EPA REGION 8 ACCIDENTAL RELEASE INFORMATION:
2006 - 2018

NRC BACKGROUND :: Primary function of the NRC is to serve as the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment.

In addition to gathering and distributing spill data for OSCs and serving as the communications and operations center for the NRT, the NRC maintains agreements with a variety of entities to make notifications regarding incidents meeting established trigger criteria.

The NRC also takes Terrorist/Suspicious Activity Reports and Maritime Security Breach Reports.

On behalf of DHS and the USCG, the NRC:

- Briefs the White House, Office of Homeland Security, Secretary of Transportation, and Chiefs of Modal Administrations regarding all significant transportation emergencies;
- Provides information the Coast Guard's Office of Marine Safety, Security, and Environmental Protection as needed;
- Receives and relays reports of incidents reportable under the Hazardous Materials Transportation Act;
- Provides incident reports to various DOT agencies;
- and provides notification to DOT and NTSB offices of transportation incidents that meet certain criteria.
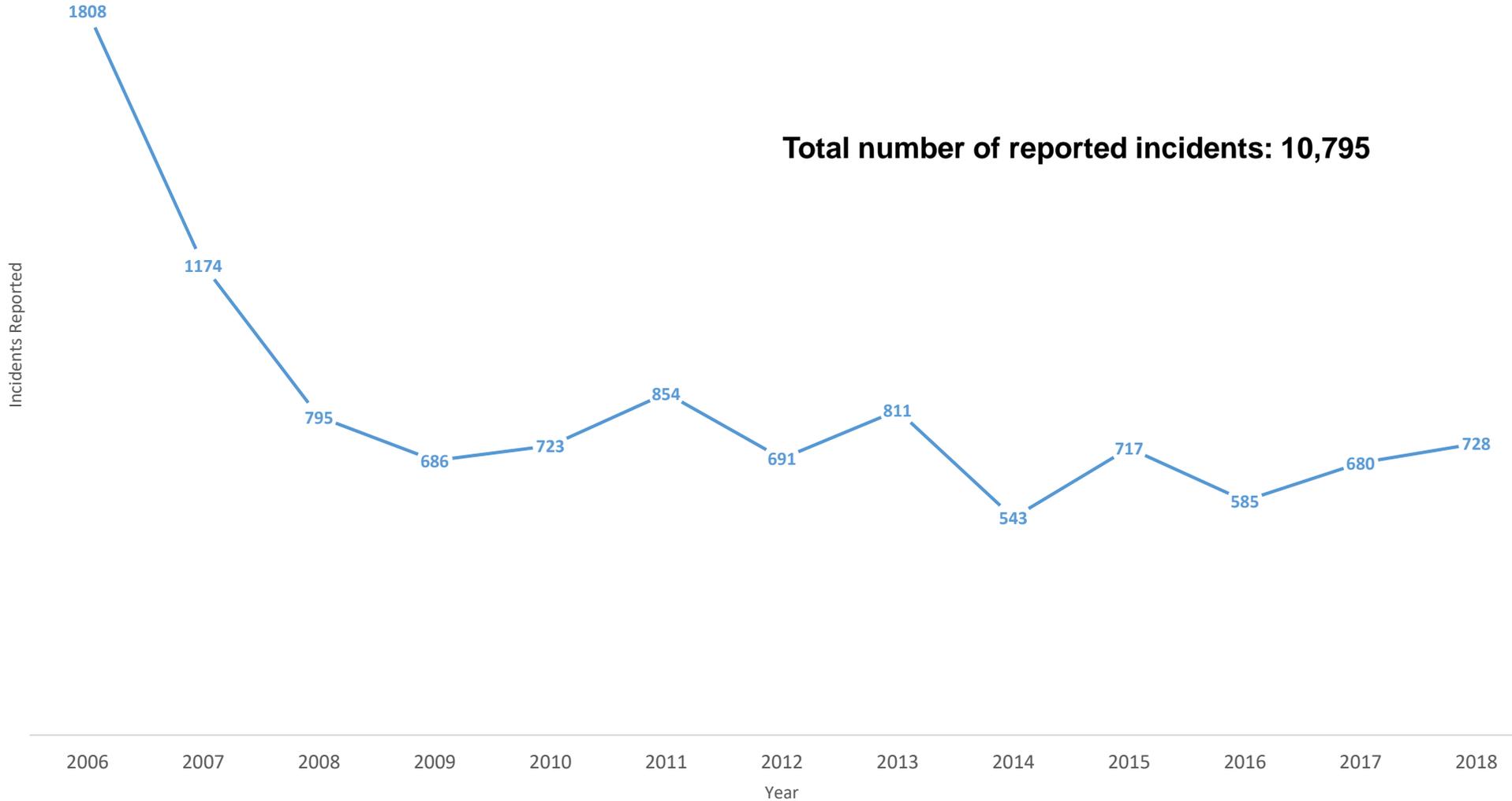
On behalf of other Agencies, the NRC provides services to enhance the Federal Response System:
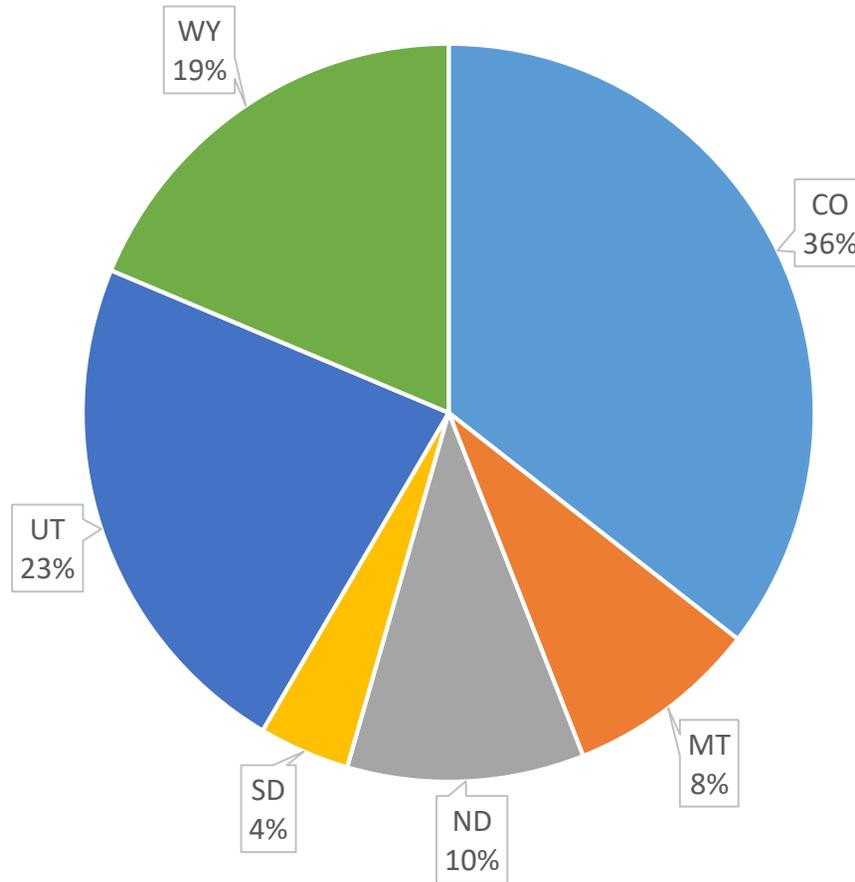

National Response Center
1-800-424-8802

- For the EPA, the NRC receives incident reports under the FRS which is supported under CERCLA, CWA, CAA, EPCRA, and OPA. The NRC disseminates reports of oil discharges and chemical releases to the FOSC;
- For FEMA, the NRC acts as a 24 hour contact point to receive earthquake, flood, hurricane, and evacuation reports;
- For the NucRC, and DOE, the NRC makes notification of all incidents involving radioactive material releases;
- For DOI, the NRC receives reports of incidents involving Trans-Alaskan Pipeline Oil;
- For DOD, incidents involving transportation emergencies with DOD munitions or explosives are referred to the Army Operations Center. Any incident involving hypergolic rocket fuels and oxidizers are passed to the Air Force Operations Center.
- The NRC takes reports on potential or actual domestic terrorism and coordinates notifications and response with the FBI;
- For the DHHS, releases of etiological and biological agents are referred to the CDC;
- For the FRA, the NRC takes reports of railroad incidents involving hazardous materials, grade crossing fatalities, and accidents resulting in injury or death of railroad employees.
- The NRC is contact point for activation of the NRT and provides facilities for the NRT to use in coordinating a national response action when required.

TOTAL INCIDENTS REPORTED
EPA REGION 8

Total number of reported incidents: 10,795

Incidents Reported

1808	
1174	
795	
686	
723	
854	
691	
811	
543	
717	
585	
680	
728	

2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

Year

WY
19%

CO
36%

UT
23%

SD
4%

ND
10%

MT
8%

Reflects all reports to National Response Center
over period (2006-2018)

NRC Notifications to EPA Region 8 -- by State and Year (2006-2018)
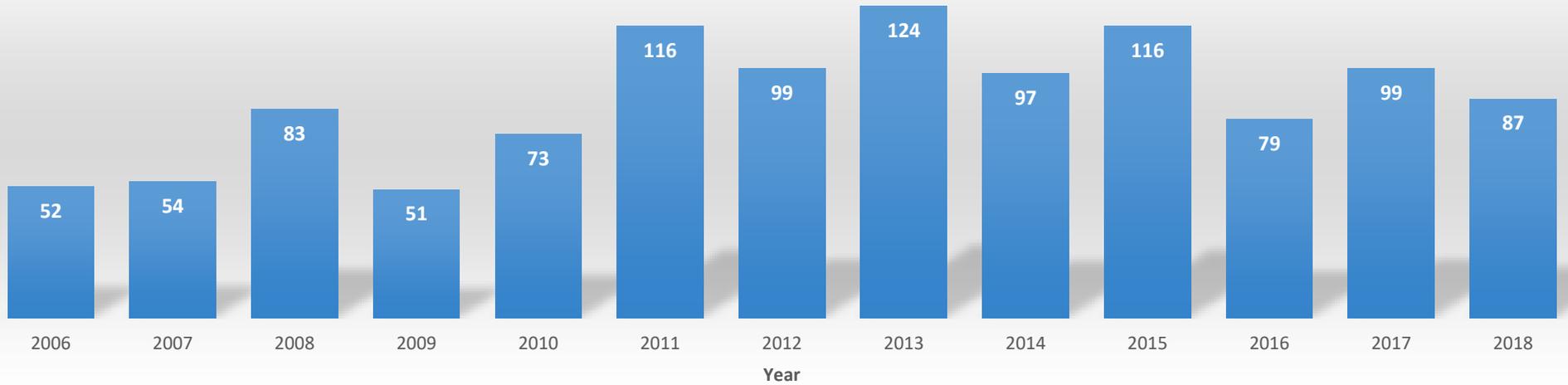
Colorado Total Incidents Reported

Year	Incidents Reported
2006	374
2007	351
2008	325
2009	255
2010	282
2011	338
2012	280
2013	346
2014	214
2015	289
2016	230
2017	270
2018	279
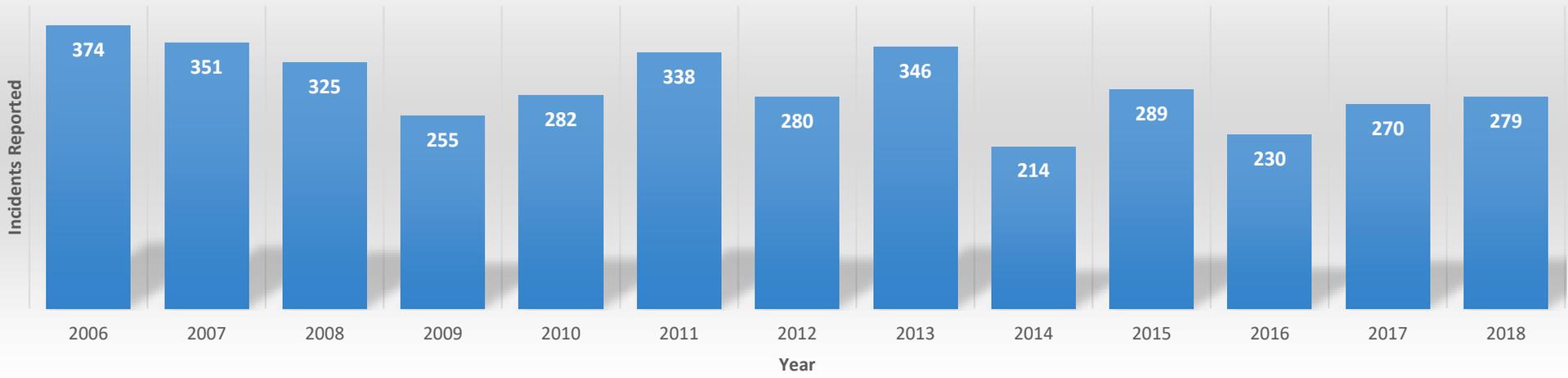
Montana Total Incidents Reported

Year	Incidents Reported
2006	118
2007	70
2008	60
2009	77
2010	60
2011	88
2012	60
2013	60
2014	52
2015	57
2016	62
2017	67
2018	87

NRC Notifications to EPA Region 8 -- by State and Year (2006-2018)

North Dakota Total Incidents Reported

Year	Incidents Reported
2006	52
2007	54
2008	83
2009	51
2010	73
2011	116
2012	99
2013	124
2014	97
2015	116
2016	79
2017	99
2018	87

South Dakota Total Incidents Reported

Year	Incidents Reported
2006	30
2007	38
2008	48
2009	32
2010	34
2011	36
2012	33
2013	43
2014	19
2015	35
2016	22
2017	34
2018	29

Utah Total Incidents Reported

Year	Incidents Reported
2006	764
2007	432
2008	106
2009	120
2010	120
2011	126
2012	104
2013	127
2014	87
2015	123
2016	97
2017	112
2018	145
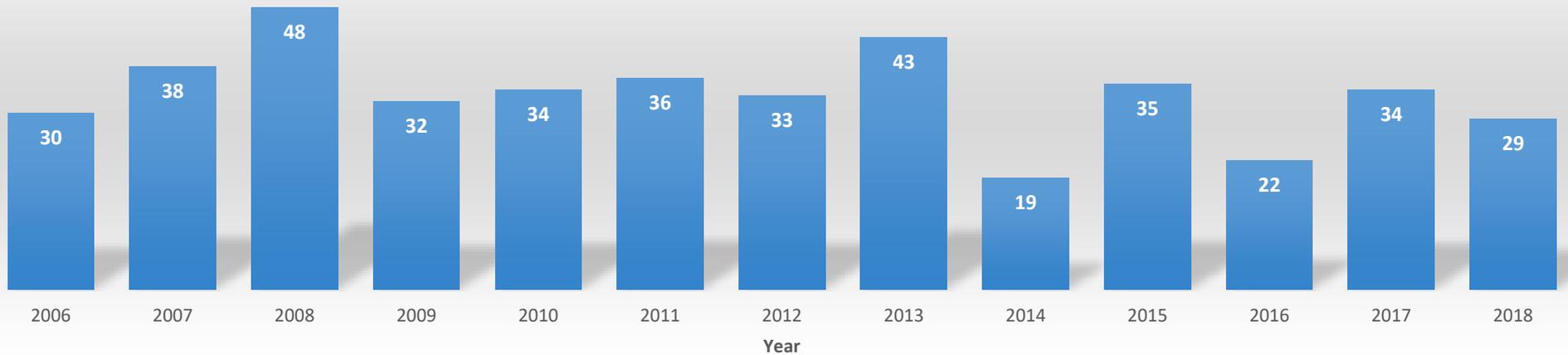
Wyoming Total Incidents Reported

Year	Incidents Reported
2006	470
2007	229
2008	173
2009	151
2010	154
2011	150
2012	115
2013	111
2014	74
2015	97
2016	95
2017	98
2018	101

Region 8 Incidents by Material Type
2006-2018

HazMat
29%

Other
35%

Oil
36%
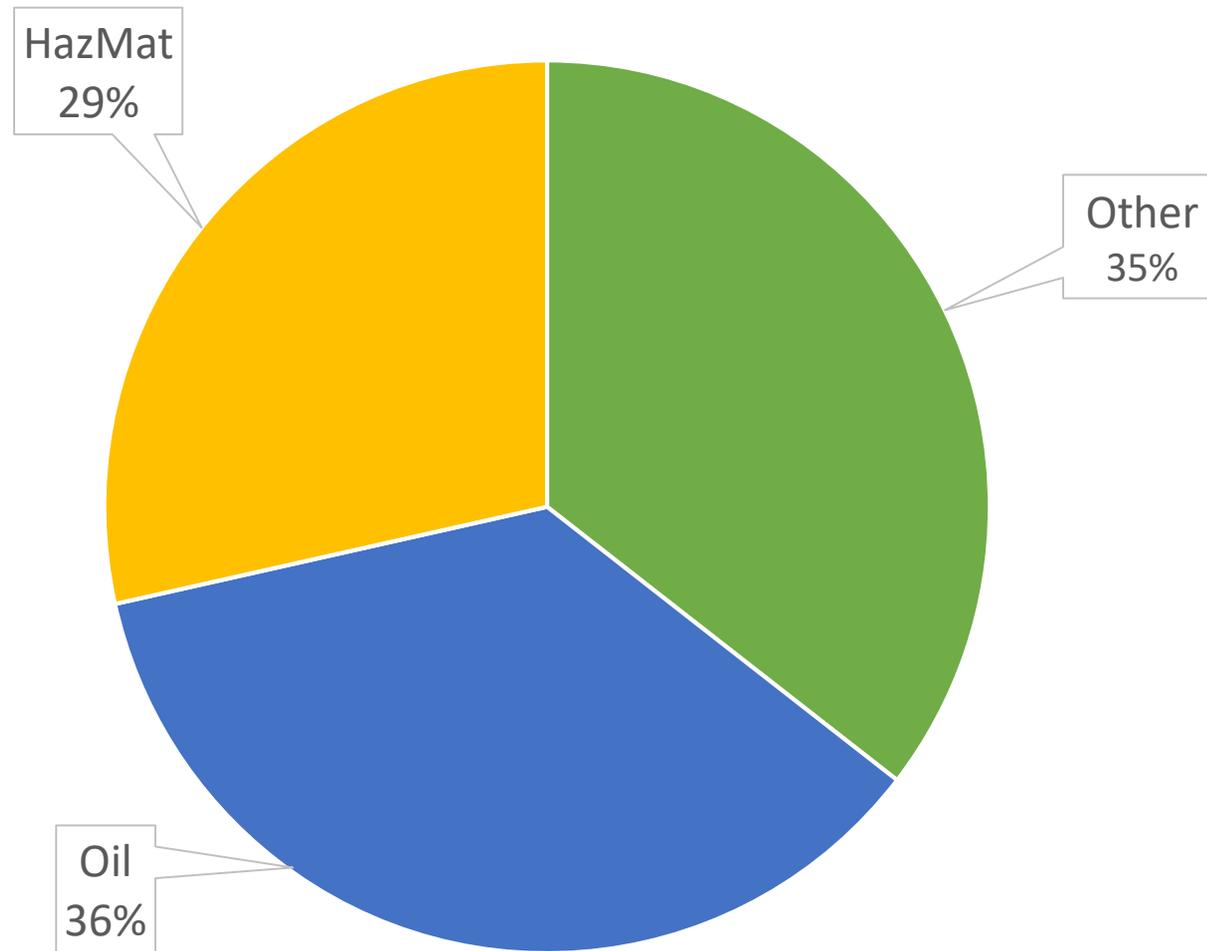
NRC Notifications to EPA Region 8 -- by Material Type & State (2006-2018)

COLORADO

Other Oil HazMat

INCIDENTS REPORTED

YEAR	Other	Oil	HazMat
2006	140	186	114
2007	124	227	50
2008	106	200	56
2009	65	158	51
2010	62	161	61
2011	66	233	45
2012	51	203	47
2013	60	246	58
2014	44	143	59
2015	61	169	60
2016	32	151	45
2017	54	163	53
2018	72	168	38
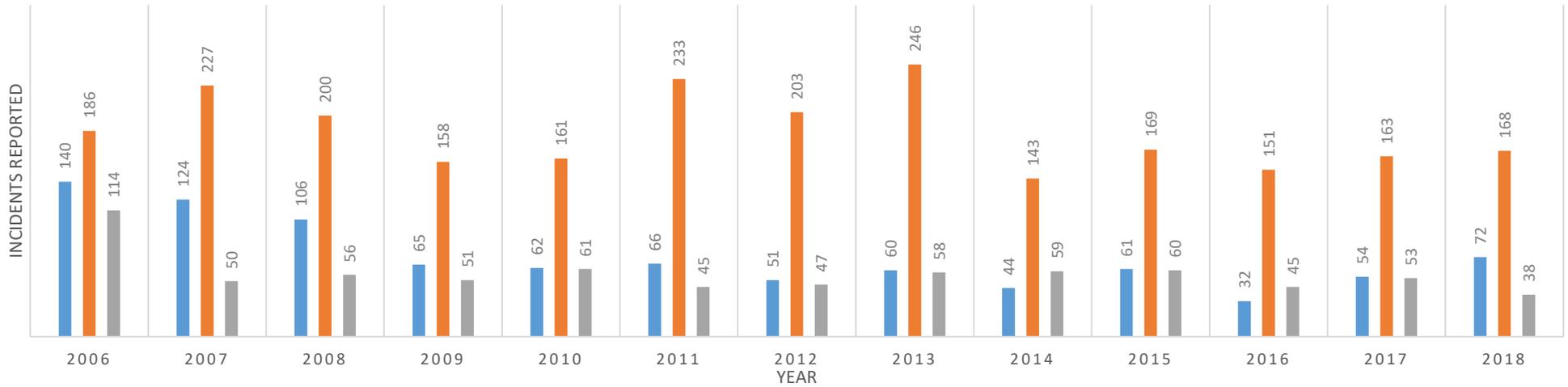
MONTANA

Other Oil HazMat

INCIDENTS REPORTED

YEAR	Other	Oil	HazMat
2006	54	46	15
2007	17	42	16
2008	11	27	7
2009	14	48	12
2010	10	29	5
2011	15	45	19
2012	29	34	20
2013	11	37	11
2014	11	29	10
2015	12	34	9
2016	7	30	18
2017	14	35	6
2018	35	35	17
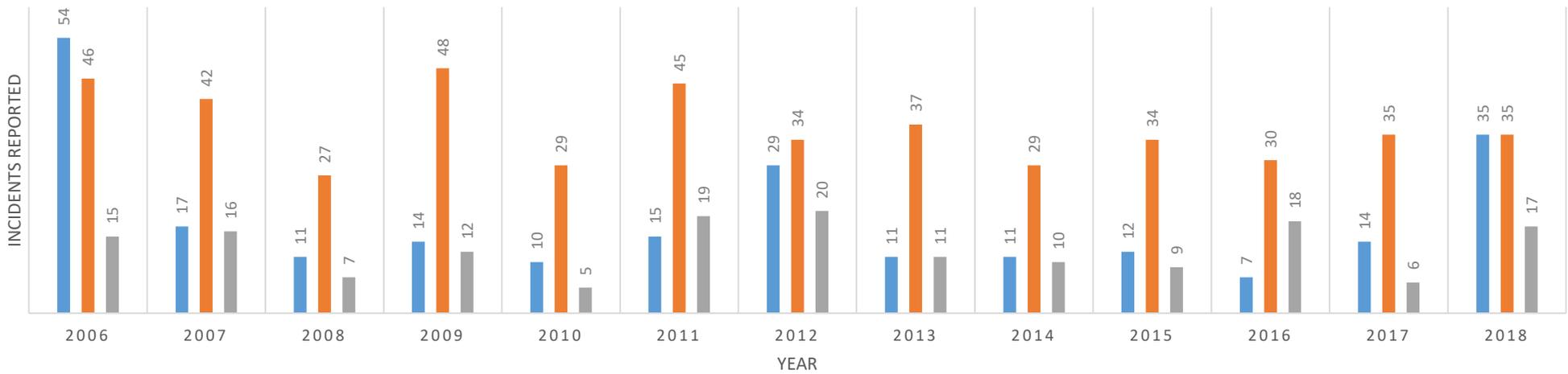
NRC Notifications to EPA Region 8 -- by Material Type & State (2006-2018)

NORTH DAKOTA

Legend: ■ Other ■ Oil ■ HazMat

INCIDENTS REPORTED vs YEAR

Year	Other	Oil	HazMat
2006	16	13	14
2007	15	19	14
2008	21	25	25
2009	7	23	7
2010	16	36	35
2011	30	72	24
2012	19	55	21
2013	31	58	44
2014	25	54	15
2015	28	62	33
2016	14	43	17
2017	23	41	20
2018	21	50	16

SOUTH DAKOTA

Legend: ■ Other ■ Oil ■ HazMat

INCIDENTS REPORTED vs YEAR

Year	Other	Oil	HazMat
2006	8	13	9
2007	14	10	11
2008	8	24	15
2009	6	18	5
2010	12	18	8
2011	11	17	7
2012	12	15	10
2013	17	11	13
2014	6	7	4
2015	12	15	11
2016	4	12	6
2017	3	19	12
2018	8	12	9

UTAH

Legend: ■ Other ■ Oil ■ HazMat

INCIDENTS REPORTED

2006 – Large number of NRC reports due to Aneth/Mcelmo gas field units reporting flare/process upset releases.
2008 – Reduction in NRC reports due to Aneth/Mcelmo gas field releases becoming permitted and exempted from CERCLA reporting.

Year	Other	Oil	HazMat
2006	1230	55	1251
2007	619	46	636
2008	28	54	32
2009	21	65	43
2010	30	66	29
2011	18	72	31
2012	28	45	21
2013	39	50	33
2014	18	39	67
2015	20	48	46
2016	11	47	38
2017	29	52	30
2018	54	59	30

YEAR

WYOMING

Legend: ■ Other ■ Oil ■ HazMat

INCIDENTS REPORTED

Year	Other	Oil	HazMat
2006	337	110	126
2007	139	98	36
2008	48	55	67
2009	53	76	42
2010	56	72	40
2011	35	87	36
2012	18	79	21
2013	32	40	12
2014	18	56	10
2015	18	54	26
2016	11	52	32
2017	20	40	36
2018	20	53	28

YEAR

NRC Notifications to EPA Region 8 -- Significant Results Attributed to Release (2006-2018)

	Colorado	Montana	North Dakota	South Dakota	Utah	Wyoming	Region Totals
Incidents:	3833	918	1130	433	2463	2018	10,795
Reported fatalities:	275	104	65	26	111	51	632
Reported hospitalizations:	509	56	82	35	146	85	913
Reported injuries:	615	74	115	39	161	105	1,109
Number of people evacuated:	8253	167	1375	201	3542	714	14,252
Reported property damage:	$ 11,788,847	$ 10,173,491	$ 9,112,128	$ 4,226,533	$ 13,452,800	$ 7,784,135	$ 56,537,934

Incident Causes Region-wide Region 8 (2006-2018)

Accident Causes
EPA Region 8
2006-2018
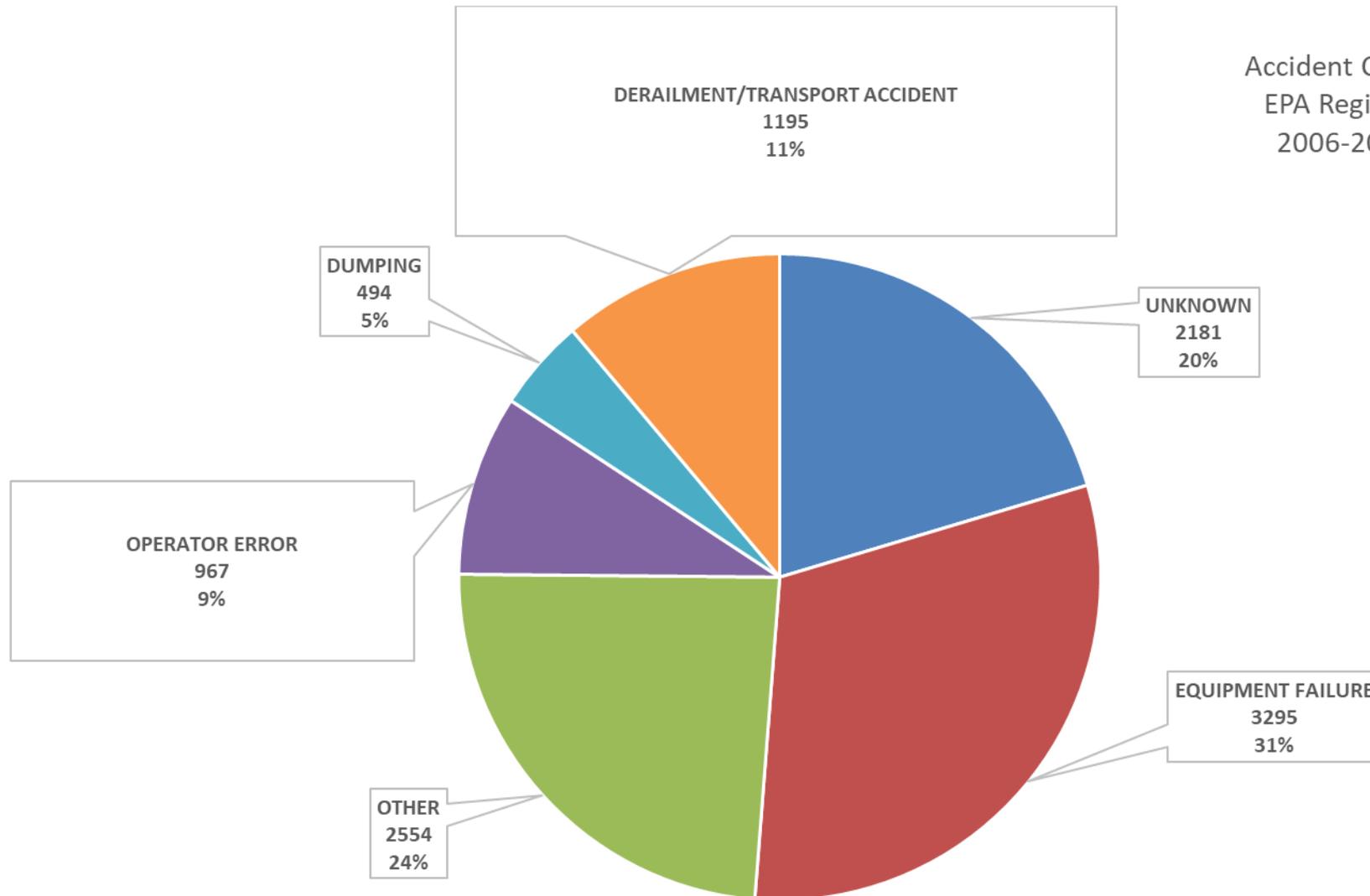
DERAILMENT/TRANSPORT ACCIDENT
1195
11%

DUMPING
494
5%

UNKNOWN
2181
20%

OPERATOR ERROR
967
9%

EQUIPMENT FAILURE
3295
31%

OTHER
2554
24%

Reflects all reports to National Response Center over period (2006-2018)

Accident Causes
Colorado
2006-2018

DERAILMENT/TRANSPORT ACCIDENT
555
15%

DUMPING
244
6%

OPERATOR ERROR
472
12%

UNKNOWN
849
22%

EQUIPMENT FAILURE
660
17%

OTHER
1044
27%
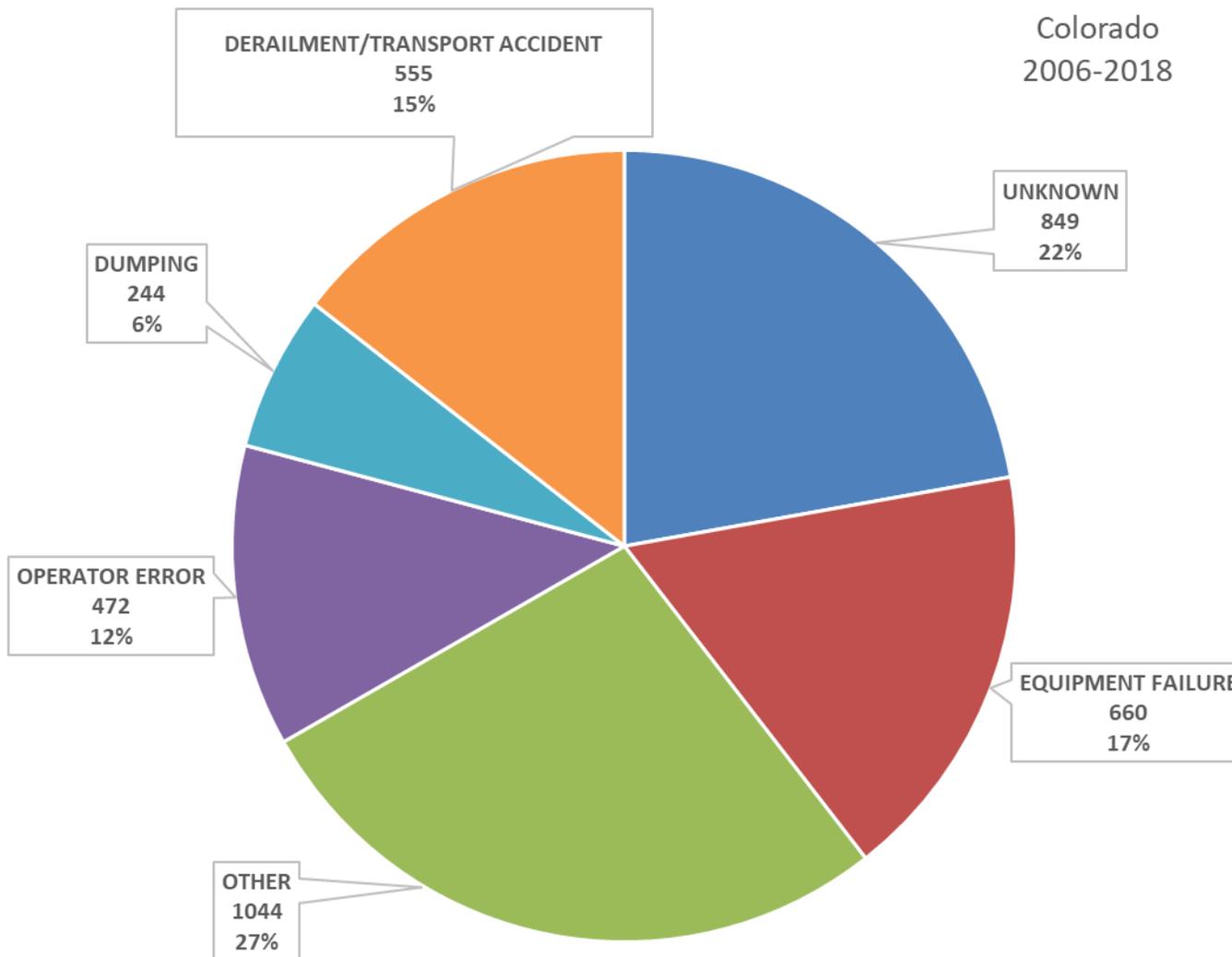
Montana Incident Causes (2006-2018)

Accident Causes
Montana
2006-2018
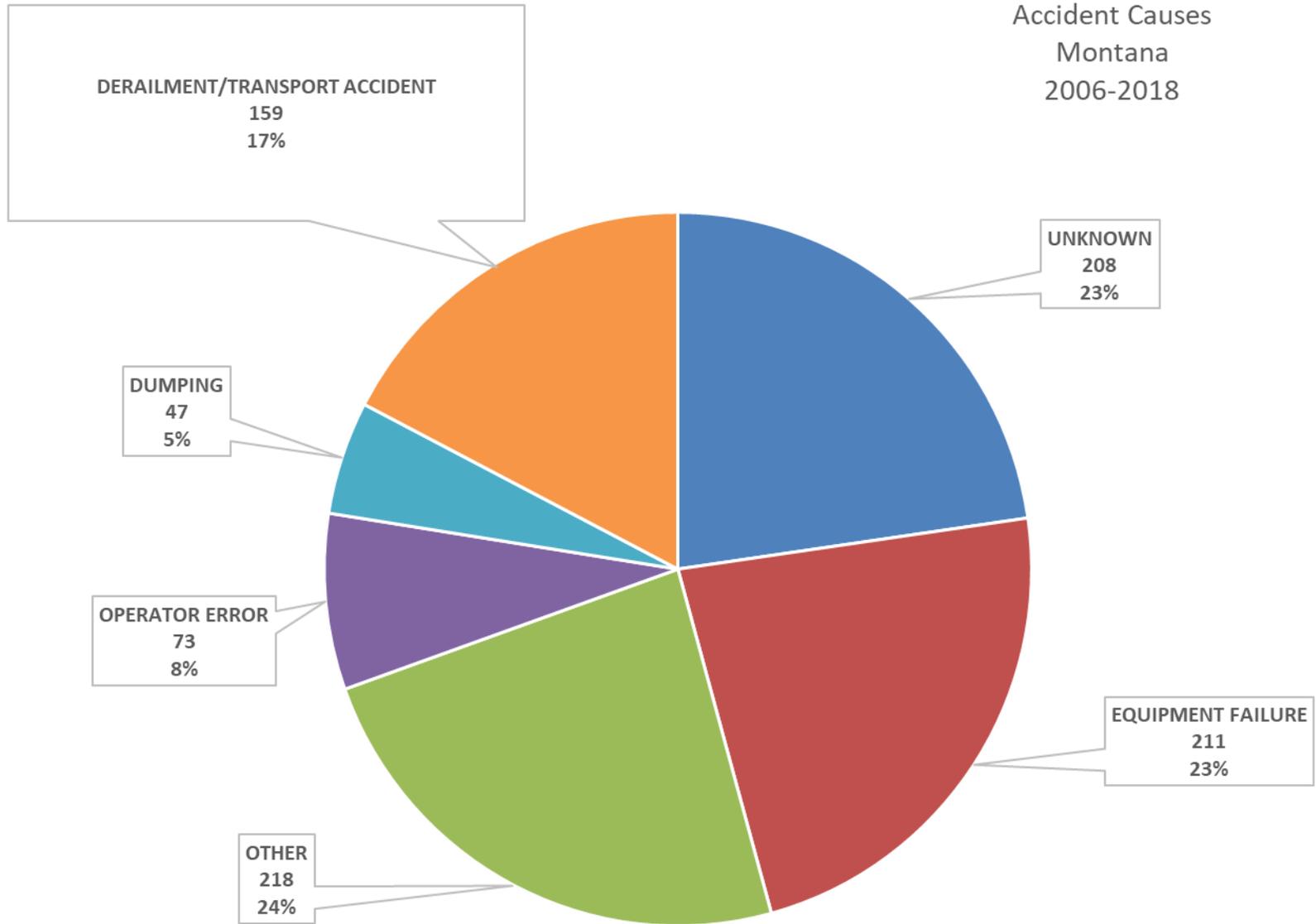
DERAILMENT/TRANSPORT ACCIDENT
159
17%

UNKNOWN
208
23%

DUMPING
47
5%

OPERATOR ERROR
73
8%

EQUIPMENT FAILURE
211
23%

OTHER
218
24%

Reflects all reports to National Response Center
over period (2006-2018)

DERAILMENT/TRANSPORT ACCIDENT
135
12%

Accident Causes
North Dakota
2006-2018
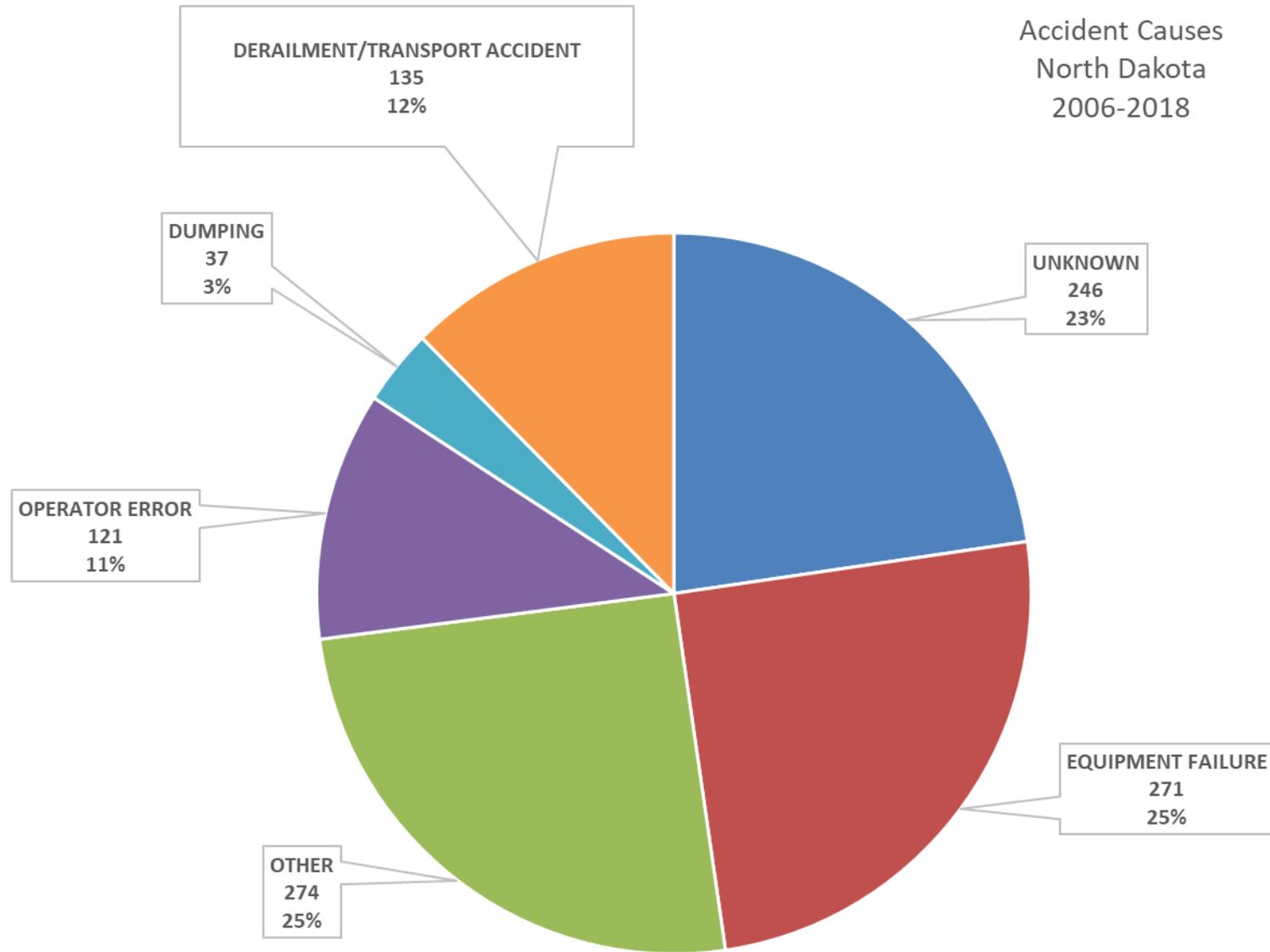
DUMPING
37
3%

UNKNOWN
246
23%

OPERATOR ERROR
121
11%

EQUIPMENT FAILURE
271
25%

OTHER
274
25%

Accident Causes
South Dakota
2006-2018

DERAILMENT/TRANSPORT ACCIDENT
61
14%

UNKNOWN
87
20%

DUMPING
25
6%

OPERATOR ERROR
51
12%

EQUIPMENT FAILURE
104
24%

OTHER
113
26%
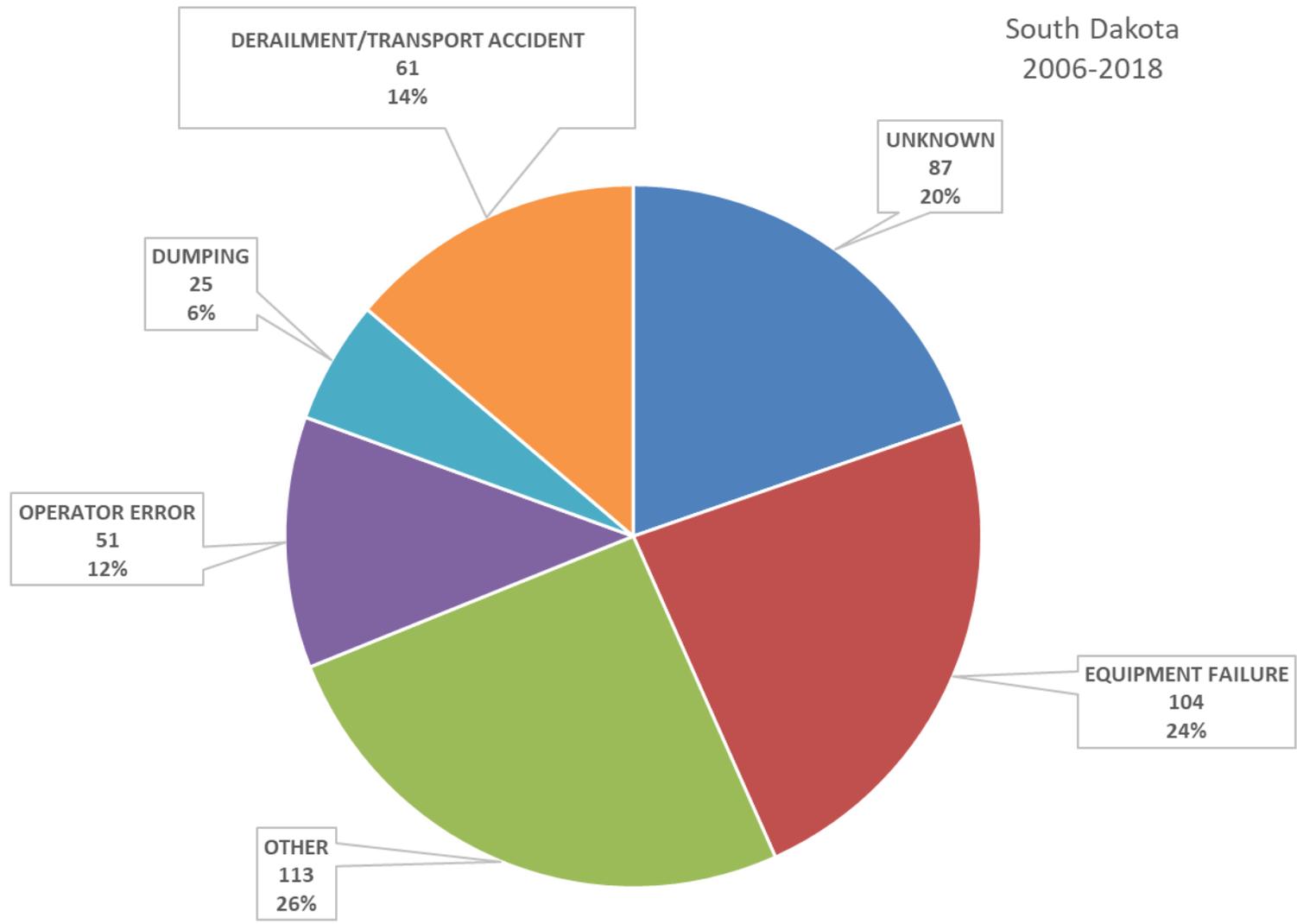
Reflects all reports to National Response Center
over period (2006-2018)

Utah Incident Causes (2006-2018)
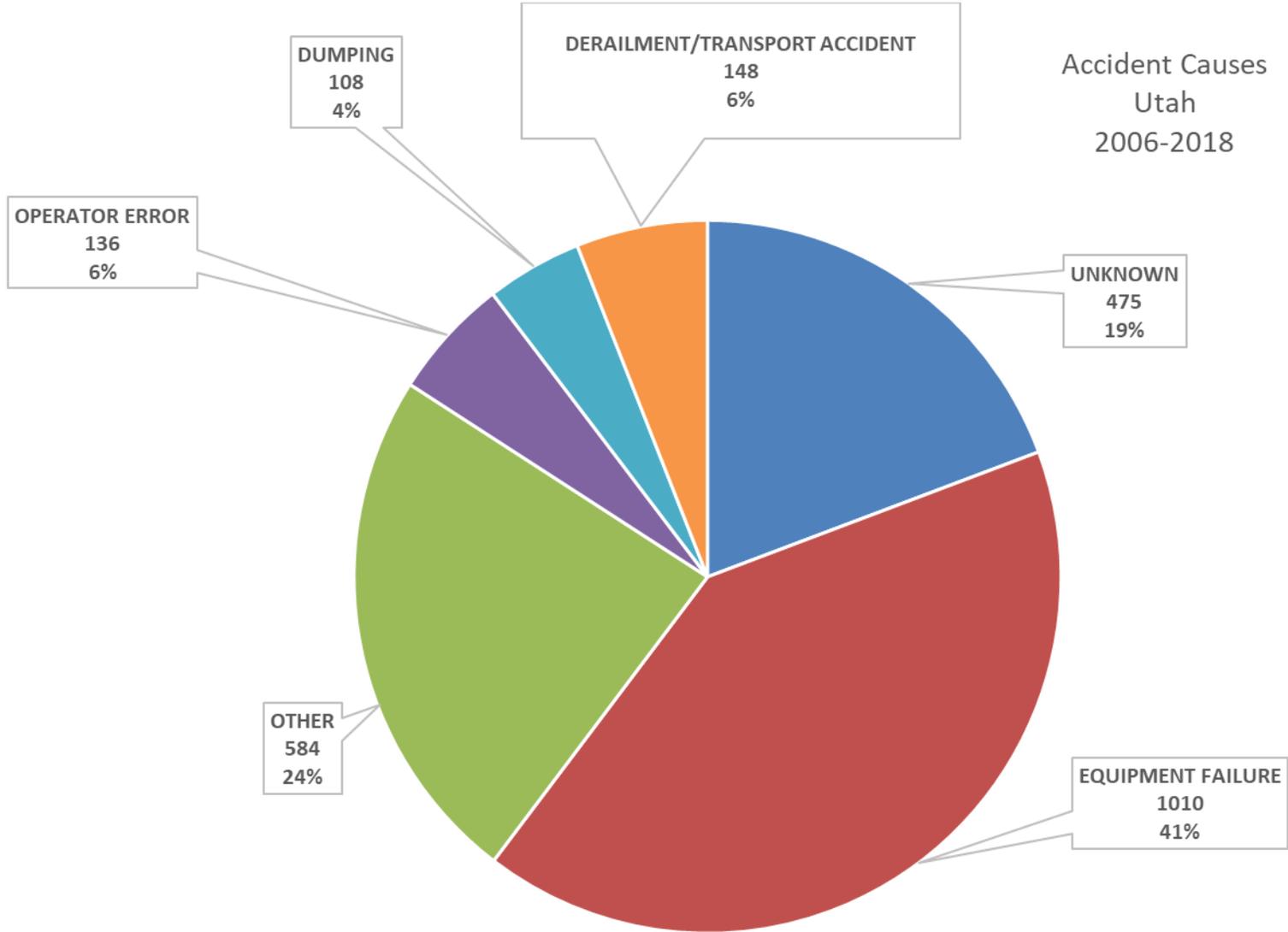
Accident Causes
Utah
2006-2018

DUMPING
108
4%

DERAILMENT/TRANSPORT ACCIDENT
148
6%

OPERATOR ERROR
136
6%

UNKNOWN
475
19%

OTHER
584
24%

EQUIPMENT FAILURE
1010
41%

Reflects all reports to National Response Center over period (2006-2018)

Accident Causes
Wyoming
2006-2018
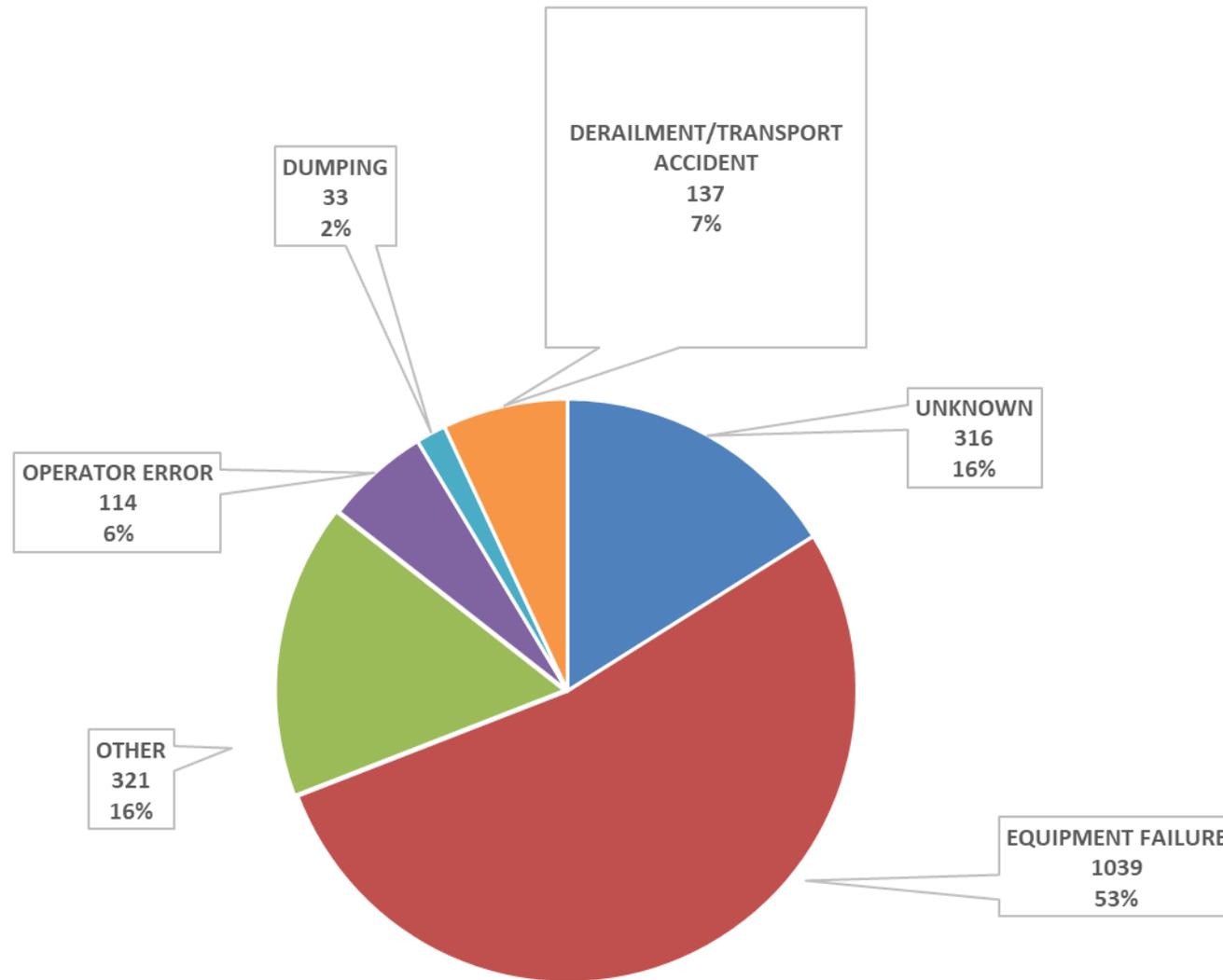
DUMPING
33
2%

DERAILMENT/TRANSPORT
ACCIDENT
137
7%

UNKNOWN
316
16%

OPERATOR ERROR
114
6%

EQUIPMENT FAILURE
1039
53%

OTHER
321
16%

Reflects all reports to National Response Center
over period (2006-2018)

EPA Region 8 - Incident Type (2006-2018)
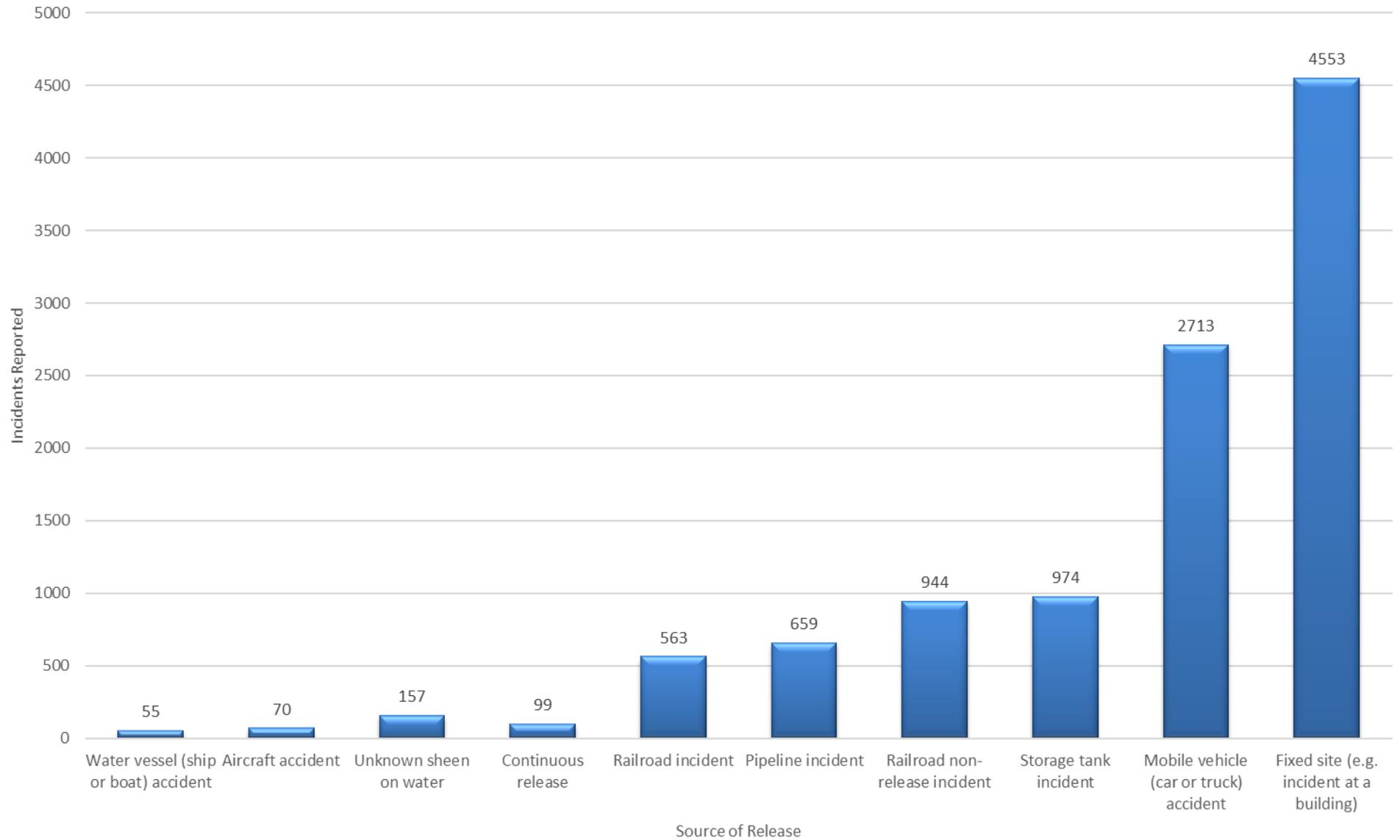
Top Ten Counties - Colorado
2006-2018

County	Incidents Reported
PUEBLO	117
MESA	120
LARIMER	146
ARAPAHOE	155
GARFIELD	196
JEFFERSON	213
EL PASO	216
DENVER	350
WELD	358
ADAMS	403
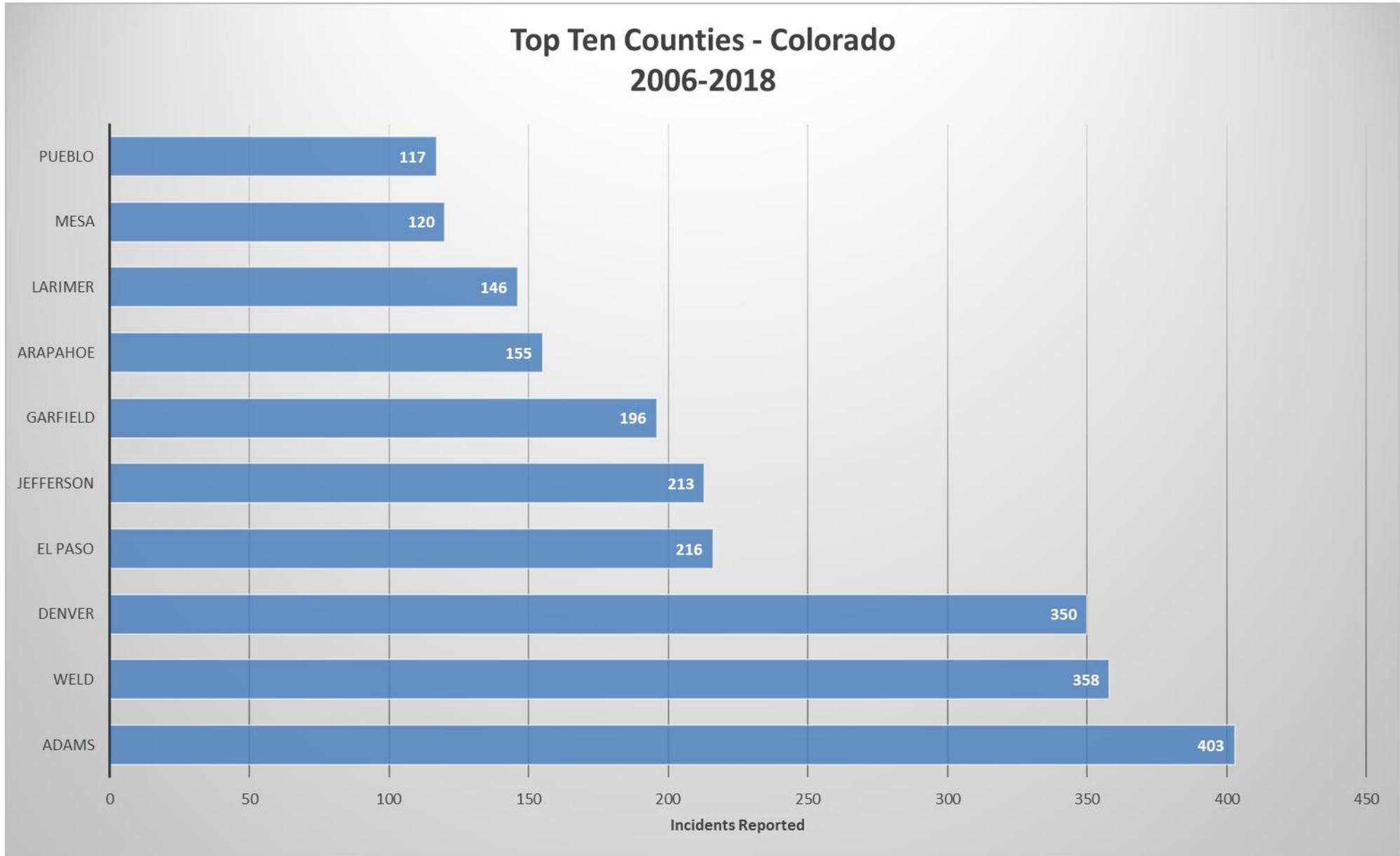
Top Ten Counties - Montana
2006-2018

County	Incidents Reported
GALLATIN	25
LEWIS AND CLARK	26
HILL	29
MISSOULA	31
ROOSEVELT	44
GLACIER	49
BIG HORN	52
FLATHEAD	56
CASCADE	57
YELLOWSTONE	198
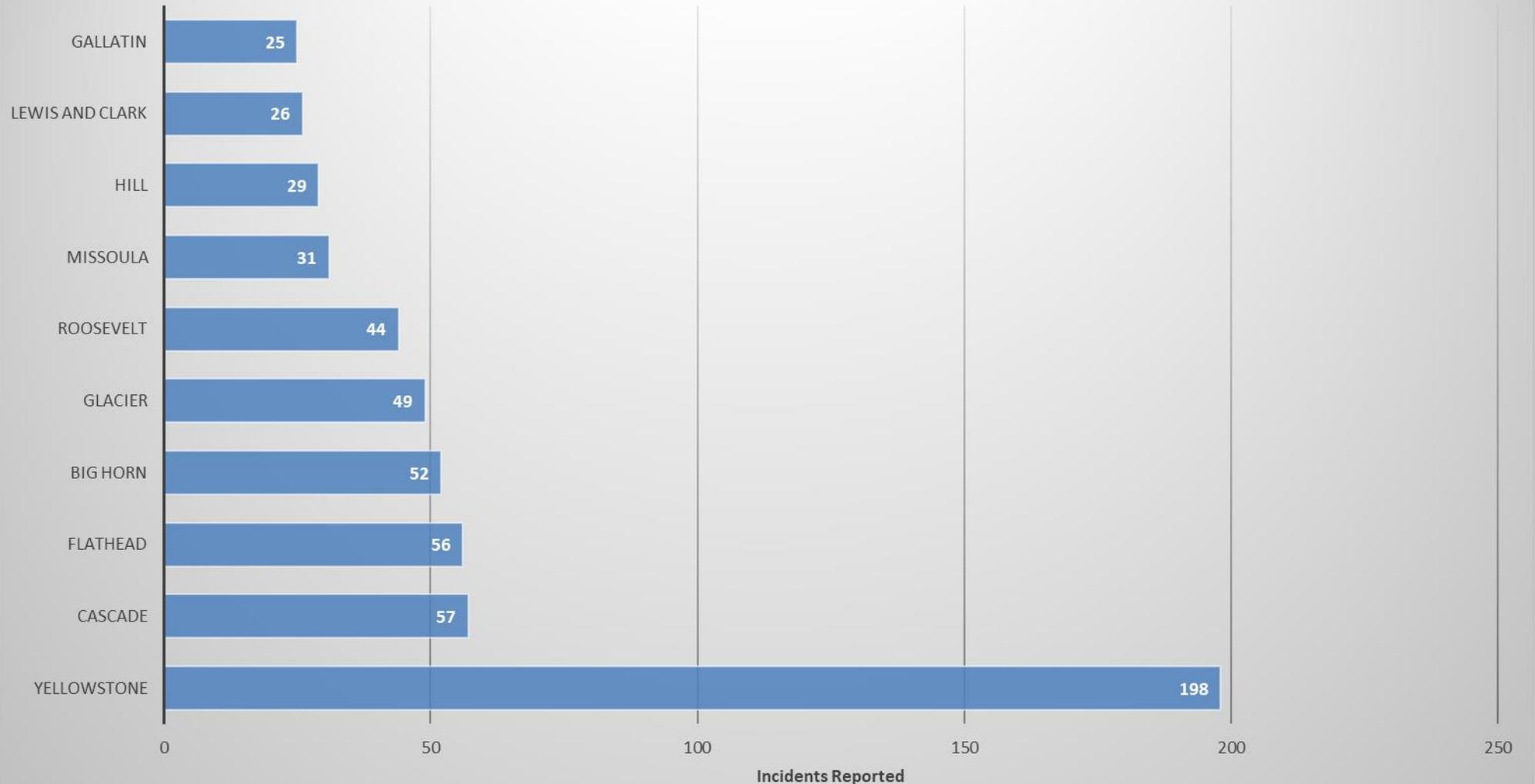
Top Ten Counties - North Dakota 2006-2018

County	Incidents Reported
STARK	33
DUNN	34
MORTON	44
GRAND FORKS	51
CASS	63
MERCER	64
MOUNTRAIL	87
WARD	92
MCKENZIE	131
WILLIAMS	159
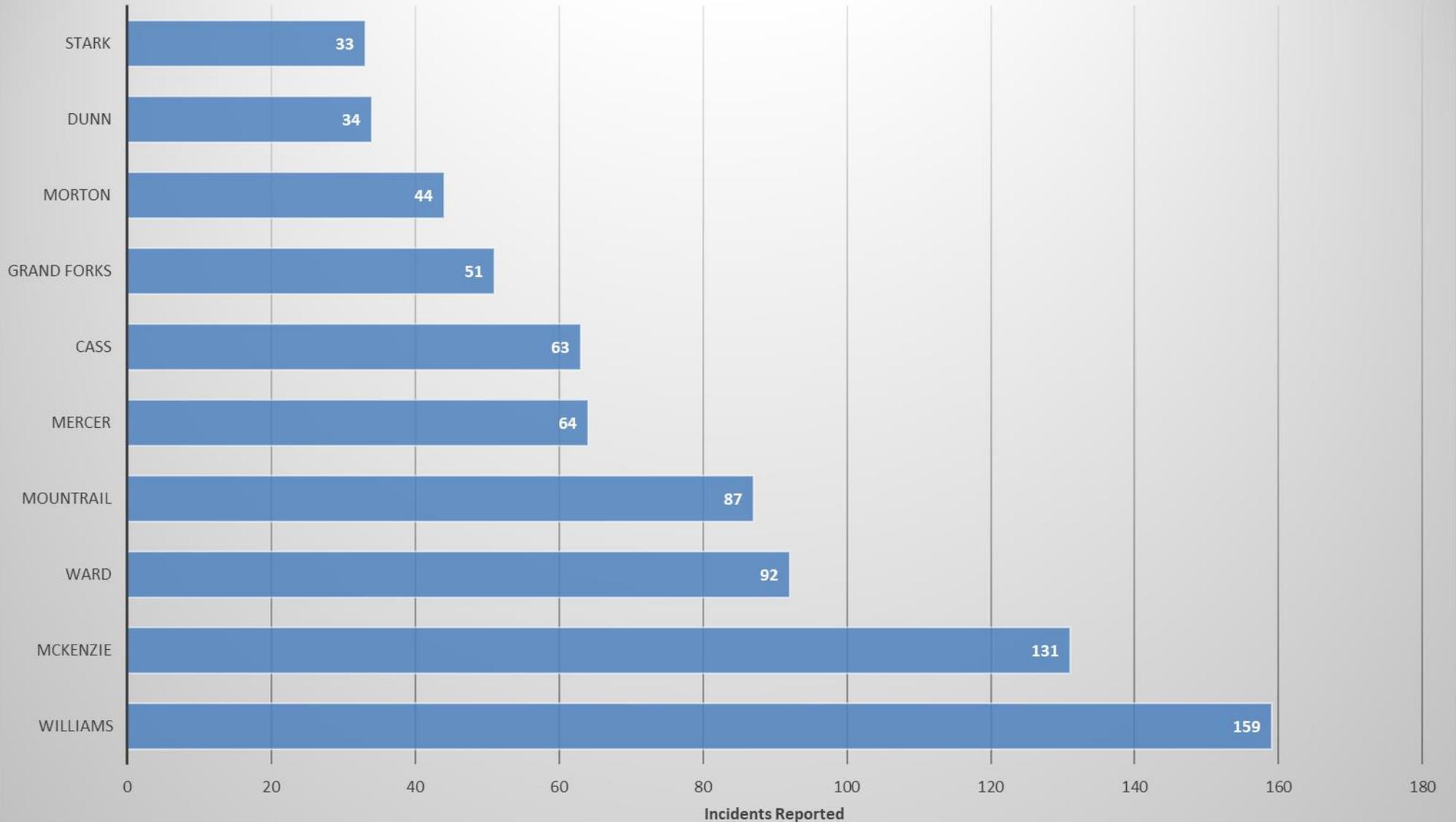
Top Ten Counties - South Dakota
2006-2018
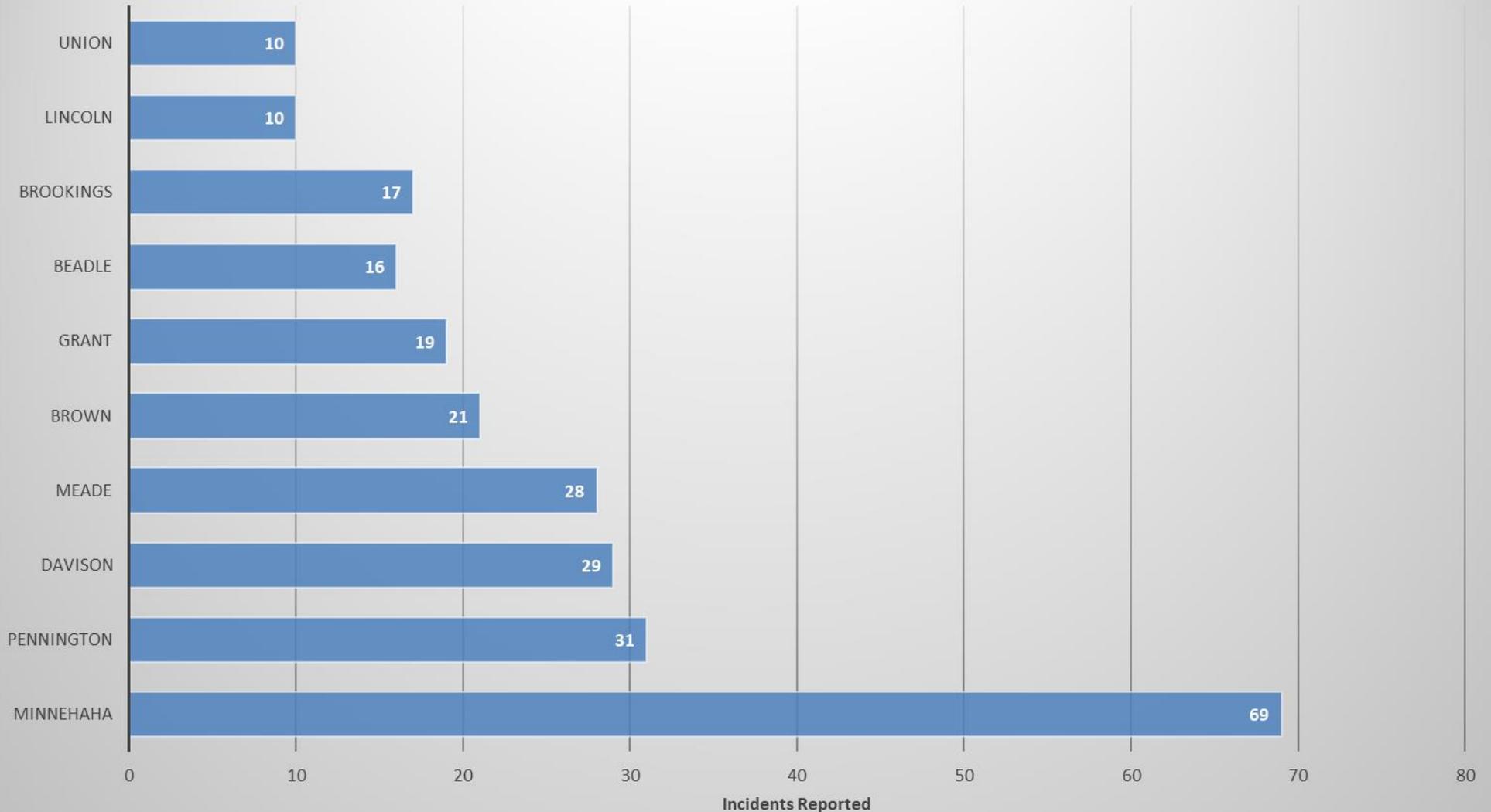
Top Ten Counties - Utah
2006-2018

An adjustment was made to San Juan County numbers. A continuous release permit was issued in 2008, therefore high levels for 2006 and 2007 were changed and an average value given based on 2008-2018 incident figures.

County	Incidents Reported
BOX ELDER	43
SAN JUAN	48
CACHE	54
DUCHESNE	54
UINTAH	60
TOOELE	80
WEBER	115
UTAH	138
DAVIS	157
SALT LAKE	516
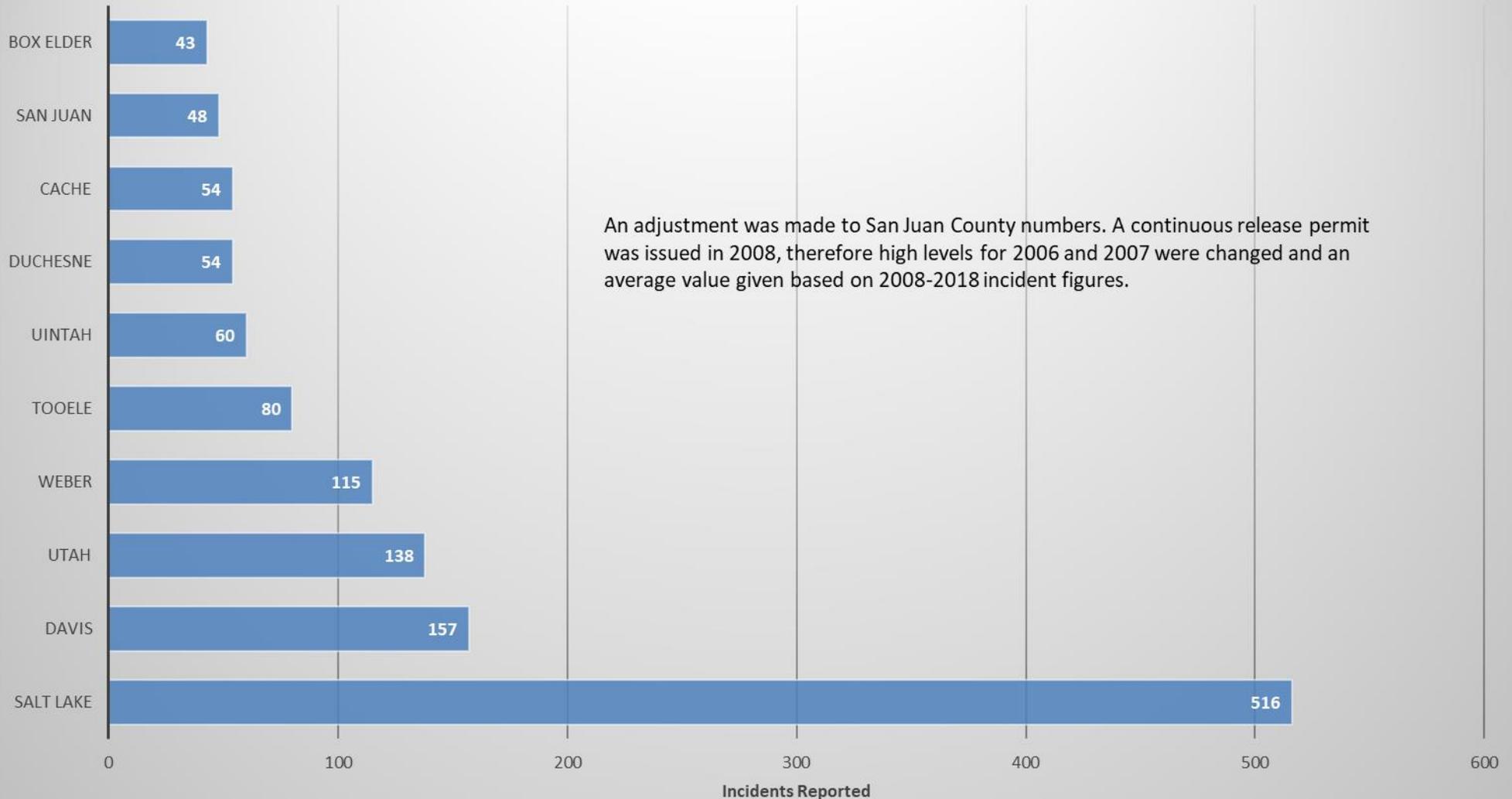
Top Ten Counties - Wyoming
2006-2018

County	Incidents Reported
SUBLETTE	63
UINTA	73
JOHNSON	74
FREMONT	85
CARBON	122
CAMPBELL	165
LARAMIE	186
SWEETWATER	212
LINCOLN	234
NATRONA	435
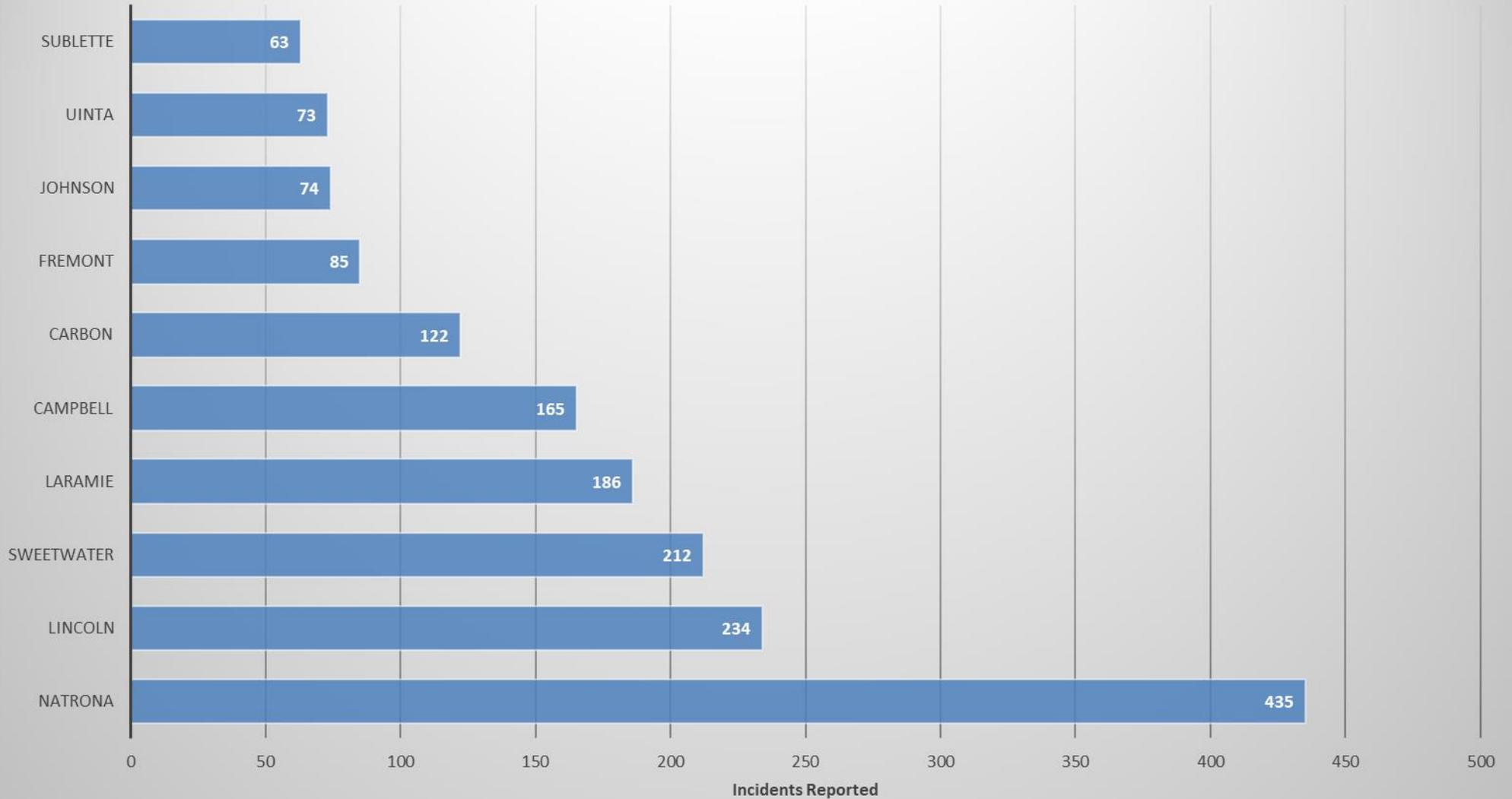
Colorado Spill Reports (2006-2018)

Legend:
- < 10 releases
- 10 – 25 releases
- 25 – 50 releases
- 50 – 100 releases
- > 100 releases
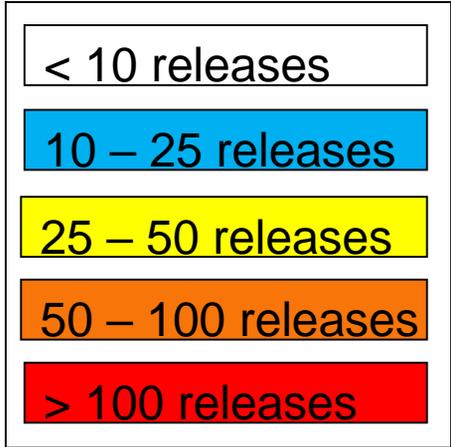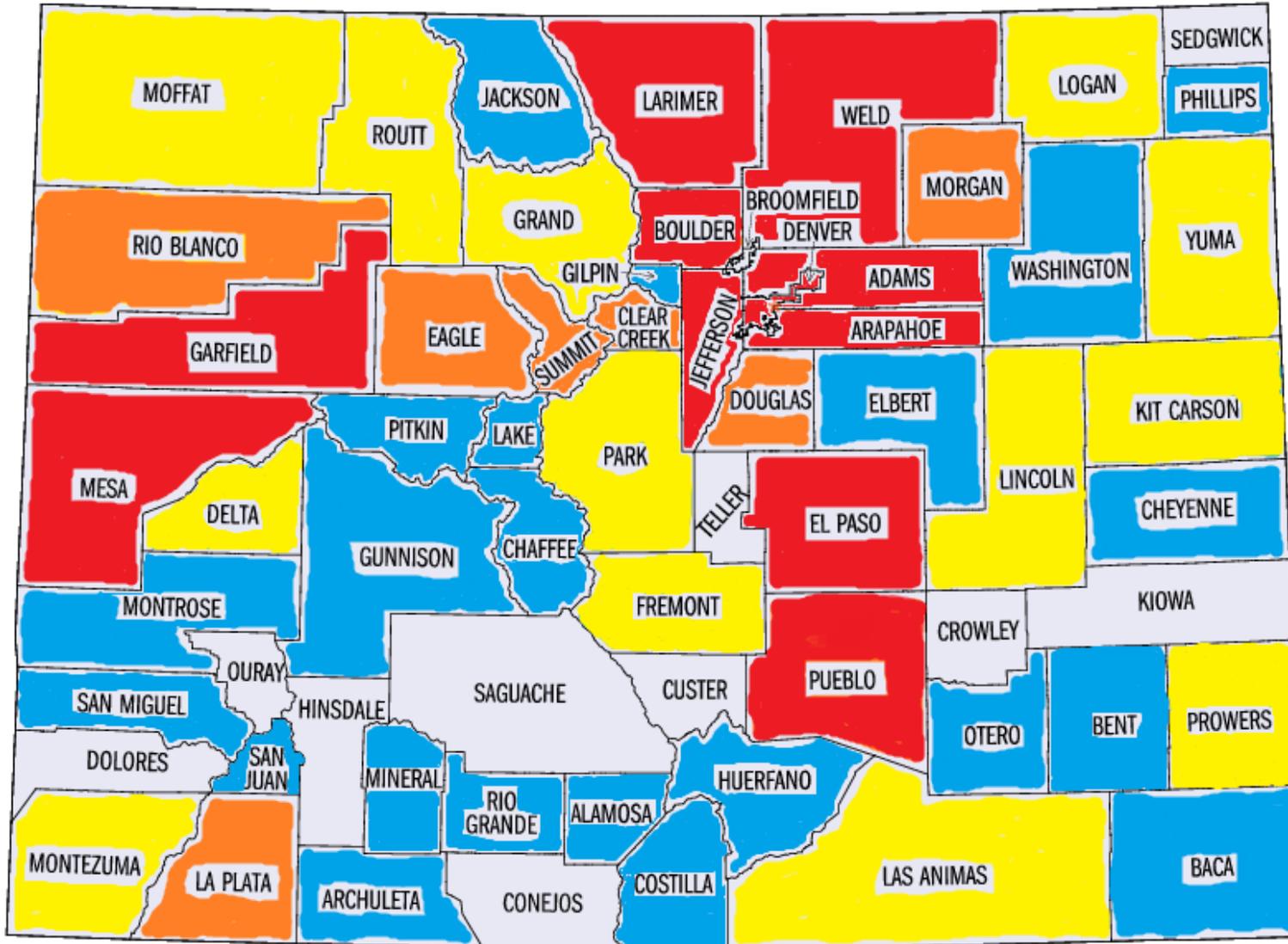
Montana Spill Reports (2006-2018)

Montana Counties

Legend:
- < 10 releases
- 10 – 25 releases
- 25 – 50 releases
- 50 – 100 releases
- > 100 releases

North Dakota Spill Reports (2006-2018)

Legend:
- < 10 releases
- 10 – 25 releases
- 25 – 50 releases
- 50 – 100 releases
- > 100 releases
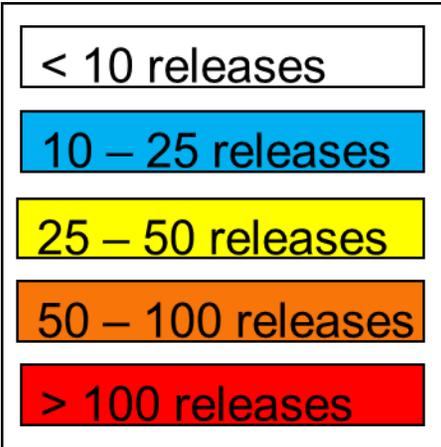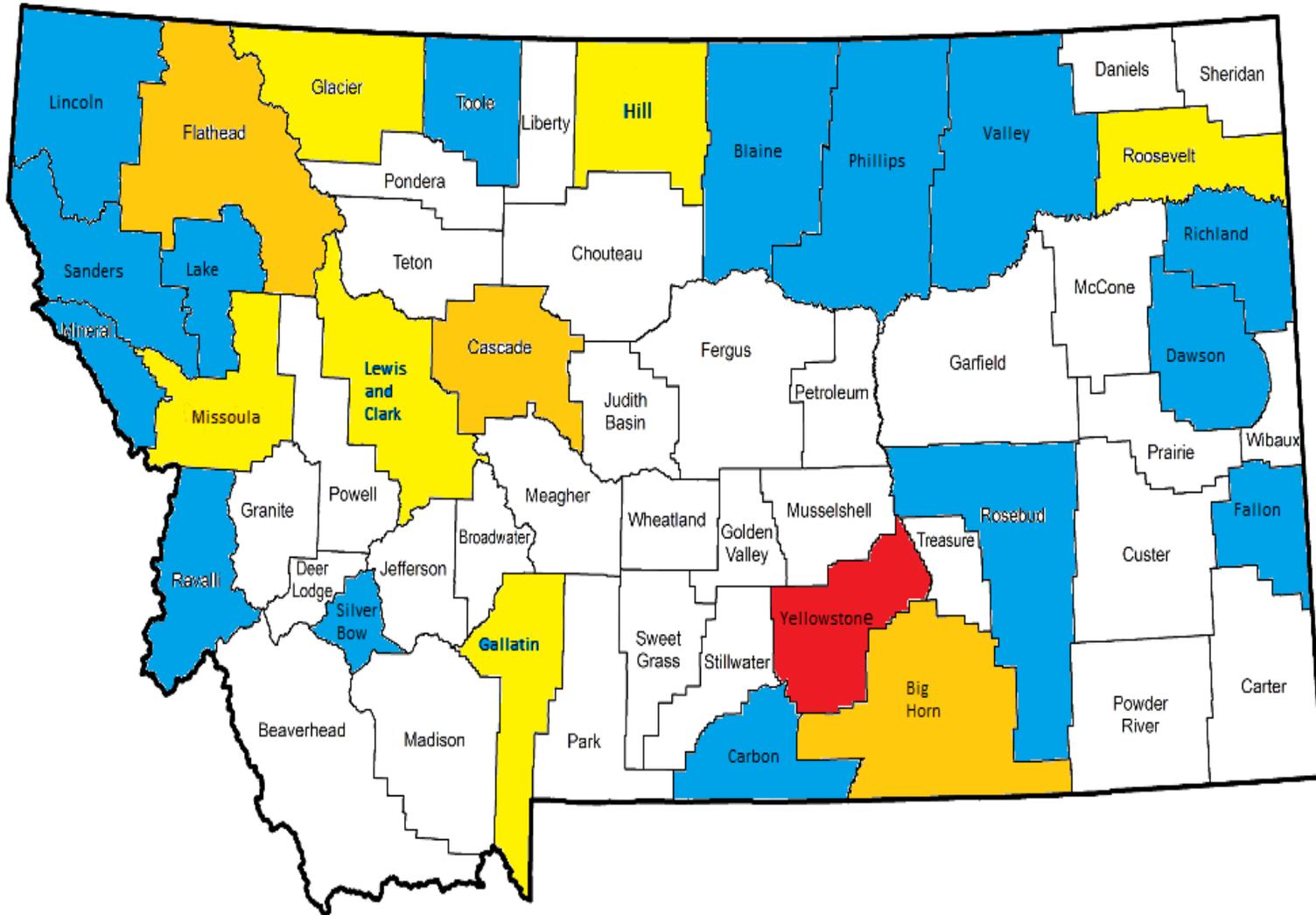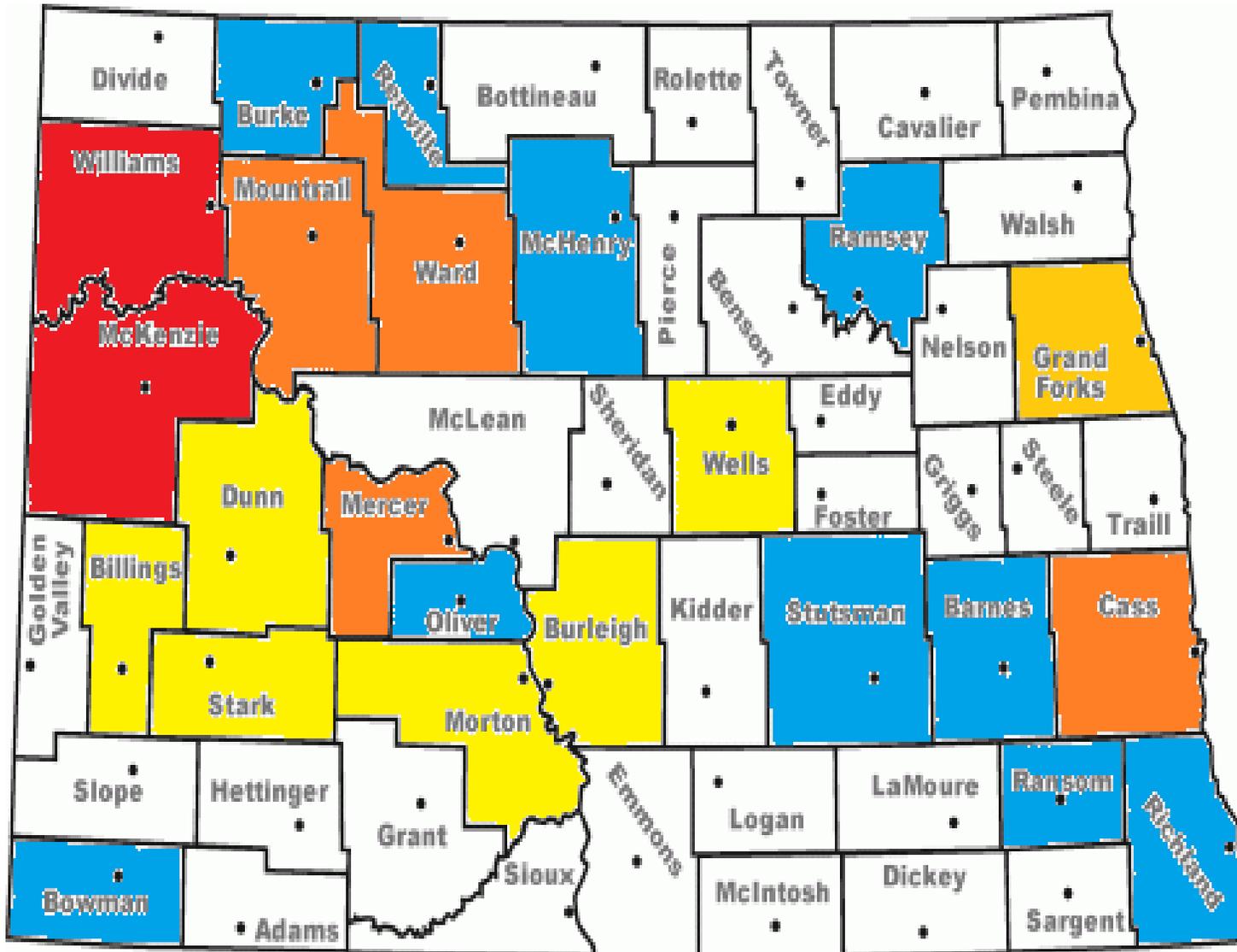
South Dakota Spill Reports (2006-2018)

Legend:
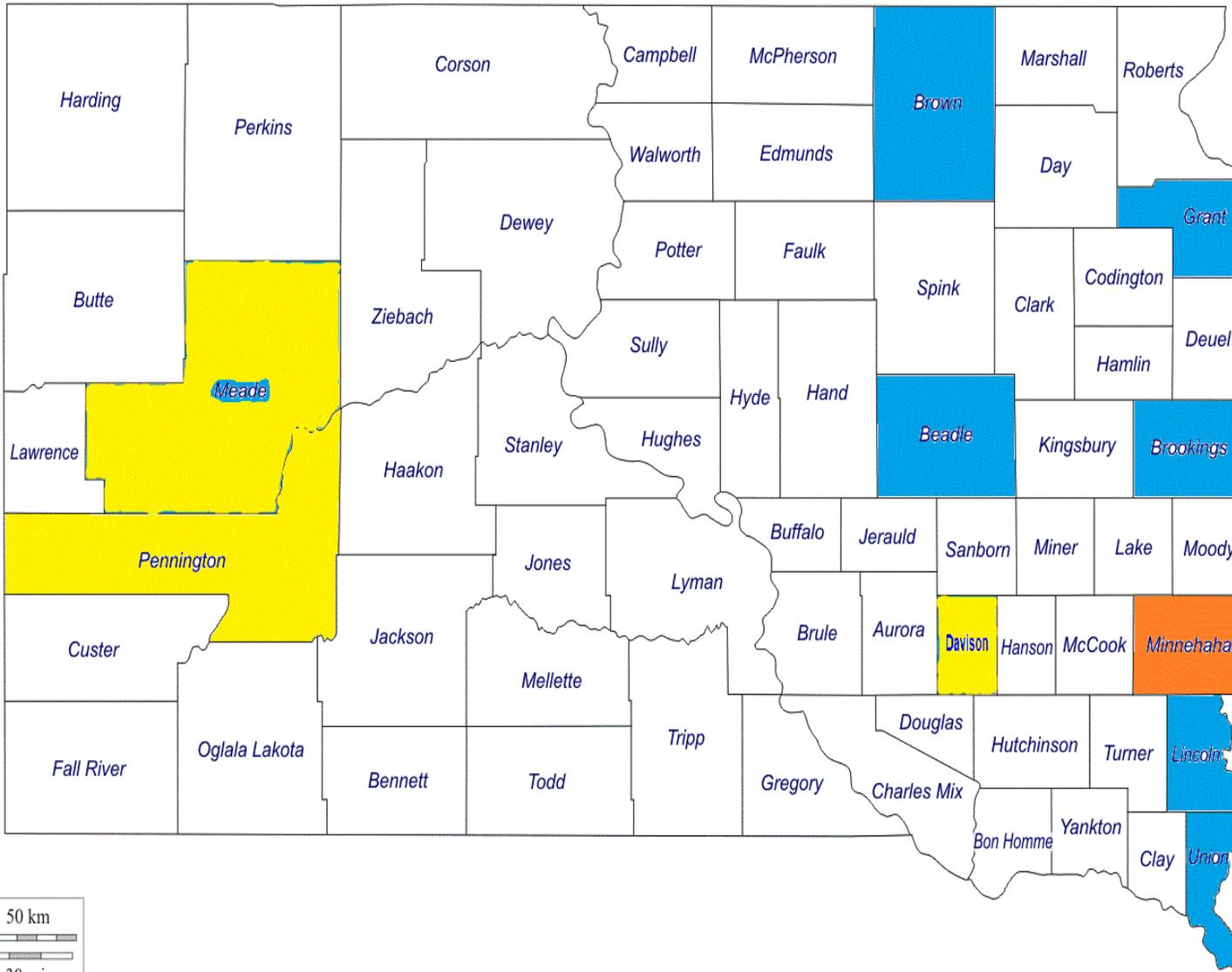- < 10 releases
- 10 – 25 releases
- 25 – 50 releases
- 50 – 100 releases
- > 100 releases

Utah Spill Reports (2006-2018)
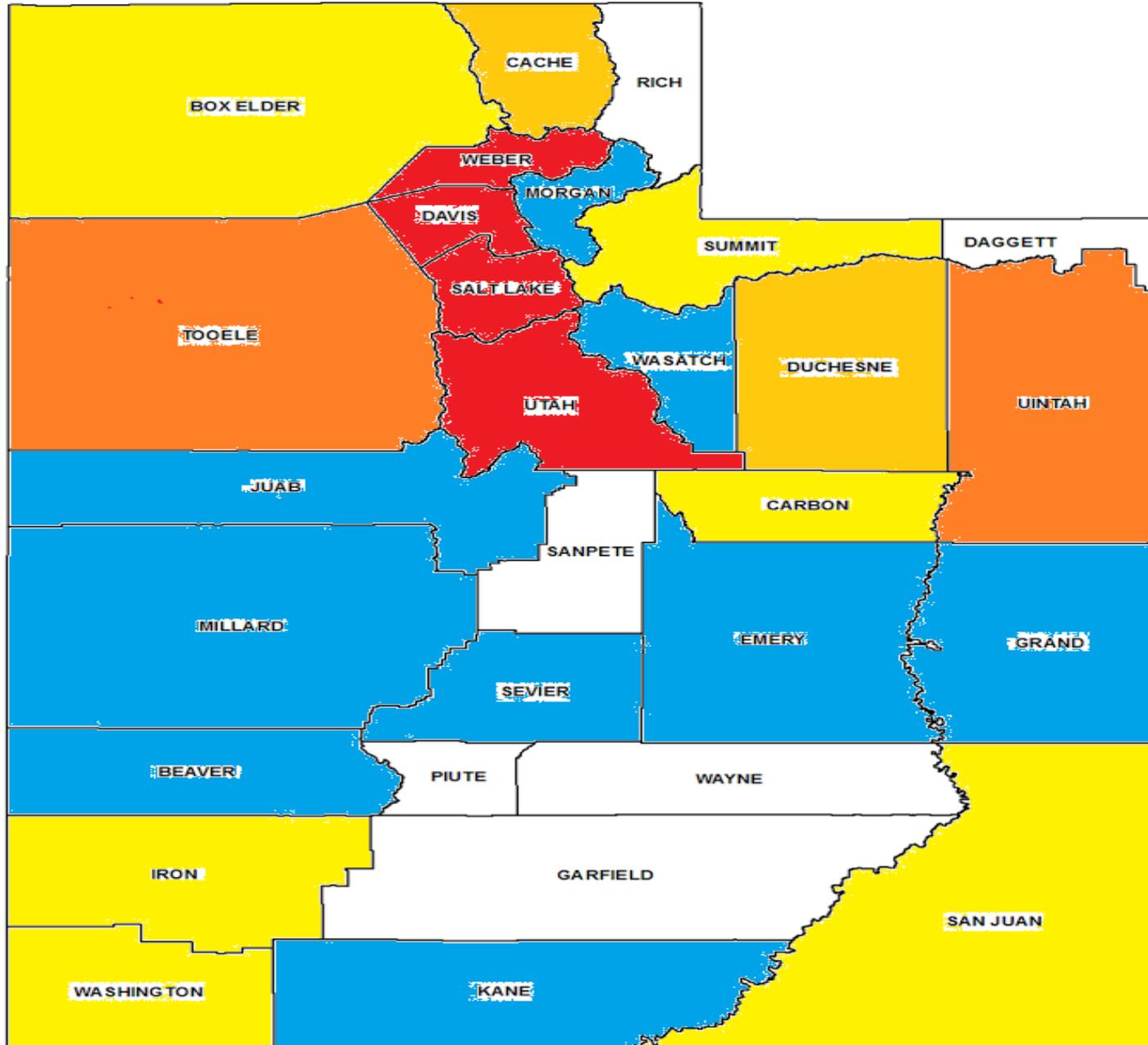
Legend:
- < 10 releases
- 10 – 25 releases
- 25 – 50 releases
- 50 – 100 releases
- > 100 releases

Wyoming Spill Reports (2006-2018)

Legend:
- < 10 releases
- 10 – 25 releases
- 25 – 50 releases
- 50 – 100 releases
- > 100 releases