

## Oil and Gas Handout #2

### Comparison of 2002 Baseline and 2018 Preliminary Area Source Emissions

#### Preliminary 2018 Oil and Gas Baseline Area Source NOx Emissions

	Area Sources, WRAP Oil and Gas Inventory				
	Compressors	Drill Rigs	Minor NOx Processes	CBM Pump Engines	Total
Tribes	342	215	1,820	1	2,036
Alaska	-	431	2	-	433
Arizona	-	-	-	-	-
Colorado	-	2,172	20,849	154	23,175
Idaho	-	-	-	-	-
Montana	261	1,277	7,100	*	8,377
Nevada	4	13	7	-	20
New Mexico	6,278	5,046	22,673	22	27,741
North Dakota	248	429	146	*	575
Oregon	3	-	7	-	7
South Dakota	34	19	68	-	87
Utah	3,679	1,782	3,976	*	5,758
Washington	-	-	-	-	-
Wyoming	20,315	4,281	9,920	681	14,881
<b>Total</b>	<b>31,165</b>	<b>15,663</b>	<b>66,568</b>	<b>858</b>	<b>114,254</b>

#### 2002 Baseline Area Source Oil and Gas Emissions

State	Area Sources, WRAP Oil and Gas Inventory				
	Compressors	Drill Rigs	Minor NOx Processes	CBM Pump Engines	Total
Tribes	1,900	198	768	9	2,875
Alaska	-	877	9	-	886
Arizona	-	-	-	-	-
Colorado	-	5,734	15,924	1,489	23,147
Idaho	-	-	-	-	-
Montana	2,027	1,044	4,721	-	7,792
Nevada	33	24	5	-	62
New Mexico	40,095	6,645	13,482	225	60,446
North Dakota	2,920	1,536	176	-	4,631
Oregon	73	-	12	-	85
South Dakota	284	36	47	-	367
Utah	2,371	676	2,143	-	5,190
Washington	-	-	-	-	-
Wyoming	7,025	4,964	6,283	1,428	19,699
<b>Total</b>	<b>56,728</b>	<b>21,735</b>	<b>43,568</b>	<b>3,150</b>	<b>125,181</b>

**NOTES:**

The 2018 inventory is not complete. Emissions remain to be calculated for several areas that did not have existing 2002 production. Such is the case for CBM generator emissions in Montana, North Dakota and Utah. Other states may also show small changes in final 2018 emissions estimates. In addition, projections have not been made for the State of California, so California is not included in the comparison. 2018 emissions for California will be derived from emissions projections made by the California ARB

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### Comparison of 2002 Baseline and 2018 Preliminary Area Source Emissions

**Comparison of Preliminary 2018 to 2002 Baseline Oil and Gas Area Source Emissions**

State	Area Sources - Change in Emissions, 2002 to 2018				
	Compressors	Drill Rigs	Minor NOx Processes	CBM Pump Engines	Total
Tribes	- 1,558	16	1,052	- 8	- 840
Alaska	-	- 446	- 7	-	- 453
Arizona	-	-	-	-	-
Colorado	-	- 3,563	4,926	- 1,335	29
Idaho	-	-	-	-	-
Montana	- 1,766	233	2,379	*	585
Nevada	- 29	- 12	2	-	- 43
New Mexico	- 33,817	- 1,599	9,191	- 202	- 32,705
North Dakota	- 2,672	- 1,107	- 29	*	- 4,056
Oregon	- 70	-	- 5	-	- 78
South Dakota	- 250	- 17	21	-	- 280
Utah	1,308	1,106	1,834	*	568
Washington	-	-	-	-	-
Wyoming	13,290	- 683	3,636	- 747	- 4,818
<b>Total</b>	<b>- 25,563</b>	<b>- 6,072</b>	<b>23,000</b>	<b>- 2,292</b>	<b>- 10,927</b>

**Percent Difference, Preliminary 2018 Compared to 2002 Baseline Oil and Gas Area Source Emissions**

State	Area Sources - Percent Difference, 2002 to 2018				
	Compressors	Drill Rigs	Minor NOx Processes	CBM Pump Engines	Total
Tribes	- 82%	8%	137%	- 87%	- 29%
Alaska		- 51%	- 79%		- 51%
Arizona					
Colorado		- 62%	31%	- 90%	0%
Idaho					
Montana	- 87%	22%	50%	*	8%
Nevada	- 88%	- 47%	42%		- 68%
New Mexico	- 84%	- 24%	68%	- 90%	- 54%
North Dakota	- 91%	- 72%	- 17%	*	- 88%
Oregon	- 95%		- 43%		- 92%
South Dakota	- 88%	- 47%	45%		- 76%
Utah	55%	164%	86%	*	11%
Washington					
Wyoming	189%	- 14%	58%	- 52%	- 24%
<b>Total</b>	<b>- 45%</b>	<b>- 28%</b>	<b>53%</b>	<b>- 73%</b>	<b>- 9%</b>

**NOTES:**

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