

Non-point Oil and Gas: Future-year
emissions for Exploration sources
for 2016beta

Exploration sources: new approach for beta

- Use average of 2014 and 2016 exploration activity as input into Tool
- Output non-point emissions will serve as future-year emissions after “growth”
- Controls still need to be applied in some manner

Activity Parameter	2016	2014	Average
Oil Well Completions - Conventional	6,639	17,550	12,095
Oil Well Completions - Unconventional	5,538	16,494	11,016
Gas Well Completions - Conventional	1,236	1,860	1,548
Gas Well Completions - Unconventional	1,982	4,079	3,031
CBM Well Completions - Conventional	120	0	60
CBM Well Completions - Unconventional	90	323	207
Oil Well Spuds - Directional	767	3,858	2,313
Oil Well Spuds - Horizontal	3,508	17,711	10,610
Oil Well Spuds - Unknown	253	496	375
Oil Well Spuds - Vertical	2,486	14,039	8,263
Gas Well Spuds - Directional	314	779	547
Gas Well Spuds - Horizontal	3,564	2,897	3,231
Gas Well Spuds - Unknown	8	95	52
Gas Well Spuds - Vertical	358	979	669
CBM Well Spuds - Directional	11	20	16
CBM Well Spuds - Horizontal	11	11	11
CBM Well Spuds - Unknown	7	51	29
CBM Well Spuds - Vertical	112	157	135
Oil Well Depth - Directional	5,707,850	21,460,211	13,584,030
Oil Well Depth - Horizontal	35,250,479	160,292,572	97,771,526
Oil Well Depth - Unknown	841,198	1,501,479	1,171,339
Oil Well Depth - Vertical	19,474,776	104,154,436	61,814,606
Gas Well Depth - Directional	3,745,683	7,624,995	5,685,339
Gas Well Depth - Horizontal	37,324,205	23,399,855	30,362,030
Gas Well Depth - Unknown	27,015	463,393	245,204
Gas Well Depth - Vertical	3,494,878	6,778,569	5,136,724
CBM Well Depth - Directional	136,790	220,693	178,741
CBM Well Depth - Horizontal	136,019	119,707	127,863
CBM Well Depth - Unknown	23,638	243,777	133,707
CBM Well Depth - Vertical	306,244	1,572,899	939,572

National Emissions Comparison for EXPLORATION only (tons): to be used in future-year as "growth"

	2014_NEI_FINAL_TOOL	2016_BASE_TOOL	2016_STATE_TOOL	2014_2016_STATE_TOOL
NOX	176305	42838	42878	83425
VOC	230024	90377	89708	166795
PM2.5	6706	2547	2551	4964
SO2	10303	5212	5197	7951
CO	48205	11817	11729	22430
PM10	6899	2631	2635	5127