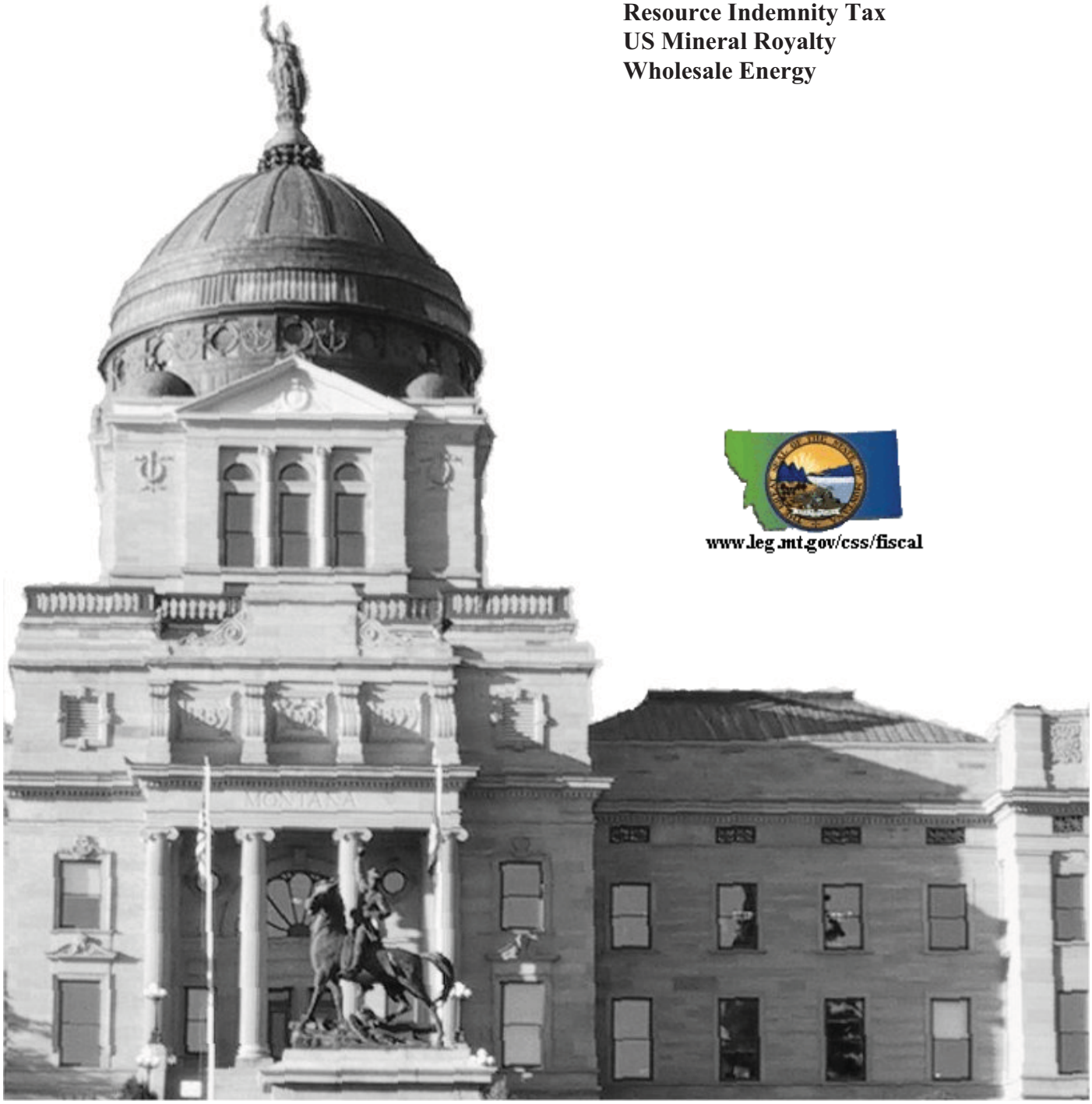
Natural Resource Taxes

Coal Severance Tax
Electrical Energy Tax
Federal Forest Receipts
Metalliferous Mines Tax
Oil & Natural Gas Production Tax
Resource Indemnity Tax
US Mineral Royalty
Wholesale Energy



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Legislative Fiscal Division

Revenue Estimate Profile

Coal Severance Tax

Revenue Description: For large producers, the coal severance tax is imposed on all coal production in excess of 20,000 tons per company per calendar year. However, producers of 50,000 tons or less in any calendar year are exempt from the tax.

Statutory Reference:

Tax Rate (MCA) – 15-35-103
Tax Distribution (MCA) – Montana Constitution, Article IX, Section 5; 15-35-108; 17-5-703
Date Due – the report to the Department of Revenue and tax is due 30 days following the close of the quarter (15-35-104)

Applicable Tax Rate(s):

10.0% - on the value of surfaced mined coal with a heating quality < 7,000 BTU
15.0% - on the value surfaced mined coal with a heating quality ≥ 7,000 BTU
3.0% - on the value underground mined coal with a heating quality < 7,000 BTU
4.0% - on the value underground mined coal with a heating quality ≥ 7,000 BTU
3.75% - on the value of auger mined coal with a heating quality < 7,000 BTU
5.0 % - on the value of auger mined coal with a heating quality ≥ 7,000 BTU

Distribution: (Percentage)

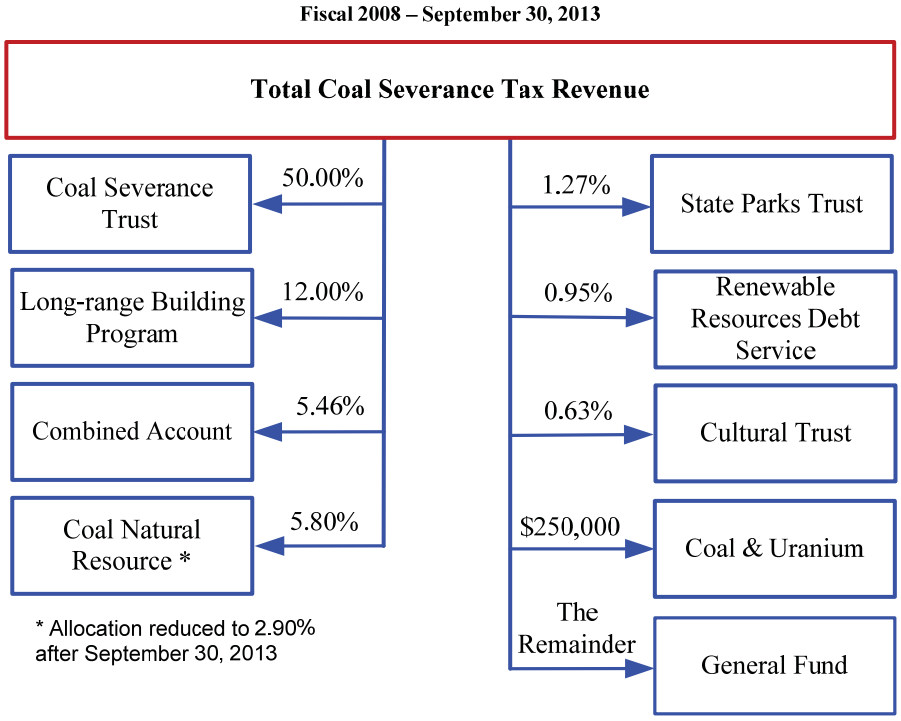
Account Name	Fiscal 1998 - 1999	Fiscal 2000 - 2002	Fiscal 2003	Fiscal 2004 - 2005	Fiscal 2006 - 2007	Fiscal 2008 - 2013*
Permanent Trust	25.000	0.000	0.000	12.500	0.000	0.000
Treasure State Endowment	25.000	37.500	37.500	25.000	25.000	25.000
TSEP Regional Water	0.000	12.500	12.500	12.500	12.500	12.500
Big Sky Economic Development	0.000	0.000	0.000	0.000	12.500	12.500
LRBP-Cash Account	12.000	12.000	10.000	12.000	12.000	12.000
Coal Natural Resource *	0.000	0.000	0.000	0.000	2.900	5.80*
Shared Account * *	8.360	8.360	6.010	7.750	5.460	5.460
Park Acquisition Trust	1.270	1.270	0.000	1.270	1.270	1.270
Water Development	0.950	0.950	0.950	0.950	0.950	0.950
Cultural Trust	0.000	0.630	0.000	0.630	0.630	0.630
Coal & Uranium	0.000	0.000	0.000	0.000	0.000	$250,000
LRBP-Debt Service	1.300	0.000	0.000	0.000	0.000	0.000
Cultural & Aesthetic Projects	0.870	0.000	0.000	0.000	0.000	0.000
General Fund	25.250	26.790	33.040	27.400	26.790	Remainder

50

* Allocation reduced to 2.90% after September 30, 2013

** Used for Growth Through Agriculture, State Library, Conservation Districts, Coal Board (before FY 2006), and County Land Planning (before FY 2004)

Distribution Chart:



Collection Frequency: Quarterly: The coal severance tax is due 30 days after the end of the quarter.

% of Total General Fund Revenue:

FY 2004 – 0.63%	FY 2007 – 0.59%	FY 2010 – 0.63%
FY 2005 – 0.67%	FY 2008 – 0.61%	
FY 2006 – 0.56%	FY 2009 – 0.72%	

Revenue Estimate Methodology:

The coal severance tax is applied to the value of coal produced. The coal severance tax estimate is developed by estimating the annual contract sales price and production for each producing coal company and any company anticipated to be producing within the 3-year period in question. From these estimates, taxable value can be determined to which the tax rate is applied. Since all production and price information is reported on a calendar year basis, the resulting calendar year estimates are converted into fiscal year estimates.

Data

Major coal companies are surveyed for anticipated production levels and general indications of coal prices. In addition, a review is performed of historical trends and current literature on coal prices. Data from quarterly reports produced by DOR provide a history of production and prices for individual coal companies. These companies are:

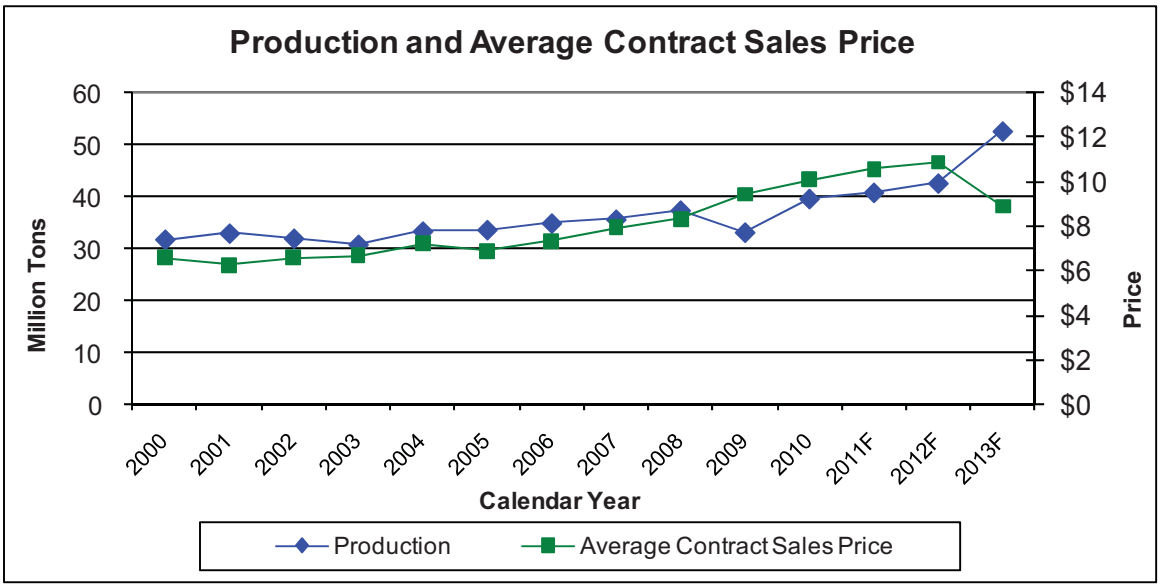
Decker Coal Company
Spring Creek Coal Company
Western Energy Company
Westmoreland Savage Corporation
Signal Peak (Bull Mountain)

Analysis

The taxable value of coal is determined in a three-step process:

1. The future coal production for each company, as reported on the survey, is reduced by the exempt amount of 20,000 tons to get taxable tons.
2. To determine the future price for each company's coal, the company's average contract sales price for the last year increased by 1.7%, the average price increase in FY 2010. The average contract sales price for all companies is shown in the figure below.
3. The estimated production and price for each company are multiplied together and the product for all companies summed to obtain the total taxable value.

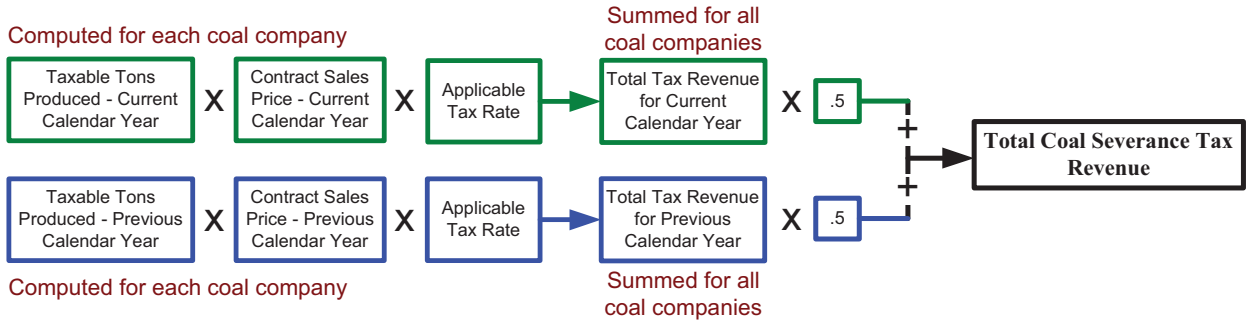
The taxable value is multiplied by the applicable tax rate (3, 3.75, 4, 5, 10 or 15%) to determine total coal severance tax revenue. At this point the total represents estimates for calendar years. To convert the estimates to a fiscal year basis, half the previous calendar year's estimate is added to the half of the current calendar year's estimate.



Adjustments and Distribution

Once total tax revenue for each fiscal year is determined, the applicable distribution percentages are applied.

Forecast Methodology:



Legislative Fiscal Division

Revenue Estimate Profile

Coal Severance Tax

Revenue Estimate Assumptions:

	t Fiscal	Total Tax Millions	GF Tax Millions	GF Allocation Percent	Tons (FY) Millions	CSP (FY) Dollars	Fiscal Effective Rate	Coal/ Uranium Millions
Actual	2000	35.469791	9.502357	0.267900	33.592584	6.748571	0.156460	
Actual	2001	32.337172	8.663128	0.267900	32.318260	6.230669	0.160590	
Actual	2002	31.614047	8.469404	0.267900	33.148533	6.379990	0.149484	
Actual	2003	29.423547	9.721540	0.330400	30.245710	6.486913	0.149966	
Actual	2004	31.544681	8.643243	0.274000	31.834417	7.218346	0.137275	
Actual	2005	37.634511	10.311856	0.274000	34.191373	6.993260	0.157395	
Actual	2006	35.821524	9.596586	0.267900	34.107005	7.005267	0.149926	
Actual	2007	40.758738	10.919266	0.267900	34.611396	7.551943	0.155935	0.000000
Actual	2008	45.331871	11.894408	0.262385	37.404304	8.133265	0.145303	0.250000
Actual	2009	49.564119	13.028228	0.262856	35.262859	8.844122	0.147414	0.250000
Actual	2010	44.177434	10.321853	0.233645	36.381879	9.783929	0.138094	0.250000
Forecast	2011	51.881000	14.848000	0.238900	40.209814	10.322817	0.124992	0.250000
Forecast	2012	52.350000	13.300000	0.238900	41.700063	10.720199	0.117106	0.250000
Forecast	2013	53.223000	13.552000	0.238900	42.188513	11.028411	0.114391	0.250000

	t Cal	Tons (CY) Millions	CSP (CY) Dollars	Tax Rate	Tax Rate	Calendar Tax	Calendar Effective Rate
Actual	2000	31.784308	6.588243	0.150000	0.100000	31.253448	0.149250
Actual	2001	32.961265	6.266994	0.150000	0.100000	30.883924	0.149510
Actual	2002	31.980880	6.583257	0.150000	0.100000	31.441574	0.149339
Actual	2003	30.802151	6.680719	0.150000	0.100000	30.701209	0.149194
Actual	2004	33.365039	7.233763	0.150000	0.100000	36.030034	0.149282
Actual	2005	33.632110	6.888637	0.150000	0.100000	34.552929	0.149141
Actual	2006	34.903622	7.339225	0.150000	0.100000	37.918860	0.148025
Actual	2007	35.637659	7.949056	0.150000	0.100000	42.153050	0.148800
Actual	2008	37.373123	8.326279	0.150000	0.100000	46.254843	0.148644
Actual	2009	33.152594	9.427889	0.150000	0.100000	45.692934	0.146190
Actual	2010	39.611164	10.081918	0.150000	0.100000	52.618587	0.131758
Forecast	2011	40.808463	10.556647	0.150000	0.100000	51.144232	0.118719
Forecast	2012	42.591663	10.876904	0.150000	0.100000	53.556434	0.115606
Forecast	2013	41.785363	11.182841	0.150000	0.100000	52.889431	0.113186

Total Tax = Tons(FY) × CSP(FY) × Fiscal Effective

GF Tax = (Tons(FY) × CSP(FY) × Fiscal Effective - Coal/Uranium) × GF Allocation

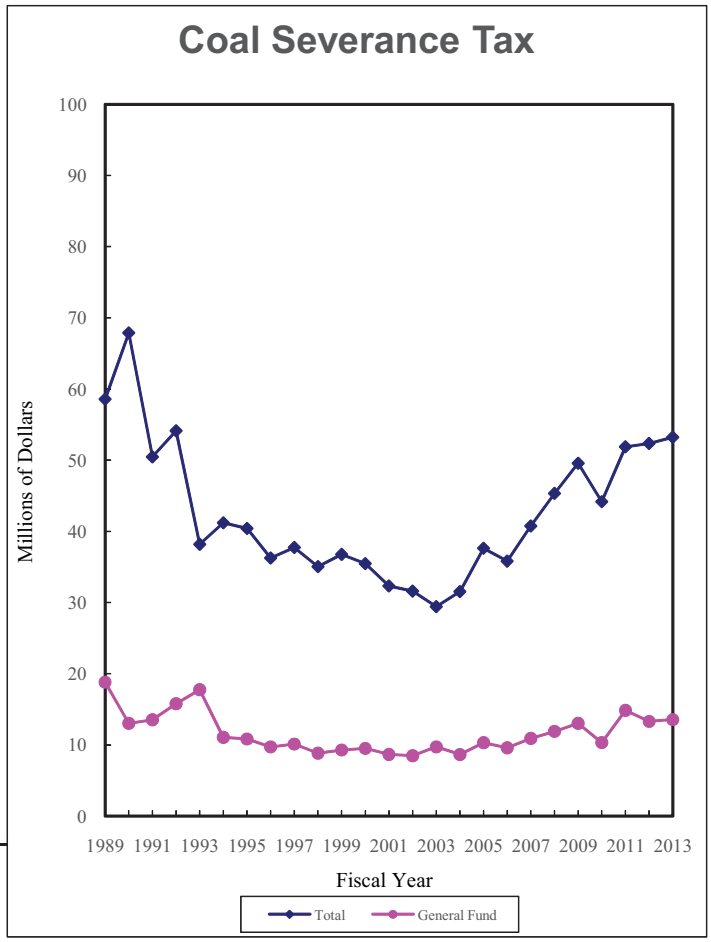
Legislative Fiscal Division

Revenue Estimate Profile

Coal Severance Tax

Revenue Projection:

	Fiscal Year	Total Collections Millions	General Fund Collections Millions	GF Percent Change
A	1989	58.565583	18.805414	Not App.
A	1990	67.870544	13.024366	-0.307400
A	1991	50.457848	13.517663	0.037900
A	1992	54.114107	15.778084	0.167200
A	1993	38.181298	17.744422	0.124600
A	1994	41.200704	11.046468	-0.377500
A	1995	40.416416	10.827741	-0.019800
A	1996	36.260949	9.714308	-0.102800
A	1997	37.740212	10.110603	0.040800
A	1998	35.045243	8.848924	-0.124800
A	1999	36.767488	9.283791	0.049100
A	2000	35.469791	9.502357	0.023500
A	2001	32.337172	8.663128	-0.088300
A	2002	31.614047	8.469404	-0.022400
A	2003	29.423547	9.721540	0.147800
A	2004	31.544681	8.643243	-0.110900
A	2005	37.634511	10.311856	0.193100
A	2006	35.821524	9.596586	-0.069400
A	2007	40.758738	10.919266	0.137800
A	2008	45.331871	11.894408	0.089300
A	2009	49.564119	13.028228	0.095300
A	2010	44.177434	10.321853	-0.207700
F	2011	51.881000	14.848000	0.438500
F	2012	52.350000	13.300000	-0.104300
F	2013	53.223000	13.552000	0.018900



Data Source(s): SABHRS, Department of Revenue Coal Tax Returns

Contacts: Coal Companies' Financial Personnel

Legislative Fiscal Division

Revenue Estimate Profile

Electrical Energy Tax

Revenue Description: The electrical energy license tax is imposed on each person or organization engaged in generating, manufacturing, or producing electrical energy in Montana. This tax is in addition to the wholesale energy transaction tax enacted by the 1999 legislature (HB 174).

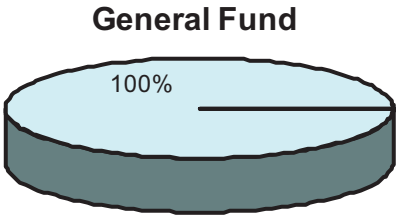
Statutory Reference:

Tax Rate MCA) – 15-51-101
Tax Distribution (MCA) – 17-2-124(2), 15-51-103
Date Due – 30 days after the calendar quarter (15-51-101, 15-51-102)

Applicable Tax Rate(s): The tax of $0.0002 per kilowatt-hour (or $0.20 per megawatt-hour) is levied against all electrical energy produced within the state. A deduction is allowed for "actual and necessary" energy use by the plant for the production of the energy.

Distribution: All proceeds are deposited into the general fund.

Distribution Chart:



Collection Frequency: Quarterly: The electrical energy tax is due 30 days after the end of the quarter.

% of Total General Fund Revenue:

FY 2004 – 0.34%	FY 2007 – 0.25%	FY 2010 – 0.29%
FY 2005 – 0.27%	FY 2008 – 0.26%	
FY 2006 – 0.27%	FY 2009 – 0.27%	

Revenue Estimate Methodology:

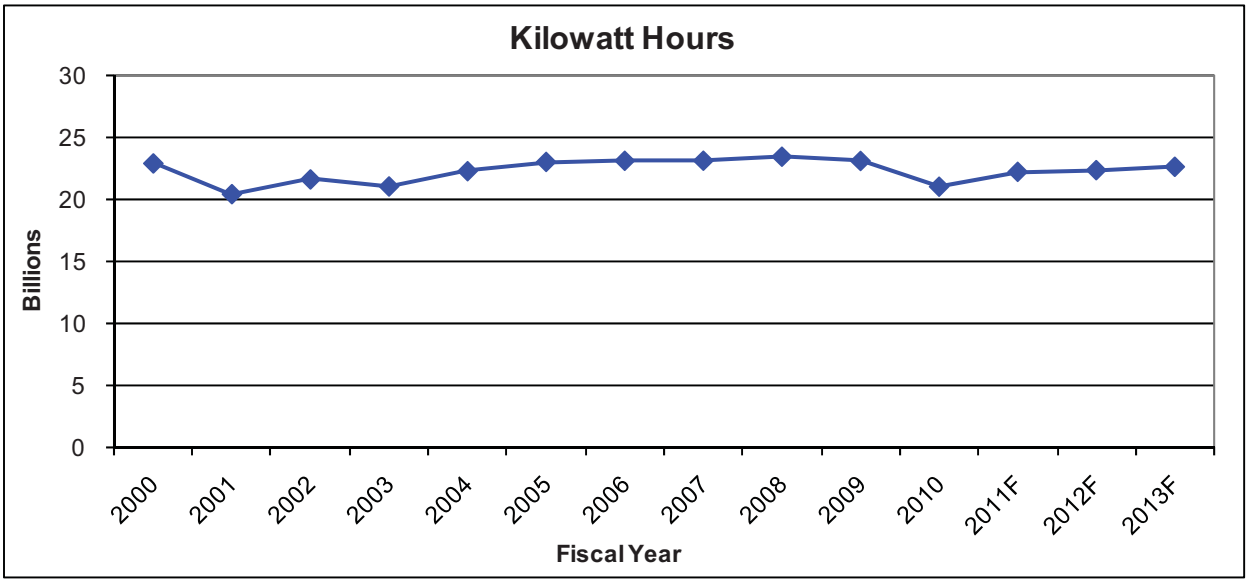
The electrical energy tax is applied to the number of kilowatt hours of electricity produced. The estimate for the tax revenue is derived by estimating the annual taxable kilowatt hours produced by each company and any company anticipated to be producing within the 3-year period in question. From these production estimates, the tax rate is applied.

Data

All electrical energy producing companies were surveyed for anticipated kilowatt hours produced, anticipated new production, and anticipated downtime or reduced production. Although the accuracy in the results of the survey was questionable, the raw data were used to develop growth rates. Data from quarterly reports produced by DOR provide a history of kilowatt hours produced for each individual company.

Analysis

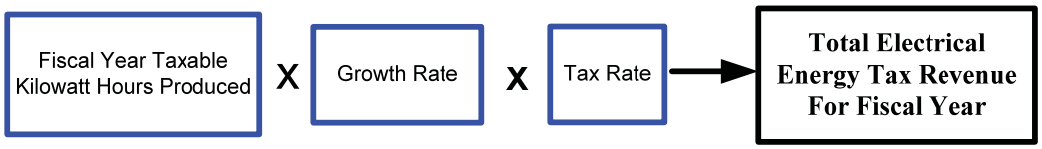
A growth rate based on the change in total yearly production from the actual/estimated year to the amount provided by the surveys was applied to the previous production amount. Taxable kilowatt hours are then multiplied by the tax rate to derive total revenue from this source.



Adjustments and Distribution

Once total tax revenue for each fiscal year is determined, the applicable distribution percentage, 100% to the general fund, is applied.

Forecast Methodology:



Legislative Fiscal Division

Revenue Estimate Profile

Electrical Energy Tax

Revenue Estimate Assumptions:

	t Fiscal	Total Tax Millions	GF Tax Millions	KWH Fiscal Millions	Credits Millions	Tax Rate
Actual	2000	4.829002	4.829002	22937.761931	0.000189	0.000200
Actual	2001	4.057952	4.057952	20444.170990	0.000000	0.000200
Actual	2002	4.197477	4.197477	21642.219243	0.000000	0.000200
Actual	2003	4.130019	4.130019	21068.970125	0.000000	0.000200
Actual	2004	4.660529	4.660529	22310.179496	0.000000	0.000200
Actual	2005	4.074409	4.074409	23065.262028	0.000000	0.000200
Actual	2006	4.644508	4.644508	23156.213077	0.000000	0.000200
Actual	2007	4.564404	4.564404	23159.175430	0.000000	0.000200
Actual	2008	5.179013	5.179013	23489.093433	0.000000	0.000200
Actual	2009	4.824659	4.824659	23139.846515	0.000000	0.000200
Actual	2010	4.713429	4.713429	21051.771211	0.000000	0.000200
Forecast	2011	4.452000	4.452000	22258.669534	0.000000	0.000200
Forecast	2012	4.480000	4.480000	22396.437132	0.000000	0.000200
Forecast	2013	4.535000	4.535000	22669.548961	0.000000	0.000200

Total Tax = KWH Fiscal × Tax Rate - Credits
GF Tax = Total Tax

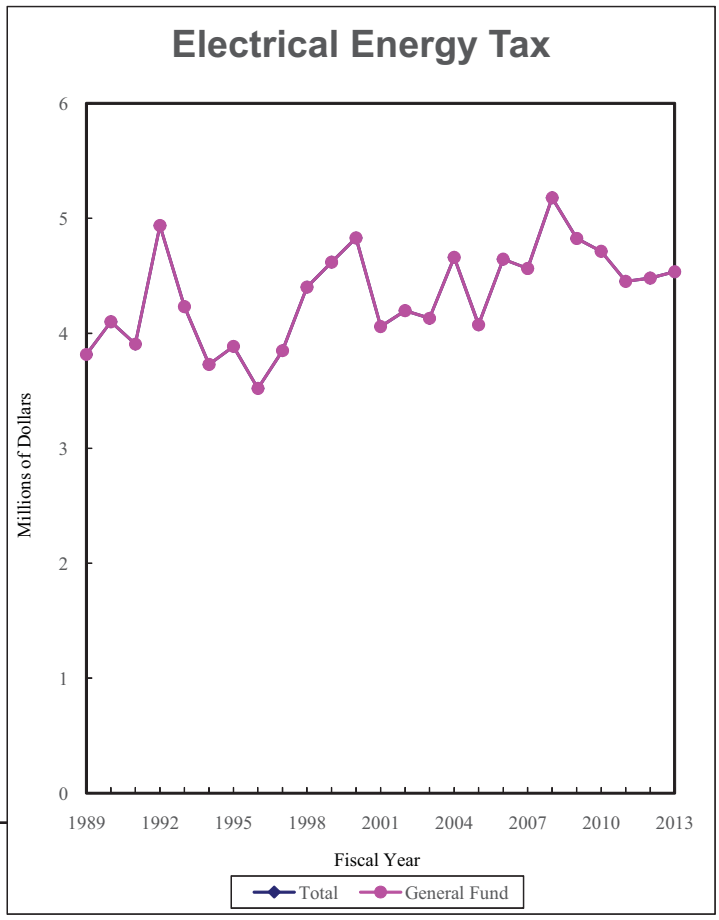
Legislative Fiscal Division

Revenue Estimate Profile

Electrical Energy Tax

Revenue Projection:

	Fiscal Year	Total Collections Millions	General Fund Collections Millions	GF Percent Change
A	1989	3.815964	3.815964	Not App.
A	1990	4.100543	4.100543	7.46%
A	1991	3.906194	3.906194	-4.74%
A	1992	4.937510	4.937510	26.40%
A	1993	4.232200	4.232200	-14.28%
A	1994	3.728365	3.728365	-11.90%
A	1995	3.885910	3.885910	4.23%
A	1996	3.520407	3.520407	-9.41%
A	1997	3.849052	3.849052	9.34%
A	1998	4.401728	4.401728	14.36%
A	1999	4.618433	4.618433	4.92%
A	2000	4.829002	4.829002	4.56%
A	2001	4.057952	4.057952	-15.97%
A	2002	4.197477	4.197477	3.44%
A	2003	4.130019	4.130019	-1.61%
A	2004	4.660529	4.660529	12.85%
A	2005	4.074409	4.074409	-12.58%
A	2006	4.644508	4.644508	13.99%
A	2007	4.564404	4.564404	-1.72%
A	2008	5.179013	5.179013	13.47%
A	2009	4.824659	4.824659	-6.84%
A	2010	4.713429	4.713429	-2.31%
F	2011	4.452000	4.452000	-5.55%
F	2012	4.480000	4.480000	0.63%
F	2013	4.535000	4.535000	1.23%



Data Source(s): SABHRS, Department of Revenue Electrical Energy Tax Returns

Contacts: Electrical Companies' Financial Personnel

Legislative Fiscal Division

Revenue Estimate Profile

Federal Forest Receipts

Revenue Description: The federal government authorizes logging operations on forest lands located within the borders of Montana. The sale of timber generates revenue that the federal government shares with the state in the following year. The state sends the money to the county treasurer of the county in which the receipts were generated. Within thirty days, the county treasurer distributes the money to various county and state accounts.

The previous formula for distributing federal forest payments terminated in FY 2008. In the federal Emergency Economic Stabilization Act of 2008 (the Bailout Bill), a new formula for the distribution of forest receipts was enacted. The new formula for FY 2009 through FY 2012 considers acres of federal land within an eligible county, the average three highest 25% payments made to each eligible state for each eligible county under the previous formula, and an income adjustment based on the per capita personal income for each county. As before, not more than 20% but at least 15% must be used by county governments for projects on federal lands. Beginning in FY 2013, because the federal law will sunset, it is assumed that the old method of distributing these monies will prevail – 25% of the value of timber sold averaged over the prior 3 years. As a result, the state share of federal forest receipts distributed to the 55 mills is expected to decline around $4 million per year.

Statutory Reference:

Tax Rate – NA
Tax Distribution MCA) – 17-3-211, 17-3-212
Date Due – the state treasurer distributes the funds within 30 days after receiving full payment

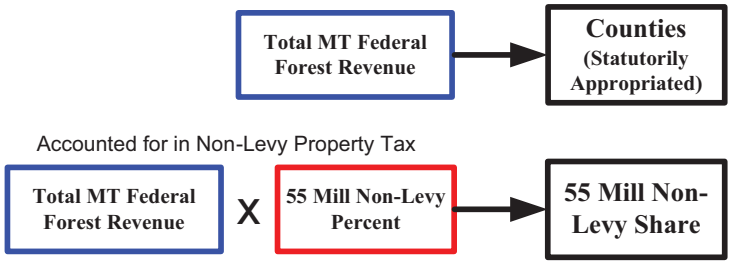
Applicable Tax Rate(s): N/A

Distribution: The county treasurer apportions federal forest receipts in the following manner:

- 66 2/3% to the general fund of the county
- 33 1/3% to the following county wide accounts, based on the mill ratios of each to total mills in the current year:
  - the county equalization accounts (55 mills)
  - the county transportation account
  - the county retirement accounts

This revenue source represents one component used to calculate total non-levy property tax revenue.

Distribution Chart:



Collection Frequency: Twice annually (usually October and December).

% of Total General Fund Revenue: Non levy is included in "Property Tax: 55 mills".

Legislative Fiscal Division

Revenue Estimate Profile

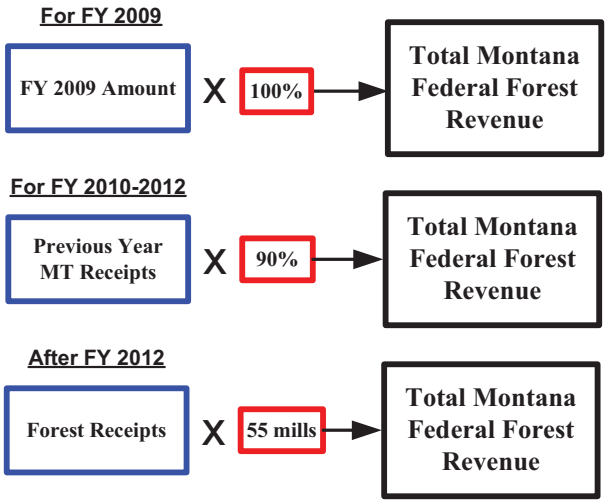
Federal Forest Receipts

Revenue Estimate Methodology:

A number of analytical techniques are used to develop relevant assumptions for this source of revenue. Historical data trends, economic conditions, input from industry experts, company surveys, etc., are examples of information used to formulate these assumptions. The techniques used to develop these assumptions may vary from biennium to biennium and are highly dependent on availability of information, professional intuition/judgment, and a detailed analysis of the revenue source. The applicable assumptions used to develop the revenue estimate for this source are provided in the "Revenue Estimate Assumptions" section of this document. The following summarizes the process used to develop the revenue estimate.

With the passage of the federal Emergency Economic Stabilization Act of 2008 (the Bailout Bill), the amount available to each county for FY 2009 is known and declines 10% per year until FY 2012, after which the act sunsets. The general fund share will vary because of this and as a result of changes in the 55 mill share as a percent of the total countywide school mills. Beginning in FY 2013, because the federal law will sunset, it is assumed that the old method of distributing these monies will prevail – 25% of the value of timber sold averaged over the prior 3 years. As a result, the state share of federal forest receipts distributed to the 55 mills is expected to decline around $4 million per year.

Forecast Methodology:



Legislative Fiscal Division

Revenue Estimate Profile

Federal Forest Receipts

Revenue Estimate Assumptions:

	t Fiscal	Total Tax Millions	GF Tax Millions	CPI Percent Change	50% CPI % Change	Secure Rural Schools Millions
Actual	2000	6.283122	0.000000	3.3613%		
Actual	2001	7.185037	0.000000	2.7875%		
Actual	2002	13.474861	0.000000	1.6384%		
Actual	2003	12.478757	0.000000	2.2790%	0.8000%	
Actual	2004	12.490680	0.000000	2.6630%	1.1395%	
Actual	2005	12.431155	0.000000	3.3880%	1.3315%	
Actual	2006	12.799829	0.000000	3.2258%	1.6940%	
Actual	2007	12.934779	0.000000	2.8274%	1.6129%	
Actual	2008	13.027514	0.000000	3.8109%	1.4137%	
Actual	2009	28.175029	0.000000	-0.3253%	1.9055%	
Actual	2010	24.619013	0.000000	1.6317%	-0.1627%	
Forecast	2011	22.908000	0.000000	1.6055%	0.008159	26.890538
Forecast	2012	20.625000	0.000000	1.8510%	0.008028	24.211030
Forecast	2013	3.012000	0.000000	1.9947%	0.009255	

Total Tax = Secure Rural Schools Act - Federal Legislation

Total Tax = Total Tax Previous Year × (1+50% CPI %)

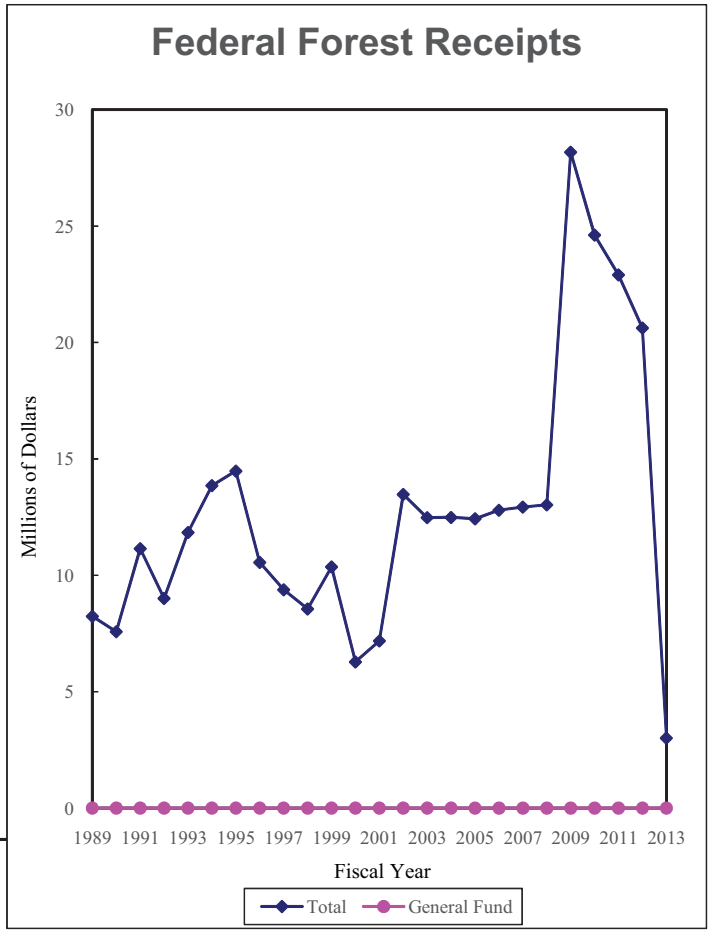
Legislative Fiscal Division

Revenue Estimate Profile

Federal Forest Receipts

Revenue Projection:

	Fiscal Year	Total Collections Millions	General Fund Collections Millions	GF Percent Change
A	1989	8.238545	0.000000	Not App.
A	1990	7.581897	0.000000	Not App.
A	1991	11.149715	0.000000	Not App.
A	1992	9.009450	0.000000	Not App.
A	1993	11.839490	0.000000	Not App.
A	1994	13.854903	0.000000	Not App.
A	1995	14.482281	0.000000	Not App.
A	1996	10.555715	0.000000	Not App.
A	1997	9.383236	0.000000	Not App.
A	1998	8.558090	0.000000	Not App.
A	1999	10.366666	0.000000	Not App.
A	2000	6.283122	0.000000	Not App.
A	2001	7.185037	0.000000	Not App.
A	2002	13.474861	0.000000	Not App.
A	2003	12.478757	0.000000	Not App.
A	2004	12.490680	0.000000	Not App.
A	2005	12.431155	0.000000	Not App.
A	2006	12.799829	0.000000	Not App.
A	2007	12.934779	0.000000	Not App.
A	2008	13.027514	0.000000	Not App.
A	2009	28.175029	0.000000	Not App.
A	2010	24.619013	0.000000	Not App.
F	2011	22.908000	0.000000	Not App.
F	2012	20.625000	0.000000	Not App.
F	2013	3.012000	0.000000	Not App.



Data Source(s): SABHRS, Department of Labor

Contacts: Montana Department of Labor, Montana Association of Counties

Legislative Fiscal Division

Revenue Estimate Profile

Metalliferous Mines Tax

Revenue Description: The metalliferous mines license tax is imposed on the production of metals, gems or stones in the state. The tax rate is applied to the gross value of the product, which is defined as the market value of the commodity multiplied by the quantity produced. Senate Bill 30, enacted in the August 2002 special legislative session, revised the payment of taxes from once to twice a year. The first $250,000 of value is exempt from taxation. A company taxed at both rates can claim both exemptions.

Statutory Reference:

Tax Rate (MCA) – 15-37-103
Tax Distribution (MCA) –15-37-117, 17-2-124(2)
Date Due – August 15th for period January through June, March 31st for period July through December (15-37-105)

Applicable Tax Rate(s): The tax rate for a 6-month period is as follows:

Gross value is defined as monetary amounts or refined metal received for the products less:

1. Basic treatment and refinery charges
2. Transportation costs from the mine to a mill or other processor
3. Quantity and price deductions
4. Interest
5. Penalty metal, impurity and moisture deductions

For concentrates shipped to a smelter, mill, or reduction work:		For gold, silver, or any platinum group metal that is dore*, bullion, or matte* and that is shipped to a refinery:	
Gross Value	Rate	Gross Value	Rate
$0-$250,000	Exempt	$0-$250,000	Exempt
$250,001 and Above	1.81%	$250,001 and Above	1.6%
		* Dore: A mixture of gold and silver in cast bars	
		Matte: A crude mixture of sulfides formed in smelting sulfide ores of metals	

Distribution: The distribution of the metal mines tax has been altered several times since the 1990s. Prior to the 2005 Legislature, the most recent change had been enacted by the 2001 Legislature in Senate Bill 484 (effective July 1, 2002) that created a hard-rock mining reclamation debt service fund to pay debt service on the $8.0 million of bonds authorized for state costs related to hard-rock mining reclamation, operation, and maintenance. The 8.5% allocation of metalliferous mines tax revenue previously allocated to the orphan share account was allocated to the hard-rock mining reclamation debt service fund. The 2005 Legislature increased the allocation to counties from 24% to 25% and decreased the general fund allocation from 58% to 57%. The table below shows recent historical distributions of the tax revenue.

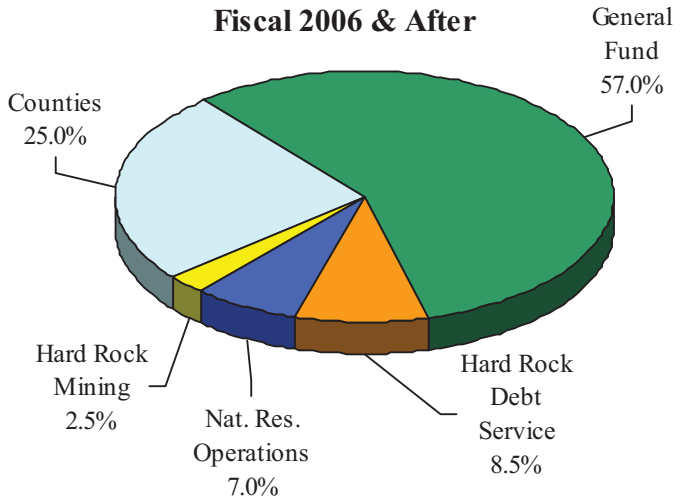
Distribution of Metalliferous Mines Tax (Percent)

	Fiscal 1994-1995	Fiscal 1996-1997	Fiscal 1998-2002	Fiscal 2003	Fiscal 2004-2005	Fiscal 2006&Beyond
General Fund	58.0	58.0	58.0	65.0	58.0	57.0
Counties *	25.0	25.0	24.0	24.0	24.0	25.0
Hard Rock Reclamation Debt Service	0.0	0.0	0.0	8.5	8.5	8.5
Natural Resources Operations**	0.0	4.8	7.0	0.0	7.0	7.0
Hard Rock Mining *	1.5	1.5	2.5	2.5	2.5	2.5
RIT Trust	15.5	0.0	0.0	0.0	0.0	0.0
Groundwater Assessment	0.0	2.2	0.0	0.0	0.0	0.0
Abandoned Mines	0.0	8.5	0.0	0.0	0.0	0.0
Orphan Share	0.0	0.0	8.5	0.0	0.0	0.0
	100.0	100.0	100.0	100.0	100.0	100.0

* Stautorily appropriated

** Name changed by HB 116 in the 2007 session

Distribution Chart:



Collection Frequency: Biannually

% of Total General Fund Revenue:

FY 2004 – 0.23%	FY 2007 – 0.49%	FY 2010 – 0.40%
FY 2005 – 0.34%	FY 2008 – 0.55%	
FY 2006 – 0.41%	FY 2009 – 0.33%	

Revenue Estimate Methodology:

The metalliferous mines tax is applied to the taxable gross value of production. The metalliferous mines tax estimate is developed by estimating the annual sales price for each type of metal produced and the anticipated production quantity of each metal by company. From these estimates, taxable gross value can be determined to which an effective tax rate is applied. Since all production and price information is reported on a calendar year basis, the resulting calendar year estimates are converted into fiscal year estimates.

Legislative Fiscal Division

Revenue Estimate Profile

Metalliferous Mines Tax

Data

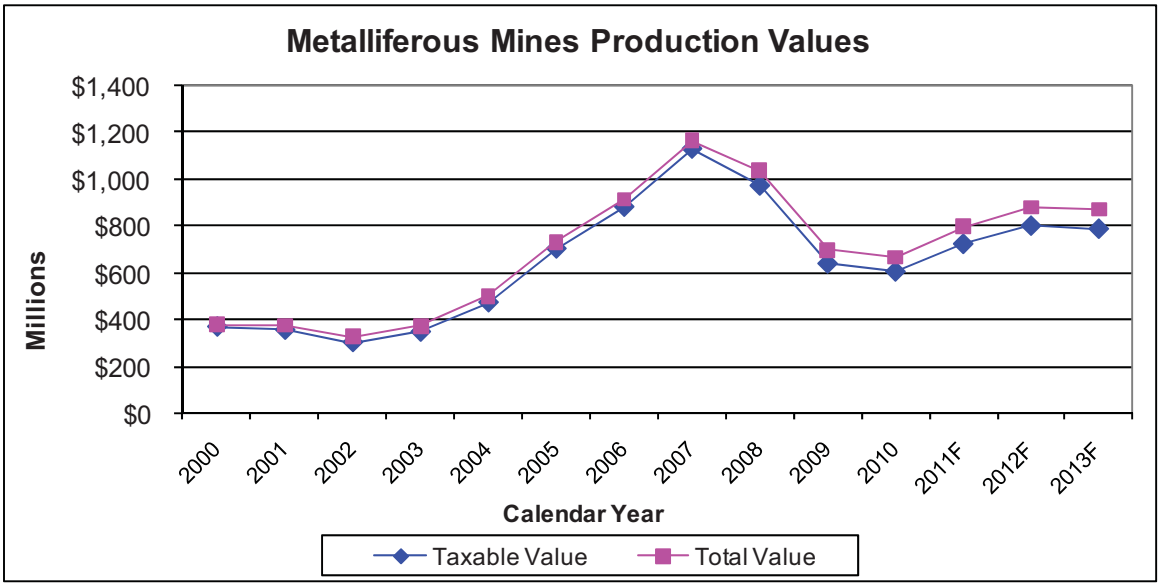
Mining companies are surveyed for anticipated production levels, general indications of applicable metal prices, and any possible changes in production due to expansion or contraction. Historical and future prices are obtained from various sources depending on the metal. Common sources include COMEX, NYMEX, and KITCO. In addition, a review is performed of historical trends, current literature on metals and metal prices, and companies' 10-Q reports. Data from biannual reports produced by DOR provide a history of production and prices by commodity and taxable gross value for each mining company. These companies are:

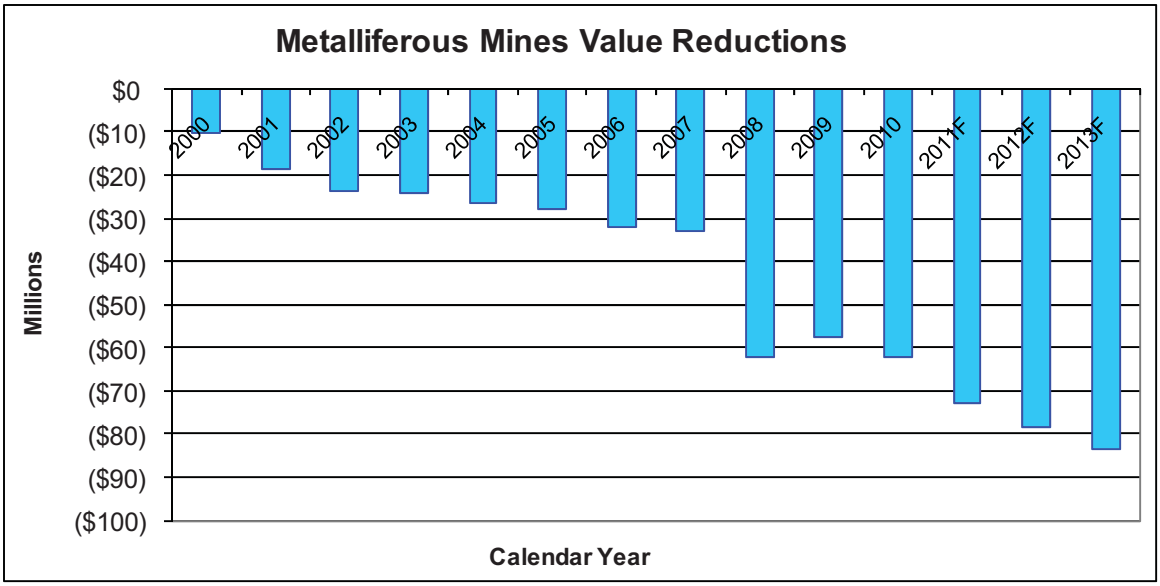
* Golden Sunlight Mines
* Stillwater Mining
* Montana Resources
* Holcim US
* Genesis

Analysis

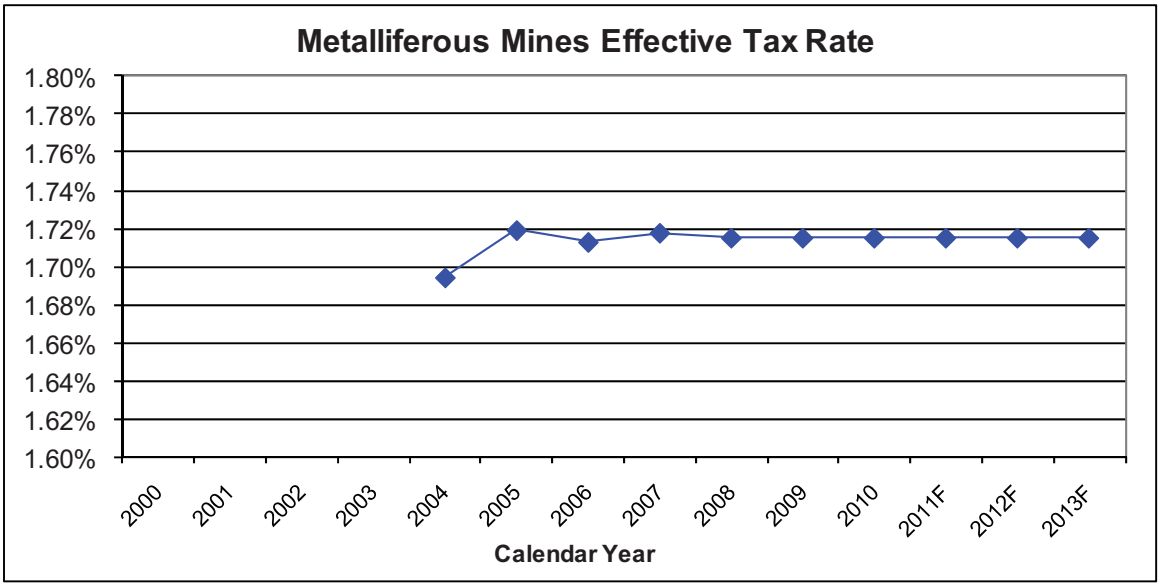
The taxable value of metals is determined in a four-step process:

- As reported on the survey, future metals production for each company is summed by commodity. Amounts may be adjusted to fit with historical trends or if major changes are expected from historical production.
- To determine the future price for each metal, different techniques are used depending on the commodity and the reasonableness of future prices based on research of the literature and directions of future markets.
    - Gold – the future prices are used for all the forecast years
    - Copper, silver – the most current futures price is multiplied by the ratio of Montana's price for the last known or forecast year to the most current futures price
    - Molybdenum – the current market price is carried forward for all forecast years
    - Lead, Zinc – the price from 2008 is carried forward for all forecast years
    - Palladium, platinum, rhodium, nickel – the price for the last known calendar year is used for all future years.
- The estimated production amount for each metal for all companies is summed and multiplied by the estimated price for that metal. This is done for each metal and the products summed to yield a total gross value.
- Total taxable value is obtained by reducing the total gross value by: a) the tax exempt amount of $250,000/year for each company; and b) allowable treatment, refinery, transportation, and other costs.





Taxable value is multiplied by an effective tax rate. Since a company's taxable value could be subject to two tax rates - 1.81% for concentrates shipped to a smelter, mill or reduction work and 1.6% for dore, bullion, or matte that is shipped to a refinery - an effective tax rate is used to capture both these rates. The effective tax rate for FY 2010 was rounded and used for the estimate. The rate is consistent with previous years. The estimate is obtained by multiplying the total taxable value by the effective tax rate.

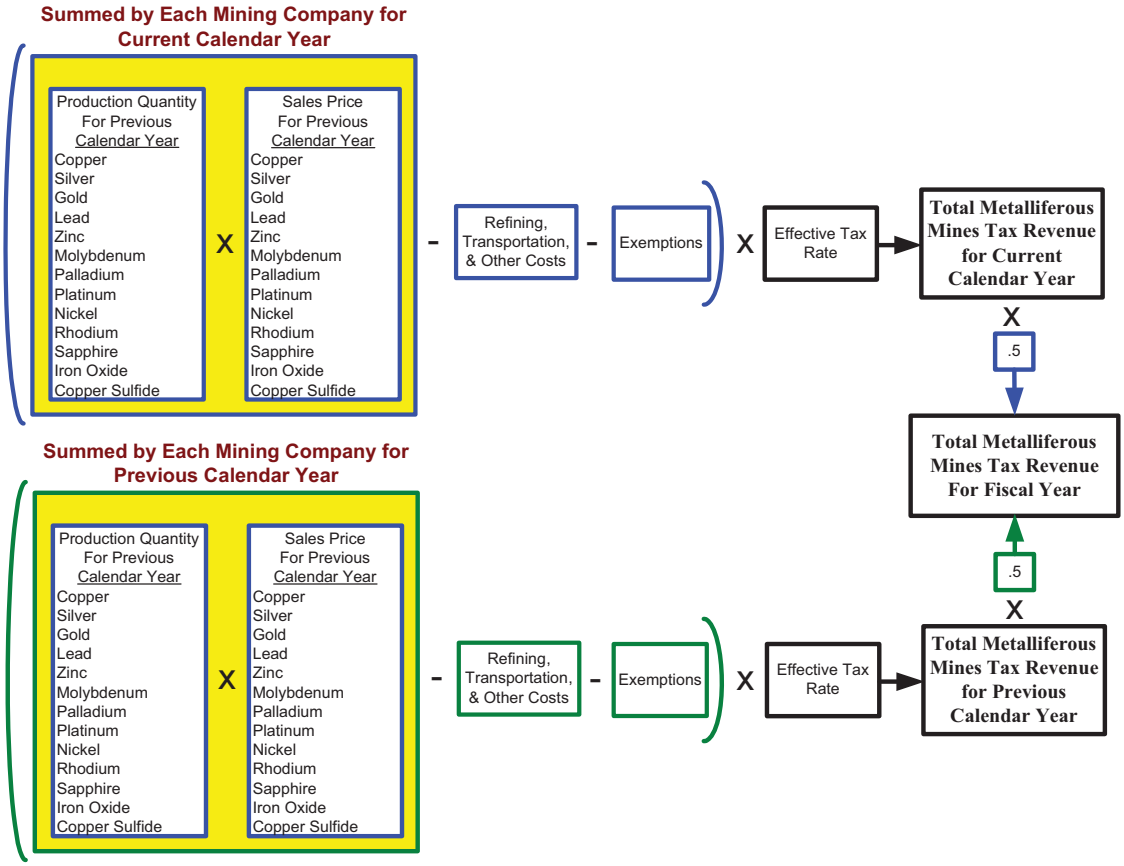


At this point the total represents estimates for calendar years. To convert the estimates to a fiscal year basis, half the previous calendar year's estimate is added to the half of the current calendar year's estimate.

Adjustments and Distribution

Once total tax revenue for each fiscal year is determined, the applicable distribution percentages are applied.

Forecast Methodology:



Legislative Fiscal Division

Revenue Estimate Profile

Metalliferous Mines Tax

Revenue Estimate Assumptions:

	t Fiscal	Total Tax Millions	GF Tax Millions	Tax Value CY Millions	Effective CY Rate	GF Allocation Percent
Actual	2000	4.661371	2.703031	369.117889		57.9879%
Actual	2001	5.923752	3.417475	355.643466		57.6911%
Actual	2002	5.740242	3.329340	303.045425		58.0000%
Actual	2003	7.055900	4.586335	347.630082		65.0000%
Actual	2004	5.572191	3.231871	472.984838	0.016944	58.0000%
Actual	2005	9.076338	5.264276	702.353328	0.017192	58.0000%
Actual	2006	12.435050	7.028159	880.570599	0.017130	56.5189%
Actual	2007	15.774412	8.991415	1128.269293	0.017178	57.0000%
Actual	2008	18.902178	10.774242	970.935614	0.017152	57.0000%
Actual	2009	10.513899	5.992923	638.071416	0.017152	57.0000%
Actual	2010	11.475975	6.541391	603.906859	0.017152	57.0007%
Forecast	2011	11.370000	6.481000	721.882390	0.017152	57.0000%
Forecast	2012	13.047000	7.437000	799.483024	0.017152	57.0000%
Forecast	2013	13.601000	7.753000	786.473165	0.017152	57.0000%

Comdty. Prod.	t Cal	Copper Millions	Silver Millions	Gold Millions	Lead Millions	Zinc Millions	Moly Millions	Palladium Millions
Actual	2000							
Actual	2001							
Actual	2002							
Actual	2003							
Actual	2004							
Actual	2005							
Actual	2006							
Actual	2007							
Actual	2008							
Actual	2009							
Actual	2010							
Forecast	2011							
Forecast	2012							
Forecast	2013							

Confidential data, numbers removed

Legislative Fiscal Division

Revenue Estimate Profile

Metalliferous Mines Tax

Comdty. Prod.	t Cal	Platinum Millions	Nickel Millions	Rhodium Millions	Sapphire Millions	Copper Sul Millions	Deduction Millions	Refining Millions
Actual	2000							
Actual	2001							
Actual	2002							
Actual	2003							
Actual	2004							
Actual	2005							
Actual	2006							
Actual	2007							
Actual	2008							
Actual	2009							
Actual	2010							
Forecast	2011							
Forecast	2012							
Forecast	2013							

Confidential data, numbers removed

Comdty. Price	t Cal	Copper Dollars	Silver Dollars	Gold Dollars	Lead Dollars	Zinc Dollars	Moly Dollars	Palladium Dollars
Actual	2000							
Actual	2001							
Actual	2002							
Actual	2003							
Actual	2004							
Actual	2005							
Actual	2006							
Actual	2007							
Actual	2008							
Actual	2009							
Actual	2010							
Forecast	2011							
Forecast	2012							
Forecast	2013							

Confidential data, numbers removed

Legislative Fiscal Division

Revenue Estimate Profile

Metalliferous Mines Tax

Comdty. Price	t Cal	Platinum Dollars	Nickel Dollars	Rhodium Dollars	Sapphire Dollars	Copper Sul Dollars
Actual	2000					
Actual	2001					
Actual	2002					
Actual	2003					
Actual	2004					
Actual	2005					
Actual	2006					
Actual	2007					
Actual	2008					
Actual	2009					
Actual	2010					
Forecast	2011					
Forecast	2012					
Forecast	2013					

Confidential data, numbers removed

Total Tax = (Copper Prod. × Copper Price + Silver Prod. × Silver Price + Gold Prod. × Gold Price + Lead Prod. × Lead Price + Zinc Prod. × Zinc Price + Moly Prod. × Moly Price + Palladium Prod. × Palladium Price + Platinum Prod. × Platinum Price + Nickel Prod. × Nickel Price + Rodium Prod. × Rodium Price + Deduction + Refining) × Effective CY Rate

GF Tax = (Previous Cal. Total Tax + Current Cal. Total Tax) × .5 × GF Allocation

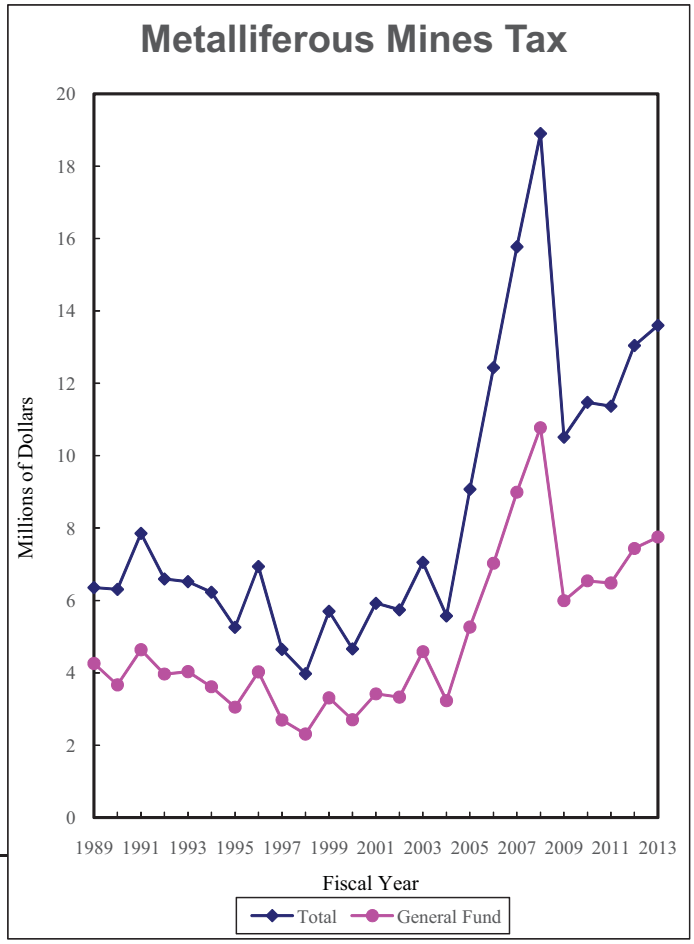
Legislative Fiscal Division

Revenue Estimate Profile

Metalliferous Mines Tax

Revenue Projection:

	Fiscal Year	Total Collections Millions	General Fund Collections Millions	GF Percent Change
A	1989	6.355005	4.257531	Not App.
A	1990	6.306356	3.664579	-13.93%
A	1991	7.855130	4.638654	26.58%
A	1992	6.595466	3.965609	-14.51%
A	1993	6.521077	4.030946	1.65%
A	1994	6.229683	3.613074	-10.37%
A	1995	5.259335	3.050414	-15.57%
A	1996	6.941131	4.025856	31.98%
A	1997	4.648563	2.696167	-33.03%
A	1998	3.977699	2.306801	-14.44%
A	1999	5.700013	3.305971	43.31%
A	2000	4.661371	2.703031	-18.24%
A	2001	5.923752	3.417475	26.43%
A	2002	5.740242	3.329340	-2.58%
A	2003	7.055900	4.586335	37.76%
A	2004	5.572191	3.231871	-29.53%
A	2005	9.076338	5.264276	62.89%
A	2006	12.435050	7.028159	33.51%
A	2007	15.774412	8.991415	27.93%
A	2008	18.902178	10.774242	19.83%
A	2009	10.513899	5.992923	-44.38%
A	2010	11.475975	6.541391	9.15%
F	2011	11.370000	6.481000	-0.92%
F	2012	13.047000	7.437000	14.75%
F	2013	13.601000	7.753000	4.25%



Data Source(s): SABHRS, Department of Revenue, *Wall Street Journal,* KITCO, COMEX, NYMEX, company 10K and 10Q reports

Contacts: Major Producers

Legislative Fiscal Division

Revenue Estimate Profile

Oil and Natural Gas Production Tax

Revenue Description: The oil and natural gas production tax is imposed on the production of petroleum and natural gas in the state. Gross taxable value of oil and natural gas production is based on the type of well and type of production. A portion of the revenue from the tax may be returned to Indian tribes per agreements between the Department of Revenue and the tribes.

Statutory Reference:

Tax Rate (MCA) – 15-36-304. Privilege and license tax – 82-11-131, Administrative Rules 36.72.1242
Tax Distribution (MCA) – 15-36-331(4), 15-36-332(2&3) (to taxing units)
Date Due – within 60 days after the end of the calendar quarter (15-36-311(1))

Applicable Tax Rate(s): The oil and natural gas production tax has numerous tax rates depending on several factors. These factors include whether the oil or gas is produced from a stripper well, a stripper incentive well, from a well initially drilled before 1999 or after, from a well newly drilled within the last year or 18 months, and whether the interest being taxed is the working interest or the royalty interest. The Board of Oil and Gas Conservation imposes an additional privilege and license (P & L) tax on all oil and natural gas tax rates. Starting October 2006 as set by the Board, the P&L tax rate is 0.09%. Based on this rate, HB 758 enacted by the 2005 Legislature allows an additional tax rate of 0.17% to generate revenue for local impacts for local governments. The two taxes may not exceed 0.3%. The following table shows tax rate percentages for each type of pre-1999 oil and post-1999 oil, excluding the P & L tax and the new Local Impact tax. The quarterly tax rates on stripper production and on incremental production are lower than that for regular production unless the price of West Texas Intermediate averages above $30 for the quarter. Similarly, the quarterly tax rate for stripper well exemption production (1-3 barrels a day) is lower than that for regular production unless the price of West Texas Intermediate averages above $38 for the quarter.

Oil Tax Rates 15-36-304(5), MCA	
Working Interest	
Primary recovery production	
First 12 months of qualifying production	0.5%
After 12 months:	
pre-1999 wells	12.5%
post-1999 wells	9.0%
Stripper oil production (>3 and < 15 barrels/day if oil<$30)	
1 through 10 barrels a day production	5.5%
>10 through 14 barrels a day production	9.0%
Stripper oil production (>3 and < 15 barrels/day if oil>=$30)	*
Stripper wells (3 barrels or less/day)	
Stripper well exemption production (if oil <$38)	0.5%
Stripper well bonus production (if oil >=$38)	6.0%
Horizontally completed well production	
First 18 months of qualifying production	0.5%
After 18 months	
pre-1999 wells	12.5%
post-1999 wells	9.0%
Incremental production (if oil <$30/barrel)	
New or expanded secondary recovery production	8.5%
New or expanded tertiary production	5.8%
Incremental production (if oil >=$30/barrel)	
Pre-1999 wells	12.5%
Post-1999 wells	9.0%
Horizontally recompleted well	
First 18 months	5.5%
After 18 months	
pre-1999 wells	12.5%
post-1999 wells	9.0%
Nonworking Interest	14.8%
* No stripper tax rate. Taxed at primary recovery rates. See 15-36-303(22a)	

Natural Gas Tax Rates 15-36-304(2), MCA		
Working Interest		
Qualified production		
First 12 months		0.5%
After 12 months		
	pre-1999	14.8%
	post-1999	9.0%
Stripper natural gas pre-1999 wells		11.0%
Horizontally completed well production		
First 18 months of qualifying production		0.5%
After 18 months		9.0%
Nonworking Interest		14.8%

Distribution: Once the oil and natural gas production taxes have been collected, the revenue is first distributed based on the amounts collected from the P & L and Local Impact taxes. The amounts from the P & L tax are distributed to the Board of Oil and Gas Conservation. The amounts from the Local Impact tax are distributed to the oil and gas natural resource state special revenue account. The amounts received by the Board and the oil and gas natural resource account vary based on a sliding tax scale based on the P & L tax set by the Board. Counties producing oil and natural gas receive the next share of total revenue with each county having its own statutory distribution percentage of total revenue, including the revenue generated by the P & L and Local Impact taxes. A portion of the revenue may be returned to Indian tribes per agreements between the Department of Revenue and the tribes. The remainder of the revenue is distributed to other state accounts in the following manner:

FY 2008 though FY 2011

- Coal bed methane account – 1.23%
- Natural resources projects account – 1.45%
- Natural resources operations account – 1.45%
- Orphan share account – 2.99%
- University system 6 mill levy account – 2.65%
- General fund – the remainder (90.23%)

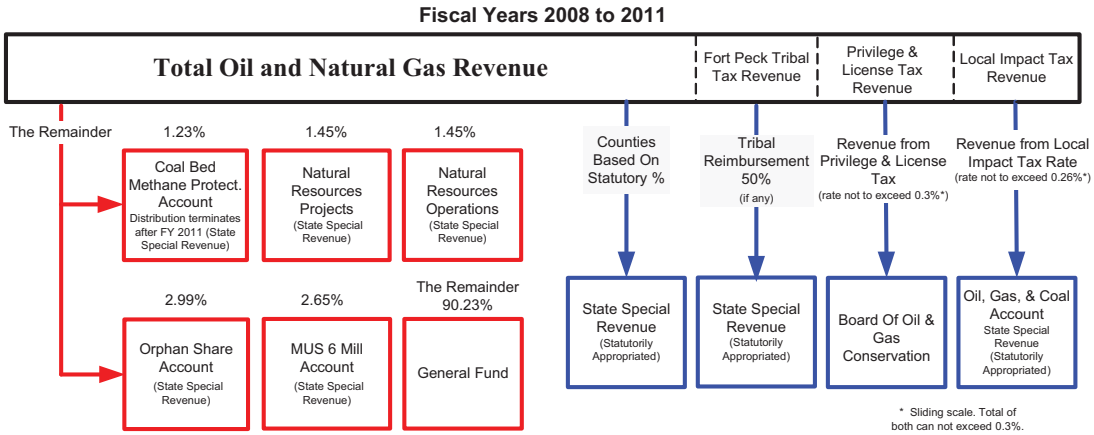
The distributions of county shares and the amount of oil and natural gas production tax revenue deposited in the oil and gas natural resource account are statutorily appropriated and are based on the statutorily set percentages for each county.

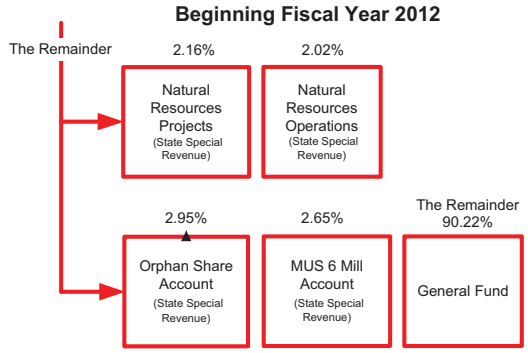
Legislative Fiscal Division

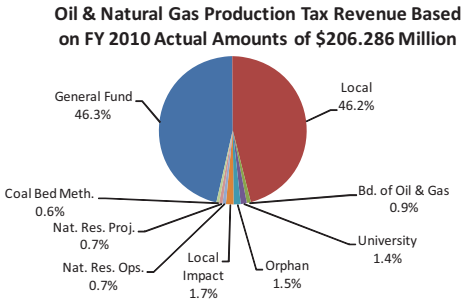
Revenue Estimate Profile

Oil and Natural Gas Production Tax

Distribution Chart:







Because the exact distribution of oil & natural gas revenue will vary depending on various factors, the chart only reflects FY 2010 actual distributions. Please see the table above for exact distribution percentages.

Collection Frequency: Quarterly; the tax is due 60 days after the end of the production quarter.

% of Total General Fund Revenue:

FY 2004 – 2.99%	FY 2007 – 5.25%	FY 2010 – 5.87%
FY 2005 – 4.09%	FY 2008 – 7.64%	
FY 2006 – 5.42%	FY 2009 – 5.56%	

Revenue Estimate Methodology:

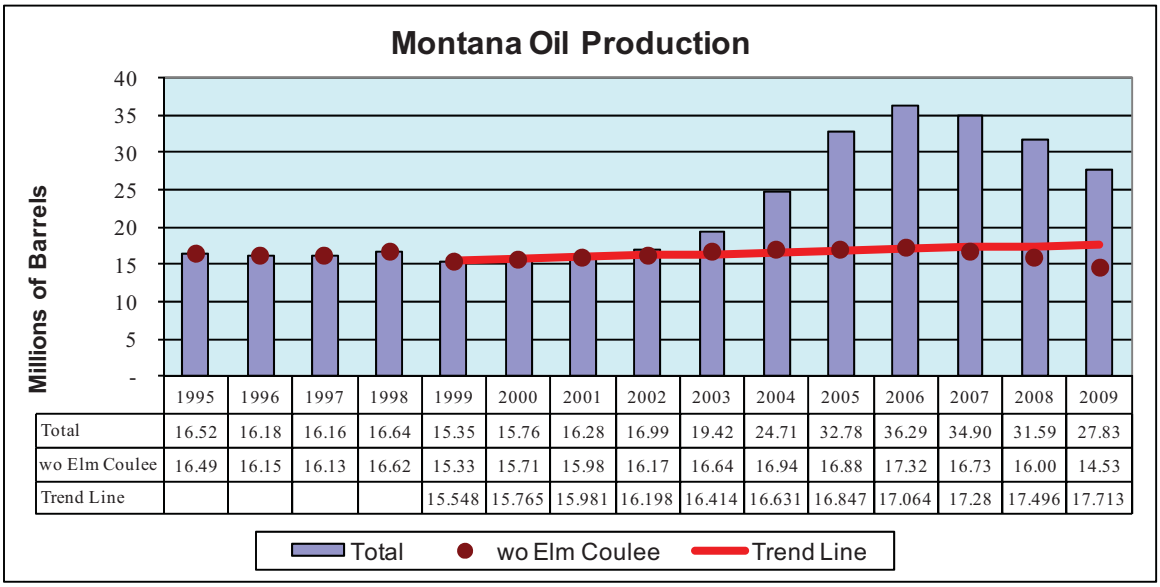
The estimate for oil and natural gas revenue is derived from estimating the price and specific production subject to varying tax rates from which value can be obtained. Specific statutory tax rates are used for the types of oil and natural gas that are taxed differently.

Data

Data from the Board of Oil and Gas Conservation are used extensively to isolate monthly historical production of oil and natural gas by field and by individual well. IHS provides future estimates of West Texas Intermediate oil and national well head natural gas prices. Production, price, value, and revenue collections, by oil type, are provided on a quarterly basis by the Department of Revenue.

Oil Analysis

- Production - The estimate is developed on a quarterly basis with production from the Elm Coulee field separate from all other production. Analysis of the field data indicates that the majority of the increased production is from the relatively new Elm Coulee field in Richland County. The importance of this one field can be seen in the figure below.

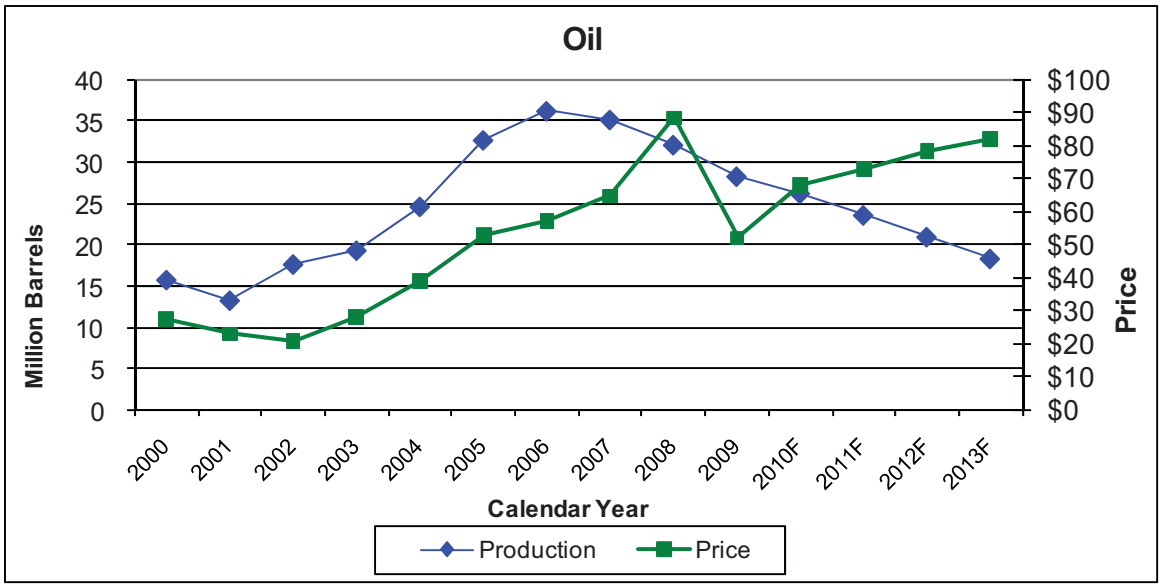


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total	16.52	16.18	16.16	16.64	15.35	15.76	16.28	16.99	19.42	24.71	32.78	36.29	34.90	31.59	27.83
wo Elm Coulee	16.49	16.15	16.13	16.62	15.33	15.71	15.98	16.17	16.64	16.94	16.88	17.32	16.73	16.00	14.53
Trend Line					15.548	15.765	15.981	16.198	16.414	16.631	16.847	17.064	17.28	17.496	17.713

Industry personnel state that this field peaked October 2006. If so, fewer new wells will be spudded (drilling initiated). Existing wells will then follow a production decline curve unique to the characteristics of the field. Fields tapped through horizontal drilling, such as Elm Coulee, tend to be depleted more rapidly than those tapped vertically. Future production from completed wells can be estimated by developing a normalized production decline curve from the producing wells. In doing so, the difficulty of having different starting time for each well can be eliminated by averaging each well's production from a common time point. The result is a curve that represents the average production of wells in the Elm Coulee field by month of production. Production from future wells can be estimated by applying the production curve coefficients to an estimate of future spudded wells. Knowing monthly production from each well and the date it was placed into production are essential for estimating oil tax revenue because tax rates vary based on the length of time a well has been in production. The dynamics in the timing of when wells enter and fall out of the various tax rates and the changes in production at the various stages is complex, but needs to be modeled to ensure accurate estimates.

Production from all other fields is also estimated on a quarterly basis and by the different taxation types. For each quarter, the estimate is derived by multiplying the same quarter of the previous year by the ratio of the results of a regression analysis for the same quarter of the current and the previous year. The results for each tax type are then summed and the quarterly results are summed by year.

Price – The price for each quarter is estimated by adjusting the IHS West Texas Intermediate oil price for that quarter by the ratio of the previous three year average Montana price to the three year average of the IHS price.



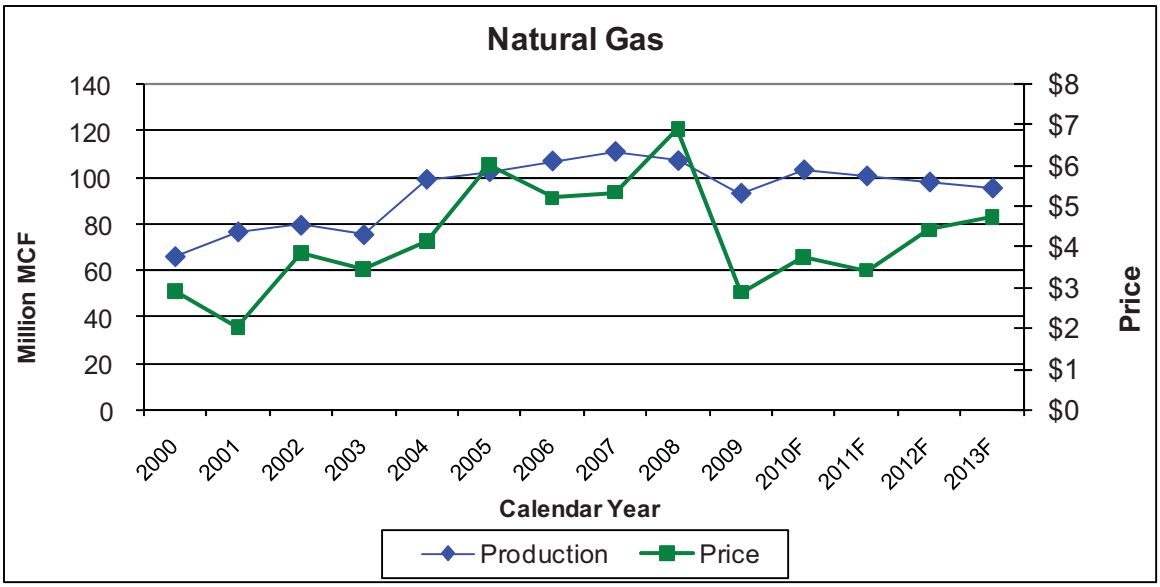
Once production and prices have been estimated, the value can be calculated by the product of the two. The quarterly value of each tax type is then multiplied by the applicable tax rate to obtain the estimate. The sum of the revenue from all tax types for each fiscal year determines the oil production revenue estimate.

Natural Gas Analysis

- Production - The natural gas industry in Montana has also been undergoing major changes. Improved techniques have allowed new fields to be developed and old fields to be more productive. Data from the Board of Oil and Gas Conservation indicate that the majority of increased production is from the same two fields that were the major contributors to the natural gas production tax in the 2009 biennium, but are now joined by other important contributing fields – St. Joe Road, Pennel, CX, Tiger Ridge, Bowdoin, and Cedar Creek. A normalized production curve is developed for each of these fields. As with oil, the development of a normalized production curve from individual wells eliminates the difficulty of having different starting time for each well by averaging each well's production from a common point in time. The result is a curve that represents the average production of wells in these by month of production. With the equations of these curves, future production can be estimated.

  Production from all other fields is also estimated on a quarterly basis and by the different taxation types. For each quarter, the estimate is derived by multiplying the same quarter of the previous year by the ratio of the results of a regression analysis for the same quarter of the current and the previous year. The results for each tax type are then summed and the quarterly results are summed by year.

- Price – The price for each quarter is estimated by adjusting the IHS West Texas national well head price for that quarter by the ratio of the previous three year average Montana price to the three year average of the IHS price.

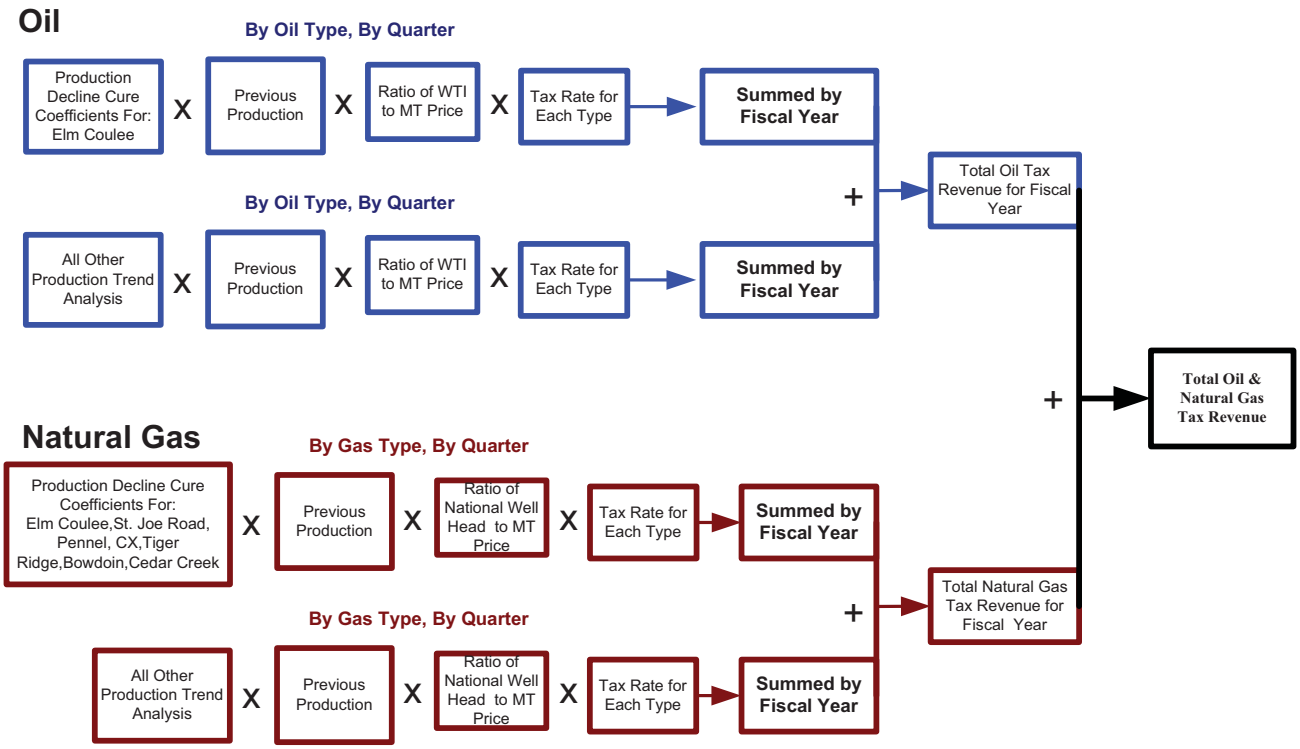


Once production and prices have been estimated, the value can be calculated by the product of the two. The quarterly value of each tax type is then multiplied by the applicable tax rate to obtain the revenue. The sum of the revenue from all tax types for each fiscal year determines the natural gas revenue estimate.

Adjustments and Distribution

Once the oil and natural gas estimates have been summed, the distribution formula is applied with the amounts to the Board of Oil and Gas and to local governments distributed first and the remainder subject to statutory percentages.

Forecast Methodology:



Legislative Fiscal Division

Revenue Estimate Profile

Oil and Natural Gas Production Tax

Revenue Estimate Assumptions:

	t Fiscal	Total Tax Millions	GF Tax Millions	GF Allocation Percent	Audits Millions	Total Tax Oil Millions	Total Tax Gas Millions
Actual	2000	43.772950	11.362741	0.259584			
Actual	2001	92.395790	25.791723	0.279144			
Actual	2002	50.303610	12.902439	0.256491			
Actual	2003	73.389376	29.086038	0.396325	2.436178		
Actual	2004	92.676050	41.323718	0.445894	1.687625		
Actual	2005	137.754331	62.625939	0.454620	1.127243		
Actual	2006	203.681078	92.562800	0.454450	1.428545	145.902270	59.044255
Actual	2007	209.946350	96.334992	0.458855	1.242493	161.888653	48.625717
Actual	2008	324.311270	149.993826	0.462500	3.168372	262.607035	60.782727
Actual	2009	218.425215	100.490971	0.460070	5.220523	172.923197	42.056630
Actual	2010	206.286267	95.490812	0.462904	1.395008	171.469960	34.213098
Forecast	2011	206.132000	101.421247	0.492021	1.893037	168.887211	35.351686
Forecast	2012	207.277000	101.803362	0.491146	1.893037	166.612478	38.771331
Forecast	2013	203.815000	100.119249	0.491226	1.893037	154.950365	46.971423

Oil	t Fiscal	Barrels Millions	Price Per Barrel	Gross Value Millions	Effective Tax Rate	Tax Millions	Non-Tax Value Millions
Actual	2000						
Actual	2001						
Actual	2002						
Actual	2003						
Actual	2004						
Actual	2005						
Actual	2006	35.097263	57.326203	1969.439810	0.074400	145.902270	50.950121
Actual	2007	36.200533	55.836460	1978.756598	0.082170	161.888653	51.134487
Actual	2008	33.797102	87.302188	2908.007937	0.091321	262.607035	74.917551
Actual	2009	30.580226	59.552245	1778.568102	0.097500	172.923197	47.554250
Actual	2010	26.497415	65.931701	1704.466632	0.100869	171.469960	47.085987
Forecast	2011	24.912370	69.001398	1676.435335	0.100973	168.887211	46.387021
Forecast	2012	22.280521	76.099970	1652.993969	0.100990	166.612478	45.759277
Forecast	2013	19.648671	80.234792	1533.954017	0.101014	154.950365	42.553017

Legislative Fiscal Division

Revenue Estimate Profile

Oil and Natural Gas Production Tax

Gas	t Fiscal	MCF's Millions	Price Per MCF	Gross Value Millions	Effective Tax Rate	Tax Millions	Non-Tax Value Millions
Actual	2000						
Actual	2001						
Actual	2002						
Actual	2003						
Actual	2004						
Actual	2005						
Actual	2006	112.475960	6.354798	714.762000	0.086774	59.044255	34.324074
Actual	2007	116.224706	5.255492	610.817966	0.083396	48.625717	27.744584
Actual	2008	119.469641	6.537310	781.010045	0.081186	60.782727	32.321570
Actual	2009	109.552744	4.406283	482.720375	0.091406	42.056630	22.612940
Actual	2010	104.941639	3.501090	367.410156	0.097759	34.213098	17.438026
Forecast	2011	111.103457	3.392191	376.884163	0.098498	35.351686	17.977096
Forecast	2012	108.282305	3.821401	413.790147	0.098389	38.771331	19.727632
Forecast	2013	105.461145	4.750023	500.942866	0.098462	46.971423	23.890584

Oil	t Cal	Barrels Millions	Price Per Barrel	Gross Value Millions	Effective Tax Rate	Total Tax Millions	Non-Tax Value Millions
Actual	2000						
Actual	2001						
Actual	2002						
Actual	2003						
Actual	2004						
Actual	2005	32.679327	52.758577	1724.114788	0.074571	125.297517	43.862281
Actual	2006	36.195676	57.142850	2068.324074	0.077405	155.986946	53.126993
Actual	2007	35.144486	64.740864	2275.284391	0.086795	192.569172	56.613199
Actual	2008	32.098310	88.443839	2838.897761	0.094953	262.587976	73.434386
Actual	2009	28.285271	52.016634	1471.304590	0.101193	144.894535	39.434642
Actual	2010	26.227833	68.219766	1789.256631	0.100904	175.673129	48.261395
Forecast	2011	23.595983	72.738479	1716.335914	0.100972	168.625530	46.315189
Forecast	2012	20.964132	78.534465	1646.406893	0.100944	161.710257	44.419987
Forecast	2013	18.332283	81.927044	1501.909763	0.100940	147.512145	40.520471

Legislative Fiscal Division

Revenue Estimate Profile

Oil and Natural Gas Production Tax

Gas	t Cal	MCF's Millions	Price Per MCF	Gross Value Millions	Effective Tax Rate	Total Tax Millions	Non-Tax Value Millions
Actual	2000						
Actual	2001						
Actual	2002						
Actual	2003						
Actual	2004						
Actual	2005	110.440135	6.003197	662.993904	0.087144	55.015798	31.675092
Actual	2006	113.578459	5.204711	591.143004	0.085538	48.196053	27.698672
Actual	2007	118.801660	5.346060	635.120809	0.081676	49.607139	27.754836
Actual	2008	116.258675	6.904855	802.749345	0.085080	65.354792	34.593487
Actual	2009	101.627705	2.892331	293.941004	0.097790	27.352984	14.229897
Actual	2010	112.504420	3.761935	423.234371	0.098251	39.599911	20.184324
Forecast	2011	109.683263	3.432237	376.458912	0.098532	35.323814	17.958991
Forecast	2012	106.862109	4.420527	472.386881	0.098612	44.361537	22.528130
Forecast	2013	104.040947	4.724691	491.561354	0.098426	46.075249	23.442014

Total Tax = Barrels × Price × Tax Rate + MCF's × Price × Tax Rate + Audits
GF Rev = Total Tax × GF Allocation + Audits

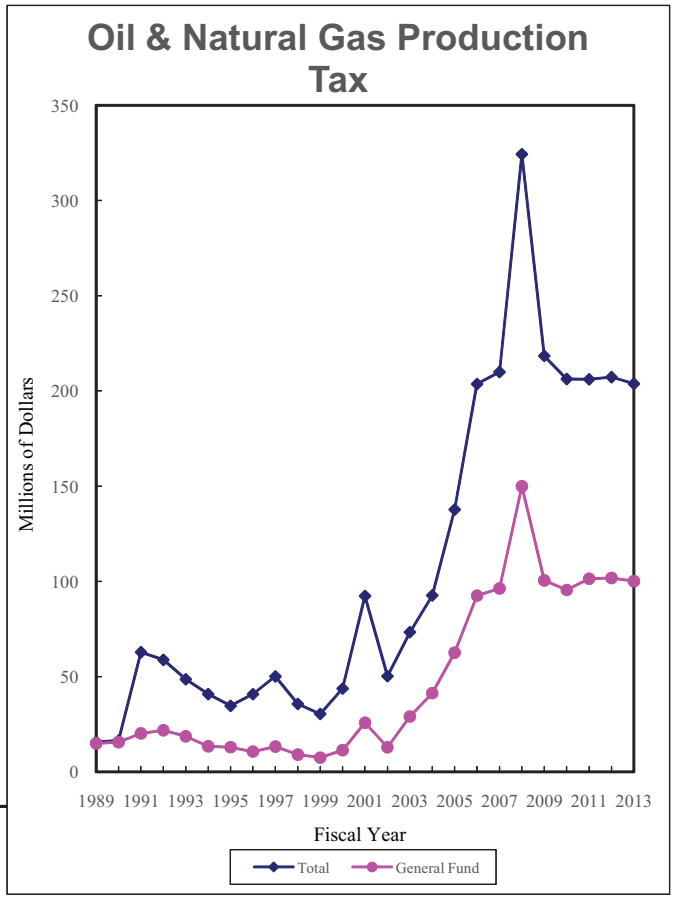
Legislative Fiscal Division

Revenue Estimate Profile

Oil and Natural Gas Production Tax

Revenue Projection:

	Fiscal Year	Total Collections Millions	General Fund Collections Millions	GF Percent Change
A	1989	15.748241	14.959251	Not App.
A	1990	16.486405	15.567426	4.07%
A	1991	62.879742	20.163269	29.52%
A	1992	58.892324	21.822893	8.23%
A	1993	48.650604	18.676586	-14.42%
A	1994	40.871318	13.403408	-28.23%
A	1995	34.704332	12.963887	-3.28%
A	1996	40.826475	10.665986	-17.73%
A	1997	50.150068	13.283093	24.54%
A	1998	35.709042	9.120152	-31.34%
A	1999	30.446634	7.505617	-17.70%
A	2000	43.772950	11.362741	51.39%
A	2001	92.395790	25.791723	126.99%
A	2002	50.303610	12.902439	-49.97%
A	2003	73.389376	29.086038	125.43%
A	2004	92.676050	41.323718	42.07%
A	2005	137.754331	62.625939	51.55%
A	2006	203.681078	92.562800	47.80%
A	2007	209.946350	96.334992	4.08%
A	2008	324.311270	149.993826	55.70%
A	2009	218.425215	100.490971	-33.00%
A	2010	206.286267	95.490812	-4.98%
F	2011	206.132000	101.421247	6.21%
F	2012	207.277000	101.803362	0.38%
F	2013	203.815000	100.119249	-1.65%



Data Source(s): SABHRS, Department of Revenue, IHS, *Wall Street Journal*

Contacts: Department of Revenue, Board of Oil & Gas

Legislative Fiscal Division

Revenue Estimate Profile

Resource Indemnity Tax

Revenue Description: The state imposes a resource indemnity and ground water assessment (RIGWA) tax on the gross value of coal (based on the contract sales price), as well as most minerals, but not gravel, metals, oil, and natural gas. Prior to July 1, 2002 when the Governor by executive order certified to the Secretary of State that the resource indemnity trust balance had reached $100 million, a portion of oil and natural gas taxes had been distributed under the same methodology as the RIGWA tax. Once the RIT balance reached $100 million, this portion of oil and natural gas taxes no longer has a connection to the RIGWA tax. The RIGWA tax on all other production is specific to each resource as described below.

Statutory Reference:

Tax Rate (MCA) – 15-38-104
Tax Distribution (MCA) – 15-38-106
Date Due from metal producers – March 31st following the end of the calendar year (15-38-105, 15-38-106(1))
Date Due from mineral producers – 60 days following the end of the calendar year (15-38-105, 15-38-106(1))

Applicable Tax Rate(s): The applicable rates are as follows:

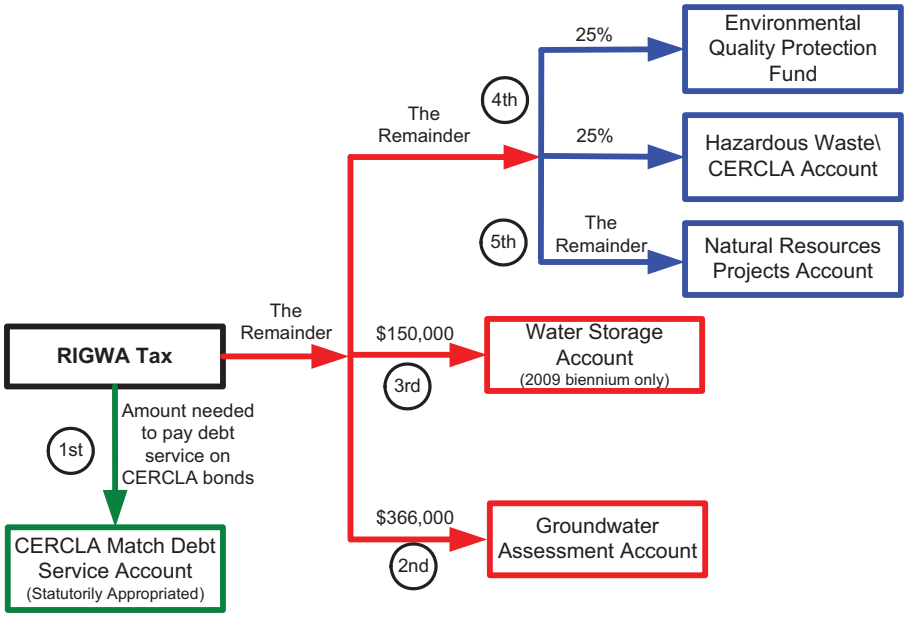
Coal: $25 plus 0.4% of the gross value of coal produced in the preceding year in excess of $6,250
Minerals: $25 plus 0.5% of the gross value of minerals (excluding gravel and metals, and excluding oil and natural gas since the resource indemnity trust has reached $100 million) produced in the preceding year in excess of $5,000
Talc: $25 plus 0.4% of the gross value of talc produced in the preceding year in excess of $625
Vermiculite: $25 plus 2.0% of the gross value of vermiculite produced in the preceding year in excess of $1,250
Limestone: $25 plus 10.0% of the gross value of limestone produced in the preceding year in excess of $250
Garnets: $25 plus 1.0% of the gross value of garnets produced in the preceding year in excess of $2,500

Distribution: Beginning FY 2004, the amount needed to cover debt service on CERCLA bonds (after amounts transferred from the CERCLA cost recovery account) is deposited to the CERCLA match debt service account. Beginning FY 2008, the remainder of RIGWA tax proceeds is distributed in the following order:

1. $366,000 each year to the ground water assessment account
2. $150,000 to the water storage account for the 2009 biennium only
3. 50.0% of the remainder split evenly between the environmental quality protection fund and the hazardous waster/CERCLA account
4. the remainder to the natural resources projects account

Distribution Chart:

Beginning FY 2008



Collection Frequency: Annually - the tax is paid on or before March 31 of the year following the production year.

% of Total General Fund Revenue: N/A

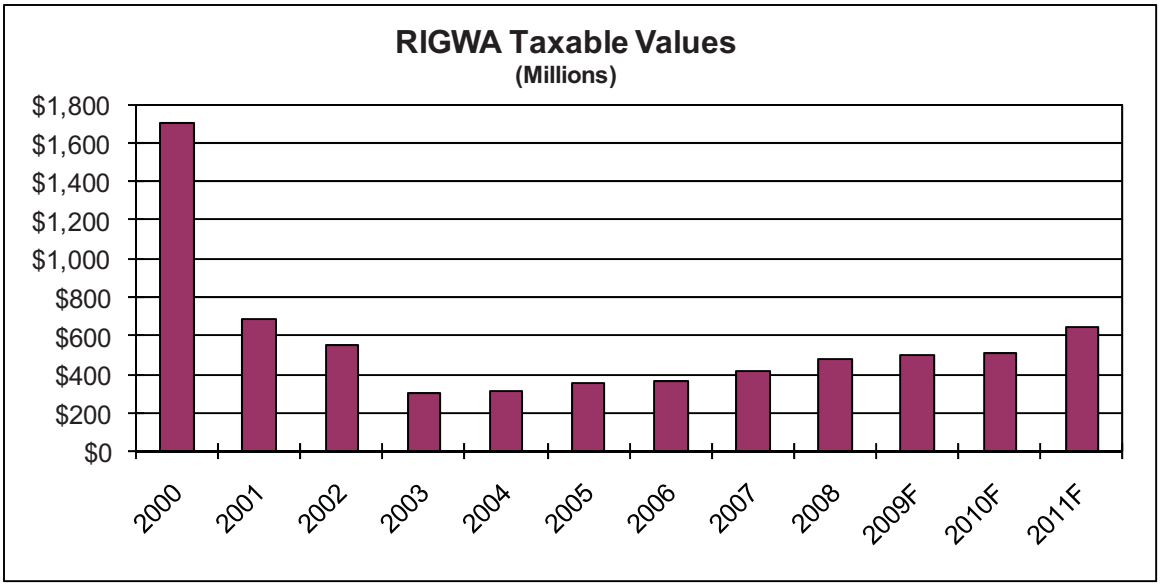
Revenue Estimate Methodology:

Data

The data used to estimate the resource indemnity and groundwater assessment (RIGWA) tax are obtained from the coal severance tax source, the property tax source, and the state accounting system (SABHRS). No adjustments are required on the raw data in preparation for analysis.

Analysis

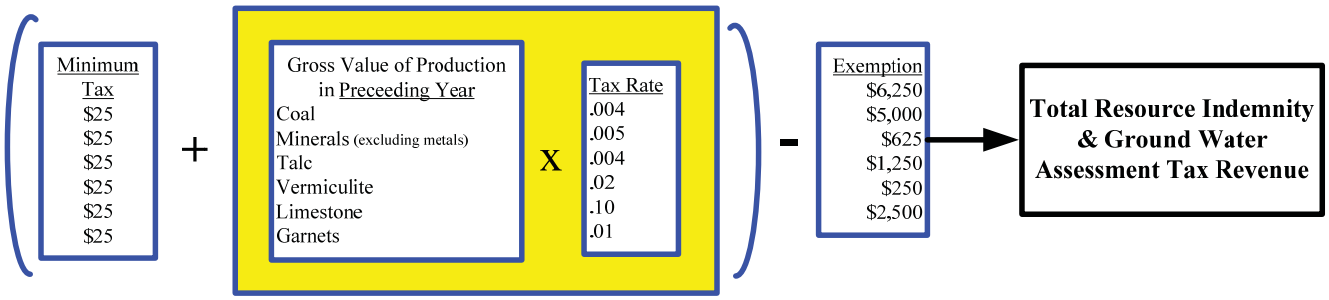
The RIGWA tax is imposed on the gross taxable value from the production of coal and miscellaneous mines. Before FY 2002, when Governor Martz certified that the resource indemnity trust had reached the required principal amount of $100 million, oil and natural gas production was also taxed under RIGWA, but the oil and natural gas component of the tax ended when the trust reached the limit. The gross value estimates prepared for the coal severance tax and class 1 property tax (miscellaneous minerals) are used in the estimate for the RIGWA tax.



The future taxable value of coal, produced by all mines, is estimated in the coal severance tax source. The estimate of coal value is $364.7 million, $506.7 million, and $497.9 million in FY 2009 through 2011, respectively. The future taxable value of other mineral production is estimated at the FY 2008 amount.

To develop the estimates for RIGWA tax collections, the tax rates are applied to the production value of each of the components, coal and other minerals. The tax estimates for the two components are summed to produce the total estimate of the RIGWA tax.

Forecast Methodology:



Legislative Fiscal Division

Revenue Estimate Profile

Resource Indemnity Tax

Revenue Estimate Assumptions:

	t Fiscal	Total Tax Millions	GF Tax Millions	Oil Millions	Natural Gas Millions	Coal Millions	Metals Millions	Other Millions
Actual	2000	6.793459	0.000000	0.851792	0.159668	1.034506	0.000000	0.288596
Actual	2001	2.744480	0.000000	1.667407	0.000000	0.951681	0.001862	0.123529
Actual	2002	2.200785	0.000000	0.976477	0.000000	0.998816	0.000460	0.225031
Actual	2003	1.225610	0.000000	0.000000	0.000000	1.005490	0.000000	0.220121
Actual	2004	1.250528	0.000000	0.001614	0.000000	0.965537	0.000000	0.284991
Actual	2005	1.436378	0.000000	0.000000	0.000000	1.118400	0.000000	0.317978
Actual	2006	1.456411	0.000000	0.000000	0.000000	1.086862	0.000000	0.369549
Actual	2007	1.646918	0.000000	0.000000	0.000000	1.211936	0.000000	0.434981
Actual	2008	1.925989	0.000000	0.000000	0.000000	1.366020	0.000000	0.559970
Actual	2009	2.053954	0.000000	0.000000	0.000000	1.465476	0.000000	0.588478
Actual	2010	1.711845	0.000000	0.000000	0.000000	1.457310	0.000000	0.254534
Forecast	2011	2.067000	0.000000	0.000000	0.000000	1.812117	0.000000	0.254534
Forecast	2012	2.224000	0.000000	0.000000	0.000000	1.969462	0.000000	0.254534
Forecast	2013	2.373000	0.000000	0.000000	0.000000	2.118852	0.000000	0.254534

	t Fiscal	Trust Other Millions	Trust Metal Millions	Renewable Millions	Ground Millions	Reclamation Millions	Orphan Millions
Actual	2000	3.391472	0.000000	0.000000	0.521579	1.440204	1.440204
Actual	2001	2.205880	0.000000	0.000000	0.300000	0.119300	0.119300
Actual	2002	1.588631	0.000000	0.000000	0.300000	0.156077	0.156077
Actual	2003	0.000000	0.000000	0.000000	0.366000	0.429805	0.279805
Actual	2004	-0.000188	0.000000	0.000000	0.366000	0.442358	0.442358
Actual	2005	0.252454	0.000000	0.000000	0.113546	0.535189	0.441681
Actual	2006	0.000000	0.000000	0.000000	0.366000	0.451163	0.451162
Actual	2007	0.000000	0.000000	0.000000	0.366000	0.508562	0.508562
Actual	2008	0.000000	0.000000	0.000000	0.366000	0.000000	0.000000
Actual	2009	0.000000	0.000000	0.000000	0.366000	0.000000	0.000000
Actual	2010	0.000000	0.000000	0.000000	0.366000	0.000000	0.000000
Forecast	2011	0.000000	0.000000	0.000000	0.366000	0.000000	0.000000
Forecast	2012	0.000000	0.000000	0.000000	0.366000	0.000000	0.000000
Forecast	2013	0.000000	0.000000	0.000000	0.366000	0.000000	0.000000

Legislative Fiscal Division

Revenue Estimate Profile

Resource Indemnity Tax

	t Fiscal	Scholarship Millions	Debt Service Millions	Water Storage Millions	Protection Fund Millions	CERCLA Account Millions	Projects Account Millions	Trust Balance Millions
Actual	2000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	96.404163
Actual	2001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	100.373547
Actual	2002	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	102.065653
Actual	2003	0.150000	0.000000	0.000000	0.000000	0.000000	0.000000	100.000965
Actual	2004	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	100.002390
Actual	2005	0.093508	0.000000	0.000000	0.000000	0.000000	0.000000	100.254844
Actual	2006	0.000000	0.188086	0.000000	0.000000	0.000000	0.000000	100.023109
Actual	2007	0.000000	0.263794	0.000000	0.000000	0.000000	0.000000	100.023109
Actual	2008	0.000000	0.273056	0.150000	0.283985	0.283985	0.567954	100.023109
Actual	2009	0.000000	0.271938	0.000000	0.354004	0.354004	0.708008	100.023109
Actual	2010	0.000000	0.272038	0.150000	0.230952	0.230952	0.461903	100.023109
Forecast	2011	0.000000	0.296156	0.000000	0.351211	0.351211	0.702422	100.023109
Forecast	2012	0.000000	0.296156	0.000000	0.390461	0.390461	0.780922	100.023109
Forecast	2013	0.000000	0.296156	0.000000	0.427711	0.427711	0.855422	100.023109

Total Tax = Coal + Other

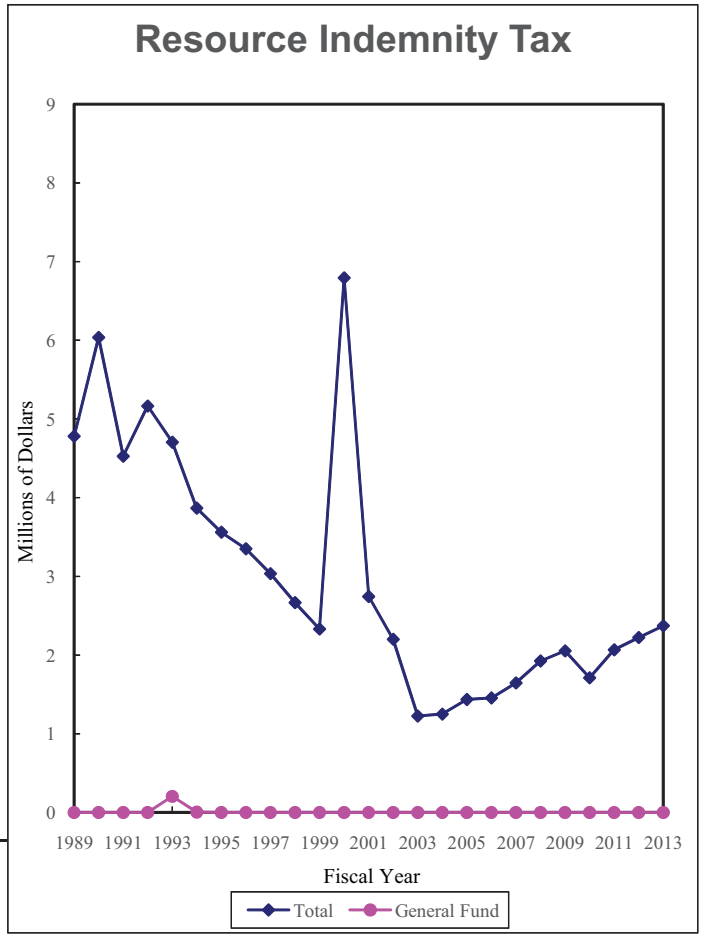
Legislative Fiscal Division

Revenue Estimate Profile

Resource Indemnity Tax

Revenue Projection:

	Fiscal Year	Total Collections Millions	General Fund Collections Millions	GF Percent Change
A	1989	4.782041	0.000000	Not App.
A	1990	6.037436	0.000000	Not App.
A	1991	4.527135	0.000000	Not App.
A	1992	5.164977	0.000000	Not App.
A	1993	4.705596	0.204434	Not App.
A	1994	3.867897	0.004206	-97.94%
A	1995	3.561042	0.000078	-98.15%
A	1996	3.351177	0.000000	-100.00%
A	1997	3.036136	0.000000	Not App.
A	1998	2.666933	0.000000	Not App.
A	1999	2.331948	0.000000	Not App.
A	2000	6.793459	0.000000	Not App.
A	2001	2.744480	0.000000	Not App.
A	2002	2.200785	0.000000	Not App.
A	2003	1.225610	0.000000	Not App.
A	2004	1.250528	0.000000	Not App.
A	2005	1.436378	0.000000	Not App.
A	2006	1.456411	0.000000	Not App.
A	2007	1.646918	0.000000	Not App.
A	2008	1.925989	0.000000	Not App.
A	2009	2.053954	0.000000	Not App.
A	2010	1.711845	0.000000	Not App.
F	2011	2.067000	0.000000	Not App.
F	2012	2.224000	0.000000	Not App.
F	2013	2.373000	0.000000	Not App.



Data Source(s): SABHRS, Department of Revenue, Surveys of Various Companies

Contacts: Department of Revenue

Legislative Fiscal Division

Revenue Estimate Profile

US Mineral Royalty

Revenue Description: Under the federal Mineral Lands Leasing Act (30 USC, Section 191), 50.0% of all sales, bonuses, royalties, and rentals received from federal lands in Montana must be paid to the state. However due to federal legislation, from October 2007 through the current year, state shares were 48.0%. Based on statements by Office of Natural Resources Revenue personnel, the reduced rate is assumed to continue. The money is to be used as the legislature may direct, giving priority to those subdivisions of the state socially or economically impacted by development of minerals leased under the federal act. The revenue produced on federal public lands includes royalties and bonuses from oil, gas, coal, and other mineral exploration and extraction.

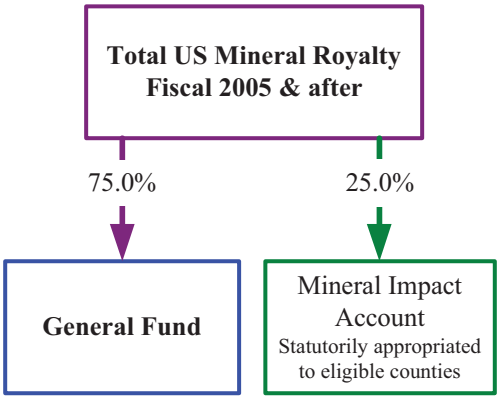
Statutory Reference:

Tax Rate – NA
Distribution – 17-3-240, MCA

Applicable Tax Rate(s): N/A

Distribution: With the enactment of Senate Bill 212 by the 2005 Legislature, receipts are deposited 75% to the general fund and 25% to the state special revenue mineral impact account. Money in the mineral impact account is statutorily appropriated for distribution to eligible counties in which the minerals were extracted.

Distribution Chart:



Collection Frequency: Monthly

% of Total General Fund Revenue:

FY 2004 – 2.08%	FY 2007 – 1.54%	FY 2010 – 1.86%
FY 2005 – 1.78%	FY 2008 – 1.85%	
FY 2006 – 1.72%	FY 2009 – 1.75%	

Revenue Estimate Methodology:

The estimate for Montana's share of mineral royalties and other mineral related income from its federal lands is derived from estimating each of the major sources of revenue, applying the applicable royalty rate for each, and multiplying by Montana's share of the revenue.

Legislative Fiscal Division

Revenue Estimate Profile

US Mineral Royalty

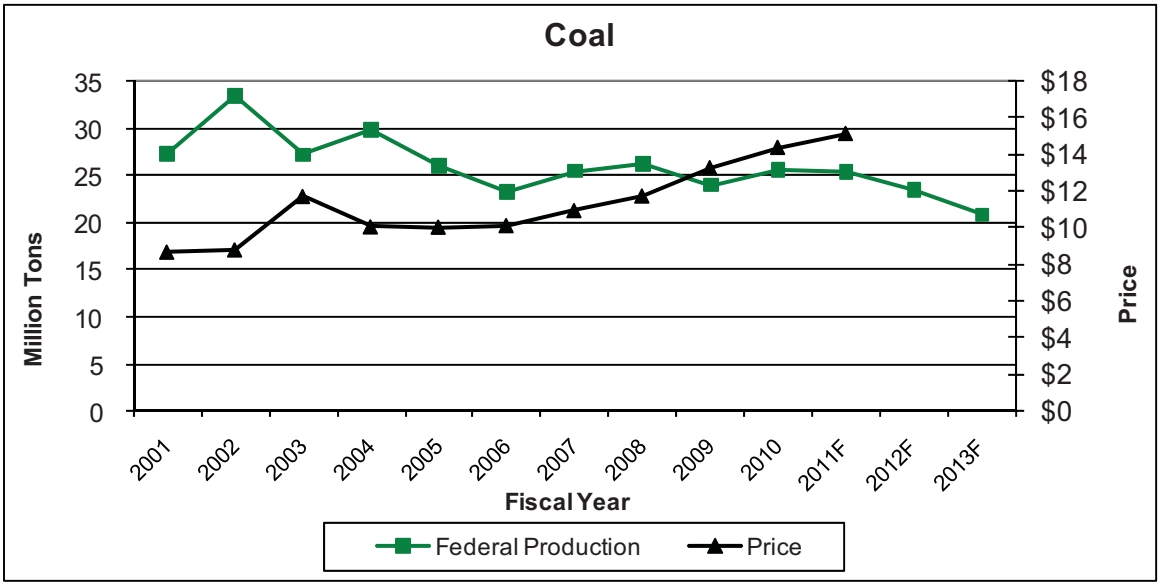
Data

Data from which to base estimates for this revenues source have been sparse and incomplete. Up until October 2001, the Mineral Management Service (now called Office of Natural Resources Revenue) of the U.S. Department of Interior had provided data used to make the estimate. However, lawsuits and court orders have stifled the flow of data since then. Only recently has yearly data been available for federal fiscal years through 2009. The current estimates rely on these data, future prices of oil and natural gas, and coal production on federal land obtained from a survey of Montana's coal companies.

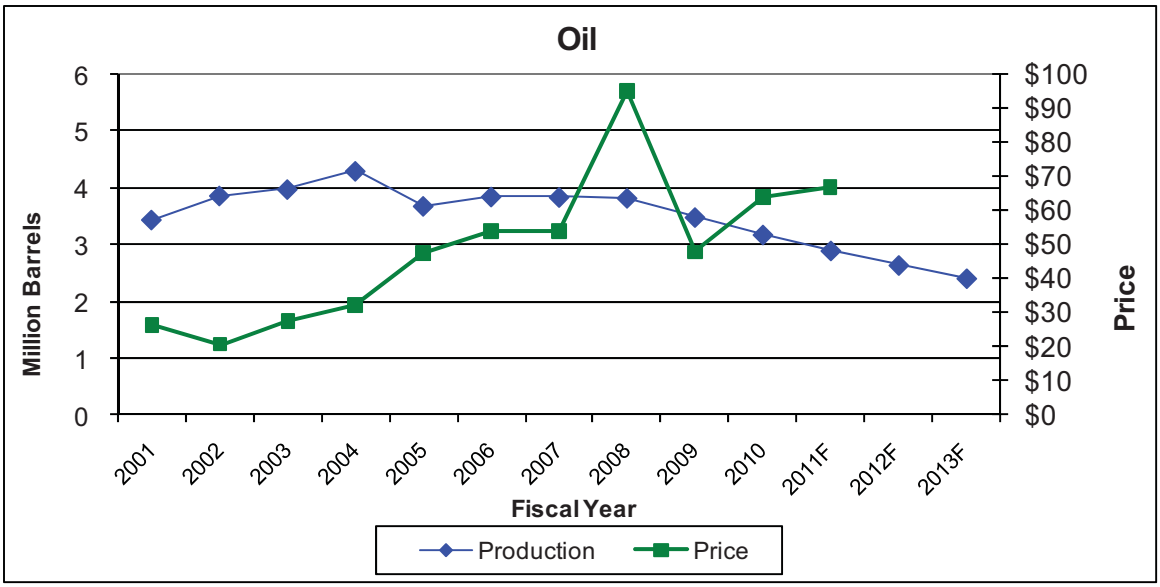
Analysis

The estimate is derived by first estimating the individual revenue components. The estimate for mineral royalties is obtained by multiplying together estimates for production, price, the applicable royalty rate, and Montana's percentage share.

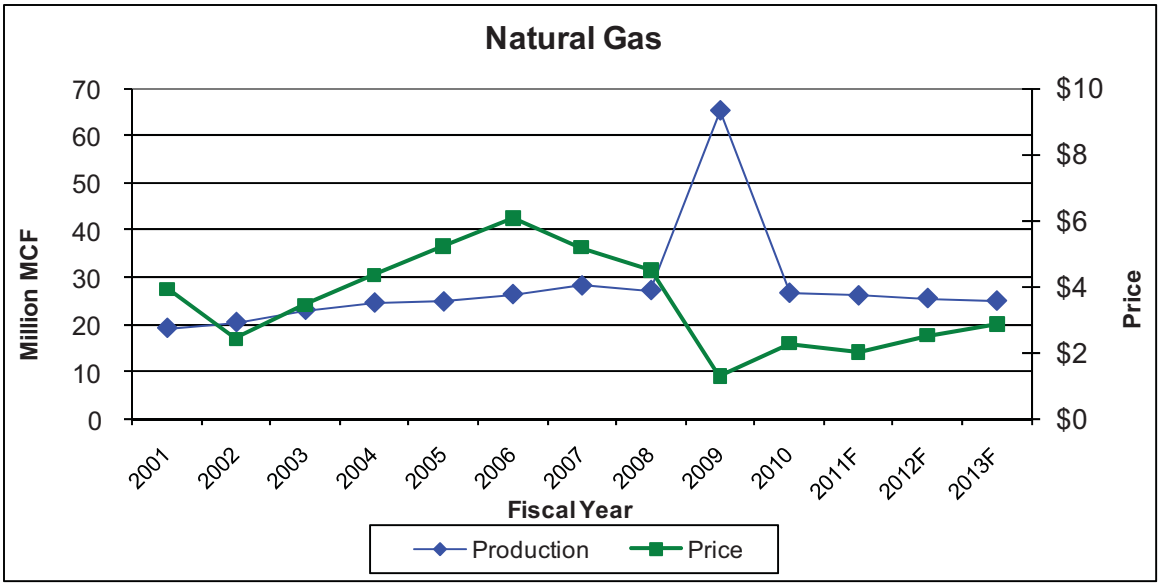
- Coal – Calendar year production is estimated by multiplying the calendar year production reported by each company on the coal survey by the percent of production each anticipated to be from federal lands multiplied by a federal fiscal year conversion factor. Price is determined by calculating a federal fiscal year growth by converting the calendar year Montana contract sales price into a federal fiscal year price and determining the growth between the current and previous years. Production multiplied by price yields value. The value is then multiplied by the royalty rate for the last known federal fiscal year. This royalty rate is used for all estimated years. Of the total calculated royalty, Montana receives 48%.



- Oil – Federal fiscal year production is estimated by multiplying the current year's amount by the growth between it and the previous year. Yearly prices are determined by first averaging quarterly future prices of West Texas Intermediate oil as forecast by IHS, based on the federal fiscal year, for the current and previous year. Price for the current federal fiscal year is determined by multiplying current year's IHS price by the ratio of the previous year's estimated (or actual) price to IHS price for the previous year. Production multiplied by price yields value. The value is then multiplied by the royalty rate. The actual royalty rate for federal FY 2009 is used for all estimated years. Of the total calculated royalty, Montana receives 48%.



- Natural Gas – Calendar year production is estimated by multiply the previous year's production by the growth rate of the two previous years. Yearly prices are determined by first averaging quarterly future prices of well head natural gas as forecast by IHS, based on the federal fiscal year, for the current and previous year. The current year price is then multiplied by the ratio of the previous year's price to the previous year's estimated (or actual) price. Production multiplied by price yields value. The value is then multiplied by the royalty rate. The actual royalty rate for federal FY 2009 is used for all estimated years. Of the total calculated royalty, Montana receives a portion. Of the total calculated royalty, Montana receives 48%.

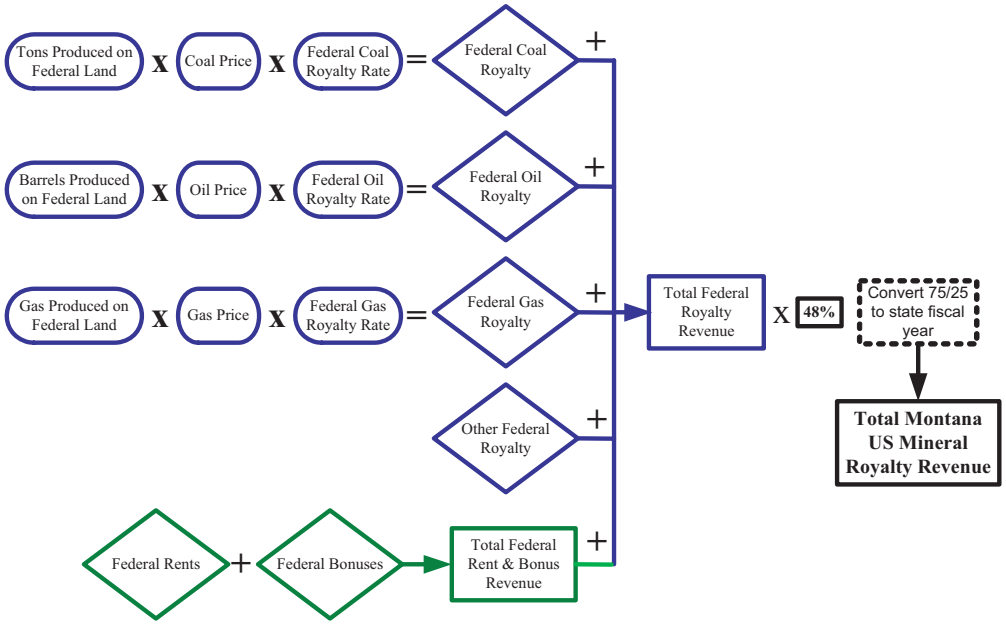


- Natural Gas Liquid – Federal fiscal year production is estimated by changing the previous year's amount by the percentage change in the last two years for all of the estimated years. Yearly prices are determined by first averaging quarterly future prices of well head natural gas as forecast by IHS, based on the federal fiscal year, for the current and previous year. The current year price is then multiplied by the ratio of the previous year's price to the previous year's estimated (or actual) price. Production multiplied by price yields value. The value is then multiplied by the royalty rate. The actual royalty rate for federal FY 2009 is used for all estimated years. Of the total calculated royalty, Montana receives 48%.
- Methane – Federal fiscal year production is estimated by changing the 2009 amount and each forecast year by the average annual change between 2005 and 2009. Yearly prices are determined by first averaging quarterly future prices of national well head natural gas as forecast by IHS, based on the federal fiscal year, for the current and previous year. The current year price is then multiplied by the ratio of the previous year's price to the previous year's estimated (or actual) price. Production multiplied by price yields value. The value is then multiplied by the royalty rate. The actual royalty rate for federal FY 2009 is used for all estimated years. Of the total calculated royalty, Montana 48%.
- Rents, Bonuses, and Other – The amounts from actual federal FY 2009 are used for all estimated years. Montana's portion is 48%.

Adjustments and Distribution

Since the estimates are based on the federal fiscal year a 25/75 split is used to convert to a state fiscal year. The total amount of anticipated revenue is distributed 75% to the general fund and 25% to the state special revenue fund.

Forecast Methodology:



Legislative Fiscal Division

Revenue Estimate Profile

US Mineral Royalty

Revenue Estimate Assumptions:

	t Fiscal	Total Rev. Millions	GF Rev. Millions	One-Time Settlement Millions	Mineral Impact Millions	GF Allocation Percent
Actual	2000	19.242954	19.242954			100.00%
Actual	2001	31.007874	31.007874	6.038000		100.00%
Actual	2002	19.772193	19.772193	0.000000		100.00%
Actual	2003	25.989828	25.989828	0.000000		100.00%
Actual	2004	28.736303	28.736303	0.000000		100.00%
Actual	2005	36.391633	27.293725	0.000000	9.097908	75.00%
Actual	2006	39.071469	29.303602	0.000000	9.767867	75.00%
Actual	2007	37.627625	28.220719	0.000000	9.406906	75.00%
Actual	2008	48.518079	36.388559	0.000000	12.129520	75.00%
Actual	2009	42.097819	31.573364	0.000000	10.524455	75.00%
Actual	2010	40.383725	30.287794	0.000000	10.095931	75.00%
Forecast	2011	39.565000	29.674000	0.000000	9.891000	75.00%
Forecast	2012	39.619000	29.714000	0.000000	9.905000	75.00%
Forecast	2013	38.501000	28.876000	0.000000	9.625000	75.00%

	t Cal	Oil Barrels	Coal Tons	Gas MCF's	Oil Price	Coal Price	Gas Price
Actual	2000						
Actual	2001						
Actual	2002	3.862811	33.491273	20.391778	20.655800	8.794516	2.417834
Actual	2003	3.974831	27.206486	23.003369	27.508280	11.709884	3.445458
Actual	2004	4.295711	29.780631	24.537832	31.980751	10.053941	4.355901
Actual	2005	3.679243	25.938193	24.766597	47.473867	10.040273	5.214713
Actual	2006	3.844671	23.192308	26.324243	53.695739	10.122990	6.086452
Actual	2007	3.835864	25.440065	28.180649	53.822411	10.943342	5.189303
Actual	2008	3.820229	26.285535	27.198623	95.081570	11.736083	4.494815
Actual	2009	3.482930	23.984703	65.344461	47.720138	13.282359	1.312006
Actual	2010	3.175412	25.618750	26.617528	64.026504	14.393893	2.292401
Forecast	2011	2.895046	25.373750	26.048848	66.686265	15.147888	2.025636
Forecast	2012	2.639434	23.500000	25.492318	72.903902	15.668703	2.532686
Forecast	2013	2.406391	20.831250	24.947678	76.390757	16.117878	2.874456

	t Cal	Oil Roy. Rate	Coal Roy. Rate	Gas Roy. Rate	Oil Revenue	Coal Revenue	Gas Revenue
Actual	2000						
Actual	2001						
Actual	2002	0.113443	0.116053	0.124149	9.051530	34.182163	6.121055
Actual	2003	0.113266	0.117664	0.123688	12.384542	37.485837	9.803198
Actual	2004	0.111631	0.114227	0.120545	15.335865	34.200945	12.884411
Actual	2005	0.108074	0.121958	0.116781	18.877129	31.761055	15.082359
Actual	2006	0.111309	0.122188	0.112109	22.978867	28.686728	17.962305
Actual	2007	0.111327	0.121081	0.110753	22.984159	33.708943	16.196273
Actual	2008	0.106306	0.121686	0.164290	38.613772	37.538775	20.084956
Actual	2009	0.105594	0.119900	0.110158	17.550407	38.196858	9.444124
Actual	2010	0.105594	0.120000	0.110158	21.468372	44.250426	6.721626
Forecast	2011	0.105594	0.120000	0.110158	20.385957	46.123047	5.812540
Forecast	2012	0.105594	0.120000	0.110158	20.318929	44.185743	7.112245
Forecast	2013	0.105594	0.120000	0.110158	19.410926	40.290666	7.899541

	t Cal	Other Royalty	Rent&Bonus Revenue	Other Revenue	Total Revenue	State Share	State Share Percent
Actual	2000						
Actual	2001						
Actual	2002	0.680620	3.182765	0.293468	53.511601	22.328620	0.417267
Actual	2003	1.017980	7.105370	1.572410	69.369337	25.535373	0.368107
Actual	2004	0.505445	5.008854	1.800082	69.735602	30.294622	0.434421
Actual	2005	4.413216	4.751567	0.975580	75.860906	35.406360	0.466727
Actual	2006	4.013599	4.616071	1.096967	79.354537	38.000735	0.478873
Actual	2007	2.341567	4.318040	2.105568	81.654550	39.157155	0.479547
Actual	2008	16.751573	7.857420	-0.521196	120.325300	48.937641	0.406711
Actual	2009	1.893893	8.036160	-0.462270	74.659172	46.551258	0.623517
Actual	2010	2.562887	8.036160	-0.462270	82.577201	39.637056	0.480000
Forecast	2011	2.482346	8.036160	-0.462270	82.377780	39.541334	0.480000
Forecast	2012	3.404675	8.036160	-0.462270	82.595482	39.645832	0.480000
Forecast	2013	4.241825	8.036160	-0.462270	79.416848	38.120087	0.480000

Total Rev. = (Oil Barrels × Oil Price × Oil Roy. Rate + Coal Tons × Coal Price × Coal Roy. Rate + Gas MCF's × Gas Price × Gas Roy. Rate + Other Royalty + Rent&Bonus Revenue + Other Revenue) × State Share

GF Rev. = Total Rev × GF Allocation

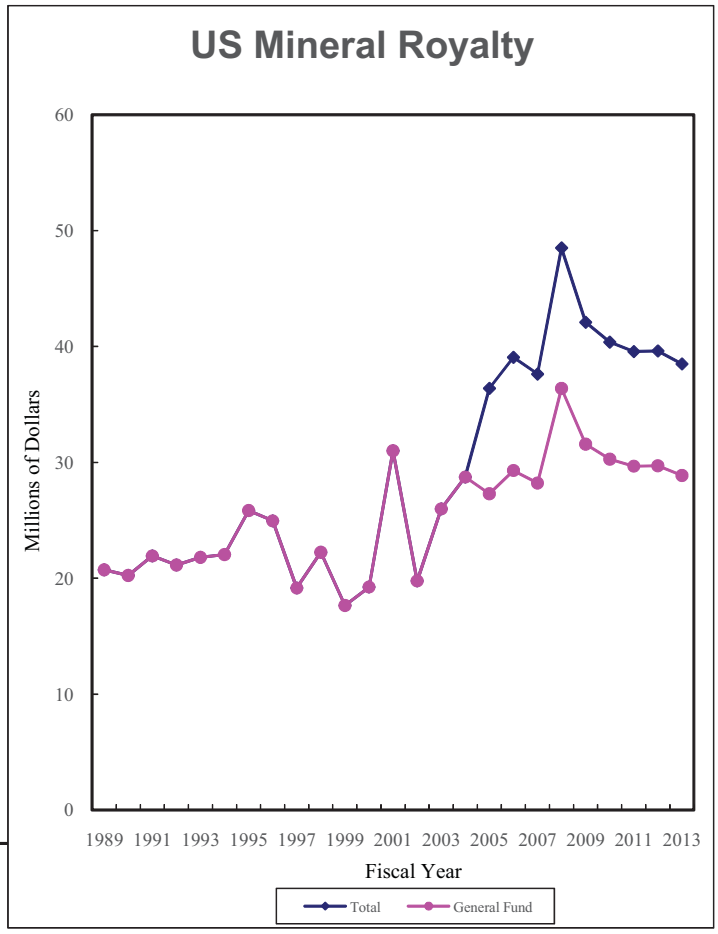
Legislative Fiscal Division

Revenue Estimate Profile

US Mineral Royalty

Revenue Projection:

	Fiscal Year	Total Collections Millions	General Fund Collections Millions	GF Percent Change
A	1989	20.727404	20.727404	Not App.
A	1990	20.240644	20.240644	-2.35%
A	1991	21.928394	21.928394	8.34%
A	1992	21.150278	21.150278	-3.55%
A	1993	21.799728	21.799728	3.07%
A	1994	22.052161	22.052161	1.16%
A	1995	25.847747	25.847747	17.21%
A	1996	24.958952	24.958952	-3.44%
A	1997	19.161163	19.161163	-23.23%
A	1998	22.240950	22.240950	16.07%
A	1999	17.650315	17.650315	-20.64%
A	2000	19.242954	19.242954	9.02%
A	2001	31.007874	31.007874	61.14%
A	2002	19.772193	19.772193	-36.23%
A	2003	25.989828	25.989828	31.45%
A	2004	28.736303	28.736303	10.57%
A	2005	36.391633	27.293725	-5.02%
A	2006	39.071469	29.303602	7.36%
A	2007	37.627625	28.220719	-3.70%
A	2008	48.518079	36.388559	28.94%
A	2009	42.097819	31.573364	-13.23%
A	2010	40.383725	30.287794	-4.07%
F	2011	39.565000	29.674000	-2.03%
F	2012	39.619000	29.714000	0.13%
F	2013	38.501000	28.876000	-2.82%



Data Source(s): SABHRS, Department of Revenue

Contacts: U.S. Minerals Management Service

Legislative Fiscal Division

Revenue Estimate Profile

Wholesale Energy Tax

Revenue Description: The wholesale energy transaction tax, enacted by the 1999 Legislature (HB 174 effective January 1, 2000) is imposed on the amount of electricity transmitted by a transmission services provider in the state.

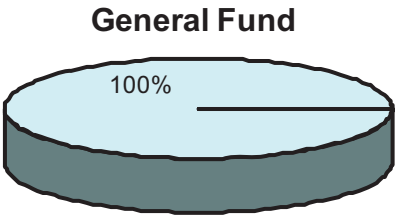
Statutory Reference:

Tax Rate (MCA) – 15-72-104(1)
Tax Distribution (MCA) – 15-72-106(3)
Date Due – 30th day of the month following the end of the calendar quarter (15-72-110)

Applicable Tax Rate(s): The tax rate of 0.015 cent is applied to the number of kilowatt hours transmitted (or $0.15 per megawatt). If the electricity is produced in-state and sold out-of-state, the taxpayer is the person(s) owning the electrical generation property, and the tax is collected by the transmission services provider. If the electricity is produced in-state for delivery in-state, or is produced outside the state for delivery in-state, the taxpayer is the distribution services provider, and the tax is collected by the transmission services provider. The tax does not apply to: 1) electricity that is transmitted through the state that is neither produced nor consumed in the state; 2) electricity generated in the state by an agency of the federal government for delivery outside the state; 3) electricity delivered to a distribution services provider that is a municipal utility or a rural electric cooperative which opts out of competition under HB 390 (1997 legislature); 4) electricity delivered to a purchaser that received its power directly from a transmission or distribution facility owned by an entity of the US government; 5) electricity meeting certain contractual requirements that is delivered by a distribution services provider that was first served by a public utility after December 31, 1996; 6) electricity that has been subject to the transmission tax in another state; and 7) a 5% line loss exemption for transmission of electricity produced in the state for delivery outside of the state.

Distribution: All proceeds are deposited into the general fund.

Distribution Chart:



Collection Frequency: Quarterly

% of Total General Fund Revenue:

FY 2004 – 0.24%	FY 2007 – 0.20%	FY 2010 – 0.22%
FY 2005 – 0.22%	FY 2008 – 0.20%	
FY 2006 – 0.22%	FY 2009 – 0.21%	

Revenue Estimate Methodology:

The wholesale energy transaction tax is applied to the number of kilowatt hours transmitted less 5% for line loss on out-of-state transmissions. The estimate for the tax revenue is derived by estimating the annual taxable kilowatt hours transmitted for each company and any company anticipated to be transmitting within the 3-year period in question. From these estimates, the tax rate is applied. Since all kilowatt hours transmitted is reported on a calendar year basis, the resulting calendar year estimates are converted into fiscal year estimates.

Legislative Fiscal Division

Revenue Estimate Profile

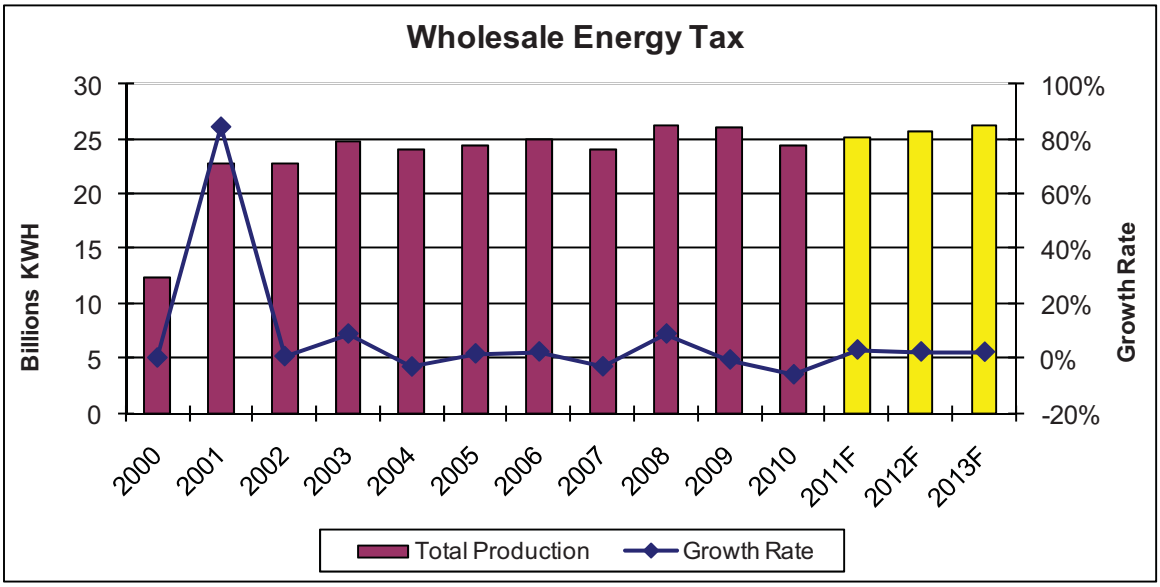
Wholesale Energy Tax

Data

All energy transmitting companies are surveyed for anticipated kilowatt hours transmitted, anticipated new transmissions, anticipated downtime or reduced transmission, and a percentage split between in-state and out-of-state transmissions. Although the accuracy in the results of the survey was questionable, the raw data were used to develop growth rates. Data from quarterly reports produced by DOR provide a history of in-state and out-of-state kilowatt hours transmitted by each individual company.

Analysis

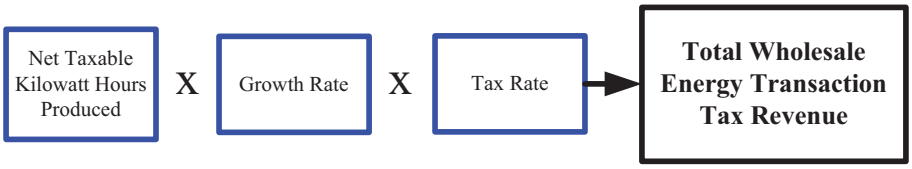
A number of different techniques can be used to develop the revenue estimate for this source. Choosing a technique depends on whether the technique passes the "reasonable" test. The technique based on historical data was used in this analysis. A growth rate based on the change in total yearly production from the actual/estimated year to the amount provided by the surveys was applied to the previous gross production amount. The totals are added for each year and allowable line loss is calculated and subtracted from the yearly total. Net taxable kilowatt hours are multiplied by the tax rate to derive total revenue from this source.



Adjustments and Distribution

Once total tax revenue for each fiscal year is determined, the applicable distribution percentage, 100% to the general fund, is applied.

Forecast Methodology:



Legislative Fiscal Division

Revenue Estimate Profile

Wholesale Energy Tax

Revenue Estimate Assumptions:

	t Fiscal	Total Tax Millions	GF Tax Millions	KWH Fiscal Millions	Line Loss Fiscal Millions	Credits Millions	Tax Rate
Actual	2000	1.894704	1.894704	12273.924051	373.483823	0.000000	0.000150
Actual	2001	3.503427	3.503427	22658.110488	673.956373	0.000000	0.000150
Actual	2002	2.906263	2.906263	22775.157501	697.796150	0.000000	0.000150
Actual	2003	3.532056	3.532056	24780.402486	730.789478	0.000000	0.000150
Actual	2004	3.292659	3.292659	23961.126405	725.187200	0.000000	0.000150
Actual	2005	3.370263	3.370263	24326.536427	749.863350	0.000000	0.000150
Actual	2006	3.813495	3.813495	24870.822230	758.471450	0.000000	0.000150
Actual	2007	3.651024	3.651024	24070.520901	709.589400	0.000000	0.000150
Actual	2008	3.856112	3.856112	26192.843079	796.685100	0.000000	0.000150
Actual	2009	3.864771	3.864771	26004.638234	783.005100	0.000000	0.000150
Actual	2010	3.556056	3.556056	24409.286549	718.553000	0.000000	0.000150
Forecast	2011	3.657000	3.657000	25132.339024	754.873009	0.000000	0.000150
Forecast	2012	3.738000	3.738000	25688.828859	770.095537	0.000000	0.000150
Forecast	2013	3.818000	3.818000	26236.772805	786.521712	0.000000	0.000150

Total Tax = (KWH Fiscal - Line Loss Fiscal) × Tax Rate - Credits
GF Tax = Total Tax

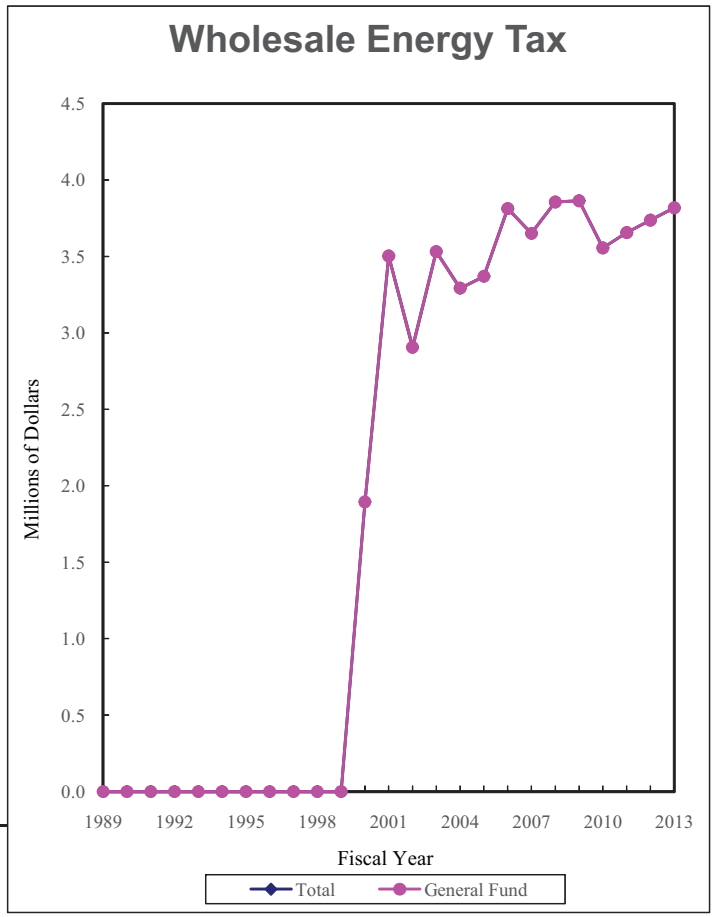
Legislative Fiscal Division

Revenue Estimate Profile

Wholesale Energy Tax

Revenue Projection:

	Fiscal Year	Total Collections Millions	General Fund Collections Millions	GF Percent Change
A	1989	0.000000	0.000000	Not App.
A	1990	0.000000	0.000000	Not App.
A	1991	0.000000	0.000000	Not App.
A	1992	0.000000	0.000000	Not App.
A	1993	0.000000	0.000000	Not App.
A	1994	0.000000	0.000000	Not App.
A	1995	0.000000	0.000000	Not App.
A	1996	0.000000	0.000000	Not App.
A	1997	0.000000	0.000000	Not App.
A	1998	0.000000	0.000000	Not App.
A	1999	0.000000	0.000000	Not App.
A	2000	1.894704	1.894704	Not App.
A	2001	3.503427	3.503427	84.91%
A	2002	2.906263	2.906263	-17.05%
A	2003	3.532056	3.532056	21.53%
A	2004	3.292659	3.292659	-6.78%
A	2005	3.370263	3.370263	2.36%
A	2006	3.813495	3.813495	13.15%
A	2007	3.651024	3.651024	-4.26%
A	2008	3.856112	3.856112	5.62%
A	2009	3.864771	3.864771	0.22%
A	2010	3.556056	3.556056	-7.99%
F	2011	3.657000	3.657000	2.84%
F	2012	3.738000	3.738000	2.21%
F	2013	3.818000	3.818000	2.14%



Data Source(s): SABHRS, Department of Revenue Wholesale Energy Tax Returns, IHS, *Wall Street Journal*

Contacts: Transmission companies' financial personnel, Department of Revenue