$ 143.2
Ending Balance	\$ 7.6	\$ 0.0	\$ 0.6

* Debt service on 1977 bonds is appropriated to the State Treasurer.

** Deleted in the 1990 Supplemental Budget.

*** Expenditure plan approved by Transportation Commission, September 1990.

Aeronautics Division

Program Summary

(Based on November 1990 Forecast)

Sub-Program Description	1989-91 Budget
F-1 Management and Support	\$ 1,169,000
F-2 Airport Aid Projects	1,623,000
Motor Vehicle Fund Payback	100,000
F-3 State-owned Airports	
Maintenance and Construction	522,000
F-4 Search and Rescue	118,000
F-5 Planning	390,000
Total	\$ 3,922,000

Fund Source

Aeronautics Account	
State	\$ 3,068,000
Federal	661,000
Local	75,000
Search and Rescue Account	
State	118,000
Total Source of Funds	\$ 3,922,000

Management and Support

Includes federal airport inspections (5010), hazard and obstruction reviews, aircraft maintenance, insurance, and accident investigations.

Airport Aid Projects

State funds provide matching dollars to local funds used for runway and taxiway rehabilitation, airport lighting, navigation improvements, access roads and ramps, security fencing, etc.

MVF Payback

To pay for a tort settlement in the case of Osibov vs. the State in the amount of \$407,430, the Aeronautics Account borrowed money from the Motor Vehicle Fund. Payback to the Motor Vehicle Fund is planned as four biennial installments of approximately \$100,000 each.

Planning, Research & Public Transportation Division

Program Financial Summary

(\$ in thousands)

Sub-Program Description	1989-91 Budget
T-1 Management & Support	\$ 986
T-2 Planning & Research	20,761
T-3 Public Transportation	7,102
T-4 High Capacity Transportation	4,603
T-5 Essential Rail Assistance Projects	3,400
Total	\$ 36,852

Fund Source

Motor Vehicle Fund	
Federal	\$ 10,464
State	10,818
General Fund	
Federal	5,291
State	626
Local	278
High Capacity Transportation Account	4,603
Essential Rail Assistance Account	2,300
Essential Rail Banking Account	1,100
Miscellaneous	1,372
Total Sources of Funds	\$ 36,852

Planning, Research & Public Transportation Division

Program Description

Management & Support

Ensures that WSDOT & other transportation decision-makers have innovative policies for effective transportation planning.

Planning & Research

Provides continuing and special studies relating to statewide road inventories, traffic surveys, highway finance and economic surveys, and statistical reporting to provide basic design data for improved transportation planning, road construction and maintenance. Includes research for application of new construction methods and materials, improved traffic management techniques, environmental mitigation measures, and earthquake preparedness.

Public Transportation

Develops planning policies related to public transportation. Manages Urban Mass Transportation Administration pass-through grants to Washington transit and paratransit providers on behalf of the Federal government. Planning and technical assistance and training is provided to transit operators throughout the state.

High Capacity Transportation

New program created in the 1990 Legislative session to develop policy and plan for future regional high capacity transportation systems and to study ways to improve AMTRAK services

Essential Rail Assistance Projects

Supports continued freight rail operations by loans to ports, county rail districts, or first class cities and by acquiring abandoned rights-of-way for future reactivation.

Planning, Research & Public Transportation Division

High Occupancy Vehicle (HOV) Facilities & Programs

HOV Facilities

	Completed or Under Construction	Additional Planned for the Year 2000	Total
HOV Lanes (Miles)	89	89	178
Park & Ride Spaces	26,800	12,500	39,300

Other Facilities

- Transit Supporting Carpool Ramps
- Metered By-Pass Ramps
- Flyer Stops
- Transit Centers
- Dedicated Interchanges

Special Features

There are 475 publicly operated and over 100 privately operated vanpools statewide.

Ridesharers are given priority loading on state ferries and priority entrance to certain central Puget Sound freeways.

Dual-mode articulated buses are used in the downtown Seattle transit tunnel, a 1.3 mile exclusive busway. By the year 2000, 40% of the buses downtown will use the tunnel.

Local Programs Division

Mission

Assist and support cities and counties in our partnership to develop and maintain our state's transportation system through programs and services that:

- Optimize federal aid funds distributed to cities and counties.
- Provide technical services on design, construction and operations.
- Provide engineering and technical training opportunities.
- Provide information on new technology, innovations and efficiencies.

Goals

- Provide bridge inspection support and training.
- Increase technical and engineering training opportunities.
- Increase technical assistance to cities and counties.
- Develop pavement management system for cities.
- Increase traffic services to small cities and counties.
- Streamline program delivery procedures.

Accomplishments

- 300 city and county projects for \$131 million (total project costs).
- Power Washington funding of 56 traffic signal projects for \$6.2 million (Exxon oil rebate).
- Trained over 3600 persons, through technology transfer roadshows which deliver the training to the workplace.
- Provide traffic engineering services and microcomputer assistance in response to 850 requests.
- Prepared new bridge inspection manual and began implementing new procedures required by FHWA.
- Developed and provided bridge inspection training for 150 city and county bridge inspectors.

Local Programs Division

Program and Services

- Advocate for and partner with cities and counties.
- Provide rapid response to requests for funding and technical assistance.
- Focus on service to cities and counties as well as delivery of the federal aid program
- Local Agency Guideline manual, tool for assisting in administering federal funds.
- Continue the certification acceptance process which delegates most project decisions to qualifying cities and counties.
- Northwest Technology Transfer center renowned for provision of materials and training to cities and counties.
- Traffic services, providing hands-on assistance in traffic engineering and computer usage.

Project Summary

(\$ in Millions)

FA Program	(Since 1973)		(1989-91)
	Allocations	Projects	Allocations
Federal Aid Urban	\$ 23.0	880	\$ 24.5
Federal Aid Secondary	107.0	360	15.6
Railroad Crossing	33.0	415	4.4
Hazard Elimination	27.6	430	3.6
Bridge Replacement	295.0	456	30.0
Emergency Relief	72.0	362	4.0
Other Programs*	42.1	606	N/A

**Phased Out*

Notes:

[illegible]