

Economic Drivers

- Fuel Prices
- Inflation Rate
- Economic and Demographic factors
 - Residential homes
 - Commercial square footage
 - Industrial output
 - Transportation (sectoral income and output)

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Economic Drivers

- Driven by the economic forecast
 - Number of Existing home
 - Number of New Homes (Single, Multi, Manuf.)
 - Square footage of existing commercial buildings
 - Square footage of new commercial buildings
 - Level of production from industrial, agricultural and mining firms
 - Income of residential sector
- Source of information: (Global Insight and in-house analysis)

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Fossil Fuel Price Forecast

- Vintage September 2007
- Will be updated September 2008

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Comparison of Fuel Price Forecast to 5th plan

Energy Market Changes Since 5th Power Plan

- World economic growth
- Decline in the value of the dollar
- Weak energy supply response
- 2005 hurricane damage
- Middle East conflict
- Climate change issues

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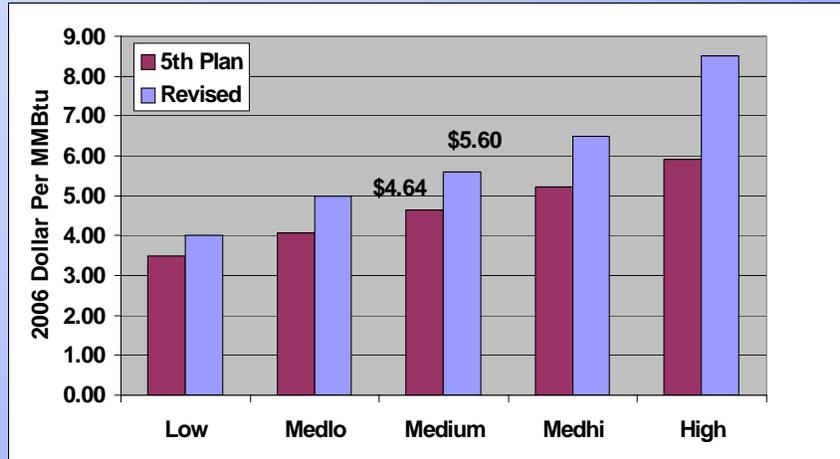
Natural Gas Prices

- Prices since the Plan have been volatile and within the forecast range, but average toward the high case
- More recent forecasts by others have been near the high end of 5th Plan range
- Advice of Natural Gas Advisory Committee has been to raise medium forecast to MH, and to provide for possibility of substantially higher prices

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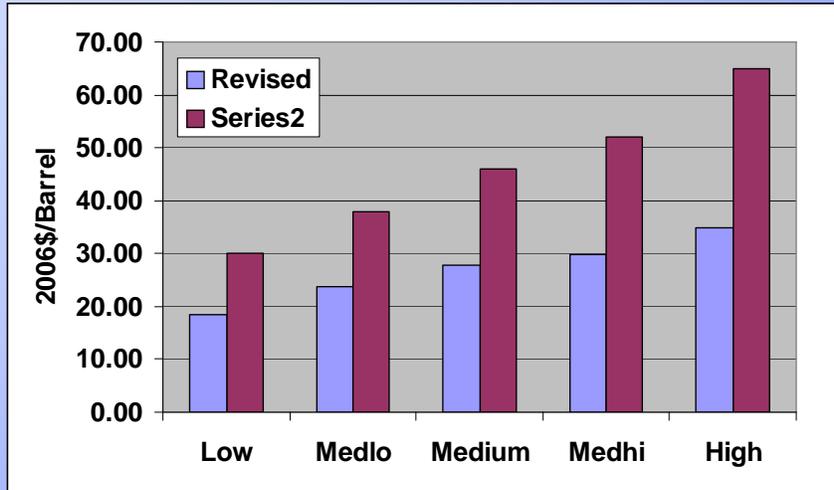
2025 Wellhead Natural Gas Prices (5th Plan and Revised)



Crude Oil Prices

- World oil prices have substantially exceeded the 5th Plan high forecast
- World economic growth, Middle East conflict, and depreciation of the dollar are key factors
- Other forecasters now expect oil prices to remain well above the 5th Plan high case
- Revised range almost entirely above 5th Plan range.

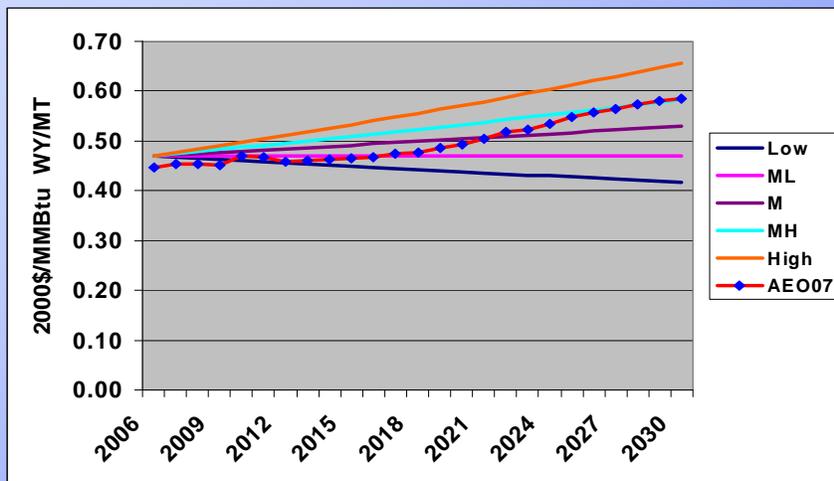
2025 Crude Oil Prices (5th Plan and Revised)



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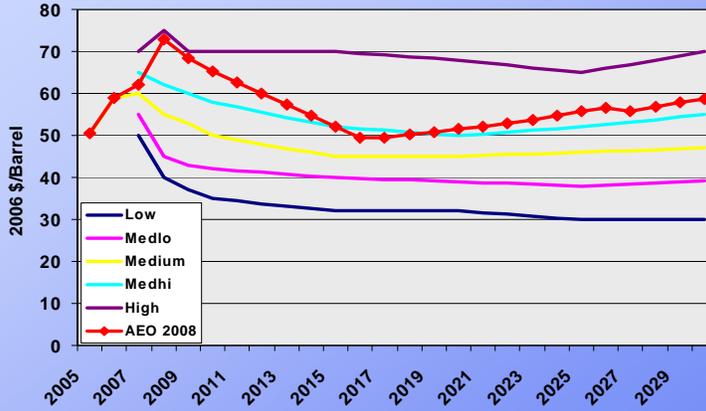
Revised Coal Price Forecast Compared to EIA AEO07



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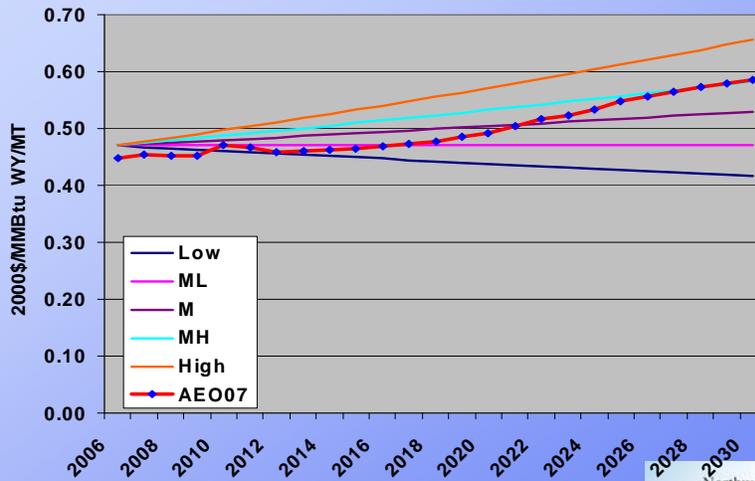


EIA 2008 Oil Price Forecast Compared to Council



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Council Coal Price Forecast Compared to EIA 2007



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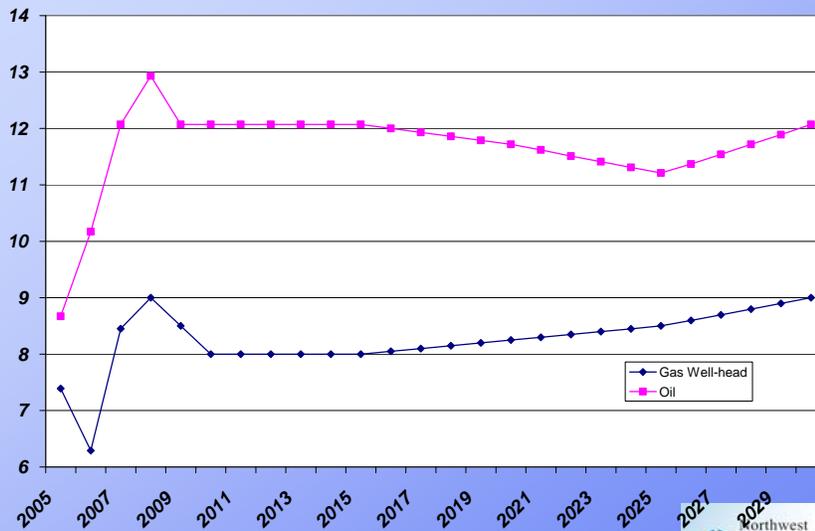
How Council Fuel Price Forecasts are Developed

- Staff analysis of historical trends, market assessments, and other long-term forecasts
- Discuss proposed assumptions with Natural Gas Advisory Committee
- Public comment on proposed assumptions
- But, long-term trend forecasts are not all that goes into the Council's Power Plan



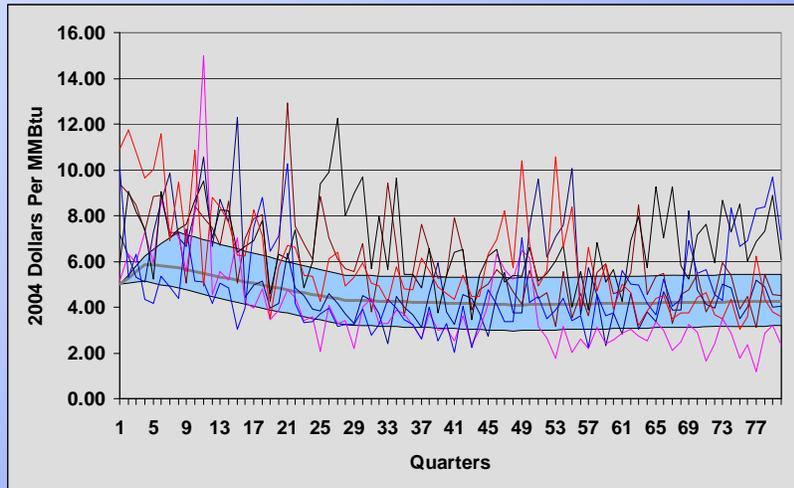
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Fossil Fuel Prices \$1985 /mmbtu



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Example risk treatment – natural gas prices



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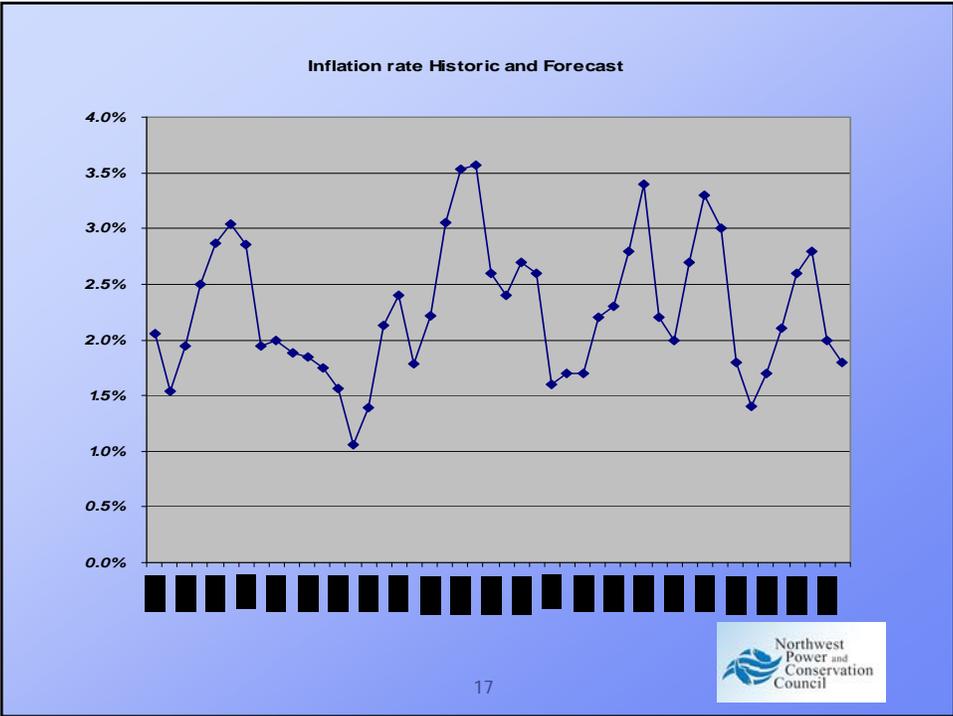


Economic Drivers

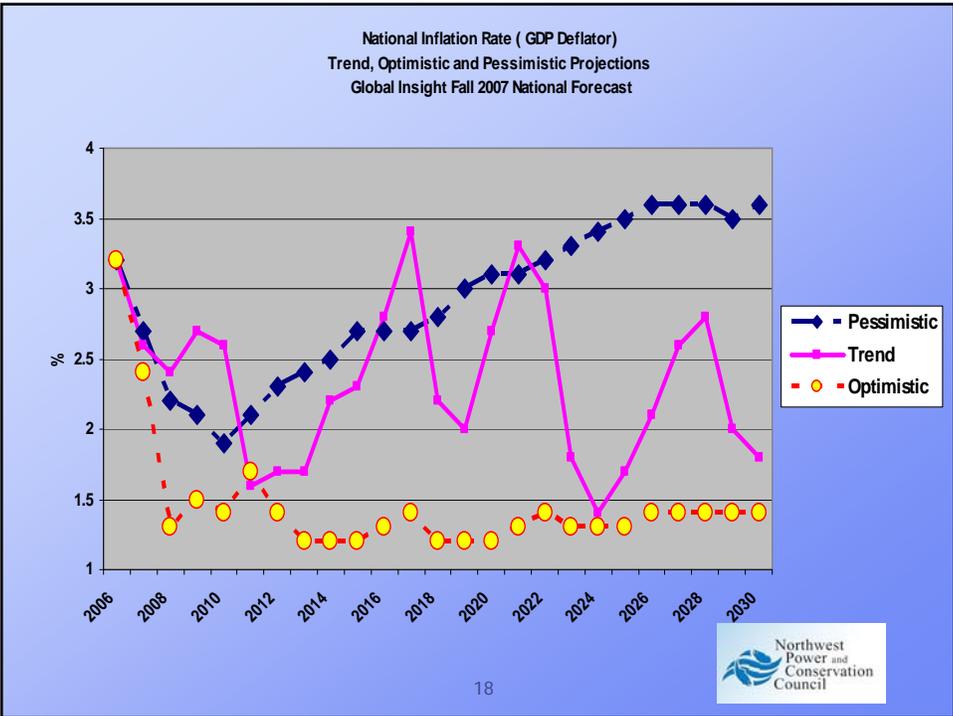
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- Inflation Rate
- Economic and Demographic factors
 - Residential homes
 - Commercial square footage
 - Industrial output
 - Transportation (sectoral income and output)

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Economic Drivers

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Economic and Demographic factors

- Population
- Income
- Number of Homes
- Square footage of Commercial Buildings
- Output of Industrial sector
- Economic drivers for the 6th plan _draft.xls

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Summary of Economic Factors

Sector Drivers:	1985	2007	2030
Population (000)	8,894	12,743	16,196
Residential (000's units)	3,665	5,616	7,715
Commercial Floor space (millions of SQF)	1,751	2,905	3,881
Manufacturing Output (billions \$2000)	34	84	155
Agriculture Output (billions of \$2000)	5	12	25
Transportation: Passenger cars (billions of \$ of income \$2000)	183	396	781

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Table 1-B Comparison of Annual Growth Rate

	5th Plan	6th Plan Draft
	2005-2025	2010-2030
Residential	1.5%	1.4%
Commercial	1.4%	1.2%
Industrial	2.8%	2.7%
Agriculture	2.5%	2.3%
Transportation	3.2%	2.9%

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Historic & Forecast Growth Rates

Sectoral Growth Rates					
Population	1997-2006	2007-2030	Residential Building Stock	1997-2006	2007-2030
Idaho	2.0%	1.8%	Idaho	2.8%	2.1%
Montana	0.7%	0.4%	Montana	1.1%	0.9%
Oregon	1.3%	1.1%	Oregon	1.8%	1.4%
Washington	1.3%	0.9%	Washington	1.8%	1.2%
Com. Employment	1997-2006	2007-2030	Commercial Building Stock	1997-2006	2007-2030
Idaho	3.1%	1.5%	Idaho	4.1%	1.6%
Montana	2.0%	0.9%	Montana	1.5%	1.0%
Oregon	1.5%	1.2%	Oregon	2.7%	1.3%
Washington	2.0%	1.0%	Washington	2.3%	1.1%
Ind. Employment	1997-2006	2007-2030	Industrial Output	1997-2006	2007-2030
Idaho	-0.4%	0.2%	Idaho	14.5%	3.5%
Montana	-1.0%	1.2%	Montana	0.4%	3.9%
Oregon	-1.0%	0.1%	Oregon	12.4%	2.6%
Washington	-2.2%	-0.2%	Washington	4.0%	2.4%
Source: Global Insight- Fall 2007 Forecast					

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Residential Sector Drivers

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Housing Stock in the Region

Regional (millions)	1985	2005	2030	1985-2005	2005-2030
Single Family	2,765	3,918	5,532	1.8%	1.4%
Multi Family	570	943	1,430	2.5%	1.7%
Other Family	330	572	753	2.8%	1.1%

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State level Housing Stock

	1985	2005	2010	2015	2020	2025	2030	2010-2030
Oregon_Single Family	856	1,179	1,272	1,373	1,479	1,584	1,691	1.44%
Oregon_Multi Family	174	283	311	336	363	391	430	1.63%
Oregon_Other Family	102	192	204	216	228	240	252	1.06%
Washington_Single Family	1,353	1,959	2,116	2,258	2,392	2,515	2,629	1.09%
Washington_Multi Family	327	559	611	664	719	776	836	1.58%
Washington_Other Family	133	232	252	270	282	299	313	1.10%
Idaho_Single Family	304	489	553	622	694	772	854	2.19%
Idaho_Multi Family	34	56	63	71	80	89	98	2.24%
Idaho_Other Family	48	81	85	89	93	97	102	0.91%
Montana_Single Family	251	290	302	314	328	343	359	0.87%
Montana_Multi Family	35	45	48	52	55	60	65	1.48%
Montana_Other Family	47	68	72	76	79	83	86	0.91%

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Commercial sector Drivers

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Commercial Floor Space Projections

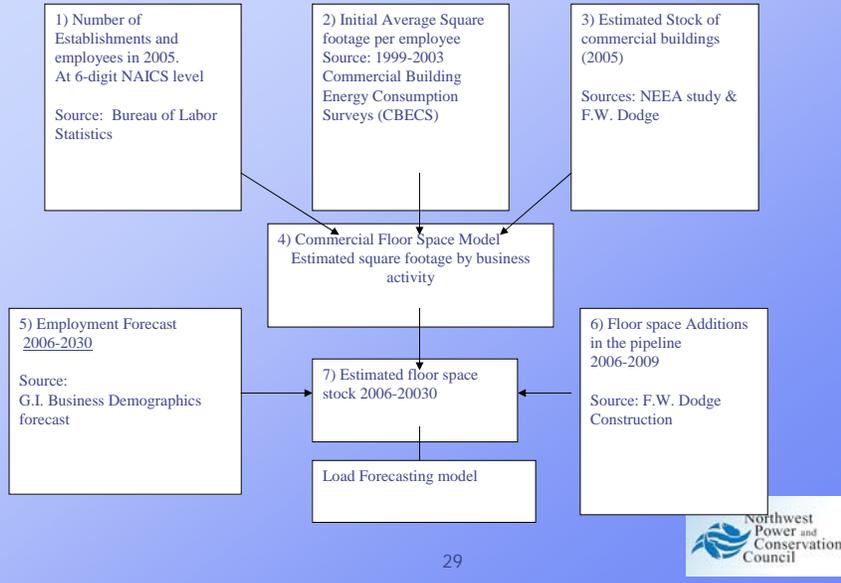
- 18 building types
- New Floor space projected based on SQF per employee
- Existing floor space retired.

Large Office
Medium Office
Small Office
Big Box-Retail
Small Box-Retail
High End-Retail
Anchor-Retail
K-12
University
Warehouse
Supermarket
MiniMart
Restaurant
Lodging
Hospital
OtherHealth
Assembly
Other

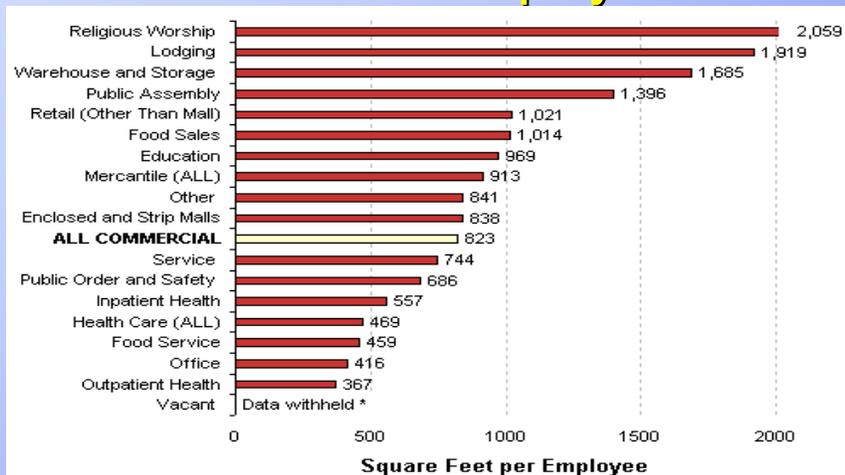
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Analytical Approach to estimating Commercial Floor space Requirements



Initial SQF/employee



Note: "Mercantile (ALL)" includes both "Retail (Other Than Mall)" and "Enclosed and Strip Malls"; "Health Care (ALL)" includes both "Inpatient Health" and "Outpatient Health".
* Relative Standard Error (RSE) greater than 50 percent or fewer than 20 buildings sampled.
Source: Energy Information Administration, 1999 Commercial Buildings Energy Consumption Survey.

Regional Floor Space Additions



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Stock of Commercial Floor Space

millions of SQF

Regional (millions)	1985	2005	2030	1985-2005	2005-2030
Large Office	190	255	399	1.5%	1.8%
Medium Office	49	115	180	4.3%	1.8%
Small Office	90	135	211	2.1%	1.8%
Big Box-Retail	20	119	149	9.4%	0.9%
Small Box-Retail	171	220	276	1.3%	0.9%
High End-Retail	44	55	69	1.1%	0.9%
Anchor-Retail	98	106	133	0.4%	0.9%
K-12	155	237	303	2.2%	1.0%
University	77	118	152	2.2%	1.0%
Warehouse	170	331	549	3.4%	2.0%
Supermarket	43	54	60	1.2%	0.4%
MiniMart	5	22	28	7.3%	0.9%
Restaurant	36	48	62	1.5%	1.1%
Lodging	116	162	217	1.7%	1.2%
Hospital	39	64	93	2.5%	1.5%
OtherHealth	85	137	199	2.5%	1.5%
Assembly	123	202	298	2.5%	1.6%
Other	240	396	503	2.5%	1.0%

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Oregon Historic and Forecast Commercial Floor Space Stock

Millions of Sq Feet	1985	2005	2010	2015	2020	2030	2010-2030 Growth rate
Oregon_Large Office	35	53	59	67	76	93	2.28%
Oregon_Medium Office	9	24	27	30	34	42	2.28%
Oregon_Small Office	17	28	31	36	40	49	2.28%
Oregon_Big Box-Retail	6	37	41	43	45	49	0.89%
Oregon_Small Box-Retail	57	69	76	80	84	90	0.89%
Oregon_High End-Retail	14	17	19	20	21	23	0.89%
Oregon_Anchor-Retail	32	33	37	39	40	44	0.89%
Oregon_K-12	18	38	42	44	45	47	0.58%
Oregon_University	9	20	22	23	25	26	0.83%
Oregon_Warehouse	78	131	147	163	180	213	1.89%
Oregon_Supermarket	8	9	9	10	10	10	0.49%
Oregon_Minimart	1	4	4	4	4	4	0.25%
Oregon_Restaurant	12	15	16	17	17	19	0.91%
Oregon_Lodging	37	52	55	61	64	72	1.34%
Oregon_Hospital	9	18	21	23	25	29	1.61%
Oregon_OtherHealth	16	33	38	41	44	51	1.44%
Oregon_Assembly	21	43	50	57	64	78	2.19%
Oregon_Other	40	84	96	100	104	112	0.79%

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Washington Historic and Forecast Commercial Floor Space Stock

Millions of Sq Feet	1985	2005	2010	2015	2020	2030	2010-2030 Growth rate
Washington_Large Office	134	172	187	199	212	242	1.30%
Washington_Medium Office	35	77	84	90	95	109	1.30%
Washington_Small Office	63	91	99	105	112	128	1.30%
Washington_Big Box-Retail	12	69	75	76	78	82	0.46%
Washington_Small Box-Retail	99	127	138	141	144	151	0.46%
Washington_High End-Retail	26	32	34	35	36	38	0.46%
Washington_Anchor-Retail	59	61	67	68	70	73	0.46%
Washington_K-12	105	152	167	176	184	193	0.72%
Washington_University	54	77	84	88	92	99	0.82%
Washington_Warehouse	65	156	179	198	220	262	1.92%
Washington_Supermarket	26	32	32	33	34	35	0.45%
Washington_Minimart	3	13	13	14	15	16	0.89%
Washington_Restaurant	19	25	26	27	29	31	0.95%
Washington_Lodging	46	69	77	83	87	97	1.10%
Washington_Hospital	24	36	38	40	42	47	1.07%
Washington_OtherHealth	51	77	84	90	96	109	1.27%
Washington_Assembly	85	130	141	146	151	163	0.71%
Washington_Other	165	254	285	293	301	316	0.52%

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Montana Historic and Forecast Commercial Floor Space Stock

Millions of Sq Feet	1985	2005	2010	2015	2020	2030	2010-2030 Growth rate
Montana Large Office	16	17	18	20	22	26	1.84%
Montana Medium Office	4	8	8	9	10	12	1.84%
Montana Small Office	8	9	10	10	11	14	1.84%
Montana Big Box-Retail	1	6	7	7	7	8	0.80%
Montana Small Box-Retail	9	11	13	13	14	15	0.80%
Montana High End-Retail	2	3	3	3	3	4	0.80%
Montana Anchor-Retail	5	5	6	6	7	7	0.80%
Montana K-12	17	21	23	24	24	26	0.67%
Montana University	6	8	10	10	10	11	0.60%
Montana Warehouse	15	19	20	22	24	28	1.63%
Montana Supermarket	5	6	6	6	6	6	0.43%
Montana MiniMart	1	2	2	2	2	2	0.38%
Montana Restaurant	3	4	4	5	5	6	1.09%
Montana Lodging	22	25	26	27	27	28	0.32%
Montana Hospital	3	4	5	5	6	6	1.28%
Montana OtherHealth	5	10	10	11	12	14	1.61%
Montana Assembly	8	11	13	14	15	19	1.99%
Montana Other	16	21	23	24	25	27	0.96%

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Idaho Historic and Forecast Commercial Floor Space Stock

Millions of Sq Feet	1985	2005	2010	2015	2020	2030	2010-2030 Growth rate
Idaho Large Office	5	14	18	22	27	37	3.66%
Idaho Medium Office	1	6	8	10	12	17	3.66%
Idaho Small Office	2	7	10	12	14	20	3.66%
Idaho Big Box-Retail	1	7	9	9	10	11	1.00%
Idaho Small Box-Retail	6	13	16	17	18	20	1.00%
Idaho High End-Retail	1	3	4	4	5	5	1.00%
Idaho Anchor-Retail	3	6	8	8	9	10	1.00%
Idaho K-12	14	26	31	33	35	37	0.85%
Idaho University	7	13	15	15	16	17	0.79%
Idaho Warehouse	12	26	30	33	37	46	2.19%
Idaho Supermarket	4	8	8	8	9	9	0.43%
Idaho MiniMart	0	3	3	4	4	5	2.07%
Idaho Restaurant	2	4	4	5	5	7	2.62%
Idaho Lodging	10	16	18	19	19	20	0.52%
Idaho Hospital	3	6	7	8	9	10	1.83%
Idaho OtherHealth	11	17	19	21	22	25	1.30%
Idaho Assembly	9	17	21	24	28	39	3.18%
Idaho Other	18	37	40	42	44	47	0.79%

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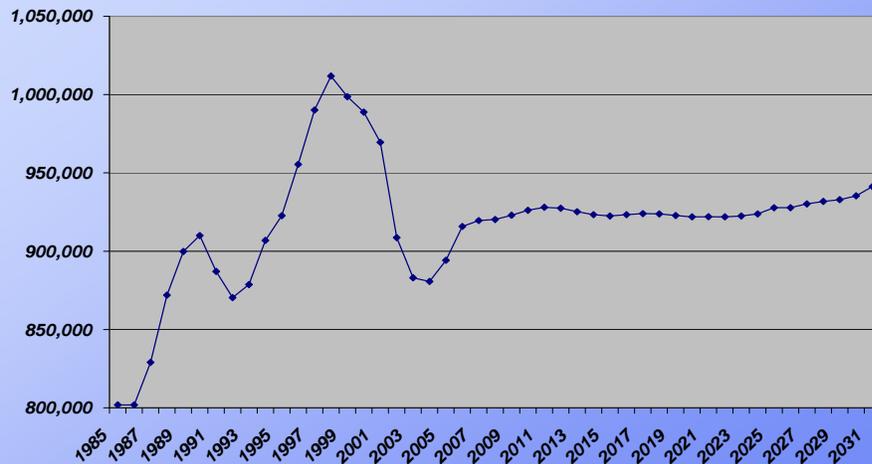
Industrial Sector Driver (non-DSI)

- Sector output (in year 2000 dollars) was forecast using:
 - \$ of Output/unit of labor in 2005
 - Average annual growth rate in output per labor (1997-2005)
 - State and Sector level forecast of labor growth rate for 2006-2030, (Global Insight forecast Fall 2007)

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Total Industrial Employment (4 states)



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Employment Shares	1985	2000	2007	2015	2020	2030
Food & Tobacco	8.9%	9.2%	9.3%	9.7%	10.0%	10.0%
Lumber	12.6%	7.8%	7.5%	7.7%	7.6%	7.1%
Leather	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%
Apparel	1.0%	0.8%	0.7%	0.5%	0.5%	0.4%
Chemicals	2.2%	1.4%	1.5%	1.6%	1.7%	1.7%
Electric Equipment	1.3%	0.8%	1.0%	1.0%	1.0%	1.0%
Fabricated Metals	3.6%	4.6%	5.1%	5.7%	5.9%	6.3%
Furniture	3.4%	2.3%	2.6%	2.7%	2.9%	3.2%
Machines & Computer	8.2%	14.2%	13.0%	13.3%	13.6%	13.6%
Paper	3.2%	2.5%	2.2%	2.2%	2.1%	2.0%
Petroleum Products	0.4%	0.4%	0.5%	0.5%	0.5%	0.4%
Aluminum	2.5%	2.2%	1.6%	1.4%	1.4%	1.4%
Primary Metals	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%
Printing	4.7%	10.5%	12.1%	14.4%	15.5%	18.6%
Rubber	1.2%	2.1%	2.2%	2.2%	2.1%	1.9%
Stone, Clay, etc.	1.8%	1.8%	2.2%	2.5%	2.5%	2.5%
Textiles	0.6%	0.6%	0.5%	0.5%	0.5%	0.6%
Transport Equipment	13.1%	11.4%	8.8%	6.8%	5.6%	4.2%
Other Manufacturing	2.7%	3.1%	3.6%	4.1%	4.5%	5.1%
Mining	2.6%	1.9%	2.4%	2.0%	1.9%	2.0%
Agriculture	25.9%	22.2%	23.2%	21.1%	20.0%	17.9%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Output per employee

Base Year: 1997	NAICS	1997	2002	2005	Growth Rate
Food manufacturing	311	100	113	121	2%
Beverage and tobacco product manufacturing	312	100	80	98	-0.2%
Textile mills	313	100	122	144	5%
Textile product mills	314	100	106	133	4%
Apparel manufacturing	315	100	106	113	2%
Leather and allied product manufacturing	316	100	93	120	2%
Wood product manufacturing	321	100	110	119	2%
Paper manufacturing	322	100	110	123	3%
Printing and related support activities	323	100	108	117	2%
Petroleum and coal products manufacturing	324	100	117	129	3%
Chemical manufacturing	325	100	112	130	3%
Plastics and rubber products manufacturing	326	100	118	128	3%
Nonmetallic mineral product manufacturing	327	100	105	114	2%
Primary metal manufacturing	331	100	110	132	4%
Fabricated metal product manufacturing	332	100	107	113	2%
Machinery manufacturing	333	100	109	129	3%
Computer and electronic product manufacturing	334	100	175	244	12%
Electrical equipment, appliance, and component manufacturing	335	100	109	126	3%
Transportation equipment manufacturing	336	100	123	135	4%
Furniture and related product manufacturing	337	100	113	126	3%
Miscellaneous manufacturing	339	100	121	142	4%

Average Output/employee (\$2000)				
Sector	1997		2005	
Agriculture	\$	36,412	\$	50,007
Food & Tobacco	\$	52,432	\$	51,168
Lumber	\$	49,252	\$	60,653
Textiles	\$	30,223	\$	38,746
Apparel	\$	33,195	\$	18,923
Chemicals	\$	75,945	\$	102,509
Electric Equipment	\$	58,892	\$	69,905
Fabricated Metals	\$	45,547	\$	58,911
Furniture	\$	30,370	\$	40,445
Leather	\$	29,243	\$	24,140
Machines & Computer	\$	50,903	\$	280,923
Mining	\$	48,302	\$	50,256
Other Primary Metals	\$	41,153	\$	54,464
Paper	\$	131,776	\$	126,720
Petroleum Products	\$	131,013	\$	157,337
Printing	\$	13,002	\$	12,464
Rubber	\$	49,807	\$	59,491
Stone, Clay, etc.	\$	59,133	\$	76,682
Transport Equipment	\$	91,691	\$	97,480
Other Manufacturing	\$	36,198	\$	53,863
Grand Total	\$	54,724	\$	74,254



Industrial Sector Output (Idaho)

Idaho	1997	2005	2010	2015	2020	2025	2030	2010-2030
								GrowthRate
Food & Tobacco	1.03	0.73	0.79	0.86	0.96	1.05	1.16	2.0%
Textiles	0.01	0.01	0.01	0.02	0.03	0.04	0.05	5.9%
Apparel	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.7%
Lumber	0.52	0.48	0.53	0.59	0.61	0.63	0.67	1.2%
Furniture	0.07	0.10	0.11	0.13	0.14	0.16	0.20	2.8%
Paper	0.20	0.12	0.13	0.14	0.14	0.15	0.16	1.0%
Printing	0.09	0.09	0.11	0.13	0.14	0.16	0.18	2.7%
Chemicals	0.21	0.26	0.34	0.41	0.49	0.58	0.67	3.5%
Petroleum Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3%
Rubber	0.06	0.11	0.12	0.13	0.14	0.15	0.16	1.4%
Leather	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-3.5%
Stone, Clay, etc.	0.07	0.10	0.13	0.15	0.16	0.17	0.19	1.8%
Aluminum	-	-	-	-	-	-	-	-
Other Primary Metals	0.01	0.02	0.04	0.05	0.07	0.10	0.13	6.4%
Fabricated Metals	0.18	0.23	0.32	0.40	0.47	0.57	0.67	3.9%
Machines & Computer	0.66	7.83	10.34	12.38	14.90	17.79	21.10	3.6%
Electric Equipment	0.03	0.03	0.04	0.04	0.05	0.06	0.07	3.0%
Transport Equipment	0.09	0.20	0.28	0.32	0.34	0.36	0.40	1.9%
Other Manufacturing	0.08	0.17	0.26	0.36	0.49	0.68	0.92	6.5%
Mining	0.14	0.13	0.15	0.16	0.18	0.20	0.22	1.8%
Agriculture	1.37	1.84	2.09	2.31	2.59	2.91	3.28	2.3%



Industrial Sector Output (Montana)

Montana	1997	2005	2010	2015	2020	2025	2030	2010-2030 GrowthRate
Food & Tobacco	0.12	0.12	0.16	0.18	0.22	0.27	0.32	3.6%
Textiles	0.01	0.01	0.01	0.01	0.02	0.03	0.05	8.9%
Apparel	0.00	0.00	0.00	0.00	0.00	0.01	0.01	2.5%
Lumber	0.32	0.31	0.33	0.36	0.39	0.42	0.46	1.6%
Furniture	0.04	0.03	0.04	0.05	0.07	0.09	0.11	5.0%
Paper	0.11	0.08	0.11	0.14	0.18	0.22	0.27	4.8%
Printing	0.03	0.04	0.05	0.06	0.06	0.07	0.08	2.7%
Chemicals	0.04	0.05	0.07	0.10	0.13	0.18	0.23	6.1%
Petroleum Products	0.15	0.08	0.11	0.12	0.14	0.16	0.18	2.7%
Rubber	0.01	0.01	0.02	0.02	0.03	0.04	0.04	4.1%
Leather	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.5%
Stone, Clay, etc.	0.07	0.09	0.10	0.12	0.14	0.16	0.18	3.0%
Aluminum	0.04	0.00	0.01	0.01	0.02	0.02	0.03	4.3%
Other Primary Metals	0.04	0.02	0.01	0.01	0.02	0.02	0.03	4.3%
Fabricated Metals	0.05	0.06	0.09	0.12	0.15	0.19	0.22	4.8%
Machines & Computer	0.11	0.17	0.23	0.28	0.32	0.40	0.48	3.6%
Electric Equipment	0.01	0.01	0.01	0.01	0.01	0.01	0.02	4.0%
Transport Equipment	0.04	0.03	0.05	0.07	0.08	0.10	0.12	4.7%
Other Manufacturing	0.07	0.09	0.13	0.18	0.25	0.33	0.44	6.1%
Mining	0.64	0.77	0.92	1.01	1.14	1.30	1.47	2.4%
Agriculture	0.76	1.04	1.34	1.67	2.07	2.57	3.17	4.4%

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Industrial Sector Output (Oregon)

Oregon	1997	2005	2010	2015	2020	2025	2030	2010-2030 GrowthRate
Food & Tobacco	1.50	1.68	1.96	2.22	2.49	2.76	3.06	2.3%
Textiles	0.03	0.06	0.07	0.09	0.12	0.16	0.21	5.8%
Apparel	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.1%
Lumber	2.18	2.25	2.25	2.51	2.71	2.87	3.09	1.6%
Furniture	0.28	0.47	0.53	0.66	0.82	1.01	1.22	4.3%
Paper	1.00	1.11	1.17	1.36	1.57	1.81	2.11	3.0%
Printing	0.52	0.44	0.53	0.60	0.66	0.75	0.85	2.5%
Chemicals	0.33	0.45	0.54	0.65	0.75	0.86	0.99	3.1%
Petroleum Products	0.04	0.02	0.03	0.04	0.05	0.05	0.06	3.4%
Rubber	0.43	0.46	0.53	0.61	0.69	0.78	0.90	2.7%
Leather	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.6%
Stone, Clay, etc.	0.36	0.47	0.49	0.55	0.60	0.65	0.71	1.8%
Aluminum	0.07	0.07	0.11	0.11	0.11	0.11	0.11	0.1%
Other Primary Metals	0.49	0.89	0.99	1.20	1.47	1.80	2.20	4.1%
Fabricated Metals	1.08	1.19	1.37	1.58	1.80	2.06	2.34	2.7%
Machines & Computer	4.05	26.71	29.60	32.48	37.07	42.29	48.66	2.5%
Electric Equipment	0.17	0.22	0.27	0.34	0.41	0.50	0.59	3.9%
Transport Equipment	1.03	0.93	1.26	1.64	1.99	2.39	2.86	4.2%
Other Manufacturing	0.38	0.56	0.77	1.02	1.37	1.84	2.36	5.8%
Mining	0.09	0.13	0.16	0.18	0.21	0.24	0.26	2.6%
Agriculture	2.62	3.36	4.50	5.76	7.30	9.12	11.22	4.7%

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Industrial Sector Output (Washington)

Washington	1997	2005	2010	2015	2020	2025	2030	2010-2030
								GrowthRate
Food & Tobacco	2.82	2.29	2.63	2.99	3.41	3.79	4.19	2.4%
Textiles	0.15	0.12	0.14	0.19	0.25	0.33	0.43	5.7%
Apparel	0.14	0.10	0.10	0.10	0.10	0.09	0.10	-0.3%
Lumber	1.11	1.44	1.71	1.98	2.23	2.46	2.67	2.2%
Furniture	0.29	0.47	0.61	0.76	0.94	1.17	1.40	4.2%
Paper	2.04	1.66	1.84	2.14	2.45	2.73	3.08	2.6%
Printing	0.55	0.54	0.73	0.92	1.12	1.43	1.76	4.5%
Chemicals	0.58	0.63	0.84	1.03	1.27	1.51	1.78	3.8%
Petroleum Products	0.55	1.10	1.45	1.72	1.97	2.13	2.31	2.3%
Rubber	0.51	0.75	0.94	1.06	1.18	1.26	1.37	1.9%
Leather	0.01	0.02	0.02	0.02	0.02	0.01	0.01	-1.7%
Stone, Clay, etc.	0.72	0.93	1.28	1.50	1.74	1.98	2.18	2.7%
Aluminum	0.42	0.11	0.31	0.35	0.41	0.48	0.57	3.2%
Other Primary Metals	0.38	0.40	0.28	0.32	0.38	0.44	0.53	3.2%
Fabricated Metals	1.10	1.54	2.02	2.33	2.65	3.02	3.39	2.6%
Machines & Computer	1.40	4.73	6.93	8.51	10.39	12.34	14.21	3.7%
Electric Equipment	0.25	0.55	0.75	0.89	1.01	1.13	1.26	2.6%
Transport Equipment	6.73	9.32	9.97	8.99	8.32	7.83	8.21	-1.0%
Other Manufacturing	0.68	0.80	1.19	1.54	2.02	2.65	3.35	5.3%
Mining	0.25	0.17	0.18	0.20	0.22	0.25	0.27	2.0%
Agriculture	3.62	4.54	5.05	5.60	6.24	6.93	7.69	2.1%

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Direct Service Industries

Table 10- DSI Average Load

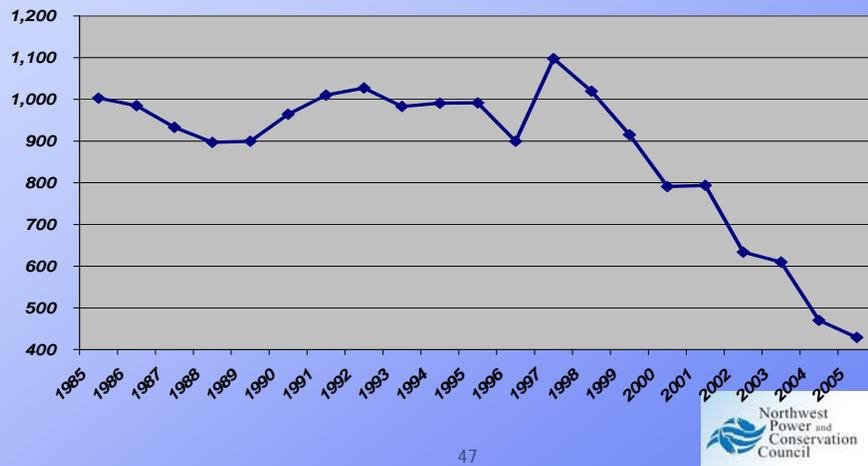
	DSI Average MW
2008	711
2009	711
2010	711
2011	736
2012	838
2013	838
2014	838
2015	838
2016	838
2017	838
2018	838
2019	838
2020	838
2021	838
2022	838
2023	838
2024	838
2025	838
2026	838
2027	838
2028	838
2029	838
2030	838

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Declining Electricity Intensity?

Non DSI
KWH/1000 dollars of output (\$2000)



Transportation Sector Drivers

- Residential sector driver ... Income
- C&I sector drivers... output

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Transportation sector drivers

/Oregon	1997	2005	2010	2015	2020	2025	2030	2010-2030 GrowthRate
Passenger	85	105	126	147	170	196	223	2.9%
Freight	120	155	190	226	270	325	397	3.7%
Off Road	14	13	13	14	15	15	15	0.5%

/Washington	1997	2005	2010	2015	2020	2025	2030	2010-2030 GrowthRate
Passenger	158	200	241	278	320	371	427	2.9%
Freight	224	290	354	414	487	579	694	3.4%
Off Road	26	29	27	27	25	24	22	-1.0%

/Idaho	1997	2005	2010	2015	2020	2025	2030	2010-2030 GrowthRate
Passenger	27	37	45	52	61	71	81	3.0%
Freight	42	65	89	114	146	194	264	5.6%
Off Road	6	7	7	7	6	6	6	-0.4%

/Montana	1997	2005	2010	2015	2020	2025	2030	2010-2030 GrowthRate
Passenger	19	24	30	35	40	46	51	2.7%
Freight	34	43	51	57	66	77	90	2.9%
Off Road	4	6	6	6	7	7	7	0.8%

