

**NORTH DAKOTA CUMULATIVE OIL PRODUCTION
BY FORMATION THROUGH DECEMBER 2018**

FORMATION	CUMULATIVE OIL	PERCENT	WELLS
BAKKEN	2,724,954,473	59.02	13,806
BAKKEN/THREE FORKS	17,186,193	0.37	63
BIRDBEAR	21,345,381	0.46	175
CAMBRO/ORDOVICIAN	454,953	0.01	5
DAWSON BAY	4,156,308	0.09	14
DEADWOOD	1,008	0.00	2
DEVONIAN	103,460,326	2.24	144
DUPEROW	53,435,448	1.16	353
GUNTON	279,416	0.01	11
HEATH	67,322,938	1.46	198
INTERLAKE	8,568	0.00	1
LODGEPOLE	62,428,963	1.35	52
LODGEPOLE/BAKKEN	5,883	0.00	1
MADISON	969,906,372	21.01	5,627
MIDALE/NESSON	3,397,431	0.07	48
MISSION CANYON	22,179	0.00	1
ORDOVICIAN	34,548,415	0.75	123
RATCLIFFE	243,826	0.01	4
RED RIVER	117,006,096	2.53	769
RED RIVER B	179,587,342	3.89	560
RED RIVER C	11,829	0.00	1
SANISH	82,078,743	1.78	300
SILURIAN	65,883,458	1.43	223
SOURIS RIVER	59,338	0.00	3
SPEARFISH	4,557,080	0.10	132
SPEARFISH/CHARLES	52,045,051	1.13	238
SPEARFISH/MADISON	5,462,637	0.12	116
STONEWALL	16,815,670	0.36	130
STONY MOUNTAIN	5,668	0.00	1
THREE FORKS	2,604	0.00	4
TYLER	16,331,506	0.35	88
TYLER A	3,132,311	0.07	7
WINNIPEG	150,164	0.00	4
WINNIPEG/DEADWOOD	47,234	0.00	6
WINNIPEGOSIS	10,284,602	0.22	56
TOTALS	4,616,619,414	100	23,266