

Whole-rock geochemical data for the Granite Peak, Granite Peak SE,
Dugway Proving Ground SW, Camels Back Ridge NE, Wig Mountain,
Wig Mountain NE, Tabbys Peak, Tabbys Peak SE, Tabbys Peak SW,
and Wildcat Mountain quadrangles, Utah

by

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2008

INTRODUCTION

This Open-File Report makes available raw analytical data from laboratory procedures completed to determine the geochemistry of rock samples collected during geologic mapping partially supported by the Utah Geological Survey (UGS). Additional information about these samples is available in Clark and others (2008). These data were prepared by ALS Chemex Labs, Inc., Sparks, Nevada, under contract to the UGS. These data are highly technical in nature and proper interpretation requires considerable training in applicable geochemical techniques.

Disclaimer

This open-file release is intended as a data repository for technical analytical information gathered in support of geologic mapping of Dugway Proving Ground and adjacent areas, parts of the Wildcat Mountain, Rush Valley, and Fish Springs 30' x 60' quadrangles. These data may not conform to UGS technical or editorial standards. Therefore, it may be premature for an individual or group to take actions based on the contents of this report.

Geologic mapping of Dugway Proving Ground and adjacent areas was partially funded by the Utah Geological Survey and the U.S. Geological Survey. The views and conclusions contained in this document are those of the author and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

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References to geologic reports that cite or explain samples analyzed in this report

Clark, D.L., Oviatt, C.G., and Page, D., 2008, Interim geologic map of Dugway Proving Ground and adjacent areas, parts of the Wildcat Mountain, Rush Valley, and Fish Springs 30' x 60' quadrangles, Tooele County, Utah (year 2 of 2): Utah Geological Survey Open-File Report 532, scale 1:75,000.

Clark, D.L., Biek, R.F., Willis, G.C., Brown, K.D., Kuehne, P.A., Ehler, J.B., and Ege, C.L., in press, Provisional geologic map of the Granite Peak and Sapphire Mountain area, U.S. Army Dugway Proving Ground, Tooele County, Utah: Utah Geological Survey Miscellaneous Publication, scale 1:24,000.

Other reference in data table

LeBas, M.J., Le Maitre, R.W., Steckeisen, A.L., and Zanettin, B., 1986, A chemical classification of volcanic rocks based on the total alkali-silica diagram: *Journal of Petrology*, v. 27, part 3, p. 745-750.

Table 1. Major- and trace-element whole-rock analyses for Dugway Proving Ground and adjacent areas.

Map Number	Sample #	Map Unit	Rock Name	7.5' Quadrangle	Latitude (N)	Longitude (W)	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	Cr ₂ O ₃	TiO ₂	MnO	P ₂ O ₅	SrO	BaO	LOI	Total	Aq	Ba	Ce	Co	Cr	Cs	Cu	Dy
Trd2	GP081605-1a	Trd	Rhyolite dike	Granite Peak	40°07'23"	113°17'14"	72.31	14.75	1.77	1.6	0.4	3.64	4.38	0.01	0.21	0.05	0.06	0.03	0.15	0.68	100.05	<1	1335	27.3	2.7	90	2.2	25	3.4
Trd3	GP081605-10a	Trd	Rhyolite dike	Granite Peak	40°17'03"	113°17'06"	69.01	13.19	3.52	0.75	0.55	0.9	8.8	<0.01	0.63	0.05	0.12	0.02	0.19	1.64	99.38	<1	1925	193	3.2	50	0.7	<5	7.9
Trd4	GP081605-6b	Trd	Rhyolite dike	Granite Peak	40°07'44"	113°17'04"	75.23	12.07	1.14	0.64	0.1	0.56	8.75	<0.01	0.17	0.02	0.02	0.01	0.06	1.32	100.1	<1	662	70	1.4	50	2.4	5	6.7
Trs1	GP071405-11	Trs	Rhyolite flow	Granite Peak SE	40°03'55.4"	113°16'18.5"	69.95	13.18	3.46	1.14	0.11	1.34	8.51	<0.01	0.71	0.04	0.17	0.02	0.2	1.06	99.88	<1	2110	214	3.8	60	3.4	6	7.8
Trs2	GP102605-4	Trs	Rhyolite flow	Granite Peak SE	40°03'40.9"	113°16'14.6"	72.48	10.53	2.74	1.53	0.64	0.76	7.48	<0.01	0.58	0.07	0.11	0.02	0.21	1.9	99.04	<1	1855	150.5	3.3	50	2.5	<5	6
Trs3	GP102605-5	Trs	Rhyolite flow	Granite Peak SE	40°03'41.3"	113°15'32.2"	73.05	11.42	2.59	0.84	0.23	1.06	7.56	<0.01	0.59	0.08	0.15	0.01	0.14	0.9	98.62	<1	1230	177	4.3	100	3.4	<5	6.6
Trr1	D-47	Trr	Rhyolite	Tabbys Peak	40°26'18.0"	112°36'57.2"	68.97	14.05	1.31	2.04	0.37	2.74	3.98	<0.01	0.1	0.03	0.03	0.04	0.16	4.57	98.38	<1	1490	72.2	0.6	<10	3	<5	2.47
Trr2	D-48	Trr	Rhyolite	Tabbys Peak	40°25'10.8"	112°58'38.3"	67.55	14.38	2.96	2.61	0.89	3.18	4.45	<0.01	0.36	0.03	0.14	0.05	0.16	1.84	98.6	<1	1305	45.7	6.5	40	4.42	16	2.43
Trr3	D-49	Trr	Rhyolite	Tabbys Peak	40°22'38.1"	112°37'38.9"	68.18	14.87	2.12	2.2	1.02	3.18	3.78	<0.01	0.43	0.01	0.17	0.06	0.18	2.25	98.46	<1	1625	88.9	4.7	30	3.17	10	2.04
Trr4	D-51	Trr	Rhyolite	Tabbys Peak	40°23'11.7"	112°57'13.1"	75.73	14.96	0.61	0.71	1.16	0.06	0.05	<0.01	0.45	<0.01	0.14	0.01	0.08	6.43	99.37	<1	678	89.6	2.1	30	1.29	12	1.88
Tdd1	GP080905-3	Tdd	Lattite dike	Granite Peak SE	40°07'09"	113°15'20"	56.56	16.94	8.61	3.54	3.08	3.48	3.23	<0.01	1.26	0.11	0.52	0.09	0.22	2.24	99.87	<1	2410	166.5	18.8	30	10.8	<5	7.1
Tdd2	GP081005-12	Tdd	Dacite dike	Granite Peak	40°09'01"	113°20'15"	62.41	15.13	5.39	4.8	3.54	3.22	3.04	0.02	0.64	0.1	0.17	0.05	0.1	1.37	99.97	<1	1325	82.8	18.2	200	5.3	15	3.9
Tdd3	GP081005-9	Tdd	Dacite dike	Granite Peak	40°09'11"	113°20'06"	61.93	14.85	5.51	4.86	3.94	3.11	3.02	0.02	0.66	0.09	0.16	0.05	0.11	1.45	99.87	<1	1240	79.9	18.4	200	4.3	20	3.9
Tac1	D-7	Tac	Andesite	Wig Mountain	40°21'37.8"	113°00'04.0"	60.25	15.15	6.58	5.22	3.45	2.93	3.12	0.03	0.76	0.08	0.19	0.05	0.14	1.4	99.35	<1	1225	78.9	19.7	220	3.42	28	4.54
Tac6	D-9	Tac	Dacite	Wig Mountain	40°22'03.5"	113°00'11.9"	60.99	16.4	4.86	4.71	2.79	3	2.13	<0.01	0.52	0.07	0.1	0.05	0.1	4.15	99.88	<1	940	51.5	12.9	80	1.62	10	4.78
Tac7	D-10	Tac	Andesite	Tabbys Peak SW	40°21'33.4"	112°59'42.4"	59.97	16.24	6.19	4.83	1.78	2.95	3.62	<0.01	0.84	0.08	0.25	0.06	0.15	2.06	99.01	<1	1245	79.9	12.9	20	1.59	10	4.61
Tac8	D-12	Tac	Andesite	Tabbys Peak SW	40°20'12.9"	112°58'21.1"	59	16.41	7.34	6.22	3.86	2.86	2.24	0.01	0.81	0.11	0.19	0.03	0.1	1.02	100	<1	863	81.4	20.3	130	3.08	18	5.34
Tac9	D-15	Tac	Dacite	Tabbys Peak SW	40°20'33.7"	112°58'07.7"	62.68	15.82	5.65	4.27	1.68	2.81	3.87	<0.01	0.76	0.07	0.25	0.05	0.15	1.54	99.6	<1	1325	86.7	14.7	50	4.49	12	3.79
Tac3	D-17	Tac	Andesite	Tabbys Peak SW	40°18'39.6"	112°56'36.3"	60.15	15.85	6.89	5.05	2.96	2.73	3.62	0.01	0.94	0.1	0.29	0.05	0.16	1.18	99.98	<1	1395	92.2	23.3	140	4.9	20	4.54
Tac9	D-19	Tac	Dacite	Tabbys Peak SW	40°19'01.9"	112°56'32.6"	63.54	15.71	5.77	4	1.88	2.85	3.69	0.01	0.66	0.06	0.22	0.05	0.15	1.49	100.1	<1	1350	88.4	14.2	70	4.7	18	3.85
Tac10	D-20	Tac	Andesite	Tabbys Peak SW	40°19'05.1"	112°56'26.7"	61.8	16.34	5.8	4.44	2.09	2.82	3.8	0.01	0.71	0.08	0.24	0.05	0.16	1.49	99.83	<1	1350	86.9	13.2	70	5.51	8	3.64
Tac11	D-21	Tac	Dacite	Tabbys Peak SW	40°19'06.1"	112°56'23.8"	61.21	16.03	5.69	4.22	1.71	3	3.64	<0.01	0.67	0.06	0.23	0.06	0.16	1.92	98.64	<1	1420	85.8	13.3	60	4.11	17	3.54
Tac12	D-25	Tac	Andesite	Tabbys Peak SW	40°16'13.1"	112°56'23.9"	61.01	15.33	6.25	4.56	2.79	2.78	3.72	<0.01	0.75	0.09	0.24	0.05	0.15	1.69	99.42	<1	1255	87.9	16.4	130	3.9	22	3.91
Tac12	D-31	Tac	Andesite	Tabbys Peak SW	40°16'11.5"	112°52'39.7"	60.04	14.74	6.5	4.89	3.44	2.55	3.47	0.01	0.76	0.09	0.25	0.05	0.16	2.38	99.33	<1	1245	85.5	20.7	170	4.7	32	3.72
Tac13	D-32	Tac	Andesite	Tabbys Peak SW	40°16'06.8"	112°53'04.2"	58.71	15.13	7.55	5.36	4.21	2.24	3.43	0.02	0.99	0.11	0.29	0.05	0.13	1.2	99.42	<1	1100	88.3	27.1	220	3.82	32	4.35
Tac14	D-37	Tac	Dacite	Carnels Back Ridge NE	40°13'40.9"	112°48'36.5"	63.03	14.6	6.32	4.11	3.1	2.83	3.46	0.01	0.64	0.08	0.21	0.05	0.18	1.25	99.87	<1	1375	78.1	20	140	4.17	30	2.56
Tac15	D-38	Tac	Andesite	Tabbys Peak SE	40°15'04.8"	112°46'02.3"	60.56	14.88	7.2	4.63	3.31	2.52	3.59	0.02	0.85	0.08	0.26	0.05	0.15	1.34	99.43	<1	1140	82.1	18.5	160	4.85	25	3.61
Tac15	D-42	Tac	Andesite	Wig Mountain NE	40°26'55.3"	113°01'15.8"	59.59	16.58	6.96	5.01	3.3	2.94	2.12	0.01	0.77	0.1	0.17	0.03	0.11	1.1	99.69	<1	870	85.2	20.6	100	1.99	16	5.18
Tac16	D-44	Tac	Andesite	Wig Mountain NE	40°27'21.0"	113°00'49.0"	63.88	15.69	4.31	5.12	1.12	3.34	2.64	<0.01	0.44	0.07	0.12	0.04	0.12	2.83	99.72	<1	978	50.7	10.5	20	0.78	5	2.95
Tac17	D-46	Tac	Andesite	Tabbys Peak	40°27'58.0"	112°54'25.1"	61.24	16.09	5.63	4.67	2.64	3.32	2.75	0.01	0.88	0.07	0.24	0.05	0.15	2.26	100	<1	1215	120	18.8	100	2.29	27	2.86
Tac1	D-6	Taci	Andesite	Wig Mountain	40°20'03.3"	113°01'42.2"	61.19	16.71	6.26	5.36	2.72	3.07	2.41	<0.01	0.69	0.1	0.15	0.03	0.1	1.15	99.94	<1	852	76.9	15.4	40	3.61	13	5.32
Tac2	D-40	Taci	Andesite	Tabbys Peak	40°27'47.7"	112°59'13.8"	59.96	16.84	6.8	5.89	3.25	2.84	2.34	<0.01	0.77	0.1	0.18	0.04	0.09	0.96	100.05	<1	740	75.1	19.6	40	2.3	16	3.67
Tac3	D-59	Taci	Andesite	Wig Mountain NE	40°23'21.6"	113°01'11.5"	60.34	17.24	6.15	5.51	2.12	3.03	2.94	<0.01	0.74	0.1	0.2	0.04	0.1	1.71	99.61	<1	828	91.7	11.8	10	2.82	11	5.15
Thw1	D-80	Thw	Latite	Wildcat Mountain	40°27'45.9"	113°18'41.3"	59.41	17.3	6.46	4.61	1.66	3.2	4.04	0.02	0.77	0.1	0.345	0.05	0.14	1.65	99.69	<1	1055	77.7	16.6	10	4.52	48	4.02
Thw2	D-81	Thw	Trachyandite	Wildcat Mountain	40°27'26.7"	113°19'17.2"	61.06	17.36	5.23	3.77	1.41	3.54	4.23	0.02	0.58	0.1	0.284	0.05	0.14	1.96	99.73	<1	1190	85.5	9.9	10	4.69	72	3.68
Td1	FM083105-1	Tdi	Dacite	Carnels Back Ridge NE	40°12'08"	112°50'16"	67.9	15.29	3.62	2.69	1.44	3.55	3.6	<0.01	0.5	0.05	0.18	0.06	0.19	0.91	99.99	<1	1775	108.5	8.7	70	2.5	8	3
Td2	D-4	Tdi	Dacite	Tabbys Peak SW	40°18'17.9"	112°54'01.1"	63.46	14.85	3.7	3.51	1.95	3.34	3.73	0.01	0.53	0.05	0.18	0.07	0.17	3.15	98.5	<1	1505	115	10.6	110	6.3	15	3.43
Tt1	D-2	Tti	Trachyte	Dugway Proving Ground SW	40°03'41.9"	113°12'41.9"	58.07	15.6	4.52	2.66	1.26	0.49	11.99	0.04	1.11	0.13	0.34	0.01	0.25	4.04	99.91	<1	2070	124.5	15.8	300	2.15	42	5.63
Tt2	D-3	Tti	Tephriphonolite	Dugway Proving Ground SW	40°00'35.9"	113°12'47.9"	46.22	12.17	6.85	10.29	2.																		

Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
2.2	0.8	21	3	3	0.7	15	0.3	-2	25	12.2	7	45	3.3	176.5	2.8	6	234	1.9	0.5	6	<0.5	0.3	4.9	21	3	20.8	2.2	55	94.4
4.9	1.8	17	10.7	8	1.6	100.5	0.7	3	32	69.7	<5	9	20.9	301	10.8	<1	130.5	1.8	1.4	27	<0.5	0.7	6.5	30	3	43.3	4.6	61	396
5	0.5	18	5.8	6	1.5	34.6	0.9	2	44	27.9	<5	31	8.4	472	5.7	8	87.7	3.4	1	51	0.6	0.9	15	9	6	41.9	5.2	29	167.5
4.6	1.9	19	10.3	10	1.5	110.5	0.7	4	35	79.3	7	48	22.8	402	12.8	3	174.5	1.6	1.4	24	1.1	0.6	4.6	42	8	46.7	4.4	54	376
3.5	1.7	15	8.1	8	1.2	78.6	0.5	3	25	55	<5	28	16.2	362	8.8	3	178	1.4	1.1	21	<0.5	0.5	5	33	2	34.4	3.4	41	268
3.8	1.7	16	9.3	8	1.3	92.8	0.6	3	28	64	<5	30	19.2	325	10.3	3	130.5	1.6	1.2	24	0.8	0.5	4.6	35	3	36.4	3.7	94	285
1.63	1.06	17.6	3.76	4.2	0.49	41.6	0.26	<2	14	23.9	<5	28	7.26	190	3.83	1	304	1	0.48	17.2	<0.5	0.23	3.72	8	5	14.7	1.73	39	130
1.49	0.95	16.2	3.26	4.3	0.48	25.9	0.21	<2	11.4	18.9	7	25	5.18	135.5	3.52	1	409	0.8	0.46	12.7	0.5	0.2	3.1	45	1	13.9	1.46	41	142
1.12	1.23	21.2	4.18	5.7	0.35	50.4	0.14	<2	18.1	30.9	9	32	9.12	161.5	4.63	2	568	1.5	0.48	22.8	0.6	0.14	6.04	57	3	9.7	1.03	40	192
1.01	1.08	20.7	4.09	5.5	0.33	51	0.13	<2	17.4	30.9	5	12	9.26	3.9	4.61	2	26.2	1.4	0.44	23.5	<0.5	0.12	9.82	42	6	9.2	0.95	18	184
3.6	2.6	25	9.9	9	1.3	86.3	0.5	<2	23	70.4	8	20	18.8	147.5	12.4	6	838	1	1.4	15	0.6	0.5	2.4	161	4	40.1	3	138	369
2.2	1.3	22	4.8	5	0.7	45.4	0.3	<2	22	31.3	38	27	8.7	130.5	5.7	5	458	1.7	0.7	14	0.5	0.3	5.1	124	3	23.5	2	71	171.5
2.22	1.1	22	4.6	6	0.7	43.3	0.4	<2	22	31.3	36	21	8.5	134	5.6	8	440	1.7	0.7	13	0.6	0.3	4.3	126	4	24	2.2	74	207
2.46	1.48	17.9	5.58	5.1	0.85	44.3	0.35	<2	16.4	32.7	50	21	9.17	103	5.74	2	417	1.4	0.79	15.95	<0.5	0.33	4.58	115	3	21	2.2	71	174
2.62	1.32	19.4	4.83	4.3	0.86	32.1	0.36	<2	9.7	26.2	11	22	7	65.1	4.86	1	441	0.7	0.73	7.25	<0.5	0.36	1.62	96	1	21.8	2.35	68	144
2.54	1.71	21.1	5.96	5.8	0.87	45	0.37	<2	13.5	34.4	<5	19	9.55	120	6.18	1	515	0.9	0.84	13.95	<0.5	0.37	2.95	135	2	23.8	2.44	82	214
3.15	1.65	20.3	6.26	6.3	1.06	43.2	0.45	3	17.2	34.1	14	17	9.55	80.2	6.19	2	300	1.2	0.91	11.6	<0.5	0.46	2.89	154	2	27.5	2.85	85	232
2.68	1.44	22.6	5.73	6.7	0.88	48.8	0.36	2	20.8	36.5	11	26	10.15	152	6.53	3	473	1.7	0.83	19.4	0.5	0.39	5.74	133	5	27.6	2.53	73	259
2.98	1.67	24.2	6.66	7.3	0.97	49.2	0.39	4	20.2	40.5	18	26	10.9	143.5	7.18	3	545	1.5	0.93	17.2	0.5	0.45	4.61	188	4	30.3	2.77	96	271
2.71	1.48	23	5.84	6.7	0.89	50.2	0.38	2	19.7	36.5	15	29	10.15	145	6.55	3	464	1.7	0.85	19.95	0.6	0.4	5.77	113	5	27.5	2.49	74	261
2.56	1.41	21.7	5.6	6.2	0.85	47.7	0.36	3	17.1	35.4	7	27	9.84	135.5	6.21	3	490	1.6	0.82	18	0.5	0.38	4.83	122	29	25.5	2.45	74	240
2.46	1.46	21.5	5.63	6.3	0.82	48.9	0.34	2	17.1	35.1	15	28	9.81	122.5	6.25	2	524	1.3	0.78	18.05	<0.5	0.37	4.74	104	5	25.7	2.46	75	236
2.79	1.48	19.8	5.84	6.6	0.91	47.6	0.38	2	19.2	37	19	25	10.05	136	6.39	3	440	1.4	0.84	17.75	<0.5	0.43	4.52	127	4	27.9	2.65	70	257
2.73	1.39	20.6	6.03	6.6	0.9	47.8	0.37	2	19.1	36.5	35	24	10.05	135	6.37	3	479	1.4	0.87	18	<0.5	0.41	4.77	144	3	28.7	2.61	78	257
3.03	1.58	20.7	6.48	6.8	1.01	46.8	0.41	3	18.6	38.2	38	21	10.35	121	6.93	2	466	1.2	0.93	16.6	<0.5	0.44	3.73	183	3	31.8	2.91	84	265
2.06	1.25	20	4.9	5.5	0.69	44.4	0.25	3	14.1	32.1	32	25	8.79	133	5.49	2	438	1	0.68	19.4	0.5	0.29	4.72	117	4	21.4	2.01	68	222
2.66	1.45	19.6	5.78	6.1	0.91	44.3	0.32	2	17.3	36	22	24	9.59	138	6.44	2	460	1.2	0.83	16.35	0.5	0.37	4.18	165	3	27.4	2.54	72	246
3.77	1.5	21.1	6.42	7	1.24	45.7	0.53	2	19.4	35.4	10	19	9.98	75.8	6.83	2	318	1.2	1.03	14.7	<0.5	0.55	3.05	153	3	37.3	3.48	90	274
2.36	1.01	19.4	3.95	4.4	0.75	28.5	0.32	<2	11.4	22.3	5	20	5.98	74.8	3.96	1	384	0.8	0.62	9.08	<0.5	0.35	2.33	51	5	24.5	2.36	49	168
1.98	1.49	20.9	6.19	6.9	0.64	66.6	0.21	3	23.7	45.7	44	25	13.25	105	6.99	2	482	1.6	0.78	28.1	<0.5	0.26	5.04	100	3	19.8	1.6	82	266
2.94	1.54	18.7	5.72	5.7	0.95	41.6	0.41	2	19.9	31.1	7	21	9.01	93.9	5.74	3	295	1.6	0.85	12.95	<0.5	0.41	4.71	128	2	25	2.76	80	201
2.89	1.34	20.2	5.35	5.7	0.95	41	0.39	2	20.1	30.9	11	19	8.51	84.9	5.45	3	347	1.3	0.81	14.35	<0.5	0.41	3.65	152	3	28.2	2.69	74	219
3.11	1.43	20.5	6.37	6.4	1	49.4	0.47	2	22.5	36.8	<5	20	10.4	85.7	6.48	3	349	1.5	0.89	14.25	<0.5	0.43	3.88	110	3	27.4	3.09	89	250
2.32	1.39	20.5	5.67	5.1	0.81	41.2	0.33	5	14.6	34.1	<5	26	8.46	184.5	6.36	2	456	0.9	0.76	14.25	<0.5	0.34	4.22	69	3	22.9	2.08	78	189
2.19	1.33	20.3	5.51	5.6	0.74	46.9	0.32	3	16.3	35.4	<5	27	9	199	6.24	2	440	1	0.72	16.85	0.6	0.32	4.85	30	3	21.8	2.09	69	212
1.7	1.5	20	4.9	6	0.6	61.6	0.2	<2	15	37.3	14	49	11.2	127.5	5.7	2	634	1.1	0.6	21	<0.5	0.2	3.4	67	1	16.7	1.5	59	198
1.9	1.49	18.7	5.58	5.8	0.6	64.9	0.24	2	18	42	31	33	12.6	144	6.36	2	574	1.8	0.68	26.6	<0.5	0.24	9.13	67	2	15.7	1.62	63	193
3.05	2.2	15.7	7.78	7.4	1.01	66.6	0.4	<2	17.7	49.8	76	101	14.3	503	8.4	2	141.5	1	1.06	19.9	<0.5	0.41	4.21	107	7	27.5	2.68	332	272
2.29	1.65	14.8	6.32	5.6	0.81	53.3	0.28	<2	13.7	39.8	181	13	11.45	368	6.68	1	245	0.8	0.83	14.2	1.3	0.32	2.19	107	6	20.3	1.97	93	203
4	3.6	18	15.6	8	1.5	128	0.5	2	51	110	68	29	30.5	224	18.8	6	784	2.4	1.8	19	<0.5	0.5	6.7	198	1	41.9	3.3	85	316
2.7	2.9	21	10.4	7	1	142	0.3	3	85	87.1	11	25	26.2	178	12.8	5	848	4.9	1.2	39	<0.5	0.3	9.5	112	1	28	2.4	60	278
2.3	2.1	23	8.6	6	0.8	113.5	0.3	2	76	74.3	18	18	21.7	196.5	11.2	7	824	3.4	1	25	0.5	0.3	8.5	98	4	25.3	1.9	80	276
3.1	2.9	22	11.8	7	1.1	152.5	0.4	6	106	102	14	37	29.6	180.5	15.2	7	1005	4.5	1.4	34	0.5	0.4	8.6	111	2	33.9	2.5	73	325
2.5	2.4	23	9.7	7	0.9	150.5	0.4	2	120	86.1	8	22	26.2	234	12	9	767	5.8	1.1	35	0.6	0.3	4.7	79	2	28.4	2.2	75	317
2.4	2.3	23	9.4	6	0.8	117.5	0.3	2	63	78.5	34	20	22.6	455	11.9	11	549	3.1	1.1	34	1.3	0.3	8.5	109	8	27.5	2.2	76	229
2.6	2.4	18	9.7	6	0.9	96.7	0.3	<2	44	69.7	66	24	19.8	141.5	10.9	4	717	2.2	1.1	21	<0.5	0.3	4.5	118	2	24.2	2.2	67	281
3.3	3.3	19	13	4	1.2	100	0.4	2	46	90.6	26	91	24.1	142.5	15.2	7	872	2.2	1.5	18	<0.5	0.4	4.1	218	3	31.7	2.7	84	172.5
3.3	4	18	16	4	1.2	134.5	0.3	2	33	123	86	21	33.4	147.5	19.2	2	1315	1.7	1.7	26	<0.5	0.4	4.9	215	3	31.9	2.4	72	150
2	1.7	20	7.4	5	0.7	103.5	0.3	<2	81	56.2	9	16	17.7	293	8	10	363	4.3	0.8	42	0.5	0.3	7.9	68	4	19.1	1.7	78	205
4.7	4.3	21	16.2	6	1.7	137.																							