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Tables

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Table D.1.1 - SHETL Fault Levels (kA), Winter 2009/10

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABERNETHY	132	12.46	6.29	0.02	8.91	13.44	6.48	0.14	9.3
ABERNTHY	33	20.56	8.66	0.4	12.64	2.96	2.05	0	2.9
ALNESS	33	29.52	12.29	0.72	18.09	1.46	1.01	0	1.43
ARBROATH	33	23.06	9.18	1.63	14.62	1.53	1.06	0	1.5
ARDMORE	33	7.78	3.4	0.26	5.07	1.09	0.76	0	1.07
BEAULY	33	30.38	11.68	4.09	20.6	1.47	1.02	0	1.45
BEAULY	132	43.71	18.71	3.52	29.98	50.8	21.53	5.12	35.57
BEAULY	275	21.03	8.85	3.06	15.57	21.01	8.71	3.73	16.05
BLACKHILLOCK	275	35.87	14.78	5.26	26.16	33.13	13.72	5.17	24.57
BOAT OF GARTEN	33	24.97	10.55	0.76	15.67	2.16	1.49	0	2.11
BRACO	33	36.7	14.94	1.37	22.51	1.66	1.15	0	1.63
BRECHIN	132	11.18	5.64	0.02	8	11.54	5.52	0.07	7.88
BRIDGE OF DUN	33	20.25	8.65	0.29	12.53	2.11	1.46	0	2.07
BROADFORD	33	7.61	3.18	0.27	4.77	0.74	0.51	0	0.73
BRORA	33	6.02	2.34	0.59	3.89	0	0	0	0
BURGHMUIR	33	20.31	8.86	0.17	12.7	2.17	1.51	0	2.13
BURGHMUIR	132	10.22	5.28	0.01	7.47	11.47	5.6	0.07	7.98
CARRADALE	33	22.53	10.09	0.49	14.76	2.16	1.5	0	2.11
CASSLEY	33	10	4.28	0.26	6.32	1.12	0.78	0	1.1
CHARLESTON	33	27.73	10.49	5.54	20.38	1.57	1.09	0	1.54
CHARLESTON	132	30.34	13.06	3.17	21.64	35.9	15.55	3.5	25.49
CLAYHILLS	33	28.02	10.9	2.59	18.01	3.02	2.09	0	2.96
COUPAR ANGUS	33	29.09	11.55	2.35	18.69	2.16	1.5	0	2.12
COUPAR ANGUS	132	17.25	8.23	0.36	12.01	16.96	7.89	0.65	11.8
CRAIGIEBUCKLER	33	25.24	9.81	2.33	16.21	1.53	1.06	0	1.5
CRAIGIEBUCKLER	132	31.51	12.85	3.19	21.36	39.52	16.28	3.41	26.42
DOUNREAY	132	11.34	4.91	0.98	7.92	12.27	5.3	0.99	8.48
DOUNREAY	275	7.16	3.03	0.9	5.18	6.82	2.86	0.9	4.94
DUDHOPE	33	30.06	11.57	4.5	20.87	2.89	2	0	2.83
DUNBEATH	33	10.89	4.33	0.74	6.87	0	0.01	0	0.02
DUNOON	33	11.67	4.99	0.48	7.54	0.76	0.53	0	0.74
DUNVEGAN	33	24.73	10.97	0.13	15.64	2.62	1.82	0	2.57
DYCE	33	27.86	10.9	2.41	17.82	2.97	2.06	0	2.91
ELGIN	33	23.92	9.54	1.47	14.95	1.83	1.27	0	1.8
ERROCHTY	132	34.29	15.75	2.5	24.78	32.25	14.46	2.93	23.38
FASNAKYLE	132	28.03	13.01	1.08	19.48	24.6	11.17	1.6	17.4
FIDDES	33	6.84	2.57	1.23	4.87	0.72	0.5	0	0.71
FIDDES	132	11.05	5.65	0.01	8	11.35	5.48	0.05	7.79
FORT AUGUSTUS	132	28.27	12.68	3.18	21.11	29.24	12.85	3.19	21.37
FORT WILLIAM	132	7.2	3.59	0.19	5.26	7.45	3.51	0.49	5.45
FOYERS	275	17.76	7.51	2.67	13.29	18.56	7.66	3.37	14.21
FRASERBURGH	33	16.09	7	0.12	10.02	1.51	1.05	0	1.48
FT AUGUSTUS	33	20.79	8.48	0.65	12.64	2.12	1.47	0	2.08
FT WILLIAM	33	19.69	8.31	0.71	12.47	0.86	0.6	0	0.85
GLENAGNES	33	20.24	7.8	2.58	13.61	1.37	0.95	0	1.35

INVERARY	132	21.19	9.85	0.79	14.73	21.3	9.76	0.72	14.51
INVERNESS	33	27.88	11	1.96	17.51	2.17	1.51	0	2.13
KEITH	33	32.15	12.76	6.35	24.4	2.98	2.07	0	2.92
KEITH	132	26.39	10.92	4.74	20.18	31.47	12.83	6.22	24.36
KEITH	275	34.82	14.32	5.11	25.36	32.17	13.27	5.3	24.07
KILLIN	33	24.73	9.91	1.84	15.86	2.16	1.5	0	2.12
KILLIN	132	18.95	8.99	0.64	13.35	20.59	9.39	0.99	14.27
KINLOCHLEVEN	33	12.84	5.24	1.12	8.53	0.72	0.5	0	0.71
KINTORE	33	30.48	11.64	5.26	21.71	2.3	1.6	0	2.26
KINTORE	132	33.47	13.27	5.76	24.53	40.7	16.09	7.7	30.45
KINTORE	275	45.15	18.08	8.75	34.32	44.25	17.8	8.54	33.72
LAIRG	33	23.28	9.7	0.6	14.32	0	0.78	0	1.1
LUNANHEAD	33	25.17	9.67	3.64	17.32	2.15	1.49	0	2.11
LYNDHURST	33	29.44	11.4	3.87	20	2.92	2.02	0	2.86
MACDUFF	33	15.69	6.91	0.25	10.03	2.34	1.62	0	2.29
MILTON OF CRAIGIE	33	28.42	10.9	4.48	19.89	3.26	2.26	0	3.2
MILTON OF CRAIGIE	132	29.83	12.8	3.27	21.38	35.47	15.22	3.81	25.33
MYBSTER	33	34.07	13.71	3.56	22.95	3.24	2.25	0	3.17
NAIRN	33	22.89	9.35	0.73	13.96	3.01	2.08	0	2.95
PERSLEY	33	23.92	9.17	2.71	15.67	0.58	0.4	0	0.57
PERSLEY	132	31.2	12.66	4.41	22.31	39.68	16.11	6.03	28.82
PERSLEY	275	30.4	12.2	5.39	22.65	29.17	11.75	5.63	22.25
PETERHEAD	132	27.54	10.28	7.31	21.85	36.63	13.66	10.11	29.42
PETERHEAD	275	43.84	16.92	12.99	36.93	55.03	21.07	17.01	46.8
PETERHEAD GRANGE	33	30.55	11.42	6.61	22.76	2.19	1.52	0	2.14
PORT ANN	33	18.13	7.85	0.31	11.41	1.81	1.25	0	1.77
REDMOSS	33	26.44	10.16	3.06	17.44	2.97	2.06	0	2.91
SHIN	132	14.97	7.17	0.37	10.5	14.41	6.73	0.47	9.98
SLOY	132	30.14	13.39	2.03	20.97	30.06	13.06	2.29	20.76
STRICHEN	33	20.78	8.35	0.88	12.69	2.14	1.49	0	2.1
TARLAND	33	15.79	6.52	0.39	9.6	1.49	1.04	0	1.46
TAYNUILT	33	22.57	9.61	0.82	14.41	2.14	1.49	0	2.1
TEALING	132	33.31	14.04	5.05	24.91	39.04	16.44	5.43	28.69
TEALING	275	45.44	18.49	6.48	32.63	31.03	12.57	5.56	23.34
THURSO	33	22.64	9	2.41	15.14	2.9	2.01	0	2.84
WILLOWDALE	33	30.42	11.57	4.59	20.95	3.01	2.09	0	2.95
WOODHILL	33	28.5	10.67	5.64	20.73	4.45	3.08	0	4.36

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Table D.1.2 - SHETL Fault Levels (kA), Winter 2010/11

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABERNETHY	132	13.26	6.67	0.03	9.47	14.09	6.78	0.18	9.76
ABERNTHY	33	21.02	8.78	0.5	12.92	2.93	2.03	0	2.87
ALNESS	33	29.62	12.33	0.72	18.15	1.46	1.01	0	1.43
ARBROATH	33	23.07	9.17	1.65	14.62	1.52	1.05	0	1.49
ARDMORE	33	7.77	3.39	0.26	5.06	1.1	0.76	0	1.08
BEAULY	33	30.53	11.73	4.16	20.75	1.48	1.02	0	1.45
BEAULY	132	44.51	19.02	3.72	30.62	51.56	21.78	5.47	36.27
BEAULY	275	22.76	9.62	3.32	16.93	23.23	9.67	4.04	17.72
BLACKHILLOCK	275	36.35	14.99	5.28	26.47	33.58	13.92	5.19	24.88
BOAT OF GARTEN	33	25.02	10.57	0.76	15.71	2.16	1.5	0	2.12
BRACO	33	36.91	15.02	1.36	22.61	1.67	1.16	0	1.63
BRECHIN	132	11.26	5.7	0.02	8.08	11.6	5.55	0.07	7.93
BRIDGE OF DUN	33	20.32	8.68	0.29	12.57	2.11	1.46	0	2.07
BROADFORD	33	7.62	3.18	0.27	4.78	0.74	0.51	0	0.73
BRORA	33	6.04	2.34	0.59	3.91	0	0	0	0
BURGHMUIR	33	21.46	9.23	0.32	13.37	2.2	1.52	0	2.15
BURGHMUIR	132	11.42	5.82	0.03	8.26	12.63	6.1	0.13	8.76
CARRADALE	33	25.17	10.88	1.02	16.4	2.18	1.51	0	2.14
CASSLEY	33	10.03	4.29	0.26	6.34	1.12	0.78	0	1.1
CHARLESTON	33	27.77	10.48	5.57	20.4	1.55	1.07	0	1.51
CHARLESTON	132	31.84	13.76	3.11	22.57	37.21	16.18	3.42	26.29
CLAYHILLS	33	28.06	10.92	2.59	18.03	3.01	2.09	0	2.96
COUPAR ANGUS	33	29.38	11.66	2.32	18.81	2.16	1.5	0	2.12
COUPAR ANGUS	132	17.74	8.51	0.34	12.37	17.29	8.06	0.63	12.03
CRAIGIEBUCKLER	33	25.24	9.81	2.33	16.2	1.54	1.07	0	1.51
CRAIGIEBUCKLER	132	31.63	12.91	3.18	21.43	39.65	16.34	3.39	26.5
DOUNREAY	132	11.28	4.89	0.96	7.88	12.2	5.27	0.97	8.43
DOUNREAY	275	7.26	3.07	0.9	5.24	6.88	2.88	0.91	4.99
DUDHOPE	33	30.38	11.69	4.49	21.03	2.89	2	0	2.83
DUNBEATH	33	10.93	4.35	0.75	6.9	0	0.01	0	0.02
DUNOON	33	11.67	4.99	0.48	7.54	0.76	0.53	0	0.74
DUNVEGAN	33	25.1	11.16	0.11	15.89	2.61	1.81	0	2.56
DYCE	33	27.89	10.91	2.4	17.83	2.97	2.06	0	2.91
ELGIN	33	23.98	9.56	1.47	14.99	1.84	1.27	0	1.8
ERROCHTY	132	38.27	17.48	2.65	27.38	35.46	15.87	3.07	25.51
FASNAKYLE	132	28.32	13.17	1.07	19.69	24.77	11.25	1.6	17.52
FIDDES	33	6.85	2.57	1.24	4.88	0.72	0.5	0	0.71
FIDDES	132	11.09	5.68	0.01	8.04	11.38	5.5	0.04	7.82
FORT AUGUSTUS	132	28.64	12.85	3.21	21.39	29.6	13.02	3.22	21.63
FORT WILLIAM	132	7.23	3.6	0.19	5.28	7.47	3.52	0.49	5.46
FOYERS	275	20.02	8.58	2.83	14.96	20.96	8.76	3.59	15.97
FRASERBURGH	33	16.12	7.01	0.12	10.04	1.51	1.05	0	1.48
FT AUGUSTUS	33	21.51	8.69	0.82	13.11	2.13	1.48	0	2.09
FT WILLIAM	33	19.73	8.33	0.71	12.49	0.86	0.6	0	0.85
GLENAGNES	33	20.39	7.86	2.57	13.68	1.38	0.95	0	1.35

INVERARY	132	27.76	12.81	0.8	18.92	26.23	12	0.67	17.65
INVERNESS	33	30.79	11.59	5.37	21.76	3.24	2.25	0	3.18
KEITH	33	32.17	12.77	6.37	24.43	2.98	2.07	0	2.92
KEITH	132	26.42	10.94	4.76	20.22	31.52	12.85	6.24	24.4
KEITH	275	35.25	14.51	5.12	25.64	32.57	13.45	5.32	24.34
KILLIN	33	25.83	10.29	1.94	16.5	2.18	1.51	0	2.14
KILLIN	132	22.14	10.54	0.58	15.48	23.87	10.91	0.95	16.38
KINLOCHLEVEN	33	12.85	5.25	1.11	8.54	0.72	0.5	0	0.71
KINTORE	33	30.52	11.65	5.26	21.74	2.3	1.6	0	2.26
KINTORE	132	33.61	13.33	5.76	24.62	40.84	16.15	7.7	30.54
KINTORE	275	45.69	18.31	8.75	34.65	44.64	17.98	8.54	33.97
LAIRG	33	23.32	9.71	0.6	14.34	0	0.78	0	1.1
LUNANHEAD	33	25.2	9.67	3.66	17.34	2.11	1.46	0	2.07
LYNDHURST	33	29.54	11.42	3.88	20.03	2.87	1.99	0	2.82
MACDUFF	33	15.7	6.92	0.25	10.03	2.34	1.62	0	2.29
MILTON OF CRAIGIE	33	28.7	11	4.47	20.03	3.26	2.26	0	3.2
MILTON OF CRAIGIE	132	31.13	13.42	3.2	22.18	36.67	15.78	3.74	26.06
MYBSTER	33	34.15	13.75	3.57	23.02	3.25	2.26	0	3.19
NAIRN	33	23.03	9.41	0.74	14.05	3.03	2.1	0	2.97
PERSLEY	33	24.2	9.24	2.92	15.99	0.58	0.4	0	0.57
PERSLEY	132	31.32	12.72	4.4	22.38	39.81	16.18	6.02	28.9
PERSLEY	275	30.61	12.29	5.38	22.77	29.31	11.81	5.63	22.33
PETERHEAD	132	27.59	10.3	7.3	21.87	36.78	13.73	10.1	29.51
PETERHEAD	275	44.14	17.05	13	37.11	55.36	21.2	17.03	47.01
PETERHEAD GRANGE	33	30.59	11.43	6.61	22.78	2.19	1.52	0	2.14
PORT ANN	33	19.23	8.27	0.3	11.99	1.82	1.26	0	1.78
REDMOSS	33	26.48	10.18	3.06	17.45	2.97	2.06	0	2.91
SHIN	132	15.04	7.21	0.37	10.56	14.47	6.76	0.47	10.03
SLOY	132	41.21	17.99	2.47	27.92	39.95	17.12	2.85	27.06
STRICHEN	33	21.49	8.56	1.11	13.21	2.16	1.5	0	2.12
TARLAND	33	15.79	6.52	0.39	9.61	1.5	1.04	0	1.47
TAYNUILT	33	24.09	10.12	1.14	15.45	2.15	1.49	0	2.11
TEALING	132	34.74	14.7	5	25.79	40.31	17.03	5.37	29.46
TEALING	275	46.48	18.92	6.5	33.25	31.34	12.7	5.6	23.55
THURSO	33	22.62	8.99	2.42	15.14	2.87	1.99	0	2.81
WILLOWDALE	33	30.46	11.59	4.59	20.97	3.01	2.09	0	2.96
WOODHILL	33	28.53	10.69	5.64	20.75	4.45	3.08	0	4.36

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Table D.1.3 - SHETL Fault Levels (kA), Winter 2011/12

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABERNETHY	132	13.27	6.67	0.03	9.47	14.09	6.78	0.18	9.76
ABERNTHY	33	21.03	8.78	0.5	12.92	2.92	2.03	0	2.87
ALNESS	33	36.01	14.85	1.16	22.17	2.19	1.52	0	2.15
ARBROATH	33	23.07	9.17	1.65	14.62	1.52	1.05	0	1.49
ARDMORE	33	8.63	3.81	0.26	5.64	1.04	0.72	0	1.02
BEAULY	33	30.53	11.73	4.16	20.75	1.48	1.02	0	1.45
BEAULY	132	44.55	19.04	3.72	30.65	51.64	21.82	5.47	36.33
BEAULY	275	22.76	9.62	3.33	16.93	23.23	9.68	4.05	17.73
BLACKHILLOCK	275	36.41	15.01	5.27	26.5	33.66	13.96	5.2	24.93
BOAT OF GARTEN	33	25.02	10.57	0.76	15.71	2.16	1.5	0	2.12
BRACO	33	36.93	15.03	1.36	22.62	1.67	1.16	0	1.63
BRECHIN	132	11.26	5.7	0.02	8.09	11.6	5.55	0.07	7.93
BRIDGE OF DUN	33	20.32	8.69	0.29	12.57	2.11	1.46	0	2.06
BROADFORD	33	7.64	3.19	0.27	4.78	0.74	0.51	0	0.73
BRORA	33	6.03	2.34	0.59	3.9	0	0	0	0
BURGHMUIR	33	21.47	9.23	0.32	13.37	2.2	1.52	0	2.15
BURGHMUIR	132	11.43	5.82	0.03	8.27	12.63	6.1	0.13	8.76
CARRADALE	33	25.18	10.89	1.02	16.41	2.18	1.51	0	2.14
CASSLEY	33	10.03	4.29	0.26	6.33	1.12	0.78	0	1.1
CHARLESTON	33	27.77	10.49	5.58	20.41	1.54	1.07	0	1.51
CHARLESTON	132	31.89	13.78	3.11	22.6	37.26	16.2	3.42	26.33
CLAYHILLS	33	28.08	10.92	2.59	18.04	3.01	2.09	0	2.95
COUPAR ANGUS	33	29.38	11.66	2.32	18.82	2.16	1.5	0	2.12
COUPAR ANGUS	132	17.75	8.52	0.33	12.38	17.3	8.07	0.63	12.03
CRAIGIEBUCKLER	33	24.99	9.71	2.31	16.05	1.52	1.05	0	1.49
CRAIGIEBUCKLER	132	31.66	12.92	3.17	21.45	39.69	16.36	3.38	26.52
DOUNREAY	132	11.33	4.91	1	7.94	12.27	5.29	1	8.49
DOUNREAY	275	7.23	3.06	0.9	5.23	6.87	2.88	0.91	4.98
DUDHOPE	33	30.39	11.7	4.5	21.04	2.89	2	0	2.83
DUNBEATH	33	10.9	4.35	0.75	6.9	0	0.01	0	0.02
DUNOON	33	12.97	5.58	0.63	8.52	1.08	0.75	0	1.06
DUNVEGAN	33	25.13	11.17	0.11	15.91	2.61	1.81	0	2.56
DYCE	33	27.9	10.91	2.4	17.84	2.97	2.06	0	2.92
ELGIN	33	23.98	9.56	1.47	14.99	1.84	1.27	0	1.8
ERROCHTY	132	38.3	17.51	2.65	27.41	35.48	15.88	3.07	25.52
FASNAKYLE	132	28.33	13.18	1.07	19.7	24.78	11.26	1.6	17.52
FIDDES	33	6.85	2.57	1.24	4.88	0.72	0.5	0	0.71
FIDDES	132	11.09	5.68	0.01	8.04	11.38	5.5	0.04	7.82
FORT AUGUSTUS	132	28.66	12.87	3.21	21.41	29.61	13.03	3.22	21.65
FORT WILLIAM	132	7.23	3.6	0.19	5.29	7.47	3.52	0.49	5.46
FOYERS	275	20.02	8.58	2.83	14.96	20.96	8.76	3.59	15.98
FRASERBURGH	33	16.12	7.01	0.12	10.04	1.51	1.05	0	1.48
FT AUGUSTUS	33	21.5	8.69	0.82	13.11	2.13	1.48	0	2.09
FT WILLIAM	33	19.74	8.33	0.71	12.5	0.86	0.6	0	0.84
GLENAGNES	33	20.39	7.86	2.57	13.68	1.37	0.95	0	1.35

INVERARY	132	27.89	12.89	0.79	19.02	26.32	12.05	0.67	17.72
INVERNESS	33	30.8	11.6	5.37	21.77	3.24	2.24	0	3.17
KEITH	33	32.37	12.87	6.36	24.55	3.02	2.1	0	2.96
KEITH	132	26.46	10.95	4.75	20.24	31.59	12.88	6.24	24.45
KEITH	275	35.31	14.53	5.12	25.67	32.64	13.48	5.33	24.39
KILLIN	33	25.85	10.3	1.94	16.51	2.18	1.51	0	2.14
KILLIN	132	22.17	10.56	0.58	15.51	23.9	10.92	0.95	16.4
KINLOCHLEVEN	33	12.85	5.25	1.11	8.54	0.72	0.5	0	0.71
KINTORE	33	42.94	16.41	7.18	30.39	3.36	2.33	0	3.3
KINTORE	132	33.65	13.35	5.76	24.64	41.43	16.38	7.75	30.91
KINTORE	275	45.83	18.37	8.74	34.72	44.9	18.07	8.65	34.2
LAIRG	33	23.32	9.71	0.6	14.34	0	0.78	0	1.1
LUNANHEAD	33	25.37	9.75	3.63	17.41	2.15	1.49	0	2.11
LYNDHURST	33	29.55	11.42	3.88	20.04	2.87	1.99	0	2.81
MACDUFF	33	15.73	6.93	0.25	10.05	2.34	1.62	0	2.29
MILTON OF CRAIGIE	33	28.71	11.01	4.47	20.04	3.26	2.26	0	3.2
MILTON OF CRAIGIE	132	31.19	13.44	3.21	22.22	36.72	15.81	3.74	26.09
MYBSTER	33	33.43	13.39	3.63	22.56	2.19	1.52	0	2.15
NAIRN	33	23.03	9.41	0.74	14.05	3.02	2.1	0	2.96
PERSLEY	33	24.2	9.24	2.92	15.99	0.58	0.4	0	0.57
PERSLEY	132	31.35	12.73	4.39	22.4	39.85	16.19	6.02	28.93
PERSLEY	275	30.66	12.32	5.37	22.79	29.36	11.83	5.63	22.37
PETERHEAD	132	27.61	10.31	7.3	21.87	36.8	13.73	10.09	29.51
PETERHEAD	275	44.21	17.08	12.99	37.14	55.44	21.24	17.02	47.05
PETERHEAD GRANGE	33	30.6	11.44	6.61	22.79	2.19	1.52	0	2.14
PORT ANN	33	19.25	8.27	0.3	12	1.82	1.26	0	1.78
REDMOSS	33	26.48	10.18	3.06	17.46	2.97	2.06	0	2.91
SHIN	132	15.05	7.21	0.37	10.57	14.55	6.8	0.47	10.09
SLOY	132	41.52	18.16	2.45	28.13	40.14	17.22	2.83	27.19
STRICHEN	33	21.49	8.56	1.11	13.21	2.16	1.5	0	2.12
TARLAND	33	15.8	6.52	0.39	9.61	1.5	1.04	0	1.47
TAYNUILT	33	24.12	10.14	1.14	15.47	2.17	1.5	0	2.12
TEALING	132	34.81	14.73	5.01	25.84	40.39	17.06	5.38	29.51
TEALING	275	46.83	19.06	6.48	33.44	31.48	12.75	5.6	23.63
THURSO	33	22.55	8.96	2.45	15.12	2.87	1.99	0	2.82
WILLOWDALE	33	30.47	11.59	4.59	20.97	3.01	2.09	0	2.95
WOODHILL	33	28.54	10.69	5.64	20.76	4.45	3.08	0	4.36

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Table D.1.4 - SHETL Fault Levels (kA), Winter 2012/13

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABERNETHY	132	13.31	6.7	0.03	9.5	14.12	6.8	0.18	9.79
ABERNTHY	33	21.06	8.8	0.5	12.94	2.92	2.03	0	2.86
ALNESS	33	34.7	14.26	1.19	21.36	2.19	1.52	0	2.15
ARBROATH	33	23.13	9.19	1.65	14.65	1.52	1.05	0	1.49
ARDMORE	33	8.62	3.8	0.26	5.64	1.04	0.72	0	1.02
BEAULY	33	30.69	11.77	4.3	20.95	1.48	1.02	0	1.45
BEAULY	132	46.23	19.7	4.28	32.13	53.25	22.43	6.11	37.82
BEAULY	275	26.15	11.01	4.06	19.64	25.99	10.8	4.68	19.95
BLACKHILLOCK	275	41.74	17.27	5.51	29.94	36.54	15.2	5.38	26.88
BOAT OF GARTEN	33	27.56	11.84	0.72	17.47	2.16	1.5	0	2.11
BRACO	33	36.95	15.04	1.36	22.63	1.67	1.16	0	1.63
BRECHIN	132	11.34	5.75	0.02	8.15	11.65	5.59	0.07	7.97
BRIDGE OF DUN	33	20.39	8.72	0.29	12.61	2.11	1.46	0	2.06
BROADFORD	33	7.64	3.19	0.27	4.78	0.74	0.51	0	0.73
BRORA	33	6.04	2.34	0.59	3.9	0	0	0	0
BURGHMUIR	33	21.49	9.24	0.32	13.39	2.2	1.52	0	2.15
BURGHMUIR	132	11.45	5.84	0.03	8.29	12.65	6.12	0.13	8.78
CARRADALE	33	25.19	10.89	1.02	16.42	2.18	1.51	0	2.14
CASSLEY	33	10.01	4.28	0.26	6.31	1.12	0.78	0	1.1
CHARLESTON	33	27.83	10.51	5.6	20.45	1.55	1.07	0	1.52
CHARLESTON	132	32.17	13.91	3.12	22.79	37.51	16.32	3.42	26.5
CLAYHILLS	33	28.44	11.05	2.62	18.25	3.02	2.09	0	2.96
COUPAR ANGUS	33	29.43	11.68	2.32	18.84	2.16	1.5	0	2.12
COUPAR ANGUS	132	17.82	8.56	0.33	12.44	17.34	8.09	0.62	12.07
CRAIGIEBUCKLER	33	25.28	9.82	2.34	16.22	1.52	1.05	0	1.49
CRAIGIEBUCKLER	132	33.33	13.59	3.26	22.48	41.41	17.07	3.41	27.55
DOUNREAY	132	16.34	6.81	1.86	11.49	18.55	7.68	2.28	13.14
DOUNREAY	275	11.11	4.67	1.48	8.09	10.98	4.56	1.69	8.14
DUDHOPE	33	30.46	11.72	4.51	21.09	2.89	2	0	2.83
DUNBEATH	33	11.04	4.39	0.74	6.95	0	0.01	0	0.02
DUNOON	33	12.97	5.58	0.63	8.52	1.08	0.75	0	1.06
DUNVEGAN	33	26.08	11.11	0.33	16.05	2.15	1.49	0	2.1
DYCE	33	28.22	11.03	2.42	18.02	2.98	2.07	0	2.93
ELGIN	33	24.21	9.64	1.48	15.12	1.84	1.28	0	1.81
ERROCHTY	132	38.41	17.58	2.65	27.51	35.56	15.92	3.07	25.59
FASNAKYLE	132	28.64	13.34	1.07	19.94	24.94	11.34	1.61	17.64
FIDDES	33	6.86	2.57	1.24	4.88	0.73	0.5	0	0.71
FIDDES	132	11.25	5.77	0.01	8.17	11.49	5.56	0.04	7.91
FORT AUGUSTUS	132	28.81	12.95	3.21	21.53	29.72	13.09	3.22	21.73
FORT WILLIAM	132	7.24	3.61	0.19	5.29	7.47	3.52	0.49	5.47
FOYERS	275	24.08	10.16	4.44	18.81	23.67	9.78	4.94	18.76
FRASERBURGH	33	16.22	7.06	0.12	10.1	1.51	1.05	0	1.48
FT AUGUSTUS	33	22.99	9.32	0.78	13.96	2.14	1.48	0	2.1
FT WILLIAM	33	19.76	8.34	0.71	12.51	0.86	0.6	0	0.84
GLENAGNES	33	20.43	7.87	2.58	13.71	1.38	0.95	0	1.35

INVERARY	132	27.88	12.89	0.8	19.03	26.32	12.06	0.67	17.73
INVERNESS	33	31.53	11.83	5.85	22.58	3.24	2.25	0	3.18
KEITH	33	32.54	12.91	6.53	24.78	2.99	2.07	0	2.93
KEITH	132	27.48	11.36	5.01	21.07	32.52	13.24	6.51	25.23
KEITH	275	40.24	16.61	5.34	28.83	35.31	14.62	5.54	26.22
KILLIN	33	25.87	10.31	1.94	16.52	2.18	1.51	0	2.14
KILLIN	132	22.2	10.58	0.58	15.53	23.92	10.94	0.95	16.42
KINLOCHLEVEN	33	12.85	5.25	1.11	8.54	0.72	0.5	0	0.71
KINTORE	33	43.7	16.68	7.36	30.95	3.38	2.34	0	3.31
KINTORE	132	35.52	14.06	6.08	25.97	43.29	17.09	8.1	32.26
KINTORE	275	53.58	21.48	9.78	40.15	49.59	19.98	9.26	37.51
LAIRG	33	23.24	9.67	0.6	14.27	0	0.78	0	1.1
LUNANHEAD	33	25.42	9.77	3.64	17.45	2.15	1.49	0	2.11
LYNDHURST	33	29.61	11.45	3.89	20.08	2.87	1.99	0	2.81
MACDUFF	33	15.79	6.96	0.25	10.09	2.34	1.62	0	2.29
MILTON OF CRAIGIE	33	28.78	11.03	4.49	20.09	3.26	2.26	0	3.2
MILTON OF CRAIGIE	132	31.46	13.57	3.22	22.41	36.98	15.92	3.75	26.26
MYBSTER	33	36.14	14.36	3.6	23.91	2.2	1.52	0	2.15
NAIRN	33	23.2	9.47	0.75	14.15	3.03	2.1	0	2.97
PERSLEY	33	26.09	9.96	3.08	17.17	0.58	0.4	0	0.57
PERSLEY	132	33.03	13.39	4.63	23.57	41.63	16.9	6.29	30.2
PERSLEY	275	34.76	13.95	5.84	25.57	31.76	12.8	5.97	24.07
PETERHEAD	132	41.4	15.26	12.53	34.1	51.15	19.06	14.17	41.13
PETERHEAD	275	58.59	22.29	19.25	50.77	69.6	26.32	23.22	60.45
PETERHEAD GRANGE	33	31.02	11.58	6.79	23.17	2.19	1.52	0	2.15
PORT ANN	33	19.26	8.28	0.3	12	1.82	1.26	0	1.79
REDMOSS	33	26.8	10.29	3.1	17.66	2.98	2.07	0	2.92
SHIN	132	14.74	6.99	0.37	10.24	14.35	6.66	0.47	9.88
SLOY	132	41.61	18.21	2.45	28.19	40.22	17.26	2.83	27.24
STRICHEN	33	22.99	9.18	1.08	14.07	2.17	1.5	0	2.12
TARLAND	33	15.92	6.57	0.39	9.68	1.51	1.04	0	1.48
TAYNUILT	33	24.12	10.14	1.14	15.48	2.17	1.5	0	2.13
TEALING	132	35.16	14.89	5.05	26.11	40.71	17.2	5.41	29.74
TEALING	275	48.67	19.83	6.49	34.54	32.03	12.98	5.64	24
THURSO	33	24.95	9.76	2.8	16.6	2.88	2	0	2.83
WILLOWDALE	33	30.89	11.74	4.68	21.28	3.02	2.1	0	2.97
WOODHILL	33	28.91	10.82	5.77	21.07	4.46	3.09	0	4.38

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Table D.1.5 - SHETL Fault Levels (kA), Winter 2013/14

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABERNETHY	132	13.35	6.69	0.03	9.49	14.17	6.8	0.17	9.78
ABERNTHY	33	21.14	8.81	0.48	12.94	2.93	2.03	0	2.87
ALNESS	33	34.58	14.14	1.27	21.27	2.16	1.5	0	2.12
ARBROATH	33	23.24	9.23	1.64	14.7	1.53	1.06	0	1.5
ARDMORE	33	8.57	3.79	0.25	5.61	1.05	0.73	0	1.03
BEAULY	33	30.34	11.57	4.7	21.07	1.47	1.02	0	1.45
BEAULY	132	43.29	17.66	6.29	31.26	51.45	20.8	8.87	38.29
BEAULY	275	42.4	17.14	8.43	32.66	44.33	17.7	10.26	35.29
BEAULY	400	23.21	9.05	5.49	18.29	22.85	8.81	6.18	18.64
BLACKHILLOCK	275	45.51	19.01	5.58	32.46	38.86	16.26	5.48	28.48
BOAT OF GARTEN	33	27.28	11.68	0.71	17.22	2.14	1.48	0	2.1
BRACO	33	54.51	20.66	9.9	39.11	2.19	1.52	0	2.15
BRACO	275	38.38	15.08	7.16	28.49	18.79	7.11	5.21	15.27
BRECHIN	132	11.37	5.76	0.02	8.17	11.68	5.6	0.07	7.99
BRIDGE OF DUN	33	20.44	8.74	0.29	12.64	2.11	1.46	0	2.07
BROADFORD	33	7.64	3.19	0.25	4.77	0.75	0.52	0	0.73
BRORA	33	6.09	2.36	0.59	3.93	0	0	0	0
BURGHMUIR	33	21.58	9.25	0.3	13.38	2.2	1.53	0	2.16
BURGHMUIR	132	11.52	5.84	0.02	8.28	12.71	6.11	0.12	8.77
CARRADALE	33	25.14	10.86	1.02	16.38	2.15	1.49	0	2.11
CASSLEY	33	10.02	4.28	0.26	6.32	1.12	0.78	0	1.1
CHARLESTON	33	27.95	10.54	5.53	20.43	1.55	1.08	0	1.52
CHARLESTON	132	32.13	13.83	2.96	22.51	37.51	16.25	3.29	26.27
CLAYHILLS	33	28.52	11.09	2.62	18.31	3.02	2.1	0	2.96
COUPAR ANGUS	33	29.53	11.68	2.3	18.82	2.17	1.5	0	2.13
COUPAR ANGUS	132	17.91	8.54	0.31	12.39	17.42	8.09	0.6	12.05
CRAIGIEBUCKLER	33	25.35	9.85	2.34	16.26	1.52	1.05	0	1.49
CRAIGIEBUCKLER	132	33.7	13.76	3.26	22.72	41.81	17.25	3.41	27.81
DOUNREAY	132	18.65	7.62	2.62	13.4	21.14	8.59	3.14	15.29
DOUNREAY	275	14.06	5.79	2.19	10.37	14.13	5.77	2.43	10.6
DUDHOPE	33	30.59	11.76	4.45	21.07	2.91	2.02	0	2.85
DUNBEATH	33	11.14	4.43	0.74	7	0	0.01	0	0.02
DUNOON	33	12.98	5.59	0.62	8.53	1.08	0.75	0	1.05
DUNVEGAN	33	34.7	14.45	0.98	21.42	2.18	1.51	0	2.14
DYCE	33	28.3	11.07	2.42	18.07	2.99	2.07	0	2.93
ELGIN	33	24.2	9.62	1.49	15.09	1.83	1.27	0	1.8
ERROCHTY	132	41.88	17.27	6.62	31.05	39.63	16.37	6.38	29.53
ERROCHTY	275	27.39	10.8	5.19	20.46	18.89	7.48	4.22	14.8
ERROCHTY	400	18.33	7.05	4.39	14.36	8.77	3.57	1.21	6.26
FASNAKYLE	275	31.84	12.7	6.14	24.09	27.1	10.83	5.32	20.63
FIDDES	33	6.95	2.58	1.37	5.02	0.72	0.5	0	0.71
FIDDES	132	11.29	5.8	0.01	8.21	11.53	5.58	0.04	7.94
FORT AUGUSTUS	132	41.22	15.58	10.07	32.09	47.44	17.97	11.81	37.23
FORT AUGUSTUS	275	28.66	11.33	5.75	21.76	23.88	9.42	5.33	18.64
FORT AUGUSTUS	400	20.68	8.01	4.94	16.27	16.26	6.35	3.99	12.98

FORT WILLIAM	132	7.67	3.75	0.15	5.45	7.8	3.62	0.47	5.58
FOYERS	275	31.16	13.16	4.78	23.39	28.5	11.8	5.39	22.08
FRASERBURGH	33	16.27	7.08	0.12	10.13	1.52	1.05	0	1.49
FT AUGUSTUS	33	23	9.33	0.78	13.97	2.14	1.48	0	2.1
FT WILLIAM	33	20.36	8.44	0.62	12.56	0.86	0.6	0	0.85
GLENAGNES	33	20.52	7.9	2.56	13.73	1.38	0.96	0	1.36
INVERARY	132	28.34	13.13	0.79	19.35	26.65	12.22	0.67	17.95
INVERNESS	33	32.99	12.29	6.5	23.89	3.26	2.26	0	3.2
KEITH	33	32.86	13.01	6.6	25	3.02	2.09	0	2.96
KEITH	132	28.42	11.68	5.14	21.66	33.5	13.57	6.68	25.87
KEITH	275	43.6	18.15	5.4	31.07	37.35	15.55	5.64	27.62
KILLIN	33	25.97	10.34	1.95	16.57	2.19	1.52	0	2.15
KILLIN	132	22.4	10.64	0.56	15.61	24.11	10.99	0.94	16.49
KINLOCHLEVEN	33	13	5.27	1.07	8.52	0.72	0.5	0	0.7
KINTORE	33	43.89	16.75	7.39	31.08	3.38	2.34	0	3.31
KINTORE	132	35.97	14.26	6.13	26.29	43.76	17.29	8.16	32.61
KINTORE	275	56.04	22.6	10.06	42.02	51.14	20.69	9.44	38.69
LAIRG	33	23.29	9.68	0.6	14.29	0	0.78	0	1.1
LUNANHEAD	33	25.54	9.8	3.6	17.47	2.17	1.5	0	2.12
LYNDHURST	33	29.74	11.48	3.84	20.08	2.89	2	0	2.83
MACDUFF	33	15.81	6.96	0.25	10.1	2.34	1.62	0	2.29
MILTON OF CRAIGIE	33	28.9	11.07	4.43	20.08	3.28	2.27	0	3.22
MILTON OF CRAIGIE	132	31.39	13.49	3.07	22.14	36.95	15.86	3.61	26.04
MYBSTER	33	37.13	14.7	3.64	24.43	2.2	1.53	0	2.16
NAIRN	33	22.98	9.33	0.79	13.99	2.96	2.05	0	2.9
PERSLEY	33	26.1	9.97	3.08	17.18	0.58	0.4	0	0.57
PERSLEY	132	33.39	13.56	4.65	23.83	42.02	17.08	6.32	30.48
PERSLEY	275	35.57	14.33	5.9	26.16	32.24	13.03	6.02	24.44
PETERHEAD	132	41.59	15.34	12.53	34.23	51.36	19.15	14.18	41.27
PETERHEAD	275	59.98	22.91	19.5	51.9	70.94	26.92	23.46	61.53
PETERHEAD GRANGE	33	31.12	11.62	6.81	23.24	2.2	1.52	0	2.15
PORT ANN	33	19.36	8.33	0.3	12.07	1.83	1.27	0	1.79
REDMOSS	33	26.87	10.32	3.11	17.71	2.98	2.07	0	2.93
SHIN	132	14.89	7.04	0.35	10.31	14.44	6.69	0.46	9.92
SLOY	132	42.92	18.77	2.5	29.04	41.13	17.63	2.89	27.83
STRICHEN	33	23	9.19	1.08	14.07	2.17	1.5	0	2.12
TARLAND	33	15.96	6.59	0.39	9.7	1.51	1.04	0	1.48
TAYNUILT	33	24.29	10.21	1.14	15.59	2.18	1.51	0	2.14
TEALING	132	35.02	14.78	4.8	25.7	40.58	17.1	5.2	29.39
TEALING	275	49.69	20.26	6.59	35.24	32.48	13.16	5.76	24.37
THURSO	33	25.85	10.05	3	17.22	2.9	2.01	0	2.85
WILLOWDALE	33	30.99	11.77	4.69	21.34	3.03	2.1	0	2.97
WOODHILL	33	29	10.85	5.78	21.13	4.47	3.1	0	4.38

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Table D.1.6 - SHETL Fault Levels (kA), Winter 2014/15

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABERNETHY	132	13.39	6.72	0.03	9.53	14.25	6.83	0.16	9.83
ABERNTHY	33	21.2	8.86	0.46	12.99	2.97	2.06	0	2.91
ALNESS	33	41.02	16.8	1.41	25.18	2.18	1.51	0	2.14
ARBROATH	33	23.41	9.32	1.6	14.77	1.55	1.07	0	1.51
ARDMORE	33	8.62	3.81	0.26	5.64	1.03	0.72	0	1.01
BEAULY	33	30.61	11.7	4.68	21.23	1.5	1.04	0	1.47
BEAULY	132	43.57	17.92	6.13	31.48	51.36	20.92	8.62	38.2
BEAULY	275	45.74	18.45	9.3	35.4	46.75	18.64	11.06	37.42
BEAULY	400	23.71	9.21	5.62	18.65	23.06	8.89	6.24	18.82
BLACKHILLOCK	275	49.38	20.51	7	36	48.3	19.77	9.17	37.13
BOAT OF GARTEN	33	27.34	11.74	0.69	17.29	2.16	1.5	0	2.12
BRACO	33	54.7	20.73	9.91	39.23	2.2	1.52	0	2.16
BRACO	275	39.7	15.55	7.56	29.55	35.61	13.64	8.95	28.24
BRECHIN	132	12.72	6.29	0.09	8.98	12.59	5.91	0.17	8.54
BRIDGE OF DUN	33	27.72	11.71	0.49	17.05	2.13	1.48	0	2.09
BROADFORD	33	7.66	3.2	0.26	4.79	0.75	0.52	0	0.73
BRORA	33	6.17	2.38	0.62	3.99	0	0	0	0
BURGHMUIR	33	21.55	9.24	0.3	13.36	2.2	1.52	0	2.15
BURGHMUIR	132	11.5	5.84	0.02	8.29	12.69	6.11	0.12	8.76
CARRADALE	33	25.13	10.86	1.02	16.37	2.15	1.49	0	2.11
CASSLEY	33	10.07	4.3	0.26	6.34	1.12	0.77	0	1.1
CHARLESTON	33	28.22	10.64	5.52	20.57	1.57	1.09	0	1.54
CHARLESTON	132	32.68	14.07	2.93	22.83	37.26	16.1	3.33	26.09
CLAYHILLS	33	28.57	11.11	2.63	18.34	3.02	2.09	0	2.96
COUPAR ANGUS	33	29.52	11.68	2.29	18.81	2.16	1.5	0	2.12
COUPAR ANGUS	132	18	8.6	0.3	12.46	17.43	8.09	0.6	12.05
CRAIGIEBUCKLER	33	25.65	9.96	2.36	16.45	1.54	1.07	0	1.51
CRAIGIEBUCKLER	132	34.23	13.98	3.31	23.08	42.38	17.5	3.45	28.19
DOUNREAY	132	22.83	9.37	2.89	16.15	24.81	10.13	3.45	17.77
DOUNREAY	275	15.45	6.32	2.46	11.39	15.12	6.15	2.64	11.34
DUDHOPE	33	31.06	11.94	4.46	21.36	2.88	2	0	2.82
DUNBEATH	33	25.87	10.75	0.69	15.89	1.1	0.76	0	1.08
DUNOON	33	13	5.6	0.62	8.54	1.08	0.75	0	1.06
DUNVEGAN	33	34.7	14.45	0.98	21.42	2.19	1.52	0	2.14
DYCE	33	28.32	11.07	2.42	18.08	2.98	2.07	0	2.92
ELGIN	33	24.3	9.65	1.5	15.14	1.82	1.26	0	1.78
ERROCHTY	132	42.04	17.35	6.7	31.24	39.77	16.43	6.4	29.64
ERROCHTY	275	28.17	11.09	5.35	21.04	21.28	8.45	4.7	16.65
ERROCHTY	400	18.61	7.14	4.5	14.6	13	5.21	2.03	9.39
FASNAKYLE	275	31.98	12.72	6.14	24.13	27.06	10.8	5.32	20.59
FIDDES	33	6.99	2.6	1.38	5.05	0.73	0.5	0	0.71
FIDDES	132	11.62	5.94	0.01	8.41	11.75	5.66	0.05	8.06
FORT AUGUSTUS	132	41.09	15.5	10.3	32.21	47.35	17.91	12.03	37.36
FORT AUGUSTUS	275	28.88	11.39	5.79	21.9	24.08	9.49	5.34	18.77
FORT AUGUSTUS	400	21	8.12	5.02	16.49	17.63	6.91	4.09	13.85

FORT WILLIAM	132	7.7	3.76	0.15	5.47	7.83	3.63	0.47	5.61
FOYERS	275	32.3	13.7	4.79	24.16	29.06	12.06	5.41	22.47
FRASERBURGH	33	16.41	7.12	0.14	10.21	1.51	1.05	0	1.48
FT AUGUSTUS	33	23.02	9.34	0.78	13.99	2.14	1.48	0	2.1
FT WILLIAM	33	20.45	8.48	0.63	12.62	0.87	0.6	0	0.85
INVERARY	132	28.32	13.11	0.79	19.33	26.63	12.21	0.67	17.93
INVERNESS	33	33.29	12.41	6.56	24.11	3.28	2.27	0	3.21
KEITH	33	33.29	13.14	6.98	25.55	2.99	2.07	0	2.93
KEITH	132	30.69	12.51	6	23.69	36.31	14.59	7.91	28.54
KEITH	275	47.1	19.49	6.71	34.28	45.01	18.42	8.27	34.31
KILLIN	33	25.96	10.33	1.95	16.56	2.19	1.52	0	2.14
KILLIN	132	22.39	10.63	0.56	15.6	24.1	10.99	0.94	16.48
KINLOCHLEVEN	33	13.04	5.28	1.08	8.54	0.72	0.5	0	0.7
KINTORE	33	44.31	16.92	7.47	31.4	3.43	2.37	0	3.36
KINTORE	132	36.5	14.47	6.28	26.75	44.43	17.55	8.37	33.18
KINTORE	275	58.72	23.66	10.79	44.26	54.41	22.02	9.92	41.06
LAIRG	33	23.53	9.78	0.6	14.43	0	0.78	0	1.1
LUNANHEAD	33	25.54	9.8	3.59	17.46	2.16	1.49	0	2.11
LYNDHURST	33	30	11.59	3.81	20.21	2.92	2.03	0	2.86
MACDUFF	33	16.01	7.02	0.32	10.25	2.33	1.61	0	2.28
MILTON OF CRAIGIE	33	28.91	11.07	4.42	20.07	3.26	2.26	0	3.2
MILTON OF CRAIGIE	132	31.95	13.74	3.04	22.47	36.17	15.58	3.51	25.54
MYBSTER	33	52.73	21.41	3.4	33.68	3.27	2.26	0	3.2
NAIRN	33	23.11	9.41	0.76	14.07	2.99	2.08	0	2.94
PERSLEY	33	26.14	9.98	3.08	17.2	0.58	0.4	0	0.57
PERSLEY	132	33.88	13.77	4.72	24.19	42.57	17.31	6.4	30.88
PERSLEY	275	36.44	14.68	6.05	26.81	32.87	13.29	6.1	24.89
PETERHEAD	132	41.82	15.42	12.61	34.41	51.62	19.24	14.27	41.48
PETERHEAD	275	61.61	23.53	20.02	53.29	72.62	27.56	24.01	62.99
PETERHEAD GRANGE	33	31.18	11.64	6.84	23.3	2.19	1.52	0	2.15
PORT ANN	33	19.35	8.32	0.3	12.06	1.83	1.27	0	1.79
REDMOSS	33	26.91	10.34	3.12	17.73	2.98	2.07	0	2.92
SHIN	132	15.97	7.62	0.34	11.11	15.11	7.04	0.46	10.41
SLOY	132	42.85	18.73	2.5	28.99	41.08	17.61	2.9	27.79
STRICHEN	33	23.03	9.2	1.08	14.09	2.17	1.5	0	2.12
TARLAND	33	15.96	6.59	0.39	9.71	1.5	1.04	0	1.47
TAYNUILT	33	24.29	10.21	1.14	15.58	2.18	1.51	0	2.14
TEALING	132	35.75	15.09	4.8	26.15	40.86	17.2	5.23	29.55
TEALING	275	50.49	20.59	6.66	35.78	32.7	13.26	5.79	24.55
THURSO	33	32.57	12.74	3.57	21.59	0	1.54	0	2.18
WILLOWDALE	33	31.05	11.79	4.71	21.39	3.02	2.09	0	2.96
WOODHILL	33	29.05	10.86	5.81	21.18	4.46	3.09	0	4.37

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Table D.1.7 - SHETL Fault Levels (kA), Winter 2015/16

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABERNETHY	132	13.41	6.73	0.03	9.55	14.26	6.85	0.16	9.84
ABERNTHY	33	21.21	8.86	0.46	12.99	2.97	2.06	0	2.91
ALNESS	33	41.02	16.81	1.41	25.18	2.18	1.51	0	2.14
ARBROATH	33	23.46	9.33	1.6	14.8	1.54	1.07	0	1.51
ARDMORE	33	8.59	3.8	0.25	5.62	1.05	0.73	0	1.03
BEAULY	33	30.62	11.7	4.68	21.23	1.5	1.04	0	1.47
BEAULY	132	43.57	17.93	6.13	31.48	51.37	20.92	8.62	38.21
BEAULY	275	45.73	18.45	9.3	35.4	46.75	18.64	11.06	37.42
BEAULY	400	25.02	9.71	6.15	19.88	23.96	9.21	6.68	19.7
BLACKHILLOCK	275	49.39	20.52	6.99	36.01	48.31	19.78	9.16	37.13
BOAT OF GARTEN	33	27.36	11.74	0.69	17.29	2.17	1.5	0	2.12
BRACO	33	54.73	20.74	9.91	39.25	2.2	1.53	0	2.16
BRACO	275	38.94	15.3	7.22	28.87	19.98	7.69	4.82	15.7
BRECHIN	132	13.41	6.57	0.12	9.41	13.03	6.08	0.21	8.81
BRIDGE OF DUN	33	32.68	13.86	0.51	20.11	2.16	1.5	0	2.12
BROADFORD	33	7.67	3.2	0.26	4.79	0.75	0.52	0	0.73
BRORA	33	6.17	2.38	0.62	3.99	0	0	0	0
BURGHMUIR	33	21.57	9.25	0.3	13.37	2.2	1.52	0	2.15
BURGHMUIR	132	11.52	5.85	0.02	8.3	12.7	6.12	0.12	8.77
CARRADALE	33	25.1	10.84	1.02	16.35	2.15	1.49	0	2.11
CASSLEY	33	10.07	4.3	0.26	6.34	1.12	0.77	0	1.1
CHARLESTON	33	28.25	10.66	5.52	20.59	1.57	1.09	0	1.54
CHARLESTON	132	32.89	14.17	2.91	22.96	37.44	16.19	3.31	26.2
CLAYHILLS	33	28.58	11.11	2.63	18.34	3.01	2.09	0	2.95
COUPAR ANGUS	33	29.55	11.69	2.29	18.82	2.16	1.5	0	2.12
COUPAR ANGUS	132	18.04	8.63	0.3	12.5	17.45	8.11	0.6	12.07
CRAIGIEBUCKLER	33	25.65	9.96	2.36	16.45	1.54	1.07	0	1.51
CRAIGIEBUCKLER	132	34.32	14.02	3.3	23.14	42.47	17.54	3.44	28.25
DOUNREAY	132	22.84	9.37	2.89	16.15	24.81	10.13	3.45	17.77
DOUNREAY	275	15.45	6.32	2.46	11.39	15.12	6.15	2.64	11.34
DUDHOPE	33	31.11	11.96	4.46	21.38	2.88	1.99	0	2.82
DUNBEATH	33	25.87	10.75	0.69	15.89	1.1	0.76	0	1.08
DUNOON	33	13	5.6	0.62	8.54	1.08	0.75	0	1.06
DUNVEGAN	33	34.67	14.44	0.98	21.4	2.18	1.51	0	2.14
DYCE	33	28.32	11.07	2.42	18.08	2.98	2.07	0	2.92
ELGIN	33	24.32	9.65	1.5	15.15	1.82	1.26	0	1.78
ERROCHTY	132	42.07	17.38	6.71	31.28	39.79	16.44	6.41	29.66
ERROCHTY	275	28.09	11.08	5.3	20.97	20.69	8.19	4.62	16.21
ERROCHTY	400	18.65	7.17	4.45	14.6	8.79	3.59	1.2	6.27
FASNAKYLE	275	33.19	13.21	6.47	25.16	27.75	11.08	5.5	21.16
FIDDES	33	6.99	2.6	1.38	5.05	0.73	0.51	0	0.71
FIDDES	132	11.77	6	0.01	8.5	11.85	5.7	0.06	8.12
FORT AUGUSTUS	132	41.1	15.5	10.3	32.22	47.36	17.92	12.03	37.37
FORT AUGUSTUS	275	29.52	11.65	5.98	22.46	24.38	9.6	5.48	19.07
FORT AUGUSTUS	400	21.58	8.34	5.21	17.01	16.56	6.47	4.08	13.23

FORT WILLIAM	132	7.71	3.77	0.15	5.48	7.84	3.63	0.47	5.61
FOYERS	275	32.3	13.7	4.79	24.16	29.06	12.06	5.41	22.47
FRASERBURGH	33	16.49	7.15	0.14	10.25	1.52	1.05	0	1.49
FT AUGUSTUS	33	23.02	9.34	0.78	13.98	2.14	1.48	0	2.1
FT WILLIAM	33	20.46	8.48	0.63	12.62	0.87	0.6	0	0.85
INVERARY	132	28.3	13.1	0.78	19.32	26.6	12.2	0.66	17.92
INVERNESS	33	33.29	12.41	6.56	24.11	3.27	2.27	0	3.21
KEITH	33	33.32	13.15	6.98	25.57	3	2.08	0	2.94
KEITH	132	30.67	12.5	6	23.68	36.29	14.58	7.9	28.53
KEITH	275	47.12	19.5	6.71	34.29	45.02	18.42	8.26	34.32
KILLIN	33	25.94	10.32	1.95	16.55	2.18	1.51	0	2.14
KILLIN	132	22.38	10.63	0.56	15.6	24.08	10.98	0.94	16.48
KINLOCHLEVEN	33	13.04	5.28	1.08	8.55	0.72	0.5	0	0.7
KINTORE	33	44.32	16.92	7.47	31.4	3.42	2.37	0	3.36
KINTORE	132	36.56	14.5	6.28	26.79	44.48	17.57	8.37	33.22
KINTORE	275	58.79	23.69	10.79	44.3	54.45	22.03	9.92	41.08
LAIRG	33	23.53	9.78	0.6	14.43	0	0.78	0	1.1
LUNANHEAD	33	25.58	9.81	3.59	17.47	2.16	1.49	0	2.11
LYNDHURST	33	30.04	11.61	3.81	20.22	2.92	2.03	0	2.86
MACDUFF	33	16.02	7.03	0.32	10.25	2.33	1.61	0	2.28
MILTON OF CRAIGIE	33	28.95	11.08	4.42	20.09	3.26	2.26	0	3.2
MILTON OF CRAIGIE	132	32.15	13.83	3.03	22.59	36.35	15.66	3.5	25.64
MYBSTER	33	52.73	21.41	3.4	33.68	3.27	2.26	0	3.2
NAIRN	33	23.12	9.41	0.76	14.08	2.99	2.08	0	2.94
PERSLEY	33	26.13	9.98	3.08	17.19	0.58	0.4	0	0.57
PERSLEY	132	33.96	13.8	4.72	24.24	42.64	17.35	6.4	30.93
PERSLEY	275	36.48	14.7	6.05	26.84	32.89	13.3	6.1	24.91
PETERHEAD	132	41.82	15.42	12.6	34.42	51.62	19.24	14.27	41.48
PETERHEAD	275	61.64	23.54	20.02	53.32	72.66	27.58	24.01	63.02
PETERHEAD GRANGE	33	31.18	11.64	6.84	23.3	2.19	1.52	0	2.15
PORT ANN	33	19.32	8.31	0.3	12.05	1.83	1.27	0	1.79
REDMOSS	33	26.91	10.34	3.12	17.74	2.98	2.06	0	2.92
SHIN	132	15.97	7.62	0.34	11.11	15.11	7.04	0.46	10.41
SLOY	132	42.86	18.74	2.49	29	41.06	17.6	2.89	27.78
STRICHEN	33	23.02	9.19	1.08	14.08	2.17	1.5	0	2.12
TARLAND	33	15.96	6.59	0.39	9.71	1.5	1.04	0	1.47
TAYNUILT	33	24.24	10.19	1.14	15.55	2.17	1.51	0	2.13
TEALING	132	36.02	15.22	4.79	26.32	41.1	17.31	5.22	29.7
TEALING	275	50.56	20.61	6.66	35.82	32.72	13.27	5.79	24.56
THURSO	33	32.57	12.74	3.57	21.59	0	1.54	0	2.18
WILLOWDALE	33	31.05	11.8	4.71	21.39	3.02	2.09	0	2.96
WOODHILL	33	29.05	10.87	5.81	21.18	4.46	3.09	0	4.37

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Table D.2.1 - SPT Fault Levels (kA), Winter 2009/10

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
AUCH2-	275	9.55	3.9	0.99	6.5	6.95	2.98	0.47	4.69
AYR-3-	33	43.69	15.43	9.14	30.96	5.84	4.05	0	5.72
BAGA3-	33	27.56	9.91	2.81	16.82	4.29	2.97	0	4.19
BAIN1-	132	30.76	12.51	2.95	20.64	31.8	13.31	3.04	21.86
BAIN3-	33	34.7	12.87	4.21	22.4	2.98	2.06	0	2.92
BERW1Q	132	10.81	5	0.29	7.36	11.11	5.1	0.49	7.7
BERW1R	132	10.79	4.99	0.28	7.34	11.02	5.09	0.33	7.52
BERW3-	33	25.55	10.22	1.23	15.69	4.45	3.08	0	4.35
BLLA3A	33	30.23	11.28	5.48	21.43	2.23	1.54	0	2.18
BLLA3B	33	30.25	11.28	5.48	21.44	2.23	1.54	0	2.18
BONN1-	132	40.37	15.97	6.26	28.85	48.63	19.76	7.9	35.85
BONN2-	275	54.35	20.26	10.54	39.18	44.28	17.32	8.14	32.64
BONN3-	33	40.41	14.78	4.64	25.54	2.84	1.97	0	2.79
BPGR3-	33	98.95	38.4	16.88	71.19	7.6	4.27	2.68	8.72
BRAP1-	132	29.64	11.72	3.01	19.58	32.73	13.67	2.95	22.28
BRAP3-	33	28.97	10.46	4.72	19.51	4.34	3.01	0	4.25
BROX3-	33	25.68	9.06	3.08	15.9	4.28	2.96	0	4.19
BUSB2-	275	53.76	20.08	9.37	37.77	49.2	19.43	7.16	34.65
CAFA5-	11	37.58	15.07	2.61	23.92	13.67	5.35	2.33	9.88
CATY0J	25	10.1	3.68	2.95	8.15	0.33	0.17	0	0.24
CATY0K	25	10.1	3.68	2.95	8.15	0.33	0.17	0	0.24
CATY1Q	132	21.84	8.03	3.7	15.06	21.97	8.94	2.16	14.8
CATY1R	132	21.84	8.04	3.7	15.06	21.97	8.94	2.17	14.81
CATY3-	33	29.09	10.27	4.64	19.17	2.95	2.04	0	2.89
CHAP1-	132	28.12	11.62	1.09	17.52	29.47	12.62	1.49	19.34
CHAP3-	33	39.89	15.06	4.08	25.38	4.52	3.14	0	4.44
CHAS3-	33	47.73	16.91	10.13	34.05	5.88	4.07	0	5.76
CLYM2-	275	76.19	27.33	16.89	55.55	72.59	27.68	14.36	53.51
CLYM3-	33	48.52	16.97	11.26	35.27	5.88	4.07	0	5.76
COAL1-	132	23.05	8.39	6.9	18.76	29.76	10.91	9.12	24.56
COAL4-	400	44.5	16.99	8.12	32.14	37.28	14.78	6.66	27.56
COAT3-	33	39.83	13.68	11.71	31.05	5.81	4.03	0	5.69
COCK2-	275	77.64	27.77	19.93	59.2	81.1	30.02	21.7	64.16
COCK3-	33	49.51	17.63	11.59	36.53	5.92	4.1	0	5.8
COYL1-	132	28.21	11.52	4.97	21.26	33.82	13.81	6.44	25.98
COYL2-	275	30.55	11.52	6.66	22.95	30.61	11.92	6.42	23.28
COYL3-	33	37.39	14.35	4.46	24.75	2.98	2.07	0	2.92
CROO3J	33	33.6	12.34	3.44	20.9	2.98	2.06	0	2.92
CROO3K	33	29.43	11.01	3.38	18.94	2.98	2.06	0	2.92
CRYR1-	132	18.2	6.71	4.96	14.45	22.63	8.32	6.59	18.35
CRYR4-	400	47.04	17.4	12.03	36.64	46.15	17.51	10.93	35.7
CUMB3-	33	31.83	11.81	3.44	20.14	4.38	3.03	0	4.29
CUPA3-	33	29.73	11.63	0.35	16.8	2.95	2.04	0	2.88

CURR1-	132	26.4	9.23	7.71	20.77	33.57	12.26	9.46	26.8
CURR2-	275	68.87	25.42	13.42	49.37	62.78	24.5	11.47	46.12
CURR5-	11	33.68	12.08	6.25	23.34	4.42	3.07	0	4.34
DALL2-	275	29.77	10.82	5.95	21.25	26.59	10.17	4.83	19.21
DALM1-	132	24.28	8.61	6.88	19.05	26.17	9.69	6.21	19.92
DEVM0J	25	8.26	3.01	2.57	6.82	0.09	0.06	0	0.08
DEVM0K	25	8.26	3.01	2.57	6.82	0.09	0.06	0	0.08
DEVM1-	132	31.17	11.87	7.92	24.71	37.74	14.64	9.66	30.36
DEVM3-	33	34.86	12.93	4.71	22.99	2.97	2.06	0	2.91
DEVM4-	400	37.59	13.92	8.26	27.94	33.49	12.92	6.77	25.04
DEVO1-	132	21.97	9.52	0.69	14.16	21.49	9.39	1.26	14.54
DEVO3-	33	29.67	11.04	2.41	18.03	4.37	3.03	0	4.28
DEWP3-	33	49.97	17.3	10.9	35.37	5.87	4.07	0	5.76
DRCR3-	33	24.03	9.21	2.25	15.28	4.34	3.01	0	4.25
DRUM3-	33	48.47	16.96	10.84	34.82	5.88	4.07	0	5.76
DUMF1-	132	18.87	8.02	0.43	11.78	22.52	9.61	0.75	14.34
DUMF3-	33	44.42	17.48	1.52	26.24	4.48	3.11	0	4.4
DUMF3I	33	17.77	6.75	1.65	11.19	1.49	1.03	0	1.46
DUMF5-	11	34.68	12.69	3.77	21.72	4.4	3.05	0	4.31
DUNB3-	33	47.83	18.46	3.76	29.86	2.94	2.04	0	2.88
DUNE1-	132	17.46	7.32	0.87	11.23	18.91	7.99	1.33	12.63
DUNE3-	33	40.03	15.73	3.08	25.32	4.35	3.02	0	4.27
DUNF3-	33	30.41	11.18	3.75	19.57	4.37	3.03	0	4.28
EAST5-	11	23.32	9	2.68	15.4	11.92	4.54	2.17	8.58
ECCF0J	25	15.64	5.88	2.39	10.71	0.15	0.08	0	0.11
ECCF0K	25	18.97	7.2	2.46	12.63	0.15	0.08	0	0.11
ECCF1J	132	17.74	8.14	0.1	11.61	15.97	7.49	0.12	10.72
ECCF1K	132	17.72	8.13	0.1	11.6	15.96	7.49	0.12	10.71
ECCL1-	132	28.35	10.67	8.16	23.25	36.43	13.86	10.71	30.32
ECCL3-	33	32.73	12.45	5.29	22.9	4.56	3.15	0	4.46
ECCL4-	400	53.9	20.1	12.74	41.16	47.6	18.47	9.42	35.55
EERH2-	275	67.96	24.62	14.54	49.37	61.65	23.72	11.36	44.91
EERH3-	33	52.35	18	12.9	38.36	5.88	4.07	0	5.76
EKIL3-	33	52.2	18.16	14.13	39.81	5.89	4.08	0	5.78
EKIS2-	275	65.81	23.79	13.06	46.71	64.69	24.93	10.63	45.89
EKIS3-	33	39.91	14.2	10.16	30.24	5.89	4.08	0	5.77
ELDE3-	33	37.43	13.69	4.88	24.24	2.99	2.07	0	2.93
ELVA0J	25	18.76	6.65	8.96	18.37	0.13	0.07	0	0.1
ELVA0K	25	18.76	6.65	8.96	18.37	0.13	0.07	0	0.1
ELVA4-	400	47.95	18.43	8.35	34.41	34.17	13.97	4.12	23.87
ERSK3-	33	22.54	8.49	1.68	13.69	1.5	1.04	0	1.47
FIFE1-	132	28.85	11.44	5.18	21.36	32.38	13.12	5.78	24.34
FIFE1B	132	35.28	13.69	5.13	24.5	39.15	16	5.19	27.82
GALA1-	132	18.89	8.15	0.34	11.87	19.18	8.45	0.62	12.57
GALA3-	33	31.61	12.31	1.32	18.72	2.18	1.51	0	2.14
GIFF3-	33	49.41	17.46	9.77	34.47	5.89	4.08	0	5.77
GLLE1-	132	12.39	5.78	0.52	8.68	13.32	6.22	0.57	9.36
GLLE5-	11	42.55	15.86	8.51	30.94	34.49	12.85	7.56	25.73
GLLU3-	33	20.38	9.05	0.13	12.92	3.45	2.39	0	3.38
GLNI1-	132	43.62	16.71	6.24	29.87	51.04	20.49	6.38	35.35
GLNI3-	33	29.42	10.67	6.16	21.25	4.38	3.04	0	4.3
GLRO2-	275	43.54	16.88	5.85	29.72	36.14	14.54	5.34	25.9
GLRO3-	33	37.41	13.23	8.97	27.68	5.81	4.03	0	5.69
GORG3-	33	26.8	9.5	5.02	18.46	2.96	2.05	0	2.9
GOVA3-	33	34.71	12.97	3.52	21.86	2.98	2.06	0	2.92

GRMO2-	275	50.42	19.19	9.36	36.5	43.84	17.29	8.22	32.68
GRMO3A	33	40.54	14.2	9.55	29.62	5.82	4.03	0	5.7
GRMO3C	33	40.63	14.22	9.7	29.81	5.82	4.03	0	5.7
GRNA1-	132	34.53	13.28	7.17	25.94	44.48	17.22	10.12	34.48
GRNA4-	400	45.89	18.07	6.91	32.47	40.61	16.17	7.3	30.16
HAGR3-	33	34.44	12.81	2.93	21.06	2.96	2.05	0	2.9
HAWI1-	132	9.17	4.52	0.01	6.4	10.1	4.76	0.07	6.8
HAWI3-	33	19.03	7.89	0.14	11.29	2.88	2	0	2.82
HELE1-	132	15.81	7.55	0.05	10.73	16.93	7.94	0.21	11.43
HELE3-	33	26.52	10.88	0.51	15.9	2.95	2.04	0	2.89
HUER1-	132	26.78	9.77	8.32	22.14	33.68	12.54	10.12	27.86
HUER4-	400	50.01	17.94	13.3	38.68	54.13	19.93	15.4	43.59
HUNF3-	33	36.93	13.73	6.46	25.88	2.98	2.07	0	2.93
INKE3-	33	29.38	10.79	2.14	17.41	4.32	2.99	0	4.22
INKI4-	400	42.72	15.76	9.55	31.84	35.78	13.96	6.34	26.07
INWI0J	25	10.84	3.94	3.33	8.9	0.12	0.07	0	0.09
INWI0K	25	10.84	3.94	3.33	8.9	0.12	0.07	0	0.09
INWI1Q	132	28.06	10.41	6.74	21.47	33.95	12.72	7.8	25.79
INWI1R	132	28.06	10.41	6.74	21.47	33.95	12.72	7.8	25.79
JOHN3-	33	34.37	12.52	4.33	22.04	2.96	2.05	0	2.9
KAIM2-	275	74.04	27.06	15.33	53.59	74.8	28.61	14.79	55.26
KAIM3-	33	52.06	18.28	11.04	36.89	5.91	4.06	0	5.75
KEOO1-	132	12.7	5.96	0.48	8.91	13.21	6.18	0.56	9.3
KEOO5-	11	36.46	13.79	5.7	25.2	28.16	10.64	4.99	20.04
KIER3-	33	33.94	12	5.28	22.25	4.37	3.02	0	4.27
KILB3-	33	32.41	11.91	5.25	22.08	2.99	2.07	0	2.93
KILB5-	11	28.3	10.32	4.06	18.66	2.97	2.06	0	2.91
KILS2-	275	35.68	13.2	9.18	27.85	40.32	15.23	10.6	32.13
KILS3-	33	38.31	13.69	9.47	28.83	5.85	4.05	0	5.73
KILS4-	400	40.5	15.3	7.49	29.13	39.73	15.42	7.88	29.68
KILT3-	33	47.86	16.69	9.97	33.57	5.86	4.06	0	5.74
KILW3-	33	28.64	10.76	4.42	19.63	4.38	3.04	0	4.29
KINC2-	275	66.78	24.56	17.45	52.19	58.98	22.62	14.07	46.06
LAMB2-	275	59.33	21.94	10.91	41.94	51.86	20.23	8.95	37.55
LEVE3-	33	31.3	12.12	0.94	18.07	2.96	2.05	0	2.9
LING3-	33	30.3	11	2.76	18.31	4.33	3	0	4.24
LINM3-	33	35.94	13.22	6.08	24.77	4.42	3.06	0	4.33
LOAN2-	275	107.26	37.14	30.36	82.88	110.91	40.13	33.19	89.95
MARM0J	25	9.57	3.61	1.67	6.78	0.15	0.08	0	0.11
MARM0K	25	9.56	3.61	1.66	6.77	0.15	0.08	0	0.11
MAYB1-	132	18.43	8.33	0.48	12.26	18.49	8.37	0.78	12.62
MAYB3-	33	21.7	8.47	1.18	13.16	1.49	1.03	0	1.46
MEAD1-	132	15.4	6.28	0.96	9.84	16.45	6.79	1.84	11.45
MOSH5J	11	61.69	23.42	5.66	38.78	2.79	1.94	0	2.74
MOSH5K	11	61.72	23.43	5.69	38.82	2.79	1.94	0	2.74
MOSM1-	132	43.47	16.59	6.84	30.3	52.8	20.88	8.59	38.12
MOSM2Q	275	54.56	20.73	8.44	37.75	45.71	18.13	7.91	33.55
MOSM3Q	33	30.06	11.87	1.99	18.78	2.25	1.56	0	2.2
MOSM3R	33	30.06	11.87	1.99	18.78	2.25	1.56	0	2.2
NEAR2Q	275	53.04	19.89	8.85	36.97	47.93	18.89	7.64	34.36
NEAR3-	33	51.8	18.21	10.33	36.08	5.87	4.07	0	5.75
NEIL1-	132	44.58	16.6	10.37	33.85	55.66	21.56	12.86	43.36
NEIL2-	275	61.19	22.46	12.87	44.63	59.52	22.78	12.97	45.19
NETS1-	132	8.59	4.15	0.1	5.97	9.28	4.44	0.14	6.42
NETS3-	33	10.19	4.41	0.25	6.49	2.13	1.44	0	2.04

PAIS3-	33	35.7	13.08	5.43	23.93	2.97	2.06	0	2.91
PART3-	33	34.53	12.73	3.63	21.63	2.96	2.05	0	2.9
POOB0J	25	18.62	6.77	5.63	15.2	0.24	0.12	0	0.18
POOB0K	25	18.62	6.76	5.63	15.2	0.24	0.12	0	0.18
POOB3-	33	51.63	17.94	13.62	38.98	5.19	3.6	0	5.09
PORD3-	33	51.6	18.06	12.14	37.68	5.91	4.09	0	5.79
RAVE3-	33	37.35	13.48	9.49	28.56	5.87	4.07	0	5.75
REDH1-	132	30.24	12.77	0.71	18.76	32.33	14.16	1.08	21.1
REDH3-	33	31.48	11.68	2.65	19.16	3.68	2.55	0	3.6
SACO0J	25	10.26	3.76	2.83	8.15	0.34	0.17	0	0.25
SACO0K	25	10.27	3.76	2.8	8.12	0.34	0.18	0	0.25
SACO1Q	132	18.1	6.99	2.42	12.31	20.4	8.11	2.52	13.99
SACO1R	132	17.96	6.99	2.23	12.11	20.43	8.12	2.42	13.91
SACO3J	33	34.78	13.12	4.21	22.77	4.19	2.89	0	4.09
SACO3K	33	34.31	13.02	4.04	22.45	4.18	2.88	0	4.07
SANX0J	25	16.52	6.03	4.41	12.94	0.44	0.23	0	0.33
SANX0K	25	16.52	6.03	4.41	12.94	0.45	0.23	0	0.33
SANX1Q	132	21.55	8.04	3.02	14.39	21.79	8.89	2.11	14.68
SANX1R	132	21.55	8.04	3.02	14.39	21.81	8.89	2.12	14.69
SANX3-	33	31.55	11.18	4.79	20.6	2.97	2.06	0	2.91
SHRU3-	33	45.26	16.17	10.09	32.95	5.9	4.09	0	5.79
SIGH3-	33	50.56	17.51	10.66	35.41	5.86	4.06	0	5.74
SMEA1-	132	19.56	7.63	4.91	15.69	22.91	8.89	6.28	18.86
SMEA2-	275	74.75	27.18	16.82	55.26	77.47	29.34	16.59	58.08
SPAV3-	33	27.26	9.98	3.6	17.7	4.34	3	0	4.25
STHA2-	275	81.52	28.95	19.19	60.13	84.12	31.65	18.49	63.25
STHA3-	33	46.67	16.53	11.33	34.71	5.92	4.11	0	5.81
STHA4-	400	57.32	21.32	12.17	42.33	51.75	20.04	10.9	39.24
STIR3-	33	34.18	12.32	4.7	22.12	4.36	3.02	0	4.27
STLE0J	25	10.14	3.77	2	7.33	0.26	0.14	0	0.19
STLE0K	25	10.14	3.77	2	7.33	0.26	0.14	0	0.19
STLE1-	132	19.17	8.82	0.08	12.56	19.75	9.11	0.45	13.33
STLE3S	33	28.64	10.66	1.25	16.32	2.95	2.04	0	2.88
TELR3-	33	28.81	10.5	2.99	17.83	2.95	2.05	0	2.89
TODD3-	33	27.67	11.85	0.41	17.17	4.22	2.93	0	4.14
TONG1-	132	10.61	4.92	0.43	7.39	14.12	6.44	0.73	9.83
TONG5-	11	79.13	30.92	6.49	50.21	50.07	19.34	7.03	34.38
TORN1-	132	28.75	10.55	8.11	23.03	35.32	13.01	10.38	28.78
TORN4-	400	55.41	20.35	14.52	43.3	59.51	22.13	17.05	48.34
WFIE1A	132	32.06	12.83	5.75	23.9	35.8	14.54	6.88	27.45
WFIE1B	132	40.97	15.95	5.86	28.41	45.49	18.48	6.97	33.11
WFIE2-	275	59.63	22.49	9.6	41.4	51.69	20.36	9.3	38.09
WFIE3-	33	41.71	15.49	5.24	27.15	3	2.08	0	2.94
WGEO3-	33	50.14	17.6	10.06	34.95	5.86	4.06	0	5.74
WHHO3-	33	46.52	16.41	10.65	33.86	5.87	4.07	0	5.75
WHTL3-	33	24.56	9.89	0.73	14.71	2.23	1.55	0	2.19
WISH0J	25	20.76	7.53	6.35	17	0.07	0.05	0	0.07
WISH0K	25	20.78	7.53	6.35	17.01	0.12	0.06	0	0.09
WISH1-	132	16.45	6.02	4.77	13.29	19.94	7.33	5.89	16.26
WISH2-	275	64.13	23.72	11.52	45.06	62.03	24.14	10.95	45.09
WISH3-	33	50.86	17.86	11.04	36.29	5.88	4.07	0	5.76
WIYH1-	132	40.88	15.32	9.02	30.69	51.12	19.72	11.66	39.55
WIYH2-	275	61.68	22.54	12.69	44.57	61.86	23.5	13.41	46.64
WLEE2-	275	57.4	21.45	8.34	38.68	49.8	21.55	10.11	40.59
WLEE3A	33	54.17	15.64	10.48	32.6	3.01	2.08	0	2.94

WLEE3B	33	54.36	15.72	10.48	32.71	3.01	2.08	0	2.94
WLEE3C	33	53.67	15.55	10.42	32.41	3	2.08	0	2.94

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Table D.2.2 - SPT Fault Levels (kA), Winter 2010/11

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ANDE1-	132	13.63	5.84	0.42	8.68	15.81	6.87	0.6	10.31
ANDE3-	33	25.3	9.87	1.97	15.93	1.48	1.03	0	1.45
AREC1-	132	13.25	5.12	1.77	9.01	15.45	6.01	2.4	10.91
AREC3A	33	32.79	12.56	4.24	22	2.25	1.56	0	2.21
AREC3B	33	32.79	12.56	4.24	22	2.25	1.56	0	2.21
AUCH2-	275	11.85	4.81	1.4	8.2	10.34	4.28	1.33	7.38
AUCO1-	132	10.04	4.13	0.52	6.36	11.85	4.91	0.74	7.68
AUCO3-	33	23.52	9.13	2.03	14.94	1.48	1.02	0	1.45
AYR-3-	33	46.84	16.79	9.4	33.14	5.87	4.07	0	5.76
BAGA3-	33	31.63	11.77	2.84	19.48	4.21	2.91	0	4.12
BAIN1-	132	31.83	13.11	2.83	21.37	32.53	13.68	2.95	22.3
BAIN3-	33	34.96	12.99	4.17	22.55	2.97	2.06	0	2.91
BERW1Q	132	11.76	5.48	0.31	8.06	11.56	5.33	0.51	8.05
BERW1R	132	11.77	5.48	0.34	8.09	11.51	5.33	0.36	7.9
BERW3-	33	37.04	15.23	1.28	22.82	4.5	3.11	0	4.4
BLLA3A	33	30.25	11.29	5.49	21.45	2.23	1.54	0	2.18
BLLA3B	33	30.27	11.29	5.48	21.45	2.23	1.54	0	2.18
BONN1-	132	42.29	16.97	6.23	30.23	50.43	20.62	7.86	37.02
BONN2-	275	55.57	20.86	10.56	40.07	44.82	17.59	8.16	33.03
BONN3-	33	40.7	14.91	4.62	25.71	2.84	1.97	0	2.78
BPGR3-	33	99.05	38.44	16.89	71.26	7.6	4.27	2.68	8.71
BRAP1-	132	29.93	11.88	3.02	19.82	33.01	13.81	2.98	22.51
BRAP3-	33	29.15	10.53	4.74	19.63	4.38	3.03	0	4.29
BROX3-	33	25.72	9.08	3.08	15.92	4.28	2.96	0	4.19
BUSB2-	275	55.24	20.8	9.41	38.82	50.09	19.86	7.14	35.23
CAFA5-	11	37.78	15.15	2.61	24.04	13.69	5.35	2.33	9.9
CATY0J	25	10.12	3.69	2.95	8.17	0.33	0.17	0	0.24
CATY0K	25	10.12	3.69	2.95	8.17	0.33	0.17	0	0.24
CATY1Q	132	21.95	8.09	3.71	15.15	22.05	8.98	2.16	14.87
CATY1R	132	21.95	8.09	3.71	15.15	22.06	8.98	2.17	14.87
CATY3-	33	29.17	10.3	4.66	19.22	2.95	2.05	0	2.89
CHAP1-	132	28.86	12.01	1.1	18.08	28.56	12.26	1.58	18.92
CHAP3-	33	40.09	15.14	4.22	25.63	4.5	3.12	0	4.41
CHAS3-	33	47.9	16.99	10.16	34.19	5.89	4.08	0	5.77
CLYM2-	275	78.86	28.53	17.35	57.69	74.26	28.44	14.59	54.81
CLYM3-	33	48.68	17.04	11.3	35.4	5.88	4.08	0	5.77
CLYN2Q	275	20.22	7.52	6.09	16.73	24.66	9.18	7.68	20.66
CLYN3A	33	51.01	19.2	10.22	37.37	2.99	2.08	0	2.93
CLYN3B	33	51.01	19.2	10.22	37.37	2.99	2.08	0	2.93
CLYN3C	33	51.01	19.2	10.22	37.37	2.99	2.08	0	2.93
CLYN3D	33	51.55	19.42	10.22	37.68	2.99	2.08	0	2.93
CLYS2R	275	17.19	6.35	5.49	14.47	20.76	7.7	6.71	17.6
CLYS3A	33	49.37	18.58	9.9	36.18	2.99	2.07	0	2.93

CLYS3B	33	49.37	18.58	9.9	36.18	2.99	2.07	0	2.93
COAL1-	132	25.78	9.49	7.35	20.77	33.14	12.25	9.73	27.05
COAL4-	400	48.57	18.64	8.93	35.29	42.74	16.87	7.81	31.67
COAT3-	33	39.97	13.74	11.78	31.21	5.82	4.03	0	5.7
COCK2-	275	80.14	28.8	20.94	61.67	82.99	30.84	22.43	66.05
COCK3-	33	49.65	17.69	11.67	36.69	5.93	4.11	0	5.81
COYL1-	132	30.56	12.46	5.36	22.99	36.24	14.74	6.93	27.77
COYL2-	275	34.21	12.97	7.37	25.71	34.78	13.55	7.16	26.33
COYL3-	33	46.14	17.83	4.77	29.99	3	2.08	0	2.94
CROO3J	33	33.64	12.37	3.44	20.94	2.97	2.06	0	2.91
CROO3K	33	31.32	11.76	3.48	20.11	2.95	2.05	0	2.89
CRYR1-	132	18.49	6.82	5.06	14.7	22.94	8.43	6.71	18.63
CRYR4-	400	49.37	18.3	12.44	38.32	47.6	18.09	11.13	36.71
CUMB3-	33	36.26	13.66	3.4	22.72	4.41	3.05	0	4.32
CUPA3-	33	29.93	11.76	0.34	16.97	2.95	2.04	0	2.88
CURR1-	132	26.52	9.28	7.76	20.89	33.71	12.32	9.5	26.92
CURR2-	275	70.67	26.25	13.45	50.57	64.12	25.1	11.5	46.99
CURR5-	11	33.71	12.09	6.26	23.36	4.43	3.07	0	4.34
DALL2-	275	32.43	11.88	6.36	23.17	29.37	11.29	5.28	21.25
DALM1-	132	24.42	8.67	6.93	19.19	26.28	9.74	6.24	20.02
DEVM0J	25	8.24	3	2.56	6.8	0.09	0.06	0	0.08
DEVM0K	25	8.24	3	2.56	6.8	0.09	0.06	0	0.08
DEVM1-	132	31.44	12.01	7.98	24.97	38	14.77	9.71	30.6
DEVM3-	33	34.95	12.98	4.71	23.06	2.97	2.06	0	2.92
DEVM4-	400	38.75	14.46	8.53	28.97	34.17	13.24	6.9	25.62
DEVO1-	132	22.81	9.99	0.68	14.81	22.02	9.65	1.27	14.92
DEVO3-	33	32.58	12.38	2.34	19.84	4.4	3.04	0	4.3
DEWP3-	33	50.13	17.37	10.96	35.52	5.88	4.07	0	5.76
DRCR3-	33	24.37	9.36	2.3	15.53	4.36	3.02	0	4.27
DRUM3-	33	48.6	17.02	10.88	34.96	5.88	4.07	0	5.76
DUMF1-	132	19.62	8.39	0.46	12.32	23.21	9.92	0.79	14.81
DUMF3-	33	47.52	18.91	1.54	28.28	4.51	3.12	0	4.42
DUMF3I	33	18	6.84	1.7	11.37	1.5	1.04	0	1.47
DUMF5-	11	34.78	12.81	3.85	21.97	4.38	3.06	0	4.33
DUNB3-	33	47.96	18.51	3.76	29.94	2.94	2.04	0	2.88
DUNE1-	132	18.23	7.7	0.92	11.8	19.52	8.27	1.39	13.09
DUNE3-	33	42.82	16.88	3.18	27.06	4.38	3.03	0	4.29
DUNF3-	33	33.92	12.77	3.69	21.75	4.4	3.05	0	4.31
EAST5-	11	23.38	9.02	2.7	15.45	11.93	4.54	2.17	8.59
ECCF0J	25	15.7	5.91	2.43	10.78	0.15	0.08	0	0.11
ECCF0K	25	19.07	7.24	2.49	12.73	0.15	0.08	0	0.11
ECCF1J	132	18.08	8.34	0.1	11.9	15.75	7.39	0.14	10.58
ECCF1K	132	18.05	8.33	0.1	11.89	15.74	7.38	0.14	10.57
ECCL1-	132	31.24	11.94	8.58	25.46	39.6	15.21	11.19	32.7
ECCL3-	33	33.82	13.03	5.33	23.76	4.58	3.17	0	4.48
ECCL4-	400	59.08	21.97	14.46	45.53	50.4	19.6	9.96	37.67
EERH2-	275	69.96	25.58	14.88	51.05	62.59	24.21	11.47	45.7
EERH3-	33	52.54	18.08	12.96	38.53	5.89	4.08	0	5.77
EKIL3-	33	52.4	18.24	14.24	40.04	5.9	4.09	0	5.79
EKIS2-	275	67.84	24.76	13.19	48.21	66.13	25.61	10.67	46.88
EKIS3-	33	40.96	14.64	10.1	30.81	5.87	4.07	0	5.75
ELDE3-	33	37.49	13.73	4.89	24.3	2.98	2.06	0	2.92
ELVA0J	25	18.85	6.68	9.06	18.51	0.13	0.07	0	0.1
ELVA0K	25	18.85	6.68	9.06	18.51	0.13	0.07	0	0.1
ELVA2Q	275	20.81	7.69	6.77	17.64	25.4	9.4	8.47	21.76

ELVA2R	275	17.9	6.57	6.2	15.49	21.74	8	7.64	18.95
ELVA4-	400	53.97	20.81	9.68	39.11	48.27	18.94	10.51	37.3
ERSK3-	33	22.56	8.5	1.68	13.7	1.5	1.04	0	1.47
FIFE1-	132	29.71	11.9	5.25	22.08	33.09	13.48	5.83	24.9
FIFE1B	132	36.67	14.44	5.13	25.55	40.28	16.6	5.19	28.66
FINQ3-	33	30.96	11.81	3.97	20.67	4.42	3.06	0	4.33
GALA1-	132	20.27	8.86	0.37	12.9	20.12	8.93	0.67	13.29
GALA3-	33	37.58	14.9	1.32	22.4	2.21	1.53	0	2.17
GIFF3-	33	50.66	17.97	9.82	35.24	5.91	4.09	0	5.79
GLLE1-	132	12.8	5.98	0.54	8.99	13.64	6.36	0.59	9.59
GLLE5-	11	42.62	15.88	8.56	31.02	34.52	12.86	7.59	25.77
GLLU3-	33	22.4	9.87	0.2	14.15	3.47	2.41	0	3.4
GLNI1-	132	45.95	17.91	6.18	31.5	53.13	21.54	6.3	36.76
GLNI3-	33	32.59	12.19	6.08	23.32	4.43	3.07	0	4.34
GLRO2-	275	45.14	17.62	6.06	30.98	36.65	14.8	5.37	26.3
GLRO3-	33	46.92	16.99	9.22	33.25	5.73	3.97	0	5.62
GORG3-	33	26.84	9.52	5.02	18.49	2.96	2.05	0	2.9
GOVA3-	33	34.76	13	3.51	21.91	2.97	2.06	0	2.91
GRMO2-	275	51.07	19.54	9.42	37.05	44.18	17.47	8.23	32.94
GRMO3A	33	40.59	14.22	9.57	29.67	5.82	4.03	0	5.7
GRMO3C	33	40.68	14.24	9.7	29.84	5.82	4.03	0	5.71
GRNA1-	132	35.67	13.8	7.26	26.78	45.46	17.61	10.25	35.16
GRNA4-	400	48.55	19.14	7.33	34.4	42.99	17.12	7.64	31.85
HAGR3-	33	34.64	12.91	2.93	21.18	2.98	2.07	0	2.92
HAWI1-	132	10.03	4.91	0.02	6.97	10.73	5	0.13	7.19
HAWI3-	33	22.7	9.53	0.19	13.66	2.93	2.03	0	2.87
HELE1-	132	16.72	8.15	0.03	11.56	17.66	8.37	0.18	12.02
HELE3-	33	27.09	11.16	0.48	16.27	2.95	2.04	0	2.89
HUER1-	132	26.96	9.84	8.39	22.31	33.87	12.62	10.19	28.04
HUER4-	400	52.11	18.81	13.57	40.17	55.79	20.62	15.74	44.9
HUNF3-	33	37.08	13.79	6.48	25.99	2.99	2.07	0	2.93
INKE3-	33	29.71	10.94	2.15	17.62	4.32	2.99	0	4.23
INKI4-	400	44.36	16.48	9.65	32.96	36.62	14.34	6.35	26.63
INVR2-	275	31.7	12.02	5.23	22.23	26.8	10.76	3.15	18.36
INWI0J	25	10.86	3.95	3.34	8.92	0.13	0.07	0	0.09
INWI0K	25	10.86	3.95	3.34	8.92	0.13	0.07	0	0.09
INWI1Q	132	28.53	10.59	6.88	21.86	34.43	12.9	7.92	26.16
INWI1R	132	28.53	10.59	6.88	21.86	34.43	12.9	7.92	26.16
JOHN3-	33	34.42	12.55	4.33	22.08	2.96	2.05	0	2.9
KAIM1-	132	14.61	5.36	4.18	11.76	18	6.6	5.43	14.77
KAIM2-	275	76.4	28.11	15.47	55.23	77.54	29.72	15.43	57.46
KAIM3-	33	51.88	18.32	11.05	36.96	5.87	4.06	0	5.75
KEOO1-	132	13.07	6.16	0.48	9.19	13.48	6.31	0.56	9.49
KEOO5-	11	36.53	13.81	5.72	25.26	28.19	10.64	5.01	20.06
KIER3-	33	34.19	12.15	5.28	22.47	4.37	3.02	0	4.28
KILB3-	33	32.68	12.07	5.25	22.32	2.99	2.07	0	2.93
KILB5-	11	28.36	10.36	4.06	18.71	2.97	2.06	0	2.91
KILS2-	275	39.34	14.65	9.92	30.63	44	16.68	11.29	34.89
KILS3-	33	38.66	13.82	9.62	29.17	5.84	4.05	0	5.73
KILS4-	400	43.61	16.58	7.99	31.44	42.19	16.45	8.25	31.51
KILT3-	33	48.44	16.92	10.11	34.04	5.85	4.05	0	5.73
KILW3-	33	28.73	10.79	4.43	19.69	4.39	3.04	0	4.31
KINC2-	275	68.05	25.16	17.75	53.33	59.65	22.93	14.19	46.62
LAMB2-	275	61.02	22.77	10.98	43.18	52.86	20.72	9.04	38.35
LEVE3-	33	31.54	12.26	0.92	18.26	2.97	2.05	0	2.9

LING3-	33	30.34	11.01	2.77	18.34	4.33	3	0	4.24
LINM3-	33	40.53	15.32	6.05	27.71	4.42	3.06	0	4.33
LOAN2-	275	110.52	38.72	30.54	85.3	113.24	41.23	33.39	91.7
MAHI1-	132	14.2	5.4	2.45	10.09	17.54	6.67	3.42	12.85
MAHI2-	275	14.58	5.86	1.93	10.22	13.78	5.59	2.31	10.22
MAHI3-	33	42.77	16.47	4.76	28.06	3.02	2.09	0	2.96
MARM0J	25	9.7	3.66	1.77	6.94	0.15	0.08	0	0.11
MARM0K	25	9.7	3.66	1.79	6.95	0.15	0.08	0	0.11
MAYB1-	132	19.11	8.71	0.43	12.74	18.95	8.61	0.74	12.92
MAYB3-	33	21.9	8.56	1.16	13.26	1.49	1.03	0	1.46
MEAD1-	132	15.48	6.32	0.97	9.9	16.51	6.83	1.85	11.5
MOSH5J	11	62.08	23.61	5.64	39.03	2.8	1.94	0	2.74
MOSH5K	11	62.11	23.62	5.67	39.07	2.8	1.94	0	2.74
MOSM1-	132	45.75	17.76	6.84	31.96	55.01	21.96	8.6	39.66
MOSM2Q	275	56.3	21.57	8.6	39.11	46.49	18.5	8.03	34.2
MOSM3Q	33	30.2	11.96	1.97	18.88	2.24	1.55	0	2.19
MOSM3R	33	30.2	11.96	1.97	18.88	2.24	1.55	0	2.19
NEAR2Q	275	54.55	20.63	8.91	38.08	48.77	19.3	7.67	34.96
NEAR3-	33	60.48	21.89	10.14	41.09	5.92	4.1	0	5.8
NEIL1-	132	45.29	16.97	10.53	34.52	56.43	21.93	13.01	44.03
NEIL2-	275	63.06	23.32	13.03	46.01	60.77	23.35	13.06	46.08
NETS1-	132	8.98	4.32	0.13	6.25	9.59	4.56	0.17	6.63
NETS3-	33	10.39	4.49	0.28	6.64	2.14	1.45	0	2.04
PAIS3-	33	35.94	13.18	5.45	24.09	2.99	2.07	0	2.93
PART3-	33	34.66	12.8	3.94	22.04	2.97	2.05	0	2.91
POOB0J	25	18.65	6.78	5.64	15.22	0.24	0.12	0	0.18
POOB0K	25	18.65	6.77	5.64	15.22	0.24	0.12	0	0.18
POOB3-	33	51.79	18	13.7	39.16	5.19	3.6	0	5.09
PORD3-	33	51.72	18.12	12.17	37.79	5.91	4.09	0	5.79
RAVE3-	33	37.47	13.53	9.53	28.67	5.88	4.07	0	5.76
REDH1-	132	31.19	13.39	0.66	19.59	33.05	14.61	1.03	21.69
REDH3-	33	31.72	11.8	2.63	19.32	3.68	2.55	0	3.61
SACO0J	25	10.3	3.77	2.84	8.17	0.34	0.17	0	0.25
SACO0K	25	10.27	3.77	2.8	8.13	0.34	0.18	0	0.25
SACO1Q	132	18.18	7.03	2.42	12.37	20.46	8.14	2.51	14.02
SACO1R	132	18.05	7.03	2.23	12.16	20.49	8.16	2.41	13.94
SACO3J	33	34.86	13.16	4.23	22.84	4.18	2.88	0	4.07
SACO3K	33	34.42	13.07	4.05	22.53	4.19	2.89	0	4.08
SANX0J	25	16.55	6.04	4.42	12.96	0.45	0.23	0	0.33
SANX0K	25	16.55	6.04	4.42	12.97	0.45	0.23	0	0.33
SANX1Q	132	21.66	8.09	3.03	14.47	21.87	8.93	2.11	14.74
SANX1R	132	21.66	8.09	3.03	14.47	21.89	8.93	2.12	14.75
SANX3-	33	31.63	11.21	4.8	20.66	2.97	2.06	0	2.91
SHRU3-	33	45.4	16.22	10.14	33.08	5.91	4.1	0	5.79
SIGH3-	33	50.7	17.56	10.71	35.54	5.86	4.06	0	5.74
SMEA1-	132	20	7.84	4.97	16.05	23.32	9.08	6.35	19.19
SMEA2-	275	77.12	28.22	17.38	57.29	79.59	30.24	17.08	59.85
SPAV3-	33	27.32	10	3.6	17.74	4.34	3.01	0	4.25
STHA2-	275	84.68	30.39	19.59	62.57	86.78	32.81	18.84	65.24
STHA3-	33	48.26	17.2	11.27	35.59	5.89	4.08	0	5.77
STHA4-	400	62.39	23.38	13.21	46.27	56.4	21.91	11.53	42.52
STIR3-	33	34.51	12.45	4.7	22.32	4.39	3.04	0	4.3
STLE0J	25	10.2	3.8	2.03	7.39	0.26	0.14	0	0.19
STLE0K	25	10.23	3.81	2.03	7.41	0.26	0.14	0	0.19
STLE1-	132	20.33	9.55	0.07	13.58	20.59	9.6	0.45	14.02

STLE3S	33	30.77	11.7	1.2	17.74	2.93	2.03	0	2.87
TELR3-	33	28.86	10.52	2.99	17.87	2.95	2.05	0	2.89
TODD3-	33	28.66	12.37	0.38	17.88	4.24	2.94	0	4.16
TONG1-	132	10.78	5.02	0.42	7.52	14.32	6.54	0.72	9.97
TONG5-	11	79.49	31.07	6.47	50.42	50.16	19.38	7.03	34.44
TORN1-	132	29.24	10.74	8.31	23.49	35.84	13.2	10.59	29.27
TORN4-	400	58.8	21.64	15.51	46.11	61.89	23.05	17.97	50.57
WFIE1A	132	33.14	13.44	5.83	24.83	36.68	15	6.96	28.17
WFIE1B	132	42.9	16.99	5.87	29.9	47.05	19.3	7.01	34.31
WFIE2-	275	61.8	23.52	9.69	42.95	52.66	20.82	9.36	38.81
WFIE3-	33	50.36	18.98	5.51	32.35	3.01	2.08	0	2.95
WGEO3-	33	50.64	17.79	10.13	35.28	5.92	4.1	0	5.8
WHHO3-	33	46.66	16.47	10.71	34	5.87	4.07	0	5.76
WHTL3-	33	25.32	10.22	0.71	15.15	2.24	1.55	0	2.2
WISH0J	25	20.81	7.54	6.37	17.04	0.07	0.05	0	0.07
WISH0K	25	20.83	7.55	6.37	17.05	0.12	0.06	0	0.09
WISH1-	132	16.51	6.05	4.79	13.34	20	7.36	5.91	16.31
WISH2-	275	66.25	24.71	11.59	46.54	63.43	24.79	10.97	46.03
WISH3-	33	51.06	17.94	11.08	36.45	5.89	4.08	0	5.77
WIYH1-	132	42.81	16.48	9.28	32.6	53.59	21.18	12.02	41.97
WIYH2-	275	63.88	23.58	13.14	46.49	63.82	24.41	13.86	48.37
WLEE2-	275	58.94	22.24	8.32	39.76	50.65	22.07	10.21	41.42
WLEE3A	33	54.27	15.69	10.52	32.71	3.01	2.08	0	2.94
WLEE3B	33	54.47	15.76	10.52	32.81	3.01	2.08	0	2.94
WLEE3C	33	53.77	15.6	10.46	32.51	3.01	2.08	0	2.94

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Table D.2.3 - SPT Fault Levels (kA), Winter 2011/12

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ANDE1-	132	13.71	5.88	0.42	8.73	15.89	6.91	0.6	10.37
ANDE3-	33	25.34	9.89	1.97	15.95	1.48	1.03	0	1.45
AREC1-	132	13.59	5.26	1.79	9.23	15.76	6.14	2.43	11.12
AREC3A	33	32.96	12.62	4.3	22.15	2.25	1.56	0	2.21
AREC3B	33	32.96	12.62	4.3	22.15	2.25	1.56	0	2.21
AUCH2-	275	12.33	5.02	1.41	8.52	10.75	4.46	1.34	7.66
AUCO1-	132	10.04	4.13	0.52	6.36	11.85	4.91	0.74	7.68
AUCO3-	33	23.51	9.13	2.03	14.94	1.48	1.02	0	1.45
AYR-3-	33	47.69	17.09	9.77	33.94	5.87	4.07	0	5.75
BAGA3-	33	31.66	11.78	2.85	19.5	4.21	2.91	0	4.12
BAIN1-	132	31.92	13.16	2.84	21.45	32.6	13.72	2.96	22.35
BAIN3-	33	35	13.01	4.19	22.59	2.97	2.06	0	2.91
BERW1Q	132	11.78	5.49	0.31	8.08	11.57	5.33	0.51	8.06
BERW1R	132	11.79	5.49	0.34	8.11	11.52	5.34	0.36	7.91
BERW3-	33	37.07	15.24	1.28	22.84	4.5	3.11	0	4.4
BLLA3A	33	30.26	11.29	5.49	21.46	2.23	1.54	0	2.18
BLLA3B	33	30.27	11.3	5.48	21.46	2.23	1.54	0	2.18
BONN1-	132	42.45	17.05	6.27	30.39	50.59	20.69	7.93	37.19
BONN2-	275	56.33	21.19	10.5	40.47	45.25	17.77	8.12	33.26
BONN3-	33	40.74	14.93	4.64	25.75	2.84	1.97	0	2.78
BPGR3-	33	99.2	38.51	16.96	71.42	7.61	4.28	2.68	8.73
BRAP1-	132	14.1	6.12	0.13	8.78	15.37	6.75	0.42	9.97
BRAP3-	33	23.31	8.76	1.07	13.46	4.29	2.97	0	4.2
BROX3-	33	25.7	9.07	3.08	15.91	4.27	2.96	0	4.18
BUSB2-	275	56.72	21.61	9.19	39.76	51.88	20.65	7.29	36.49
CAFA5-	11	37.82	15.17	2.61	24.07	13.69	5.35	2.33	9.9
CATY0J	25	10.11	3.68	2.96	8.16	0.33	0.17	0	0.24
CATY0K	25	10.11	3.68	2.96	8.16	0.33	0.17	0	0.24
CATY1Q	132	22.2	8.19	3.75	15.34	22.23	9.05	2.17	14.97
CATY1R	132	22.2	8.19	3.75	15.34	22.23	9.05	2.18	14.98
CATY3-	33	29.28	10.34	4.68	19.31	2.96	2.05	0	2.9
CHAP1-	132	30.75	12.95	0.99	19.3	29.93	12.93	1.54	19.82
CHAP3-	33	40.65	15.33	4.14	25.82	4.54	3.12	0	4.42
CHAS3-	33	48.22	17.11	10.27	34.47	5.89	4.09	0	5.78
CLYM2-	275	86.09	31.35	18.3	62.64	79.77	30.7	15.03	58.45
CLYM3-	33	48.99	17.16	11.42	35.69	5.89	4.08	0	5.77
CLYN2Q	275	20.47	7.61	6.25	17.02	24.99	9.3	7.88	21.02
CLYN3A	33	51.11	19.23	10.28	37.48	2.99	2.08	0	2.94
CLYN3B	33	51.11	19.23	10.28	37.48	2.99	2.08	0	2.94
CLYN3C	33	51.11	19.23	10.28	37.48	2.99	2.08	0	2.94
CLYN3D	33	51.64	19.45	10.28	37.78	2.99	2.08	0	2.94
CLYS2R	275	17.44	6.44	5.6	14.71	21.08	7.81	6.86	17.91
CLYS3A	33	49.48	18.62	10	36.33	2.99	2.07	0	2.93

CLYS3B	33	49.48	18.62	10	36.33	2.99	2.07	0	2.93
COAL1-	132	26.08	9.59	7.51	21.08	33.5	12.38	9.92	27.42
COAL4-	400	52.94	20.28	9.59	38.27	46.16	18.24	8.17	33.97
COAT3-	33	40.07	13.78	11.84	31.33	5.82	4.03	0	5.7
COCK2-	275	82.5	29.75	20.84	62.92	84.77	31.58	22.29	66.96
COCK3-	33	49.65	17.7	11.67	36.7	5.91	4.1	0	5.8
COYL1-	132	32.01	12.98	5.88	24.23	37.98	15.34	7.59	29.29
COYL2-	275	39.03	14.83	8.35	29.32	41.35	16.06	8.57	31.28
COYL3-	33	46.56	17.95	4.93	30.32	2.99	2.07	0	2.93
CROO3J	33	33.1	12.1	3.55	20.67	2.97	2.06	0	2.91
CROO3K	33	33.15	12.51	3.55	21.24	2.96	2.05	0	2.9
CRYR1-	132	18.35	6.77	5.03	14.6	22.8	8.38	6.67	18.53
CRYR4-	400	52.66	19.59	13.09	40.8	51.14	19.45	12.07	39.57
CUMB3-	33	36.29	13.67	3.4	22.74	4.41	3.05	0	4.32
CUPA3-	33	29.97	11.78	0.34	17.01	2.95	2.04	0	2.88
CURR1-	132	26.57	9.31	7.78	20.94	33.76	12.34	9.53	26.98
CURR2-	275	72.1	26.94	13.6	51.7	65.27	25.62	11.59	47.83
CURR5-	11	33.66	12.08	6.25	23.33	4.42	3.06	0	4.33
DALL2-	275	32.72	11.99	6.45	23.41	29.68	11.4	5.31	21.44
DALM1-	132	24.72	8.79	7.06	19.49	26.53	9.82	6.32	20.21
DERS3-	33	35.69	13.83	3.28	22.85	2.26	1.56	0	2.21
DEVM0J	25	8.2	2.97	2.57	6.77	0.09	0.06	0	0.08
DEVM0K	25	8.2	2.97	2.57	6.77	0.09	0.06	0	0.08
DEVM1-	132	27.79	9.89	7.71	21.7	34.92	12.83	9.46	27.61
DEVM3-	33	33.8	12.26	4.76	22.1	2.98	2.06	0	2.92
DEVM4-	400	39.72	14.8	8.63	29.56	34.89	13.5	6.94	26.04
DEVO1-	132	22.86	10.03	0.67	14.86	22.05	9.68	1.27	14.95
DEVO3-	33	32.6	12.39	2.34	19.86	4.39	3.04	0	4.3
DEWP3-	33	50.15	17.38	10.96	35.54	5.87	4.07	0	5.75
DRCR3-	33	24.39	9.37	2.3	15.55	4.36	3.02	0	4.27
DRUM3-	33	48.75	17.08	10.94	35.09	5.89	4.08	0	5.77
DUMF1-	132	20.22	8.72	0.42	12.75	23.77	10.21	0.75	15.19
DUMF3-	33	48.21	19.24	1.49	28.71	4.5	3.13	0	4.42
DUMF3I	33	18.1	6.89	1.69	11.43	1.49	1.04	0	1.47
DUMF5-	11	35.12	12.88	3.84	22.06	4.42	3.06	0	4.33
DUNB3-	33	47.98	18.52	3.77	29.96	2.94	2.04	0	2.88
DUNE1-	132	18.27	7.72	0.92	11.83	19.54	8.28	1.4	13.11
DUNE3-	33	42.84	16.89	3.19	27.07	4.38	3.03	0	4.29
DUNF3-	33	33.42	12.71	3.68	21.66	4.43	3.05	0	4.31
EAST5-	11	23.39	9.02	2.7	15.46	11.93	4.54	2.17	8.59
ECCF0J	25	15.81	5.95	2.42	10.83	0.15	0.08	0	0.11
ECCF0K	25	19.22	7.3	2.48	12.8	0.15	0.08	0	0.11
ECCF1J	132	18.79	8.78	0.08	12.5	16.14	7.62	0.13	10.9
ECCF1K	132	18.76	8.77	0.08	12.49	16.13	7.61	0.13	10.89
ECCL1-	132	31.31	11.97	8.63	25.57	39.67	15.24	11.23	32.78
ECCL3-	33	33.86	13.05	5.34	23.79	4.58	3.17	0	4.48
ECCL4-	400	65.2	24.31	15.81	50.2	53.51	20.91	10.36	39.94
EERH2-	275	74.73	27.49	15.34	54.21	65.66	25.5	11.58	47.64
EERH3-	33	52.81	18.19	13.1	38.82	5.89	4.08	0	5.77
EHAU3-	33	41.41	16.26	2.8	25.8	2.27	1.58	0	2.23
EKIL3-	33	52.83	18.41	14.47	40.5	5.91	4.1	0	5.8
EKIS2-	275	63.91	23.55	11.97	45.28	62.54	24.25	10.14	44.44
EKIS3-	33	40.87	14.62	10.02	30.69	5.88	4.07	0	5.76
ELDE3-	33	36.65	13.34	5	23.86	2.98	2.06	0	2.92
ELVA0J	25	18.93	6.71	9.12	18.61	0.13	0.07	0	0.1

ELVA0K	25	18.93	6.71	9.12	18.61	0.13	0.07	0	0.1
ELVA2Q	275	21.08	7.79	6.93	17.94	25.77	9.53	8.66	22.13
ELVA2R	275	18.17	6.66	6.37	15.79	22.1	8.12	7.86	19.34
ELVA4-	400	58.66	22.61	10.33	42.3	52.21	20.48	11.33	40.29
ERSK3-	33	20.11	7.62	1.05	11.82	1.49	1.03	0	1.46
EWEH3-	33	33.76	13.06	3.57	22.05	2.26	1.57	0	2.22
FALL1-	132	26.65	9.73	8.33	22.09	34.01	12.4	11.02	28.55
FALL3-	33	61.89	23.89	6.99	40.78	5.53	3.84	0	5.43
FALL4-	400	44.36	16.57	10.85	34.27	41.56	15.89	9.44	31.91
FIFE1-	132	29.83	11.98	5.26	22.19	33.18	13.54	5.84	24.98
FIFE1B	132	37.06	14.64	5.11	25.81	40.59	16.75	5.17	28.86
FINQ3-	33	31.08	11.86	3.98	20.75	4.42	3.06	0	4.33
GALA1-	132	20.31	8.89	0.36	12.93	20.15	8.94	0.66	13.31
GALA3-	33	37.61	14.92	1.32	22.42	2.21	1.53	0	2.17
GIFF3-	33	50.89	18.08	9.83	35.4	5.92	4.1	0	5.8
GLLE1-	132	12.86	6.02	0.53	9.05	13.67	6.39	0.59	9.63
GLLE5-	11	42.63	15.89	8.56	31.03	34.52	12.86	7.59	25.77
GLLU3-	33	22.42	9.88	0.2	14.17	3.47	2.4	0	3.4
GLNI1-	132	46.86	18.29	6.29	32.15	53.95	21.86	6.35	37.28
GLNI3-	33	37.47	14.17	6.06	26.1	4.45	3.09	0	4.36
GLRO2-	275	45.56	17.82	6.03	31.24	36.84	14.89	5.37	26.42
GLRO3-	33	46.93	17	9.22	33.26	5.73	3.97	0	5.62
GORG3-	33	26.82	9.51	5.02	18.47	2.95	2.05	0	2.89
GOVA3-	33	32.68	12.12	3.52	20.65	2.97	2.06	0	2.91
GRMO2-	275	51.64	19.8	9.45	37.46	44.54	17.63	8.27	33.21
GRMO3A	33	40.57	14.21	9.57	29.66	5.81	4.02	0	5.69
GRMO3C	33	40.66	14.23	9.71	29.83	5.81	4.03	0	5.69
GRNA1-	132	40	15.49	7.8	29.7	50.73	19.66	10.98	38.79
GRNA4-	400	50.77	20.03	7.87	36.19	44.67	17.79	7.98	33.14
HAGR3-	33	32.5	11.99	2.96	19.91	2.95	2.04	0	2.89
HARB1-	132	14.86	5.49	3.83	11.6	18.16	6.71	4.96	14.44
HARB2-	275	50.03	19.52	6.77	34.37	40.01	16.34	4.89	28
HARE3-	33	58.85	22.88	5.37	37.73	5.41	3.75	0	5.31
HAWI1-	132	10.25	5.07	0.02	7.19	10.9	5.1	0.12	7.34
HAWI3-	33	22.92	9.65	0.18	13.82	2.92	2.03	0	2.87
HELE1-	132	16.81	8.21	0.03	11.65	17.75	8.42	0.18	12.09
HELE3-	33	27.19	11.21	0.47	16.33	2.96	2.05	0	2.9
HLAW3-	33	28.29	10.81	3.67	18.96	2.21	1.53	0	2.17
HUER1-	132	29.09	10.75	8.52	23.73	36.1	13.56	10.31	29.49
HUER4-	400	54.6	19.77	13.9	41.86	58	21.45	16.06	46.4
HUNF3-	33	43.48	16.39	6.59	29.77	3	2.08	0	2.94
INKE3-	33	29.78	10.98	2.14	17.67	4.33	3	0	4.24
INKI4-	400	46.02	17.11	9.88	34.08	37.58	14.72	6.41	27.23
INVR2-	275	31.99	12.13	5.25	22.41	27	10.84	3.14	18.47
INWI0J	25	10.88	3.94	3.35	8.92	0.13	0.07	0	0.09
INWI0K	25	10.88	3.94	3.35	8.92	0.13	0.07	0	0.09
INWI1Q	132	28.53	10.6	6.88	21.86	34.42	12.9	7.92	26.16
INWI1R	132	28.53	10.6	6.88	21.86	34.42	12.9	7.92	26.16
JOHN3-	33	33.72	12.23	4.43	21.72	2.96	2.05	0	2.9
KAIM1-	132	14.61	5.37	4.19	11.78	18.01	6.61	5.44	14.78
KAIM2-	275	78.43	28.99	15.73	56.73	80.44	30.82	16.14	59.72
KAIM3-	33	52.23	18.45	11.11	37.21	5.9	4.09	0	5.78
KEOO1-	132	13.13	6.21	0.47	9.25	13.52	6.34	0.56	9.53
KEOO5-	11	36.54	13.82	5.72	25.27	28.19	10.65	5.01	20.06
KIER3-	33	34.33	12.2	5.31	22.56	4.37	3.02	0	4.28

KILB3-	33	32.82	12.12	5.27	22.42	2.99	2.07	0	2.93
KILB5-	11	28.4	10.38	4.06	18.74	2.97	2.06	0	2.91
KILS1-	132	12.83	4.66	4.17	10.76	15.78	5.73	5.39	13.5
KILS2-	275	44	16.43	10.95	34.19	49.48	18.81	12.5	39.1
KILS3-	33	39.26	14.04	9.83	29.69	5.87	4.07	0	5.76
KILS4-	400	47.49	18.11	8.5	34.11	45.8	17.88	8.85	34.14
KILT3-	33	49.35	17.25	10.37	34.77	5.88	4.08	0	5.76
KILW3-	33	29.15	10.98	4.39	19.92	4.4	3.05	0	4.31
KINC2-	275	69.11	25.6	17.99	54.2	60.44	23.24	14.33	47.21
KYLN3-	33	40.81	15.97	2.97	25.56	3.02	2.09	0	2.96
KYLS3-	33	97.13	37	14.01	66.33	8.82	6.11	0	8.64
LAMB2-	275	61.92	23.17	11.03	43.79	53.32	20.94	9.03	38.65
LEVE3-	33	31.59	12.29	0.92	18.29	2.96	2.05	0	2.9
LING3-	33	30.34	11.01	2.76	18.33	4.33	2.99	0	4.23
LINM3-	33	40.66	15.36	6.1	27.82	4.42	3.07	0	4.34
LOAN2-	275	114.51	40.07	32.07	88.73	118.14	42.89	35.48	96.14
MAHI1-	132	14.66	5.58	2.54	10.43	18.04	6.85	3.53	13.23
MAHI2-	275	15.27	6.16	1.95	10.67	14.44	5.88	2.34	10.66
MAHI3-	33	43.09	16.59	4.81	28.28	3.03	2.1	0	2.97
MARM0J	25	9.71	3.66	1.77	6.94	0.15	0.08	0	0.11
MARM0K	25	9.71	3.66	1.79	6.96	0.15	0.08	0	0.11
MAYB1-	132	19.45	8.88	0.41	12.96	19.17	8.74	0.73	13.08
MAYB3-	33	21.97	8.61	1.16	13.34	1.49	1.04	0	1.47
MEAD1-	132	16.09	6.64	0.9	10.3	16.98	7.07	1.81	11.8
MOFF1-	132	32.07	11.95	7.62	24.52	39.84	14.83	10.08	31.05
MOFF4-	400	46.03	17.99	7.52	32.96	35.58	14.34	6.14	26.42
MOSH5J	11	62.19	23.67	5.64	39.11	2.8	1.94	0	2.74
MOSH5K	11	62.22	23.67	5.67	39.15	2.8	1.94	0	2.74
MOSM1-	132	46.57	18.11	6.93	32.55	55.8	22.28	8.71	40.21
MOSM2Q	275	57.14	21.93	8.62	39.63	46.9	18.67	8.07	34.48
MOSM3Q	33	30.36	12	1.97	18.94	2.25	1.55	0	2.2
MOSM3R	33	30.36	12	1.97	18.94	2.25	1.55	0	2.2
NEAR2Q	275	56.86	21.68	8.94	39.6	50.29	19.99	7.68	35.95
NEAR3-	33	60.64	21.96	10.18	41.24	5.92	4.1	0	5.8
NECU1-	132	38.5	14.43	8.06	28.47	47.56	17.86	10.59	35.85
NECU2-	275	33.76	12.92	6.81	25.07	33.31	13.04	6.98	25.42
NEIL1-	132	40.34	14.8	10.53	31.46	51.11	19.46	12.98	40.5
NEIL2-	275	65.28	24.32	13.25	47.65	62.71	24.19	13.26	47.47
NETS1-	132	9	4.34	0.13	6.27	9.6	4.58	0.17	6.64
NETS3-	33	10.39	4.49	0.28	6.64	2.13	1.44	0	2.04
NEWF3-	33	30.31	11.95	2.02	18.91	2.26	1.57	0	2.22
PAIS3-	33	34.46	12.55	5.5	23.25	2.99	2.07	0	2.93
PART3-	33	34.81	12.86	3.95	22.13	2.97	2.06	0	2.91
POOB0J	25	18.62	6.77	5.64	15.2	0.24	0.12	0	0.18
POOB0K	25	18.62	6.77	5.64	15.2	0.24	0.12	0	0.18
POOB3-	33	48.93	16.94	13.4	37.36	5.86	4.06	0	5.75
PORD3-	33	51.69	18.11	12.18	37.8	5.89	4.08	0	5.77
RAVE3-	33	42.34	16.02	4.46	27.12	5.86	4.06	0	5.75
REDH1-	132	31.43	13.54	0.64	19.78	33.23	14.71	1.02	21.82
REDH3-	33	31.77	11.83	2.63	19.35	3.68	2.55	0	3.61
SACO0J	25	10.36	3.8	2.84	8.21	0.34	0.17	0	0.25
SACO0K	25	10.33	3.79	2.8	8.17	0.34	0.18	0	0.25
SACO1Q	132	19.28	7.56	2.36	13.04	21.38	8.58	2.46	14.58
SACO1R	132	19.14	7.55	2.16	12.84	21.43	8.6	2.35	14.51
SACO3J	33	35.72	13.58	4.2	23.4	4.18	2.89	0	4.08

SACO3K	33	38.47	14.98	3.92	25.1	4.22	2.91	0	4.12
SANX0J	25	16.59	6.04	4.44	12.98	0.45	0.23	0	0.33
SANX0K	25	16.59	6.04	4.44	12.99	0.45	0.23	0	0.33
SANX1Q	132	21.89	8.19	3.05	14.64	22.05	9	2.11	14.84
SANX1R	132	21.9	8.19	3.05	14.64	22.07	9	2.12	14.85
SANX3-	33	31.77	11.24	4.83	20.72	2.98	2.04	0	2.89
SHRU3-	33	45.4	16.23	10.15	33.1	5.9	4.09	0	5.78
SIGH3-	33	50.7	17.57	10.69	35.53	5.85	4.05	0	5.73
SMEA1-	132	20.04	7.86	4.98	16.1	23.36	9.1	6.37	19.23
SMEA2-	275	79.28	29.14	17.77	58.98	81.47	31.03	17.44	61.32
SPAV3-	33	26.63	9.57	3.63	17.17	4.34	3	0	4.25
STHA2A	275	81.37	30.02	17.21	59.67	82.38	31.58	16.97	61.62
STHA2B	275	73.92	27.04	16.09	54.33	75.47	28.7	16.07	56.67
STHA3-	33	48.65	17.35	11.46	36	5.9	4.09	0	5.78
STHA4-	400	70.92	26.47	14.86	52.29	65.77	25.43	13.44	49.41
STIR3-	33	34.54	12.47	4.71	22.33	4.39	3.04	0	4.3
STLE0J	25	10.22	3.8	2.06	7.43	0.26	0.14	0	0.19
STLE0K	25	10.28	3.83	2.06	7.47	0.26	0.14	0	0.19
STLE1-	132	20.86	9.81	0.07	13.95	21.07	9.81	0.47	14.34
STLE3S	33	32.81	12.68	1.12	19.06	2.97	2.05	0	2.9
TELR3-	33	28.84	10.51	2.99	17.85	2.95	2.04	0	2.89
TODD3-	33	28.67	12.37	0.38	17.89	4.24	2.94	0	4.16
TONG1-	132	10.82	5.06	0.42	7.57	14.37	6.58	0.71	10.02
TONG5-	11	79.63	31.15	6.46	50.51	50.2	19.4	7.02	34.46
TORN1-	132	29.23	10.74	8.3	23.49	35.83	13.2	10.57	29.24
TORN4-	400	63.31	23.38	16.49	49.56	66.08	24.67	18.94	53.83
WAMR3-	33	38.9	15.28	2.4	24	3.02	2.09	0	2.96
WFIE1A	132	33.3	13.53	5.84	24.98	36.8	15.07	6.97	28.28
WFIE1B	132	43.47	17.26	5.82	30.23	47.5	19.51	6.98	34.56
WFIE2-	275	62.69	23.92	9.87	43.7	53.14	21.04	9.4	39.15
WFIE3-	33	50.43	19.02	5.52	32.41	3	2.08	0	2.95
WGEO3-	33	50.61	17.78	10.16	35.3	5.89	4.08	0	5.77
WHHO3-	33	46.67	16.48	10.72	34.02	5.86	4.06	0	5.75
WHTL3-	33	25.25	10.19	0.71	15.12	2.22	1.54	0	2.18
WISH0J	25	20.82	7.55	6.37	17.05	0.07	0.05	0	0.07
WISH0K	25	20.83	7.56	6.37	17.06	0.12	0.06	0	0.09
WISH1-	132	16.53	6.06	4.79	13.36	20.02	7.37	5.92	16.34
WISH2-	275	67.56	25.53	11.31	47.41	64.95	25.5	11.18	47.23
WISH3-	33	41.61	14.4	10.26	30.62	5.81	4.02	0	5.69
WIYH1-	132	43.71	16.86	9.51	33.36	54.58	21.59	12.27	42.8
WIYH2-	275	64.84	24	13.08	47.02	64.62	24.74	13.8	48.78
WLEE2-	275	56.01	21.27	7.87	37.96	48.86	21.16	9.76	39.69
WLEE3A	33	54.15	15.66	10.42	32.56	3.01	2.08	0	2.95
WLEE3B	33	54.35	15.73	10.42	32.67	3.01	2.08	0	2.95
WLEE3C	33	53.66	15.56	10.35	32.36	3.01	2.08	0	2.95

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Table D.2.4 - SPT Fault Levels (kA), Winter 2012/13

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ANDE1-	132	13.72	5.88	0.42	8.74	15.91	6.91	0.6	10.37
ANDE3-	33	25.35	9.89	1.98	15.96	1.48	1.03	0	1.45
AREC1-	132	13.66	5.28	1.8	9.26	15.83	6.16	2.44	11.15
AREC3A	33	33.06	12.65	4.32	22.2	2.25	1.56	0	2.21
AREC3B	33	33.06	12.65	4.32	22.2	2.25	1.56	0	2.21
AUCH2-	275	12.46	5.08	1.42	8.6	10.83	4.5	1.35	7.71
AUCO1-	132	10.06	4.14	0.52	6.38	11.87	4.92	0.74	7.69
AUCO3-	33	23.53	9.14	2.04	14.95	1.48	1.02	0	1.45
AYR-3-	33	48	17.19	9.92	34.22	5.89	4.08	0	5.77
BAGA3-	33	31.66	11.78	2.86	19.51	4.2	2.91	0	4.12
BAIN1-	132	32.07	13.22	2.87	21.56	32.69	13.75	2.97	22.42
BAIN3-	33	35.01	13.01	4.21	22.61	2.97	2.06	0	2.91
BERW1Q	132	11.79	5.5	0.31	8.09	11.59	5.34	0.51	8.07
BERW1R	132	11.81	5.5	0.34	8.12	11.54	5.35	0.36	7.92
BERW3-	33	37.1	15.26	1.28	22.86	4.5	3.12	0	4.41
BLAC3-	33	65.94	25.02	9.72	45.11	6.75	4.62	0	6.53
BLLA3A	33	30.31	11.3	5.48	21.45	2.22	1.54	0	2.18
BLLA3B	33	30.32	11.3	5.48	21.46	2.22	1.54	0	2.18
BONN1-	132	42.72	17.15	6.41	30.66	50.87	20.79	8.08	37.48
BONN2-	275	56.47	21.25	10.53	40.58	45.34	17.81	8.13	33.32
BONN3-	33	40.75	14.93	4.66	25.77	2.84	1.97	0	2.78
BPGR3-	33	99.19	38.5	16.96	71.4	7.6	4.27	2.68	8.72
BRAP1-	132	14.11	6.12	0.13	8.79	15.37	6.76	0.42	9.97
BRAP3-	33	23.31	8.76	1.07	13.46	4.29	2.97	0	4.2
BROX3-	33	25.76	9.1	3.09	15.95	4.29	2.97	0	4.19
BUSB2-	275	57.07	21.7	9.37	40.07	52.11	20.7	7.42	36.7
CAFA5-	11	37.8	15.15	2.6	24.03	13.69	5.35	2.33	9.9
CATY0J	25	10.14	3.69	3.03	8.24	0.33	0.17	0	0.24
CATY0K	25	10.14	3.69	3.03	8.24	0.33	0.17	0	0.24
CATY1Q	132	23.05	8.4	4.66	16.54	26.14	9.72	5.73	19.48
CATY1R	132	23.05	8.4	4.66	16.54	26.15	9.72	5.73	19.48
CATY3-	33	29.38	10.36	4.88	19.53	2.95	2.04	0	2.89
CHAP1-	132	30.86	13.01	0.97	19.36	29.95	12.97	1.52	19.87
CHAP3-	33	40.61	15.35	4.14	25.85	4.53	3.14	0	4.44
CHAS3-	33	48.34	17.15	10.31	34.56	5.91	4.09	0	5.79
CLYM2-	275	86.75	31.56	18.55	63.18	80.49	30.92	15.4	59.14
CLYM3-	33	49.1	17.2	11.47	35.8	5.91	4.09	0	5.78
CLYN2Q	275	20.52	7.63	6.25	17.04	25.04	9.31	7.88	21.04
CLYN3A	33	51.12	19.24	10.28	37.49	3	2.08	0	2.94
CLYN3B	33	51.12	19.24	10.28	37.49	3	2.08	0	2.94
CLYN3C	33	51.12	19.24	10.28	37.49	3	2.08	0	2.94
CLYN3D	33	51.66	19.45	10.28	37.79	3	2.08	0	2.94
CLYS2R	275	17.47	6.45	5.63	14.76	21.12	7.83	6.89	17.96

CLYS3A	33	49.5	18.63	9.99	36.33	2.99	2.07	0	2.93
CLYS3B	33	49.5	18.63	9.99	36.33	2.99	2.07	0	2.93
COAL1-	132	26.13	9.61	7.56	21.15	33.56	12.39	9.97	27.5
COAL4-	400	53.47	20.52	9.74	38.75	46.47	18.37	8.25	34.23
COAT3-	33	40.18	13.81	11.86	31.39	5.84	4.04	0	5.72
COCK2-	275	82.81	29.86	20.93	63.16	85.09	31.68	22.36	67.16
COCK3-	33	49.78	17.74	11.7	36.79	5.93	4.11	0	5.81
COYL1-	132	31.62	12.47	5.54	23.19	37.64	14.87	7.24	28.27
COYL2-	275	40.56	15.39	8.81	30.57	42.62	16.53	8.9	32.29
COYL3-	33	46.43	17.79	4.88	30.04	2.99	2.07	0	2.93
CROO3J	33	33	11.94	3.62	20.5	2.96	2.05	0	2.9
CROO3K	33	33.18	12.4	3.63	21.16	2.97	2.06	0	2.91
CRYR1-	132	18.55	6.84	5.09	14.77	23.01	8.45	6.74	18.7
CRYR4-	400	52.9	19.66	13.01	40.81	51.31	19.5	12.02	39.59
CUMB3-	33	36.3	13.67	3.42	22.75	4.41	3.05	0	4.32
CUPA3-	33	29.94	11.78	0.34	16.99	2.94	2.04	0	2.88
CURR1-	132	26.64	9.33	7.8	20.99	33.84	12.37	9.54	27.03
CURR2-	275	72.5	27.04	13.66	51.89	65.54	25.69	11.63	47.96
CURR5-	11	33.59	12.05	6.23	23.27	4.4	3.05	0	4.31
DALL2-	275	32.77	12.02	6.4	23.4	32.35	12.19	7.14	24.37
DALM1-	132	24.8	8.82	7.07	19.54	28.63	10.47	7.86	22.66
DERS3-	33	36.31	14.04	3.3	23.16	2.26	1.56	0	2.21
DEVM0J	25	8.2	2.97	2.57	6.77	0.09	0.06	0	0.08
DEVM0K	25	8.2	2.97	2.57	6.77	0.09	0.06	0	0.08
DEVM1-	132	27.82	9.9	7.71	21.72	34.95	12.84	9.47	27.63
DEVM3-	33	33.8	12.26	4.77	22.11	2.98	2.06	0	2.92
DEVM4-	400	40.04	14.92	8.6	29.7	35.05	13.57	6.95	26.14
DEVO1-	132	22.9	10.05	0.68	14.89	22.07	9.69	1.27	14.97
DEVO3-	33	32.6	12.39	2.35	19.87	4.39	3.04	0	4.31
DEWP3-	33	48.04	16.6	10.66	34.13	7.66	5.3	0	7.49
DRCR3-	33	24.39	9.37	2.31	15.56	4.36	3.02	0	4.27
DRUM3-	33	48.6	17.02	10.92	34.99	5.86	4.06	0	5.74
DUMF1-	132	20.19	8.7	0.41	12.72	23.73	10.19	0.74	15.15
DUMF3-	33	48.14	19.2	1.49	28.64	4.49	3.11	0	4.41
DUMF3I	33	18.05	6.86	1.69	11.39	1.49	1.03	0	1.46
DUMF5-	11	35.02	12.83	3.83	21.97	4.4	3.05	0	4.32
DUNB3-	33	47.99	18.52	3.76	29.96	2.94	2.04	0	2.88
DUNE1-	132	18.3	7.73	0.92	11.84	19.58	8.3	1.39	13.13
DUNE3-	33	42.89	16.91	3.19	27.1	4.38	3.04	0	4.29
DUNF3-	33	33.41	12.75	3.69	21.73	4.42	3.07	0	4.34
DUNH3-	33	53.45	19.98	9.87	38.13	4.42	3.05	0	4.31
EAST5-	11	23.38	9.02	2.7	15.45	11.93	4.54	2.17	8.59
ECCF0J	25	15.78	5.94	2.4	10.81	0.15	0.08	0	0.11
ECCF0K	25	19.18	7.29	2.46	12.77	0.15	0.08	0	0.11
ECCF1J	132	18.79	8.79	0.08	12.51	16.11	7.61	0.12	10.89
ECCF1K	132	18.76	8.78	0.08	12.5	16.1	7.61	0.12	10.88
ECCL1-	132	31.37	11.99	8.65	25.61	39.75	15.27	11.25	32.84
ECCL3-	33	33.9	13.06	5.35	23.82	4.59	3.17	0	4.49
ECCL4-	400	65.69	24.43	15.72	50.26	53.79	20.98	10.32	39.99
EERH2-	275	75.08	27.64	15.42	54.51	66	25.62	11.71	47.94
EERH3-	33	52.95	18.23	13.13	38.92	5.91	4.09	0	5.78
EHAU3-	33	42.49	16.65	3.06	26.61	2.24	1.55	0	2.19
EKIL3-	33	52.96	18.45	14.49	40.58	5.93	4.11	0	5.81
EKIS2-	275	64.32	23.68	12.24	45.73	62.86	24.36	10.3	44.75
EKIS3-	33	40.96	14.65	10.03	30.75	5.89	4.08	0	5.77

ELDE3-	33	36.36	13.07	5	23.49	2.98	2.07	0	2.92
ELVA0J	25	18.95	6.71	9.13	18.63	0.13	0.07	0	0.1
ELVA0K	25	18.95	6.71	9.13	18.63	0.13	0.07	0	0.1
ELVA2Q	275	21.13	7.8	6.94	17.97	25.82	9.54	8.67	22.16
ELVA2R	275	18.22	6.68	6.41	15.85	22.15	8.14	7.9	19.41
ELVA4-	400	59.31	22.88	10.71	43.07	52.59	20.64	11.47	40.66
ERSK3-	33	20.11	7.61	1.05	11.82	1.49	1.03	0	1.46
EWEH3-	33	33.66	13.01	3.56	21.95	2.25	1.56	0	2.21
FALL1-	132	26.7	9.74	8.35	22.12	34.06	12.41	11.04	28.59
FALL3-	33	61.91	23.9	7	40.79	5.54	3.84	0	5.43
FALL4-	400	44.53	16.62	10.79	34.29	41.68	15.93	9.41	31.93
FIFE1-	132	29.8	11.94	5.25	22.14	33.14	13.5	5.83	24.92
FIFE1B	132	37.03	14.63	5.03	25.73	40.53	16.73	5.11	28.77
FINQ3-	33	31.06	11.85	3.98	20.74	4.41	3.05	0	4.32
GALA1-	132	20.34	8.9	0.36	12.95	20.18	8.95	0.67	13.33
GALA3-	33	37.65	14.93	1.32	22.44	2.21	1.54	0	2.17
GIFF3-	33	50.69	18	9.85	35.3	5.88	4.08	0	5.76
GLGL3-	33	52.76	20.77	3.35	32.72	5.9	4.05	0	5.73
GLLE1-	132	12.81	5.98	0.53	8.98	13.62	6.35	0.58	9.56
GLLE5-	11	42.62	15.88	8.56	31.02	34.52	12.86	7.58	25.76
GLLU3-	33	22.41	9.86	0.2	14.14	3.47	2.4	0	3.4
GLNI1-	132	47.02	18.34	6.33	32.27	54.08	21.92	6.38	37.38
GLNI3-	33	37.47	14.17	6.08	26.11	4.45	3.08	0	4.36
GLRO2-	275	45.6	17.84	6.04	31.27	36.87	14.9	5.37	26.44
GLRO3-	33	46.95	17	9.22	33.27	5.73	3.97	0	5.62
GORG3-	33	26.89	9.54	5.03	18.52	2.96	2.05	0	2.9
GOVA3-	33	32.45	11.9	3.51	20.34	2.98	2.06	0	2.92
GRMO2-	275	51.81	19.87	9.48	37.58	44.66	17.68	8.29	33.28
GRMO3A	33	40.68	14.25	9.59	29.74	5.83	4.04	0	5.71
GRMO3C	33	40.76	14.27	9.73	29.91	5.83	4.04	0	5.71
GRNA1-	132	40.4	15.63	7.95	30.06	51.16	19.82	11.17	39.2
GRNA4-	400	51.16	20.14	7.77	36.26	44.88	17.85	7.98	33.23
HAGR3-	33	32.28	11.78	2.95	19.61	2.96	2.05	0	2.89
HARB1-	132	14.89	5.5	3.84	11.62	18.2	6.72	4.96	14.47
HARB2-	275	50.21	19.59	6.8	34.51	40.13	16.39	4.9	28.08
HARE3-	33	59.23	23.03	5.37	37.94	5.42	3.75	0	5.31
HAWI1-	132	10.24	5.06	0.02	7.18	10.88	5.09	0.12	7.32
HAWI3-	33	22.88	9.62	0.18	13.78	2.91	2.02	0	2.86
HEAR3-	33	37.44	14.48	3.73	24.21	3	2.08	0	2.94
HELE1-	132	16.82	8.23	0.03	11.67	17.73	8.43	0.18	12.1
HELE3-	33	27.14	11.21	0.48	16.33	2.95	2.05	0	2.9
HLAW3-	33	28.31	10.82	3.67	18.97	2.21	1.53	0	2.17
HUER1-	132	29.1	10.75	8.55	23.76	36.1	13.56	10.34	29.52
HUER4-	400	55.39	20.06	14.23	42.6	58.78	21.74	16.45	47.19
HUNF3-	33	43.44	16.37	6.6	29.75	3	2.08	0	2.94
INKE3-	33	29.76	10.98	2.15	17.67	4.32	2.99	0	4.23
INKI4-	400	46.48	17.29	10.04	34.48	37.8	14.81	6.46	27.4
INVR2-	275	32.06	12.17	5.26	22.46	27.76	11.08	3.47	19.14
INWI0J	25	10.86	3.95	3.34	8.92	0.13	0.07	0	0.09
INWI0K	25	10.86	3.95	3.34	8.92	0.13	0.07	0	0.09
INWI1Q	132	28.57	10.61	6.89	21.89	34.47	12.91	7.93	26.19
INWI1R	132	28.57	10.61	6.89	21.89	34.47	12.91	7.93	26.19
JOHN3-	33	33.48	12.01	4.42	21.4	2.96	2.05	0	2.9
KAIM1-	132	14.65	5.38	4.2	11.8	18.05	6.62	5.45	14.82
KAIM2-	275	78.74	29.1	15.8	56.94	80.63	30.88	16.17	59.83

KAIM3-	33	52.01	18.37	11.07	37.06	5.87	4.07	0	5.75
KEOO1-	132	13.09	6.16	0.46	9.17	13.49	6.3	0.55	9.47
KEOO5-	11	36.54	13.81	5.72	25.25	28.19	10.64	5	20.06
KIER3-	33	34.31	12.19	5.32	22.56	4.36	3.02	0	4.27
KILB3-	33	32.8	12.12	5.28	22.42	2.98	2.07	0	2.92
KILB5-	11	28.34	10.36	4.05	18.7	2.96	2.05	0	2.9
KILS1-	132	21.19	8.66	4.62	16.87	24.09	9.67	6.01	19.69
KILS2-	275	45.71	17.1	11.42	35.6	50.98	19.39	12.89	40.31
KILS3-	33	39.45	14.1	9.92	29.86	5.89	4.08	0	5.76
KILS4-	400	48.76	18.61	8.92	35.24	46.61	18.2	9.1	34.85
KILT3-	33	49.64	17.34	10.46	34.99	5.9	4.08	0	5.77
KILW3-	33	29.1	10.96	4.39	19.89	4.39	3.04	0	4.3
KINC2-	275	69.35	25.69	18.05	54.39	60.63	23.32	14.38	47.35
KYLN3-	33	41.46	16.23	2.97	25.92	3.02	2.09	0	2.96
KYLS3-	33	102.85	39.13	15.07	70.41	8.83	6.12	0	8.65
LAMB2-	275	62.13	23.26	11.06	43.95	53.52	21.02	9.06	38.79
LEVE3-	33	31.55	12.28	0.91	18.28	2.96	2.05	0	2.9
LING3-	33	30.39	11.02	2.77	18.36	4.34	3	0	4.24
LINM3-	33	40.69	15.37	6.1	27.83	4.43	3.07	0	4.34
LOAN2-	275	114.8	40.2	32.16	89.01	118.44	43.01	35.58	96.4
MAHI1-	132	14.73	5.6	2.56	10.48	18.12	6.88	3.57	13.29
MAHI2-	275	15.46	6.24	1.97	10.79	14.57	5.93	2.36	10.75
MAHI3-	33	43.17	16.62	4.82	28.32	3.03	2.1	0	2.97
MARM0J	25	9.73	3.66	1.77	6.95	0.15	0.08	0	0.11
MARM0K	25	9.73	3.66	1.79	6.97	0.15	0.08	0	0.11
MAYB1-	132	19.43	8.7	0.38	12.69	19.2	8.63	0.71	12.92
MAYB3-	33	22.04	8.56	1.15	13.26	1.5	1.04	0	1.47
MEAD1-	132	16.08	6.64	0.9	10.29	16.96	7.06	1.81	11.78
MOFF1-	132	34.08	12.75	7.79	25.83	42.24	15.79	10.28	32.61
MOFF4-	400	46.64	18.22	7.64	33.41	35.93	14.48	6.2	26.67
MOSH5J	11	62.15	23.65	5.65	39.1	2.79	1.94	0	2.74
MOSH5K	11	62.18	23.66	5.68	39.13	2.79	1.94	0	2.74
MOSM1-	132	46.76	18.18	6.99	32.69	56.01	22.35	8.77	40.38
MOSM2Q	275	57.2	21.95	8.63	39.68	46.91	18.69	8.04	34.47
MOSM3Q	33	30.35	12.03	1.97	18.98	2.25	1.56	0	2.2
MOSM3R	33	30.35	12.03	1.97	18.98	2.25	1.56	0	2.2
NEAR2Q	275	57.1	21.78	8.98	39.79	50.48	20.07	7.71	36.09
NEAR3-	33	60.75	22	10.18	41.29	5.93	4.11	0	5.81
NECU1-	132	47.82	18.07	9.09	34.65	58.12	22.02	11.78	42.92
NECU2-	275	35.53	13.58	7.31	26.51	34.78	13.6	7.32	26.56
NEIL1-	132	38.81	13.63	10.33	29.59	49.65	18.21	12.77	38.52
NEIL2-	275	65.61	24.34	13.56	47.97	62.99	24.23	13.47	47.73
NEIW3-	33	40.78	15.86	3.15	25.57	3.02	2.09	0	2.96
NETS1-	132	8.99	4.32	0.13	6.24	9.59	4.56	0.17	6.62
NETS3-	33	10.39	4.49	0.28	6.63	2.14	1.44	0	2.04
NEWF3-	33	30.24	11.91	2.01	18.85	2.26	1.56	0	2.21
PAIS3-	33	34.05	12.27	5.49	22.84	2.97	2.06	0	2.91
PART3-	33	34.79	12.85	3.96	22.13	2.96	2.05	0	2.9
PENC3-	33	63.09	24.3	6.65	41.02	6.73	4.6	0	6.51
POOB0J	25	18.67	6.78	5.65	15.24	0.24	0.12	0	0.18
POOB0K	25	18.67	6.78	5.65	15.24	0.24	0.12	0	0.18
POOB3-	33	49.06	16.98	13.43	37.45	5.88	4.07	0	5.76
PORD3-	33	51.85	18.17	12.25	37.94	5.91	4.09	0	5.79
RAVE3-	33	42.46	16.06	4.47	27.18	5.88	4.07	0	5.76
REDH1-	132	31.43	13.53	0.64	19.77	33.21	14.7	1.02	21.8

REDH3-	33	31.72	11.82	2.62	19.34	3.67	2.55	0	3.6
SACO0J	25	10.33	3.8	2.84	8.21	0.34	0.17	0	0.25
SACO0K	25	10.34	3.79	2.8	8.17	0.34	0.18	0	0.25
SACO1Q	132	19.28	7.55	2.37	13.05	21.39	8.58	2.47	14.6
SACO1R	132	19.14	7.55	2.16	12.84	21.43	8.6	2.36	14.52
SACO3J	33	35.71	13.57	4.19	23.38	4.2	2.9	0	4.1
SACO3K	33	38.43	14.96	3.92	25.08	4.21	2.91	0	4.11
SANX0J	25	16.64	6.05	4.78	13.34	0.44	0.23	0	0.33
SANX0K	25	16.64	6.05	4.78	13.34	0.45	0.23	0	0.33
SANX1Q	132	22.87	8.33	4.64	16.42	26.29	9.85	5.04	18.97
SANX1R	132	22.87	8.33	4.64	16.42	26.29	9.85	5.05	18.98
SANX3-	33	31.93	11.28	5.34	21.29	2.97	2.06	0	2.91
SHRU3-	33	45.52	16.27	10.18	33.19	5.92	4.1	0	5.8
SIGH3-	33	50.85	17.61	10.75	35.66	5.87	4.06	0	5.75
SMEA1-	132	20.08	7.87	4.99	16.13	23.4	9.11	6.38	19.27
SMEA2-	275	79.61	29.25	17.84	59.2	81.72	31.11	17.49	61.49
SPAV3-	33	26.63	9.57	3.64	17.18	4.34	3	0	4.25
STHA2A	275	82.01	30.22	17.32	60.07	82.9	31.75	17.06	61.96
STHA2B	275	74.49	27.22	16.19	54.69	75.99	28.86	16.19	57.01
STHA3-	33	48.76	17.39	11.49	36.07	5.91	4.1	0	5.8
STHA4-	400	72.13	26.91	15.52	53.59	66.45	25.7	13.81	50.16
STIR3-	33	34.54	12.47	4.73	22.36	4.39	3.04	0	4.3
STLE0J	25	10.23	3.81	2.05	7.43	0.27	0.14	0	0.2
STLE0K	25	10.29	3.83	2.06	7.47	0.26	0.14	0	0.19
STLE1-	132	20.9	9.84	0.07	13.99	21.08	9.82	0.47	14.35
STLE3S	33	32.79	12.68	1.11	19.04	2.96	2.05	0	2.9
TELR3-	33	28.92	10.54	2.99	17.9	2.96	2.05	0	2.9
TODD3-	33	28.69	12.38	0.38	17.9	4.24	2.94	0	4.16
TONG1-	132	10.72	4.98	0.42	7.47	13.97	6.35	0.74	9.71
TONG5-	11	79.33	31	6.48	50.32	50.12	19.36	7.03	34.42
TORN1-	132	29.28	10.75	8.32	23.52	35.88	13.22	10.58	29.28
TORN4-	400	63.66	23.47	16.39	49.58	66.37	24.74	18.89	53.89
WAMR3-	33	38.91	15.28	2.4	24.01	3.02	2.09	0	2.96
WFIE1A	132	33.26	13.49	5.84	24.92	36.76	15.02	6.96	28.2
WFIE1B	132	43.41	17.26	5.74	30.15	47.4	19.49	6.9	34.46
WFIE2-	275	62.74	23.96	9.88	43.76	53.17	21.06	9.45	39.24
WFIE3-	33	50.39	19.01	5.5	32.38	3	2.08	0	2.94
WGEO3-	33	50.77	17.83	10.19	35.41	5.91	4.1	0	5.79
WHHO3-	33	46.8	16.52	10.75	34.11	5.88	4.07	0	5.76
WHTL3-	33	25.36	10.24	0.7	15.18	2.24	1.55	0	2.2
WISH0J	25	20.82	7.55	6.37	17.04	0.07	0.05	0	0.07
WISH0K	25	20.83	7.55	6.37	17.06	0.12	0.06	0	0.09
WISH1-	132	16.82	6.09	4.9	13.5	20.32	7.4	6.03	16.49
WISH2-	275	67.86	25.66	11.36	47.66	65.19	25.6	11.22	47.43
WISH3-	33	41.72	14.43	10.28	30.68	5.82	4.03	0	5.7
WIYH1-	132	44.17	17.02	9.7	33.77	55.08	21.76	12.46	43.24
WIYH2-	275	65.17	24.1	13.12	47.2	64.89	24.84	13.8	48.93
WLEE2-	275	56.34	21.38	7.91	38.15	49.08	21.25	9.78	39.83
WLEE3A	33	54.21	15.67	10.47	32.63	3.01	2.08	0	2.95
WLEE3B	33	54.4	15.74	10.45	32.72	3.01	2.08	0	2.95
WLEE3C	33	53.72	15.58	10.36	32.39	3.01	2.08	0	2.95

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Table D.2.5 - SPT Fault Levels (kA), Winter 2013/14

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ANDE1-	132	13.67	5.87	0.41	8.71	15.84	6.89	0.59	10.34
ANDE3-	33	25.3	9.88	1.97	15.94	1.48	1.02	0	1.45
AREC1-	132	13.66	5.29	1.8	9.28	15.83	6.17	2.44	11.16
AREC3A	33	33.03	12.64	4.32	22.2	2.25	1.56	0	2.21
AREC3B	33	33.03	12.64	4.32	22.2	2.25	1.56	0	2.21
AUCH2-	275	12.53	5.12	1.41	8.65	10.87	4.52	1.35	7.74
AUCO1-	132	10.06	4.14	0.52	6.38	11.87	4.92	0.74	7.69
AUCO3-	33	23.53	9.13	2.03	14.95	1.48	1.02	0	1.45
AYR-3-	33	48.08	17.24	9.95	34.32	5.88	4.07	0	5.76
BAGA3-	33	31.82	11.8	3.05	19.75	4.19	2.92	0	4.12
BAIN1-	132	34.15	13.52	3.3	22.41	34.97	14.34	3.22	23.5
BAIN3-	33	35.55	13.08	4.59	23.08	2.98	2.07	0	2.92
BERW1Q	132	11.8	5.5	0.31	8.09	11.59	5.34	0.51	8.07
BERW1R	132	11.81	5.5	0.34	8.12	11.54	5.35	0.36	7.93
BERW3-	33	37.1	15.26	1.28	22.87	4.5	3.12	0	4.41
BLAC3-	33	66.76	25.46	9.9	45.9	6.72	4.67	0	6.6
BLCW3-	33	31.99	12.6	2.26	20.09	2.23	1.55	0	2.19
BLLA3A	33	30.3	11.3	5.49	21.46	2.22	1.54	0	2.18
BLLA3B	33	30.31	11.3	5.47	21.46	2.22	1.54	0	2.18
BONN1-	132	46.63	17.66	8.53	33.51	58.73	22.78	11.33	43.55
BONN3-	33	41.15	14.98	5.11	26.29	2.83	1.97	0	2.79
BPGR3-	33	99.4	38.52	16.99	71.47	7.62	4.27	2.68	8.72
BRAP1-	132	14.11	6.13	0.13	8.8	15.37	6.76	0.42	9.98
BRAP3-	33	23.3	8.76	1.07	13.47	4.29	2.97	0	4.2
BROX3-	33	25.72	9.09	3.08	15.94	4.28	2.96	0	4.19
BUSB2-	275	57.59	21.95	9.19	40.24	52.42	20.85	7.32	36.81
CACR3-	33	22.49	9.59	0.54	14.1	2.79	1.94	0	2.74
CAFA5-	11	38.08	15.24	2.62	24.17	13.72	5.36	2.34	9.92
CATY0J	25	10.14	3.69	3.03	8.24	0.33	0.17	0	0.24
CATY0K	25	10.14	3.69	3.03	8.24	0.33	0.17	0	0.24
CATY1Q	132	23.05	8.41	4.64	16.53	26.16	9.73	5.73	19.49
CATY1R	132	23.05	8.41	4.64	16.53	26.16	9.73	5.72	19.48
CATY3-	33	29.43	10.36	4.89	19.54	2.97	2.04	0	2.89
CHAP1-	132	30.71	12.93	0.99	19.28	29.84	12.92	1.54	19.82
CHAP3-	33	40.56	15.34	4.17	25.86	4.53	3.14	0	4.44
CHAS3-	33	48.26	17.15	10.31	34.56	5.9	4.09	0	5.78
CLYM2-	275	88.11	32.16	18.99	64.47	81.25	31.28	15.61	59.85
CLYM3-	33	49.04	17.2	11.45	35.77	5.89	4.09	0	5.78
CLYN2Q	275	20.46	7.6	6.26	17.02	24.95	9.28	7.88	21.01
CLYN3A	33	51.06	19.22	10.3	37.48	2.99	2.07	0	2.93
CLYN3B	33	51.06	19.22	10.3	37.48	2.99	2.07	0	2.93
CLYN3C	33	51.06	19.22	10.3	37.48	2.99	2.07	0	2.93
CLYN3D	33	51.6	19.43	10.3	37.78	2.99	2.07	0	2.93

CLYS2R	275	17.41	6.43	5.66	14.75	21.04	7.79	6.91	17.93
CLYS3A	33	49.44	18.6	10.01	36.32	2.99	2.07	0	2.93
CLYS3B	33	49.44	18.6	10.01	36.32	2.99	2.07	0	2.93
COAL1-	132	26.06	9.58	7.56	21.11	33.47	12.35	9.96	27.43
COAL4-	400	53.81	20.62	9.82	38.99	46.53	18.39	8.27	34.27
COAT3-	33	40.11	13.81	11.86	31.38	5.83	4.04	0	5.71
COCK2-	275	82.97	29.96	20.98	63.35	85.18	31.74	22.39	67.29
COCK3-	33	49.74	17.74	11.69	36.78	5.92	4.11	0	5.81
COYL1-	132	32.14	12.63	5.67	23.54	38.23	15.04	7.4	28.66
COYL2-	275	41.81	15.92	8.97	31.49	44.03	17.13	9.06	33.29
COYL3-	33	46.6	17.86	4.91	30.16	3.01	2.08	0	2.94
CROO3J	33	33.09	11.98	3.62	20.56	2.98	2.06	0	2.92
CROO3K	33	33.31	12.41	3.61	21.15	3.01	2.06	0	2.91
CRYR1-	132	18.4	6.84	5.04	14.72	22.86	8.46	6.69	18.65
CRYR4-	400	52.94	19.69	13.02	40.86	51.25	19.49	12.05	39.62
CUMB3-	33	36.61	13.71	3.68	23.06	4.42	3.06	0	4.33
CUPA3-	33	29.82	11.78	0.32	16.98	2.95	2.04	0	2.88
CURR1-	132	26.64	9.34	7.82	21.03	33.84	12.38	9.56	27.07
CURR2-	275	72.79	27.2	13.52	51.99	65.68	25.78	11.55	48.02
CURR5-	11	33.7	12.11	6.26	23.38	4.42	3.07	0	4.34
DALL2-	275	34.77	12.79	6.99	25.08	33.59	12.73	7.04	25.04
DALM1-	132	24.8	8.83	7.09	19.58	28.65	10.48	7.87	22.69
DENN1-	132	40.48	15.89	6.08	28.54	46.44	18.8	7.48	34.06
DENN2-	275	74.18	27.46	15.98	54.82	69.93	26.66	16.49	54.2
DENN4-	400	22.07	8.12	6.78	18.27	19.92	7.43	6.37	16.87
DERS3-	33	36.53	14.19	3.3	23.37	2.25	1.56	0	2.21
DEVM0J	25	8.21	2.97	2.57	6.78	0.09	0.06	0	0.08
DEVM0K	25	8.21	2.97	2.57	6.78	0.09	0.06	0	0.08
DEVM1-	132	27.86	9.93	7.77	21.81	34.99	12.87	9.53	27.73
DEVM3-	33	33.8	12.27	4.77	22.13	2.97	2.06	0	2.92
DEVM4-	400	40.51	15.14	8.75	30.15	35.28	13.68	6.99	26.34
DEVO1-	132	23.31	10.12	0.67	14.98	22.39	9.76	1.3	15.1
DEVO3-	33	32.68	12.4	2.43	19.97	4.4	3.05	0	4.31
DEWP3-	33	48	16.6	10.66	34.13	7.65	5.3	0	7.49
DRCR3-	33	24.61	9.4	2.39	15.69	4.38	3.03	0	4.28
DRUM3-	33	49.1	17.22	11.05	35.39	5.91	4.09	0	5.79
DUMF1-	132	20.17	8.7	0.42	12.72	23.73	10.18	0.75	15.15
DUMF3-	33	48.1	19.2	1.5	28.65	4.49	3.12	0	4.41
DUMF3I	33	18.13	6.87	1.68	11.4	1.5	1.04	0	1.46
DUMF5-	11	34.99	12.84	3.83	22	4.4	3.06	0	4.32
DUNB3-	33	48.02	18.54	3.76	29.98	2.94	2.04	0	2.88
DUNE1-	132	18.3	7.73	0.92	11.85	19.58	8.3	1.39	13.13
DUNE3-	33	42.89	16.91	3.19	27.11	4.38	3.04	0	4.29
DUNF3-	33	33.39	12.76	3.67	21.71	4.43	3.07	0	4.34
DUNH3-	33	54.38	20.43	10.04	38.93	4.4	3.06	0	4.32
EAST5-	11	23.47	9.04	2.73	15.52	11.94	4.54	2.19	8.61
ECCF0J	25	15.79	5.95	2.4	10.81	0.15	0.08	0	0.11
ECCF0K	25	19.19	7.29	2.46	12.77	0.15	0.08	0	0.11
ECCF1J	132	18.73	8.76	0.08	12.47	16.08	7.6	0.13	10.87
ECCF1K	132	18.7	8.75	0.08	12.45	16.06	7.6	0.12	10.87
ECCL1-	132	31.37	12	8.65	25.62	39.75	15.27	11.25	32.85
ECCL3-	33	33.9	13.07	5.35	23.83	4.59	3.18	0	4.49
ECCL4-	400	65.73	24.45	15.72	50.29	53.77	20.98	10.31	39.98
EERH2-	275	76.19	28.14	15.52	55.31	66.55	25.89	11.78	48.4
EERH3-	33	52.89	18.24	13.13	38.92	5.89	4.09	0	5.78

EHAU3-	33	42.46	16.64	3.06	26.6	2.24	1.55	0	2.19
EKIL3-	33	52.88	18.45	14.5	40.59	5.91	4.1	0	5.8
EKIS2-	275	64.93	23.96	12.25	46.14	63.32	24.55	10.35	45.07
EKIS3-	33	40.88	14.65	10.03	30.74	5.88	4.08	0	5.77
ELDE3-	33	36.32	13.07	4.99	23.48	2.98	2.06	0	2.92
ELVA0J	25	18.8	6.67	9.08	18.51	0.13	0.07	0	0.1
ELVA0K	25	18.8	6.67	9.08	18.51	0.13	0.07	0	0.1
ELVA2Q	275	21.07	7.78	6.99	17.99	25.74	9.51	8.71	22.16
ELVA2R	275	18.16	6.65	6.44	15.85	22.06	8.1	7.92	19.38
ELVA4-	400	59.78	22.99	11.06	43.57	52.67	20.64	11.66	40.84
ERSK3-	33	20.1	7.62	1.05	11.83	1.49	1.03	0	1.46
EWEH3-	33	33.6	13.01	3.56	21.96	2.25	1.56	0	2.21
FALL1-	132	26.73	9.76	8.36	22.16	34.1	12.44	11.05	28.64
FALL3-	33	61.93	23.91	7	40.8	5.54	3.84	0	5.43
FALL4-	400	44.58	16.65	10.8	34.34	41.7	15.94	9.41	31.95
FIFE1-	132	29.95	11.99	5.27	22.22	33.28	13.53	5.84	24.98
FIFE1B	132	37.25	14.69	5.04	25.82	40.68	16.78	5.1	28.83
FINQ3-	33	31.23	11.93	3.97	20.83	4.43	3.06	0	4.33
GALA1-	132	20.35	8.9	0.36	12.96	20.19	8.96	0.67	13.34
GALA3-	33	37.65	14.93	1.32	22.44	2.21	1.54	0	2.17
GIFF3-	33	51	18.02	9.85	35.34	5.93	4.08	0	5.77
GLGL3-	33	53.41	21.12	3.29	33.15	5.85	4.06	0	5.74
GLLE1-	132	13.59	6.31	0.56	9.49	14.43	6.72	0.61	10.1
GLLE5-	11	42.73	15.91	8.66	31.16	34.57	12.87	7.64	25.83
GLLU3-	33	24.69	10.65	0.46	15.51	3.5	2.42	0	3.42
GLNI1-	132	47.49	18.44	6.4	32.48	54.49	22.01	6.43	37.55
GLNI3-	33	37.49	14.18	6.08	26.13	4.45	3.08	0	4.36
GLRO2-	275	46.17	18.09	6.02	31.6	37.13	15.02	5.36	26.61
GLRO3-	33	46.99	17.02	9.25	33.31	5.73	3.97	0	5.62
GORG3-	33	26.88	9.54	5.03	18.52	2.97	2.05	0	2.9
GOVA3-	33	32.42	11.9	3.5	20.33	2.97	2.06	0	2.91
GRMO2-	275	52.25	20.06	9.59	37.96	44.92	17.79	8.36	33.52
GRMO3A	33	40.67	14.25	9.6	29.76	5.82	4.04	0	5.71
GRMO3C	33	40.76	14.28	9.74	29.93	5.83	4.04	0	5.71
GRNA1-	132	40.02	15.46	8.05	29.92	50.7	19.63	11.27	39.02
GRNA4-	400	51.83	20.23	8.87	37.49	45.07	17.84	8.56	33.79
HAGR3-	33	32.36	11.78	2.93	19.6	2.98	2.05	0	2.89
HARB1-	132	14.88	5.5	3.83	11.62	18.18	6.72	4.96	14.46
HARB2-	275	50.44	19.71	6.73	34.6	40.2	16.43	4.87	28.11
HARE3-	33	59.16	23	5.36	37.89	5.42	3.76	0	5.31
HAWI1-	132	10.22	5.05	0.02	7.16	10.9	5.09	0.12	7.31
HAWI3-	33	22.82	9.61	0.18	13.77	2.93	2.02	0	2.86
HEAR3-	33	37.5	14.5	3.75	24.26	3.01	2.09	0	2.95
HELE1-	132	16.94	8.33	0.03	11.81	17.87	8.49	0.17	12.18
HELE3-	33	27.21	11.25	0.46	16.37	2.96	2.05	0	2.89
HLAW3-	33	28.3	10.82	3.67	18.97	2.21	1.53	0	2.17
HUER1-	132	28.82	10.76	8.42	23.64	35.82	13.56	10.21	29.39
HUER4-	400	55.95	20.29	14.21	42.91	59.01	21.84	16.33	47.22
HUNF3-	33	43.48	16.4	6.61	29.8	3.02	2.08	0	2.94
INKE3-	33	29.7	10.98	2.11	17.63	4.33	2.99	0	4.23
INKI4-	400	46.99	17.52	10.02	34.8	37.99	14.91	6.44	27.53
INVR2-	275	33.36	12.73	5.47	23.46	28.37	11.39	3.38	19.48
INWI0J	25	10.88	3.95	3.35	8.93	0.13	0.07	0	0.09
INWI0K	25	10.88	3.95	3.35	8.93	0.13	0.07	0	0.09
INWI1Q	132	28.62	10.68	6.9	22.01	34.52	12.99	7.94	26.31

INWI1R	132	28.62	10.68	6.9	22.01	34.52	12.99	7.94	26.31
JOHN3-	33	33.6	12.01	4.42	21.41	2.99	2.05	0	2.9
KAIM1-	132	14.64	5.38	4.2	11.8	18.04	6.62	5.45	14.81
KAIM2-	275	78.98	29.25	15.62	56.99	80.8	30.98	16.05	59.87
KAIM3-	33	52.3	18.39	11.12	37.12	5.91	4.07	0	5.75
KEOO1-	132	13.69	6.43	0.46	9.55	14.01	6.56	0.55	9.82
KEOO5-	11	36.63	13.84	5.76	25.34	28.23	10.65	5.03	20.09
KIER3-	33	34.52	12.26	5.32	22.67	4.39	3.03	0	4.28
KILB3-	33	32.84	12.19	5.29	22.52	2.97	2.07	0	2.93
KILB5-	11	28.52	10.4	4.08	18.78	2.98	2.06	0	2.91
KILS1-	132	21.04	8.64	4.51	16.74	23.92	9.65	5.88	19.53
KILS2-	275	46.87	17.58	11.62	36.49	52.02	19.84	13.04	41.1
KILS3-	33	39.45	14.12	9.92	29.89	5.87	4.07	0	5.76
KILS4-	400	49.5	18.91	8.95	35.7	47.09	18.41	9.14	35.17
KILT3-	33	49.66	17.38	10.46	35.04	5.89	4.08	0	5.77
KILW3-	33	29.24	10.98	4.41	19.94	4.43	3.05	0	4.31
KINC2-	275	70.39	26.12	18.31	55.25	61.37	23.62	14.48	47.89
KYLN3-	33	41.8	16.38	2.97	26.13	3.02	2.09	0	2.96
KYLS3-	33	106.29	40.44	15.65	72.84	8.83	6.12	0	8.66
LAMB2-	275	67.35	25.28	12.07	47.82	57.15	22.5	9.57	41.39
LEVE3-	33	31.49	12.29	0.89	18.26	2.97	2.05	0	2.9
LING3-	33	30.39	11.03	2.74	18.33	4.36	3	0	4.25
LINM3-	33	40.62	15.34	6.07	27.76	4.45	3.06	0	4.33
LOAN2-	275	122.01	42.66	34.21	94.54	125.17	45.43	37.07	101.32
MAHI1-	132	14.75	5.61	2.57	10.5	18.13	6.89	3.57	13.31
MAHI2-	275	15.57	6.3	1.97	10.88	14.65	5.98	2.36	10.82
MAHI3-	33	43.19	16.63	4.83	28.35	3.03	2.1	0	2.97
MARG3-	33	32.46	12.73	2.53	20.54	2.23	1.55	0	2.19
MARM0J	25	9.73	3.67	1.77	6.96	0.15	0.08	0	0.11
MARM0K	25	9.73	3.67	1.79	6.97	0.15	0.08	0	0.11
MAYB1-	132	19.59	8.79	0.38	12.81	19.31	8.68	0.71	12.99
MAYB3-	33	22.06	8.57	1.15	13.27	1.5	1.04	0	1.47
MEAD1-	132	16.08	6.65	0.92	10.32	17	7.07	1.82	11.82
MOFF1-	132	33.52	12.55	7.71	25.45	41.65	15.57	10.2	32.22
MOFF4-	400	46.85	18.25	7.97	33.79	35.9	14.45	6.32	26.76
MOSH5J	11	62.4	23.67	5.65	39.13	2.8	1.94	0	2.74
MOSH5K	11	62.43	23.68	5.69	39.18	2.8	1.94	0	2.74
MOSM1-	132	47.23	18.28	7.08	32.93	56.48	22.45	8.87	40.61
MOSM2Q	275	58.18	22.37	8.65	40.28	47.37	18.91	8.08	34.82
MOSM3Q	33	30.34	12.03	1.97	18.99	2.24	1.56	0	2.2
MOSM3R	33	30.34	12.03	1.97	18.99	2.24	1.56	0	2.2
NEAR2Q	275	57.61	22.03	9.08	40.24	50.77	20.2	7.75	36.32
NEAR3-	33	60.96	22.01	10.2	41.33	5.96	4.11	0	5.81
NECU1-	132	55.32	21.01	9.76	39.48	67.15	25.58	12.96	49.14
NECU2-	275	36.89	14.14	7.58	27.58	36.95	14.44	8.01	28.43
NEIL1-	132	38.87	13.69	10.32	29.68	49.73	18.29	12.77	38.63
NEIL2-	275	66.27	24.7	13.55	48.48	63.39	24.45	13.47	48.05
NEIW3-	33	40.78	15.86	3.15	25.57	3.02	2.09	0	2.96
NETS1-	132	9.92	4.7	0.21	6.85	11.39	5.36	0.25	7.83
NETS3-	33	10.67	4.6	0.35	6.85	2.15	1.45	0	2.06
NEWF3-	33	30.19	11.92	2.01	18.87	2.25	1.56	0	2.21
PAIS3-	33	34.17	12.31	5.49	22.9	2.99	2.07	0	2.93
PART3-	33	35	12.93	3.96	22.25	2.98	2.06	0	2.91
PENC3-	33	63.8	24.71	6.73	41.67	6.71	4.66	0	6.58
POOB0J	25	18.66	6.78	5.65	15.24	0.24	0.12	0	0.18

POOB0K	25	18.66	6.78	5.65	15.24	0.24	0.12	0	0.18
POOB3-	33	49.01	16.98	13.42	37.44	5.88	4.07	0	5.76
PORD3-	33	52.21	18.31	12.48	38.36	5.91	4.1	0	5.79
RAVE3-	33	42.4	16.06	4.46	27.16	5.87	4.07	0	5.75
REDH1-	132	31.54	13.58	0.61	19.82	33.3	14.74	1	21.84
REDH3-	33	31.73	11.83	2.59	19.31	3.68	2.55	0	3.61
SACO0J	25	10.37	3.8	2.85	8.22	0.34	0.17	0	0.25
SACO0K	25	10.34	3.79	2.81	8.18	0.34	0.18	0	0.25
SACO1Q	132	19.22	7.56	2.37	13.07	21.36	8.58	2.48	14.61
SACO1R	132	19.08	7.56	2.18	12.87	21.4	8.6	2.37	14.54
SACO3J	33	35.75	13.58	4.22	23.42	4.2	2.89	0	4.08
SACO3K	33	38.51	14.98	3.94	25.13	4.24	2.91	0	4.12
SANX0J	25	16.64	6.05	4.78	13.33	0.44	0.23	0	0.33
SANX0K	25	16.64	6.05	4.78	13.33	0.45	0.23	0	0.33
SANX1Q	132	22.86	8.34	4.65	16.44	26.29	9.86	5.04	18.99
SANX1R	132	22.87	8.34	4.65	16.44	26.3	9.86	5.05	19
SANX3-	33	31.87	11.27	5.32	21.26	2.96	2.05	0	2.91
SHRU3-	33	45.49	16.27	10.16	33.17	5.91	4.1	0	5.8
SIGH3-	33	50.8	17.62	10.73	35.64	5.86	4.06	0	5.74
SMEA1-	132	20.08	7.88	4.99	16.13	23.4	9.12	6.38	19.27
SMEA2-	275	79.83	29.38	17.66	59.21	81.87	31.2	17.36	61.48
SPAV3-	33	26.62	9.58	3.64	17.19	4.34	3	0	4.25
STHA2A	275	83.01	30.68	17.65	61.03	83.58	32.06	17.27	62.61
STHA2B	275	75.31	27.59	16.48	55.5	76.53	29.12	16.39	57.57
STHA3-	33	49.04	17.39	11.55	36.15	5.95	4.1	0	5.79
STHA4-	400	72.88	27.23	15.82	54.34	66.83	25.86	13.95	50.52
STIR3-	33	34.68	12.49	5.1	22.76	4.37	3.04	0	4.3
STLE0J	25	10.23	3.81	2.05	7.43	0.27	0.14	0	0.19
STLE0K	25	10.35	3.85	2.05	7.5	0.27	0.14	0	0.2
STLE1-	132	21.06	9.97	0.07	14.17	21.17	9.9	0.46	14.46
STLE3S	33	32.8	12.73	1.11	19.11	2.95	2.05	0	2.9
TELR3-	33	28.87	10.54	2.99	17.89	2.95	2.05	0	2.9
TODD3-	33	28.69	12.39	0.38	17.9	4.24	2.94	0	4.16
TONG1-	132	10.91	5.08	0.41	7.6	14.19	6.46	0.72	9.86
TONG5-	11	79.72	31.14	6.45	50.48	50.23	19.39	7.03	34.46
TORN1-	132	29.32	10.83	8.33	23.65	35.94	13.3	10.6	29.41
TORN4-	400	63.68	23.49	16.39	49.61	66.15	24.68	18.9	53.81
WAMR3-	33	38.91	15.28	2.4	24.01	3.02	2.09	0	2.96
WFIE1A	132	33.5	13.55	5.85	25.01	36.96	15.07	6.98	28.28
WFIE1B	132	43.79	17.35	5.77	30.31	47.7	19.56	6.93	34.58
WFIE2-	275	63.88	24.42	9.91	44.44	53.75	21.32	9.46	39.61
WFIE3-	33	50.45	19.02	5.51	32.41	3.01	2.08	0	2.95
WGEO3-	33	51.13	17.85	10.35	35.6	5.92	4.07	0	5.75
WHHO3-	33	46.76	16.52	10.73	34.09	5.87	4.07	0	5.76
WHTL3-	33	25.6	10.34	0.83	15.45	2.23	1.55	0	2.2
WISH0J	25	20.84	7.54	6.38	17.04	0.07	0.05	0	0.07
WISH0K	25	20.85	7.55	6.38	17.05	0.12	0.06	0	0.09
WISH1-	132	16.8	6.09	4.89	13.5	20.3	7.4	6.02	16.48
WISH2-	275	68.47	25.96	11.28	47.99	65.6	25.78	11.12	47.58
WISH3-	33	41.97	14.44	10.32	30.74	5.87	4.03	0	5.7
WIYH1-	132	45.14	17.39	9.86	34.45	56.11	22.14	12.65	43.96
WIYH2-	275	69.09	25.69	13.77	50.1	67.69	26.02	14.34	51.14
WLEE2-	275	56.86	21.61	7.98	38.54	49.56	21.4	9.96	40.22
WLEE3A	33	54.42	15.69	10.44	32.62	3.03	2.08	0	2.95
WLEE3B	33	54.61	15.76	10.44	32.73	3.03	2.09	0	2.95

WLEE3C	33	53.92	15.59	10.38	32.43	3.03	2.08	0	2.95

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Table D.2.6 - SPT Fault Levels (kA), Winter 2014/15

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ANDE1-	132	13.65	5.85	0.42	8.69	15.82	6.88	0.59	10.32
ANDE3-	33	25.3	9.87	1.97	15.93	1.48	1.02	0	1.45
AREC1-	132	13.65	5.28	1.8	9.27	15.82	6.16	2.44	11.15
AREC3A	33	33	12.64	4.31	22.18	2.25	1.56	0	2.21
AREC3B	33	33	12.64	4.31	22.18	2.25	1.56	0	2.21
AUCH2-	275	12.52	5.11	1.41	8.64	10.86	4.52	1.34	7.73
AUCO1-	132	10.04	4.13	0.52	6.36	11.85	4.91	0.74	7.67
AUCO3-	33	23.51	9.13	2.04	14.94	1.48	1.02	0	1.45
AYR-3-	33	48.02	17.22	9.92	34.28	5.87	4.07	0	5.76
BAGA3-	33	31.95	11.81	3.06	19.76	4.21	2.92	0	4.12
BAIN1-	132	34.08	13.53	3.28	22.41	34.92	14.34	3.21	23.49
BAIN3-	33	35.57	13.07	4.59	23.08	2.98	2.06	0	2.92
BERW1Q	132	11.79	5.49	0.31	8.08	11.58	5.33	0.51	8.06
BERW1R	132	11.8	5.49	0.34	8.11	11.53	5.34	0.36	7.91
BERW3-	33	37.08	15.24	1.28	22.84	4.5	3.11	0	4.4
BLAC3-	33	66.83	25.45	9.87	45.87	6.73	4.67	0	6.6
BLCW3-	33	32	12.6	2.26	20.09	2.23	1.55	0	2.19
BLLA3A	33	30.26	11.29	5.49	21.46	2.23	1.54	0	2.18
BLLA3B	33	30.28	11.3	5.48	21.46	2.23	1.54	0	2.18
BONN1-	132	46.36	17.67	8.44	33.44	58.46	22.79	11.24	43.47
BONN3-	33	41.3	14.98	5.11	26.3	2.85	1.97	0	2.79
BPGR3-	33	99.32	38.55	16.98	71.5	7.61	4.28	2.68	8.73
BRAP1-	132	14.11	6.13	0.13	8.8	15.37	6.76	0.42	9.98
BRAP3-	33	23.28	8.76	1.07	13.46	4.29	2.97	0	4.2
BROX3-	33	25.68	9.07	3.08	15.91	4.28	2.96	0	4.18
BUSB2-	275	57.54	21.94	9.19	40.22	52.34	20.83	7.28	36.74
CACR3-	33	22.5	9.59	0.53	14.09	2.8	1.94	0	2.74
CAFA5-	11	38.07	15.23	2.63	24.17	13.72	5.36	2.34	9.92
CATY0J	25	10.13	3.69	3.03	8.24	0.33	0.17	0	0.24
CATY0K	25	10.13	3.69	3.03	8.24	0.33	0.17	0	0.24
CATY1Q	132	22.83	8.32	4.64	16.41	25.93	9.64	5.71	19.35
CATY1R	132	22.83	8.32	4.64	16.41	25.92	9.64	5.7	19.34
CATY3-	33	29.39	10.37	4.89	19.56	2.96	2.05	0	2.9
CHAP1-	132	30.49	12.81	1	19.13	29.72	12.84	1.55	19.71
CHAP3-	33	40.53	15.32	4.16	25.82	4.53	3.14	0	4.44
CHAS3-	33	48.19	17.11	10.3	34.5	5.89	4.08	0	5.77
CLYM2-	275	88.1	32.15	18.69	64.17	81.18	31.25	15.42	59.62
CLYM3-	33	48.97	17.16	11.42	35.69	5.88	4.08	0	5.77
CLYN2Q	275	20.42	7.59	6.29	17.02	24.92	9.26	7.91	21
CLYN3A	33	51.06	19.21	10.3	37.47	2.99	2.07	0	2.93
CLYN3B	33	51.06	19.21	10.3	37.47	2.99	2.07	0	2.93
CLYN3C	33	51.06	19.21	10.3	37.47	2.99	2.07	0	2.93
CLYN3D	33	51.59	19.42	10.3	37.77	2.99	2.07	0	2.93

CLYS2R	275	17.37	6.41	5.64	14.71	21	7.77	6.89	17.88
CLYS3A	33	49.42	18.59	10	36.29	2.99	2.07	0	2.93
CLYS3B	33	49.42	18.59	10	36.29	2.99	2.07	0	2.93
COAL1-	132	25.98	9.55	7.54	21.05	33.37	12.32	9.94	27.36
COAL4-	400	53.53	20.49	9.61	38.58	46.36	18.3	8.16	34.04
COAT3-	33	40.03	13.77	11.84	31.31	5.82	4.03	0	5.7
COCK2-	275	83.5	30.01	21.34	63.78	85.5	31.75	22.64	67.55
COCK3-	33	49.65	17.69	11.66	36.68	5.91	4.1	0	5.79
COYL1-	132	31.93	12.62	5.61	23.46	38	15.02	7.33	28.58
COYL2-	275	41.86	15.92	9.08	31.59	44.07	17.13	9.14	33.36
COYL3-	33	46.57	17.86	4.91	30.17	3	2.08	0	2.94
CROO3J	33	32.99	11.94	3.62	20.5	2.96	2.05	0	2.9
CROO3K	33	33.17	12.4	3.62	21.17	2.97	2.06	0	2.91
CRYR1-	132	18.58	6.85	5.11	14.79	23.04	8.46	6.77	18.73
CRYR4-	400	53.92	19.8	13.38	41.37	51.83	19.55	12.25	39.9
CUMB3-	33	36.64	13.71	3.7	23.09	4.41	3.06	0	4.32
CUPA3-	33	29.97	11.79	0.34	17.01	2.95	2.04	0	2.88
CURR1-	132	26.6	9.31	7.8	20.98	33.78	12.34	9.56	27.02
CURR2-	275	72.99	27.23	13.56	52.07	65.72	25.77	11.56	48
CURR5-	11	33.65	12.07	6.25	23.32	4.42	3.06	0	4.33
DALL2-	275	34.77	12.8	7.04	25.13	33.56	12.72	7.08	25.06
DALM1-	132	24.54	8.73	7	19.35	28.34	10.37	7.77	22.43
DENN1-	132	40.37	15.9	6.14	28.62	46.41	18.81	7.55	34.15
DENN2-	275	74.96	27.79	16.25	55.55	70.54	26.9	16.71	54.76
DENN4-	400	22.27	8.21	6.86	18.47	20.01	7.46	6.4	16.96
DERS3-	33	36.57	14.19	3.3	23.36	2.25	1.56	0	2.21
DEVM0J	25	8.21	2.98	2.57	6.78	0.09	0.06	0	0.08
DEVM0K	25	8.21	2.98	2.57	6.78	0.09	0.06	0	0.08
DEVM1-	132	27.9	9.93	7.81	21.86	35.08	12.89	9.65	27.88
DEVM3-	33	33.79	12.26	4.78	22.12	2.97	2.06	0	2.91
DEVM4-	400	40.99	15.29	8.89	30.52	37.01	14.27	7.77	27.94
DEVO1-	132	23.37	10.13	0.67	15	22.41	9.76	1.3	15.1
DEVO3-	33	32.75	12.4	2.46	20	4.4	3.05	0	4.31
DEWP3-	33	47.89	16.55	10.64	34.04	7.63	5.28	0	7.47
DRCR3-	33	24.67	9.4	2.43	15.72	4.37	3.03	0	4.28
DRUM3-	33	49.05	17.2	11.07	35.39	5.9	4.09	0	5.78
DUMF1-	132	20.11	8.65	0.42	12.66	23.65	10.14	0.76	15.1
DUMF3-	33	48.04	19.15	1.5	28.59	4.5	3.12	0	4.41
DUMF3I	33	18.04	6.86	1.69	11.39	1.49	1.03	0	1.46
DUMF5-	11	35.01	12.83	3.84	21.98	4.41	3.05	0	4.32
DUNB3-	33	48.02	18.53	3.78	29.98	2.94	2.04	0	2.89
DUNE1-	132	18.29	7.72	0.92	11.84	19.56	8.29	1.4	13.11
DUNE3-	33	42.86	16.89	3.19	27.08	4.38	3.03	0	4.29
DUNF3-	33	33.46	12.77	3.7	21.76	4.43	3.07	0	4.34
DUNH3-	33	54.42	20.42	10.05	38.93	4.41	3.06	0	4.32
EAST5-	11	23.47	9.04	2.73	15.52	11.94	4.54	2.19	8.61
ECCF0J	25	15.77	5.94	2.41	10.81	0.15	0.08	0	0.11
ECCF0K	25	19.17	7.28	2.47	12.76	0.15	0.08	0	0.11
ECCF1J	132	18.65	8.7	0.09	12.39	16.05	7.57	0.13	10.83
ECCF1K	132	18.62	8.69	0.08	12.38	16.04	7.57	0.13	10.83
ECCL1-	132	31.44	11.98	8.76	25.71	39.81	15.25	11.37	32.94
ECCL3-	33	33.87	13.04	5.36	23.81	4.58	3.17	0	4.48
ECCL4-	400	68.69	24.78	16.75	51.8	55.09	21.16	10.56	40.49
EERH2-	275	76.3	28.13	15.52	55.31	66.54	25.87	11.71	48.29
EERH3-	33	52.82	18.21	13.11	38.85	5.89	4.08	0	5.77

EHAU3-	33	42.44	16.63	3.06	26.58	2.24	1.55	0	2.19
EKIL3-	33	52.79	18.4	14.47	40.49	5.9	4.09	0	5.79
EKIS2-	275	64.85	23.94	12.24	46.09	63.13	24.51	10.26	44.92
EKIS3-	33	40.84	14.62	10.02	30.68	5.87	4.07	0	5.75
ELDE3-	33	36.35	13.08	5	23.49	2.98	2.07	0	2.92
ELVA0J	25	18.78	6.65	9.07	18.48	0.13	0.07	0	0.1
ELVA0K	25	18.78	6.65	9.07	18.48	0.13	0.07	0	0.1
ELVA2Q	275	21.03	7.76	6.98	17.95	25.7	9.49	8.7	22.12
ELVA2R	275	18.12	6.63	6.43	15.81	22.02	8.08	7.91	19.33
ELVA4-	400	59.18	22.7	10.75	42.85	52.34	20.47	11.49	40.44
ERSK3-	33	20.09	7.61	1.05	11.82	1.49	1.03	0	1.46
EWEH3-	33	33.62	12.99	3.56	21.93	2.25	1.56	0	2.21
FALL1-	132	26.75	9.75	8.39	22.18	34.12	12.42	11.09	28.65
FALL3-	33	61.94	23.9	7	40.8	5.54	3.84	0	5.43
FALL4-	400	45.19	16.71	11.03	34.66	42.03	15.96	9.52	32.1
FIFE1-	132	29.92	12.03	5.23	22.24	33.26	13.57	5.81	25
FIFE1B	132	37.22	14.72	5.04	25.85	40.69	16.8	5.11	28.87
FINQ3-	33	31.23	11.93	3.99	20.86	4.42	3.06	0	4.33
GALA1-	132	20.34	8.89	0.36	12.93	20.17	8.94	0.66	13.31
GALA3-	33	37.61	14.91	1.32	22.41	2.21	1.53	0	2.17
GIFF3-	33	50.89	18.09	9.86	35.44	5.92	4.1	0	5.8
GLGL3-	33	53.43	21.11	3.29	33.15	5.85	4.06	0	5.74
GLLE1-	132	13.59	6.31	0.57	9.49	14.43	6.71	0.61	10.1
GLLE5-	11	42.72	15.91	8.66	31.16	34.56	12.87	7.63	25.83
GLLU3-	33	24.76	10.64	0.46	15.52	3.49	2.42	0	3.42
GLNI1-	132	47.28	18.47	6.39	32.51	54.33	22.03	6.42	37.58
GLNI3-	33	37.51	14.18	6.09	26.14	4.45	3.08	0	4.36
GLRO2-	275	46.44	18.22	6.14	31.9	37.26	15.08	5.43	26.76
GLRO3-	33	47.03	17.04	9.25	33.35	5.74	3.98	0	5.63
GORG3-	33	26.81	9.51	5.02	18.47	2.95	2.05	0	2.89
GOVA3-	33	32.44	11.9	3.51	20.35	2.98	2.06	0	2.92
GRMO2-	275	52.3	20.09	9.6	38.01	44.9	17.79	8.35	33.51
GRMO3A	33	40.6	14.23	9.59	29.71	5.81	4.03	0	5.69
GRMO3C	33	40.69	14.25	9.73	29.88	5.82	4.03	0	5.7
GRNA1-	132	39.48	15.26	7.9	29.48	50.11	19.4	11.08	38.51
GRNA4-	400	51.36	19.99	8.64	36.91	44.68	17.65	8.42	33.38
HAGR3-	33	32.26	11.78	2.95	19.61	2.96	2.05	0	2.9
HARB1-	132	14.86	5.49	3.83	11.6	18.15	6.7	4.95	14.43
HARB2-	275	50.45	19.69	6.63	34.48	40.17	16.41	4.83	28.03
HARE3-	33	59.12	22.99	5.35	37.86	5.42	3.76	0	5.31
HAWI1-	132	10.2	5.03	0.02	7.13	10.84	5.07	0.12	7.29
HAWI3-	33	22.83	9.6	0.18	13.75	2.91	2.02	0	2.86
HEAR3-	33	37.43	14.48	3.74	24.21	3.01	2.09	0	2.95
HELE1-	132	16.98	8.34	0.03	11.82	17.86	8.49	0.18	12.19
HELE3-	33	27.27	11.26	0.47	16.39	2.95	2.05	0	2.89
HLAW3-	33	28.29	10.81	3.67	18.96	2.21	1.53	0	2.17
HUER1-	132	29.15	10.78	8.56	23.8	36.16	13.59	10.34	29.56
HUER4-	400	56.26	20.42	14.43	43.32	59.55	22.07	16.58	47.79
HUNF3-	33	43.47	16.38	6.61	29.78	3	2.08	0	2.94
INKE3-	33	29.79	10.99	2.15	17.69	4.33	2.99	0	4.23
INKI1-	132	24.65	8.92	8.19	20.81	31.62	11.48	10.69	26.92
INKI4-	400	47.66	17.77	10.3	35.43	41.74	16.17	8.53	31.4
INVR2-	275	33.39	12.74	5.47	23.48	28.39	11.39	3.38	19.5
INWI0J	25	10.87	3.95	3.34	8.93	0.13	0.07	0	0.09
INWI0K	25	10.87	3.95	3.34	8.93	0.13	0.07	0	0.09

INWI1Q	132	28.66	10.62	6.92	21.94	34.56	12.92	7.96	26.23
INWI1R	132	28.66	10.62	6.92	21.94	34.56	12.92	7.96	26.23
JOHN3-	33	33.47	12.01	4.43	21.42	2.96	2.05	0	2.9
KAIM1-	132	14.62	5.37	4.2	11.79	18.02	6.61	5.45	14.79
KAIM2-	275	79.45	29.28	16.03	57.44	81.06	30.98	16.32	60.14
KAIM3-	33	52.22	18.45	11.13	37.22	5.9	4.09	0	5.78
KEOO1-	132	13.69	6.43	0.46	9.55	14.03	6.56	0.55	9.82
KEOO5-	11	36.63	13.84	5.76	25.33	28.23	10.65	5.03	20.09
KIER3-	33	34.46	12.26	5.34	22.68	4.37	3.03	0	4.28
KILB3-	33	32.97	12.19	5.3	22.54	2.99	2.07	0	2.93
KILB5-	11	28.44	10.4	4.07	18.77	2.97	2.06	0	2.91
KILS1-	132	21.07	8.65	4.53	16.75	23.96	9.66	5.9	19.56
KILS2-	275	46.88	17.58	11.55	36.41	52.04	19.84	12.98	41.04
KILS3-	33	39.4	14.1	9.91	29.85	5.87	4.07	0	5.75
KILS4-	400	49.53	18.92	9	35.75	47.16	18.43	9.18	35.24
KILT3-	33	49.59	17.36	10.48	35.02	5.88	4.07	0	5.76
KILW3-	33	29.11	10.97	4.39	19.89	4.39	3.04	0	4.3
KINC2-	275	70.55	26.22	18.36	55.43	61.32	23.62	14.45	47.86
KYLN3-	33	41.8	16.38	2.97	26.13	3.02	2.09	0	2.96
KYLS3-	33	106.28	40.44	15.7	72.89	8.83	6.12	0	8.66
LAMB2-	275	67.54	25.38	12.11	48	57.26	22.58	9.59	41.52
LEVE3-	33	31.6	12.29	0.91	18.3	2.96	2.05	0	2.9
LING3-	33	30.32	11	2.77	18.33	4.33	2.99	0	4.24
LINM3-	33	40.53	15.31	6.1	27.75	4.41	3.06	0	4.32
LOAN2-	275	121.88	42.84	33.21	93.8	124.37	45.33	36.33	100.43
MAHI1-	132	14.73	5.61	2.56	10.49	18.12	6.88	3.56	13.3
MAHI2-	275	15.57	6.3	1.96	10.86	14.64	5.97	2.36	10.8
MAHI3-	33	43.18	16.63	4.83	28.35	3.03	2.1	0	2.97
MARG3-	33	32.46	12.73	2.53	20.54	2.23	1.55	0	2.19
MARM0J	25	9.71	3.66	1.77	6.94	0.15	0.08	0	0.11
MARM0K	25	9.71	3.66	1.79	6.96	0.15	0.08	0	0.11
MAYB1-	132	19.58	8.79	0.38	12.81	19.28	8.68	0.71	12.99
MAYB3-	33	22.04	8.57	1.16	13.28	1.49	1.04	0	1.47
MEAD1-	132	16.1	6.65	0.9	10.3	16.97	7.06	1.81	11.8
MOFF1-	132	33.4	12.5	7.68	25.35	41.51	15.51	10.17	32.1
MOFF4-	400	46.5	18.05	7.78	33.31	35.68	14.33	6.24	26.5
MOSH5J	11	62.25	23.68	5.65	39.14	2.79	1.94	0	2.74
MOSH5K	11	62.28	23.68	5.68	39.17	2.79	1.94	0	2.74
MOSM1-	132	47.03	18.3	7	32.89	56.28	22.47	8.79	40.56
MOSM2Q	275	58.4	22.5	8.55	40.38	47.52	18.97	8.05	34.87
MOSM3Q	33	30.4	12.04	1.98	19	2.25	1.56	0	2.2
MOSM3R	33	30.4	12.04	1.98	19	2.25	1.56	0	2.2
NEAR2Q	275	57.64	22.01	8.94	40.08	50.7	20.17	7.68	36.2
NEAR3-	33	60.63	21.97	10.18	41.25	5.91	4.1	0	5.8
NECU1-	132	55.22	21	9.8	39.5	67.06	25.57	13	49.16
NECU2-	275	36.93	14.14	7.59	27.58	36.98	14.43	8	28.41
NEIL1-	132	38.77	13.63	10.31	29.59	49.6	18.2	12.75	38.49
NEIL2-	275	66.43	24.72	13.4	48.35	63.51	24.47	13.39	48
NEIW3-	33	40.78	15.86	3.15	25.57	3.02	2.09	0	2.96
NETS1-	132	9.92	4.7	0.21	6.85	11.39	5.36	0.25	7.83
NETS3-	33	10.68	4.6	0.34	6.84	2.15	1.45	0	2.06
NEWF3-	33	30.21	11.9	2.01	18.84	2.26	1.56	0	2.21
PAIS3-	33	34.05	12.27	5.49	22.84	2.97	2.06	0	2.91
PART3-	33	34.97	12.94	3.96	22.26	2.97	2.06	0	2.91
PENC3-	33	63.86	24.7	6.71	41.64	6.71	4.65	0	6.58

POOB0J	25	18.67	6.78	5.65	15.24	0.24	0.12	0	0.18
POOB0K	25	18.67	6.78	5.65	15.24	0.24	0.12	0	0.18
POOB3-	33	48.91	16.94	13.42	37.37	5.86	4.06	0	5.74
PORD3-	33	52.17	18.3	12.45	38.33	5.91	4.09	0	5.79
RAVE3-	33	42.32	16.01	4.45	27.1	5.86	4.06	0	5.74
REDH1-	132	31.56	13.62	0.62	19.88	33.32	14.76	1	21.88
REDH3-	33	31.77	11.83	2.62	19.35	3.68	2.55	0	3.6
SACO0J	25	10.34	3.79	2.84	8.2	0.34	0.17	0	0.25
SACO0K	25	10.34	3.79	2.81	8.17	0.34	0.18	0	0.25
SACO1Q	132	19.31	7.57	2.36	13.06	21.41	8.59	2.47	14.61
SACO1R	132	19.17	7.56	2.17	12.86	21.45	8.61	2.36	14.54
SACO3J	33	35.72	13.58	4.19	23.4	4.2	2.9	0	4.1
SACO3K	33	38.45	14.97	3.92	25.09	4.21	2.91	0	4.11
SANX0J	25	16.66	6.06	4.79	13.36	0.45	0.23	0	0.33
SANX0K	25	16.66	6.06	4.79	13.36	0.45	0.23	0	0.33
SANX1Q	132	22.65	8.26	4.62	16.29	26.05	9.76	5.02	18.83
SANX1R	132	22.65	8.26	4.62	16.3	26.06	9.77	5.03	18.84
SANX3-	33	31.83	11.25	5.32	21.23	2.96	2.05	0	2.9
SHRU3-	33	45.4	16.23	10.14	33.09	5.9	4.09	0	5.78
SIGH3-	33	50.69	17.57	10.7	35.55	5.85	4.05	0	5.73
SMEA1-	132	20.06	7.86	4.98	16.1	23.38	9.1	6.37	19.24
SMEA2-	275	80.39	29.42	17.53	59.13	82.2	31.2	17.25	61.37
SPAV3-	33	26.61	9.57	3.64	17.18	4.33	3	0	4.24
STHA2A	275	82.96	30.65	17.39	60.74	83.47	32.02	17.08	62.36
STHA2B	275	75.23	27.56	16.25	55.23	76.42	29.07	16.28	57.4
STHA3-	33	48.6	17.34	11.46	35.98	5.89	4.08	0	5.77
STHA4-	400	72.81	27.16	15.52	53.92	66.79	25.81	13.78	50.29
STIR3-	33	34.7	12.45	5.13	22.73	4.36	3.02	0	4.27
STLE0J	25	10.23	3.81	2.06	7.44	0.26	0.14	0	0.19
STLE0K	25	10.38	3.86	2.06	7.53	0.27	0.14	0	0.2
STLE1-	132	21.1	9.98	0.07	14.18	21.23	9.91	0.46	14.48
STLE3S	33	32.89	12.73	1.11	19.12	2.97	2.05	0	2.91
TELR3-	33	28.82	10.51	2.99	17.85	2.95	2.04	0	2.89
TODD3-	33	28.68	12.37	0.38	17.88	4.24	2.94	0	4.16
TONG1-	132	10.91	5.08	0.41	7.59	14.2	6.45	0.72	9.85
TONG5-	11	79.68	31.13	6.45	50.48	50.21	19.39	7.03	34.46
TORN1-	132	29.37	10.76	8.36	23.58	35.98	13.23	10.63	29.34
TORN4-	400	65.39	23.68	16.99	50.47	67.34	24.81	19.38	54.46
WAMR3-	33	38.91	15.28	2.4	24.01	3.02	2.09	0	2.96
WFIE1A	132	33.44	13.6	5.81	25.04	36.91	15.11	6.94	28.31
WFIE1B	132	43.65	17.38	5.72	30.3	47.61	19.58	6.89	34.58
WFIE2-	275	64.19	24.6	9.8	44.59	53.94	21.41	9.42	39.69
WFIE3-	33	50.46	19.03	5.5	32.41	3	2.08	0	2.94
WGEO3-	33	51.09	17.96	10.36	35.77	5.91	4.1	0	5.8
WHHO3-	33	46.66	16.48	10.7	34	5.86	4.06	0	5.74
WHTL3-	33	25.7	10.34	0.83	15.46	2.24	1.56	0	2.2
WISH0J	25	20.79	7.54	6.36	17.03	0.07	0.05	0	0.07
WISH0K	25	20.81	7.55	6.36	17.04	0.12	0.06	0	0.09
WISH1-	132	16.53	6.06	4.8	13.37	20.02	7.37	5.93	16.35
WISH2-	275	68.45	25.94	11.31	48	65.53	25.75	11.2	47.62
WISH3-	33	41.88	14.5	10.32	30.82	5.86	4.06	0	5.74
WIYH1-	132	44.88	17.39	9.77	34.37	55.83	22.14	12.55	43.86
WIYH2-	275	69.23	25.77	13.62	50.07	67.97	26.14	14.38	51.34
WLEE2-	275	56.78	21.59	7.97	38.49	49.22	21.35	9.82	40.02
WLEE3A	33	54.17	15.66	10.44	32.6	3.01	2.08	0	2.94

WLEE3B	33	54.36	15.74	10.44	32.7	3.01	2.08	0	2.94
WLEE3C	33	53.67	15.57	10.37	32.39	3.01	2.08	0	2.94

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Table D.2.7 - SPT Fault Levels (kA), Winter 2015/16

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ANDE1-	132	13.64	5.85	0.41	8.69	15.81	6.87	0.59	10.31
ANDE3-	33	25.29	9.86	1.97	15.92	1.48	1.02	0	1.45
AREC1-	132	13.66	5.29	1.8	9.27	15.82	6.16	2.44	11.16
AREC3A	33	33.01	12.64	4.32	22.19	2.25	1.56	0	2.21
AREC3B	33	33.01	12.64	4.32	22.19	2.25	1.56	0	2.21
AUCH2-	275	12.52	5.11	1.41	8.64	10.87	4.52	1.34	7.74
AUCO1-	132	10.04	4.13	0.52	6.36	11.84	4.9	0.74	7.67
AUCO3-	33	23.51	9.13	2.03	14.94	1.48	1.02	0	1.45
AYR-3-	33	48.03	17.23	9.93	34.3	5.88	4.07	0	5.76
BAGA3-	33	31.89	11.79	3.06	19.73	4.21	2.91	0	4.12
BAIN1-	132	34.03	13.52	3.28	22.4	34.86	14.32	3.21	23.46
BAIN3-	33	35.49	13.05	4.58	23.03	2.97	2.06	0	2.91
BERW1Q	132	11.78	5.49	0.31	8.08	11.57	5.33	0.51	8.05
BERW1R	132	11.79	5.49	0.34	8.1	11.52	5.34	0.36	7.91
BERW3-	33	37.07	15.24	1.28	22.83	4.5	3.11	0	4.4
BLAC3-	33	66.84	25.46	9.87	45.88	6.73	4.67	0	6.6
BLCW3-	33	32	12.6	2.26	20.09	2.23	1.55	0	2.19
BLLA3A	33	30.25	11.29	5.49	21.46	2.23	1.54	0	2.18
BLLA3B	33	30.27	11.3	5.48	21.45	2.22	1.54	0	2.18
BONN1-	132	46.33	17.67	8.4	33.4	58.41	22.78	11.2	43.41
BONN3-	33	41.22	14.96	5.1	26.26	2.84	1.97	0	2.78
BPGR3-	33	99.29	38.54	16.98	71.48	7.61	4.27	2.68	8.72
BRAP1-	132	14.11	6.13	0.13	8.8	15.37	6.76	0.42	9.98
BRAP3-	33	23.27	8.75	1.07	13.45	4.29	2.97	0	4.19
BROX3-	33	25.74	9.09	3.05	15.91	4.31	2.98	0	4.22
BUSB2-	275	57.54	21.94	9.19	40.22	52.35	20.84	7.28	36.75
CACR3-	33	22.48	9.58	0.53	14.09	2.8	1.94	0	2.74
CAFA5-	11	38.07	15.24	2.63	24.18	13.72	5.36	2.34	9.92
CATY0J	25	10.14	3.69	3.03	8.25	0.33	0.17	0	0.24
CATY0K	25	10.14	3.69	3.03	8.25	0.33	0.17	0	0.24
CATY1Q	132	22.81	8.32	4.64	16.4	25.94	9.65	5.71	19.36
CATY1R	132	22.81	8.32	4.63	16.39	25.94	9.65	5.71	19.35
CATY3-	33	29.36	10.36	4.88	19.53	2.96	2.05	0	2.9
CHAP1-	132	30.49	12.82	1.01	19.13	29.73	12.85	1.55	19.72
CHAP3-	33	40.52	15.32	4.16	25.82	4.53	3.14	0	4.44
CHAS3-	33	48.13	17.09	10.28	34.46	5.88	4.07	0	5.76
CLYM2-	275	88.14	32.18	18.71	64.22	81.21	31.27	15.43	59.65
CLYM3-	33	48.91	17.15	11.44	35.69	5.88	4.07	0	5.76
CLYN2Q	275	20.43	7.59	6.29	17.02	24.92	9.26	7.91	21
CLYN3A	33	51.06	19.21	10.3	37.47	2.99	2.07	0	2.93
CLYN3B	33	51.06	19.21	10.3	37.47	2.99	2.07	0	2.93
CLYN3C	33	51.06	19.21	10.3	37.47	2.99	2.07	0	2.93
CLYN3D	33	51.59	19.42	10.3	37.77	2.99	2.07	0	2.93

CLYS2R	275	17.37	6.41	5.64	14.71	21	7.77	6.89	17.88
CLYS3A	33	49.42	18.59	10	36.29	2.99	2.07	0	2.93
CLYS3B	33	49.42	18.59	10	36.29	2.99	2.07	0	2.93
COAL1-	132	26.01	9.57	7.54	21.07	33.4	12.34	9.94	27.39
COAL4-	400	53.56	20.5	9.62	38.61	46.38	18.31	8.16	34.05
COAT3-	33	39.99	13.76	11.82	31.28	5.81	4.03	0	5.69
COCK2-	275	83.54	30.04	21.35	63.83	85.52	31.77	22.65	67.58
COCK3-	33	49.62	17.68	11.65	36.66	5.91	4.09	0	5.79
COYL1-	132	32.13	12.69	5.69	23.63	38.21	15.1	7.42	28.77
COYL2-	275	41.85	15.92	9.07	31.58	44.05	17.12	9.13	33.35
COYL3-	33	46.55	17.85	4.92	30.16	2.99	2.07	0	2.93
CROO3J	33	32.99	11.97	3.63	20.56	2.96	2.07	0	2.92
CROO3K	33	33.18	12.4	3.63	21.16	2.97	2.06	0	2.91
CRYR1-	132	18.4	6.78	5.04	14.63	22.86	8.39	6.68	18.55
CRYR4-	400	54.08	19.82	13.4	41.43	51.89	19.56	12.26	39.93
CUMB3-	33	36.59	13.69	3.7	23.06	4.41	3.05	0	4.32
CUPA3-	33	29.86	11.76	0.33	16.96	2.95	2.04	0	2.89
CURR1-	132	26.61	9.31	7.81	20.98	33.81	12.36	9.55	27.03
CURR2-	275	73.07	27.26	13.37	51.92	65.83	25.81	11.49	47.99
CURR5-	11	33.6	12.06	6.24	23.29	4.41	3.06	0	4.32
DALL2-	275	34.76	12.8	6.99	25.09	33.55	12.72	7.06	25.05
DALM1-	132	24.52	8.72	7	19.33	28.38	10.38	7.78	22.46
DENN1-	132	40.33	15.89	6.09	28.57	46.35	18.79	7.51	34.09
DENN2-	275	74.93	27.84	15.95	55.32	70.54	26.93	16.62	54.71
DENN4-	400	22.29	8.22	6.86	18.49	20.01	7.47	6.4	16.96
DERS3-	33	36.58	14.19	3.3	23.37	2.26	1.56	0	2.21
DEVM0J	25	8.21	2.97	2.57	6.78	0.09	0.06	0	0.08
DEVM0K	25	8.21	2.97	2.57	6.78	0.09	0.06	0	0.08
DEVM1-	132	27.88	9.93	7.8	21.85	35.07	12.89	9.65	27.87
DEVM3-	33	33.78	12.26	4.78	22.12	2.97	2.06	0	2.91
DEVM4-	400	41	15.3	8.89	30.52	37.01	14.26	7.76	27.94
DEVO1-	132	23.33	10.12	0.67	14.99	22.43	9.76	1.3	15.11
DEVO3-	33	32.72	12.4	2.43	19.96	4.42	3.06	0	4.32
DEWP3-	33	48.55	16.78	10.75	34.48	7.77	5.38	0	7.6
DRCR3-	33	24.61	9.38	2.42	15.69	4.36	3.02	0	4.27
DRUM3-	33	49.02	17.19	11.06	35.37	5.9	4.09	0	5.78
DUMF1-	132	20.11	8.66	0.42	12.66	23.65	10.15	0.75	15.1
DUMF3-	33	48.04	19.15	1.5	28.59	4.5	3.12	0	4.41
DUMF3I	33	18.04	6.86	1.69	11.39	1.49	1.03	0	1.46
DUMF5-	11	35.01	12.83	3.84	21.98	4.41	3.05	0	4.32
DUNB3-	33	48.01	18.53	3.77	29.98	2.94	2.04	0	2.89
DUNE1-	132	18.28	7.72	0.92	11.83	19.55	8.28	1.4	13.11
DUNE3-	33	42.85	16.89	3.19	27.07	4.37	3.03	0	4.29
DUNF3-	33	33.44	12.76	3.67	21.72	4.43	3.07	0	4.35
DUNH3-	33	54.44	20.43	10.05	38.94	4.41	3.06	0	4.32
EAST5-	11	23.47	9.04	2.73	15.52	11.94	4.54	2.19	8.61
ECCF0J	25	15.77	5.94	2.41	10.81	0.15	0.08	0	0.11
ECCF0K	25	19.17	7.28	2.47	12.77	0.15	0.08	0	0.11
ECCF1J	132	18.66	8.71	0.09	12.4	16.05	7.57	0.13	10.84
ECCF1K	132	18.63	8.7	0.08	12.38	16.04	7.57	0.13	10.83
ECCL1-	132	31.43	11.98	8.76	25.7	39.8	15.25	11.37	32.93
ECCL3-	33	33.86	13.04	5.36	23.8	4.58	3.17	0	4.48
ECCL4-	400	68.86	24.86	16.8	51.95	55.15	21.19	10.58	40.55
EERH2-	275	76.34	28.15	15.53	55.34	66.57	25.87	11.72	48.31
EERH3-	33	52.76	18.19	13.09	38.81	5.88	4.07	0	5.76

EHAU3-	33	42.44	16.63	3.06	26.58	2.24	1.55	0	2.19
EKIL3-	33	52.72	18.38	14.45	40.45	5.9	4.09	0	5.78
EKIS2-	275	64.88	23.94	12.25	46.11	63.26	24.56	10.29	45.02
EKIS3-	33	41.05	14.69	10.05	30.83	5.91	4.09	0	5.79
ELDE3-	33	36.35	13.07	5	23.49	2.99	2.07	0	2.92
ELVA0J	25	18.77	6.65	9.07	18.48	0.13	0.07	0	0.1
ELVA0K	25	18.77	6.65	9.07	18.48	0.13	0.07	0	0.1
ELVA2Q	275	21.04	7.76	6.98	17.96	25.7	9.49	8.7	22.12
ELVA2R	275	18.12	6.63	6.43	15.81	22.02	8.08	7.91	19.34
ELVA4-	400	59.2	22.72	10.76	42.89	52.35	20.48	11.49	40.46
ERSK3-	33	20.08	7.61	1.05	11.81	1.49	1.03	0	1.46
EWEH3-	33	33.62	12.99	3.56	21.94	2.25	1.56	0	2.21
FALL1-	132	26.74	9.74	8.39	22.17	34.11	12.42	11.08	28.64
FALL3-	33	61.93	23.9	7	40.79	5.54	3.84	0	5.43
FALL4-	400	45.23	16.72	11.04	34.69	42.04	15.97	9.53	32.11
FIFE1-	132	30.02	12.06	5.26	22.32	33.35	13.6	5.84	25.08
FIFE1B	132	37.34	14.77	5.06	25.94	40.77	16.84	5.11	28.93
FINQ3-	33	31.28	11.95	3.97	20.87	4.44	3.07	0	4.35
GALA1-	132	20.34	8.89	0.36	12.93	20.16	8.94	0.66	13.31
GALA3-	33	37.59	14.91	1.32	22.41	2.21	1.53	0	2.17
GIFF3-	33	50.84	18.07	9.85	35.4	5.91	4.1	0	5.79
GLGL3-	33	53.43	21.12	3.29	33.16	5.85	4.06	0	5.74
GLLE1-	132	13.58	6.3	0.56	9.48	14.42	6.71	0.61	10.1
GLLE5-	11	42.73	15.91	8.66	31.16	34.56	12.87	7.63	25.83
GLLU3-	33	24.75	10.64	0.46	15.51	3.49	2.42	0	3.42
GLNI1-	132	47.61	18.59	6.38	32.67	54.61	22.14	6.41	37.72
GLNI3-	33	37.53	14.19	6.08	26.15	4.46	3.09	0	4.37
GLRO2-	275	46.57	18.28	6.07	31.93	37.31	15.11	5.41	26.77
GLRO3-	33	47.03	17.04	9.25	33.36	5.74	3.98	0	5.63
GORG3-	33	26.88	9.53	5.02	18.51	2.98	2.06	0	2.92
GOVA3-	33	32.45	11.9	3.51	20.34	2.98	2.06	0	2.92
GRMO2-	275	52.35	20.12	9.51	37.96	44.97	17.82	8.32	33.51
GRMO3A	33	40.86	14.32	9.62	29.87	5.86	4.06	0	5.74
GRMO3C	33	40.95	14.34	9.77	30.05	5.86	4.06	0	5.75
GRNA1-	132	39.49	15.27	7.9	29.49	50.12	19.4	11.09	38.53
GRNA4-	400	51.41	20.01	8.65	36.95	44.71	17.67	8.42	33.41
HAGR3-	33	32.27	11.81	2.94	19.65	2.96	2.07	0	2.92
HARB1-	132	14.85	5.49	3.82	11.58	18.14	6.7	4.94	14.42
HARB2-	275	50.44	19.7	6.63	34.48	40.16	16.41	4.83	28.03
HARE3-	33	59.12	22.99	5.35	37.87	5.42	3.76	0	5.31
HAWI1-	132	10.2	5.03	0.02	7.14	10.84	5.07	0.12	7.29
HAWI3-	33	22.83	9.6	0.18	13.76	2.92	2.02	0	2.86
HEAR3-	33	37.43	14.48	3.74	24.21	3.01	2.09	0	2.95
HELE1-	132	16.97	8.34	0.03	11.82	17.9	8.51	0.17	12.21
HELE3-	33	27.27	11.27	0.46	16.4	2.97	2.06	0	2.91
HLAW3-	33	28.28	10.81	3.67	18.95	2.21	1.53	0	2.17
HUER1-	132	28.98	10.71	8.53	23.68	35.96	13.51	10.33	29.43
HUER4-	400	56.26	20.43	14.44	43.32	59.55	22.07	16.58	47.8
HUNF3-	33	43.49	16.39	6.62	29.8	2.99	2.08	0	2.94
INKE3-	33	29.74	10.98	2.11	17.63	4.33	3	0	4.24
INKI1-	132	24.65	8.92	8.19	20.8	31.61	11.48	10.69	26.91
INKI4-	400	47.67	17.77	10.3	35.43	41.73	16.17	8.5	31.37
INVR2-	275	33.41	12.74	5.48	23.5	28.4	11.4	3.39	19.51
INWI0J	25	10.86	3.95	3.34	8.92	0.13	0.07	0	0.09
INWI0K	25	10.86	3.95	3.34	8.92	0.13	0.07	0	0.09

INWI1Q	132	28.65	10.62	6.91	21.93	34.55	12.92	7.95	26.22
INWI1R	132	28.65	10.62	6.91	21.93	34.55	12.92	7.95	26.22
JOHN3-	33	33.48	12	4.43	21.4	2.97	2.05	0	2.9
KAIM1-	132	14.61	5.36	4.2	11.78	18.01	6.6	5.45	14.78
KAIM2-	275	79.53	29.31	16.05	57.5	81.19	31.04	16.35	60.24
KAIM3-	33	52.19	18.44	11.12	37.2	5.9	4.09	0	5.78
KEOO1-	132	13.68	6.43	0.46	9.55	14.01	6.55	0.55	9.82
KEOO5-	11	36.63	13.84	5.76	25.34	28.23	10.65	5.03	20.09
KIER3-	33	34.55	12.3	5.33	22.72	4.4	3.04	0	4.3
KILB3-	33	32.88	12.16	5.29	22.49	2.98	2.06	0	2.92
KILB5-	11	28.42	10.39	4.06	18.76	2.97	2.06	0	2.91
KILS1-	132	21.05	8.65	4.53	16.76	23.94	9.65	5.9	19.54
KILS2-	275	46.88	17.58	11.55	36.41	52.04	19.84	12.98	41.03
KILS3-	33	39.41	14.1	9.91	29.86	5.87	4.07	0	5.75
KILS4-	400	49.53	18.92	9	35.76	47.17	18.43	9.18	35.25
KILT3-	33	49.6	17.36	10.48	35.03	5.88	4.07	0	5.76
KILW3-	33	29.15	10.98	4.42	19.95	4.39	3.04	0	4.3
KINC2-	275	70.72	26.29	18.24	55.42	61.41	23.67	14.38	47.85
KYLN3-	33	41.8	16.38	2.97	26.13	3.02	2.09	0	2.96
KYLS3-	33	106.28	40.44	15.7	72.89	8.83	6.12	0	8.66
LAMB2-	275	67.57	25.4	12.11	48.04	57.26	22.58	9.59	41.52
LEVE3-	33	31.54	12.28	0.89	18.26	2.97	2.06	0	2.91
LING3-	33	30.33	11.01	2.74	18.31	4.35	3.01	0	4.26
LINM3-	33	40.57	15.33	6.06	27.74	4.45	3.08	0	4.36
LOAN2-	275	122.12	42.97	33.29	94.06	124.52	45.41	36.38	100.6
MAHI1-	132	14.74	5.61	2.56	10.5	18.12	6.89	3.57	13.3
MAHI2-	275	15.57	6.3	1.96	10.86	14.64	5.97	2.36	10.81
MAHI3-	33	43.19	16.63	4.83	28.35	3.03	2.1	0	2.97
MARG3-	33	32.46	12.73	2.53	20.54	2.23	1.55	0	2.19
MARM0J	25	9.73	3.66	1.77	6.95	0.15	0.08	0	0.11
MARM0K	25	9.73	3.66	1.79	6.97	0.15	0.08	0	0.11
MAYB1-	132	19.6	8.8	0.38	12.82	19.32	8.7	0.71	13.01
MAYB3-	33	22.08	8.59	1.15	13.29	1.5	1.04	0	1.47
MEAD1-	132	16.11	6.65	0.92	10.32	17.01	7.08	1.82	11.83
MOFF1-	132	33.41	12.5	7.68	25.35	41.51	15.51	10.17	32.11
MOFF4-	400	46.53	18.07	7.78	33.33	35.7	14.34	6.24	26.52
MOSH5J	11	62.2	23.66	5.64	39.1	2.79	1.93	0	2.74
MOSH5K	11	62.23	23.66	5.67	39.14	2.79	1.93	0	2.74
MOSM1-	132	47.33	18.42	7.06	33.12	56.58	22.59	8.84	40.79
MOSM2Q	275	58.53	22.56	8.57	40.48	47.54	18.99	8.05	34.91
MOSM3Q	33	30.38	12.03	1.98	18.99	2.25	1.56	0	2.2
MOSM3R	33	30.38	12.03	1.98	18.99	2.25	1.56	0	2.2
NEAR2Q	275	57.64	22.02	8.95	40.09	50.73	20.18	7.68	36.22
NEAR3-	33	60.85	22.05	10.17	41.35	5.95	4.12	0	5.83
NECU1-	132	55.22	21	9.8	39.5	67.06	25.57	13	49.16
NECU2-	275	36.92	14.14	7.58	27.58	36.98	14.43	8	28.41
NEIL1-	132	38.68	13.61	10.31	29.57	49.5	18.19	12.75	38.48
NEIL2-	275	66.42	24.72	13.4	48.36	63.49	24.47	13.38	47.99
NEIW3-	33	40.78	15.86	3.15	25.57	3.02	2.09	0	2.96
NETS1-	132	9.91	4.69	0.21	6.85	11.38	5.35	0.25	7.82
NETS3-	33	10.67	4.59	0.34	6.84	2.15	1.45	0	2.06
NEWF3-	33	30.21	11.9	2.01	18.85	2.26	1.56	0	2.21
PAIS3-	33	34.05	12.31	5.49	22.9	2.97	2.07	0	2.93
PART3-	33	35.05	12.97	3.96	22.3	2.98	2.07	0	2.92
PENC3-	33	63.87	24.71	6.71	41.65	6.72	4.66	0	6.58

POOB0J	25	18.66	6.78	5.64	15.23	0.24	0.12	0	0.18
POOB0K	25	18.66	6.78	5.64	15.23	0.24	0.12	0	0.18
POOB3-	33	48.88	16.93	13.41	37.34	5.86	4.06	0	5.74
PORD3-	33	52.14	18.29	12.45	38.31	5.9	4.09	0	5.79
RAVE3-	33	42.61	16.13	4.48	27.28	5.9	4.09	0	5.79
REDH1-	132	31.61	13.65	0.61	19.92	33.37	14.79	1	21.92
REDH3-	33	31.78	11.84	2.59	19.33	3.69	2.56	0	3.62
SACO0J	25	10.37	3.8	2.85	8.22	0.34	0.17	0	0.25
SACO0K	25	10.34	3.79	2.81	8.18	0.34	0.18	0	0.25
SACO1Q	132	19.25	7.55	2.37	13.04	21.34	8.56	2.46	14.57
SACO1R	132	19.11	7.54	2.17	12.84	21.38	8.58	2.36	14.49
SACO3J	33	35.73	13.59	4.23	23.44	4.18	2.88	0	4.07
SACO3K	33	38.49	14.99	3.94	25.14	4.21	2.91	0	4.11
SANX0J	25	16.64	6.05	4.78	13.34	0.44	0.23	0	0.33
SANX0K	25	16.64	6.05	4.79	13.35	0.45	0.23	0	0.33
SANX1Q	132	22.64	8.25	4.62	16.28	26.08	9.78	5.03	18.86
SANX1R	132	22.64	8.25	4.62	16.28	26.08	9.78	5.03	18.86
SANX3-	33	31.9	11.27	5.35	21.29	2.98	2.07	0	2.92
SHRU3-	33	45.37	16.22	10.16	33.09	5.89	4.08	0	5.77
SIGH3-	33	51.05	17.7	10.76	35.79	5.9	4.09	0	5.78
SMEA1-	132	20.05	7.86	4.98	16.1	23.37	9.1	6.37	19.23
SMEA2-	275	80.43	29.45	17.54	59.19	82.24	31.23	17.26	61.44
SPAV3-	33	26.6	9.57	3.64	17.17	4.33	3	0	4.24
STHA2A	275	83.18	30.67	17.4	60.78	83.64	32.04	17.09	62.41
STHA2B	275	75.27	27.57	16.27	55.26	76.5	29.1	16.24	57.39
STHA3-	33	48.9	17.44	11.54	36.21	5.93	4.11	0	5.82
STHA4-	400	72.83	27.18	15.53	53.97	66.82	25.83	13.79	50.32
STIR3-	33	34.74	12.47	5.09	22.72	4.38	3.04	0	4.29
STLE0J	25	10.22	3.8	2.05	7.43	0.26	0.14	0	0.19
STLE0K	25	10.41	3.87	2.05	7.53	0.27	0.14	0	0.2
STLE1-	132	21.1	9.99	0.07	14.19	21.21	9.9	0.46	14.46
STLE3S	33	32.83	12.71	1.11	19.09	2.96	2.05	0	2.9
TELR3-	33	28.89	10.53	2.97	17.87	2.97	2.06	0	2.91
TODD3-	33	28.67	12.37	0.38	17.88	4.24	2.94	0	4.15
TONG1-	132	10.9	5.08	0.41	7.59	14.19	6.45	0.72	9.84
TONG5-	11	79.67	31.13	6.45	50.48	50.21	19.39	7.03	34.46
TORN1-	132	29.38	10.76	8.36	23.58	35.98	13.23	10.63	29.33
TORN4-	400	65.48	23.72	16.8	50.35	67.39	24.84	19.27	54.39
WAMR3-	33	38.91	15.28	2.4	24.01	3.02	2.09	0	2.96
WFIE1A	132	33.58	13.66	5.88	25.2	37.04	15.16	7.01	28.46
WFIE1B	132	43.9	17.48	5.78	30.49	47.81	19.66	6.94	34.74
WFIE2-	275	64.36	24.69	9.83	44.75	53.98	21.44	9.43	39.75
WFIE3-	33	50.5	19.05	5.51	32.45	3.01	2.09	0	2.95
WGEO3-	33	51.06	17.96	10.35	35.75	5.91	4.1	0	5.79
WHHO3-	33	47	16.6	10.76	34.24	5.91	4.1	0	5.8
WHTL3-	33	25.67	10.33	0.83	15.45	2.24	1.55	0	2.2
WISH0J	25	20.83	7.56	6.38	17.06	0.07	0.05	0	0.07
WISH0K	25	20.85	7.56	6.38	17.07	0.12	0.06	0	0.09
WISH1-	132	16.52	6.06	4.8	13.36	20.01	7.37	5.92	16.34
WISH2-	275	68.59	25.95	11.32	48.02	65.62	25.78	11.21	47.67
WISH3-	33	41.84	14.48	10.3	30.79	5.85	4.05	0	5.73
WIYH1-	132	45.21	17.5	9.87	34.62	56.2	22.26	12.64	44.13
WIYH2-	275	69.25	25.79	13.62	50.09	67.95	26.13	14.37	51.33
WLEE2-	275	56.81	21.59	7.85	38.38	49.47	21.4	9.89	40.16
WLEE3A	33	54.37	15.71	10.43	32.65	3.02	2.09	0	2.96

WLEE3B	33	54.56	15.79	10.46	32.79	3.02	2.09	0	2.96
WLEE3C	33	53.87	15.62	10.37	32.46	3.02	2.09	0	2.96

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Table D.3.1 - NGET Fault Levels (kA), Winter 2009/10

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	37.33	13.34	7.15	26.01	34.84	13.44	6.12	25.13
ABHA4B	400	37.31	13.33	7.14	25.99	34.82	13.43	6.12	25.12
ABTH11	132	31.18	12.1	6.89	24	31.18	14.42	9.36	29.75
ABTH12	132	51.81	19	13.97	40.84	51.81	23.12	18.03	50.73
ABTH13	132	11.79	4.66	1.59	8.17	11.79	3.97	2.34	7.95
ABTH20	275	85.87	30.15	22.15	64.79	93.63	34.84	25.64	74.92
ALDW20	275	62.39	22.79	10.18	42.41	60.42	23.79	10.16	43.8
ALVE4A	400	25.86	9.65	4.27	17.92	21.51	8.55	3.14	15.23
ALVE4B	400	25.96	9.69	4.27	17.97	21.74	8.64	3.15	15.37
AMEM10	132	27.85	10.03	9.94	24.12	27.85	12.59	11.17	28.98
AMEM4A	400	54.28	20.37	10.72	39.53	43.94	17.42	7.17	31.81
AMEM4B	400	50.52	19.22	9.25	36.42	40.74	16.24	6.56	29.53
AXMI10	132	27.67	9.59	9.24	22.81	27.67	12.21	10.41	27.68
AXMI40	400	41.34	14.79	8.96	29.88	34.35	13.3	6.47	25.28
BAGB20	275	54.31	20.02	11.85	40.16	52.99	20.47	12.24	41.19
BARK10	132	26.55	9.34	10.1	23.31	26.55	10.46	10.53	25.32
BARK21	275	74.49	26.73	21.22	59.02	76.01	28.74	19.7	60.34
BARK22	275	76.96	27.57	22.59	61.58	80.07	30.21	21.05	63.77
BARK40	400	111.8	38.72	28.23	82.99	99.3	38.38	20.37	74.64
BARP21	275	66.45	24.06	17.8	51.82	64.98	24.88	14.72	49.91
BARP22	275	69.35	25.01	19.39	54.76	69.75	26.57	16.38	53.96
BEDD21	275	55.46	20.47	12.7	41.64	57.98	22.37	12.83	44.47
BEDD22	275	82.66	29.51	18.83	60.57	84.13	32.6	17.36	63.46
BEDD4A	400	63.9	23.55	13.26	46.57	51.58	20.6	11.28	40.41
BEDD4B	400	11.32	4.09	4.1	9.88	11.42	4.18	4.12	10.03
BESW20	275	63.89	22.87	11.83	44.17	57.13	22.36	9.69	41.31
BICF10	132	27.93	10.13	10.44	24.77	27.93	11.28	10.65	26.61
BICF4A	400	62.39	23.05	15.63	48.23	45.1	17.73	8.31	33.37
BICF4B	400	59.76	22	15.57	46.68	46.72	18.22	9	34.76
BIRK20	275	51.94	18.01	16.04	41.51	54.37	20.34	13.91	42.67
BISW20	275	69.32	24.81	12.6	47.68	65.09	25.63	10.37	46.62
BLYT21	275	63.2	23.14	9.52	42.25	57.26	22.56	8.91	40.81
BLYT22	275	53.31	20.14	7.35	35.82	44.48	17.86	5.86	31.11
BLYT60	66	51.83	17.21	15.14	39.48	51.83	10.82	12.04	27.35
BOLN40	400	69.51	24.57	16.07	50.82	55.4	21.38	11.47	41.7
BOTW40	400	82.79	28.55	20.32	60.69	75.03	28.64	14.87	55.38
BRAI4A	400	62.58	23.07	13.78	46.4	47.3	18.54	8.3	34.52
BRAI4B	400	65.46	24.18	14.36	48.56	47.82	18.77	8.35	34.9
BRAW20	275	72.49	26.05	16.75	53.59	71.04	27.35	14.57	53.26
BRAW4A	400	38.87	14.34	9.43	29.72	34.14	13.07	8.01	26.49
BRED20	275	70.31	25.67	14.34	50.64	68.75	26.71	12.5	50.28
BRFO40	400	67.11	24.36	15.22	49.67	59.14	22.81	11.58	43.84
BRIM10	132	53.01	18.21	20.55	46.31	53.01	23.16	24.46	57.22

BRIM2A	275	88.21	32.03	21.67	66.96	82.57	32.03	16.89	62.19
BRIM2B	275	86.52	31.53	20.27	64.86	81.65	32.2	16.52	62.07
BRIM2C	275	88.31	32.11	21.78	67.19	82.35	32.04	16.38	61.69
BRIM2D	275	84.58	30.96	19.25	63.03	78.66	31.23	14.75	58.91
BRIN21	275	66.17	23.78	14.87	48.5	71.26	27.72	13.96	53.16
BRIN22	275	70.72	25.5	18.2	54.26	73.99	28.34	17.7	57.78
BRIN2M	275	27.67	9.96	10.37	24.46	28.51	10.48	9.77	24.59
BRIN40	400	75.02	27.37	17.38	56.09	56.13	21.73	12.56	43.28
BRLE40	400	123.68	42.99	28.81	89.61	107.47	41.2	22.19	80.45
BRWA2A	275	19.76	7.23	5.41	15.64	19.87	7.56	4.8	15.49
BRWA2B	275	19.72	7.21	5.45	15.65	19.71	7.49	4.83	15.42
BRWA2C	275	19.7	7.21	5.4	15.6	19.8	7.54	4.79	15.45
BRWE10	132	20.15	7.04	8.22	18.17	20.15	2.23	2.12	5.28
BURW40	400	95.41	34.43	23.83	72.52	61.79	24.7	10.43	45.35
BUSH20	275	64.14	23.05	12.92	45.51	61.85	24.11	10.56	44.66
BUST21	275	71.16	25.3	15.93	51.72	64.97	25.96	12.03	48.74
BUST22	275	70.29	25	15.68	51.03	62.45	25.38	10.55	46.45
CANT40	400	96.77	34.29	20.75	69.24	72.28	28.68	11.12	51.68
CAPE21	275	54.63	18.92	18.4	45.17	60.05	22.07	18.32	49.54
CAPE22	275	35.14	12.51	12.91	30.61	38.73	14.17	13.11	33.15
CAPE4A	400	97.08	33.89	25.21	73.14	83.86	31.82	18.49	63.49
CAPE4B	400	103.6	35.78	28.12	78.72	90.5	34.17	20.61	68.93
CARE20	275	51.18	19.08	9.35	36.33	45	17.78	8.18	33.33
CARR11	132	28.53	10.46	8.45	23.24	28.53	12.67	9.57	27.49
CARR12	132	51.84	17.81	16.75	41.94	51.84	23.37	19.79	52.84
CARR20	275	81.35	28.97	22.23	63.21	86.92	32.77	21.24	67.58
CARR4A	400	116.25	41.76	21.86	80.92	91.22	35.95	15.54	66.38
CARR4B	400	115.46	41.59	21.18	80	89.24	35.31	14.65	64.59
CARR4H	400	120.91	43.28	22.92	84.12	93.66	36.93	15.84	68.07
CELL11	132	43.98	14.81	14.37	35.31	43.98	19.68	16.54	44.37
CELL12	132	30.12	10.48	10.31	25.13	30.12	13.06	11.47	29.94
CELL40	400	95.39	34.75	16.76	65.91	75.33	29.71	13.35	55.37
CHIC41	400	39.21	14.17	8.64	28.68	31.51	12.27	5.86	23.21
CHIC42	400	38.95	14.07	8.62	28.51	30.08	11.75	5.38	22.01
CHSI20	275	87.1	31.39	18.14	62.54	77.42	30.52	13.08	56.24
CHTE20	275	71.57	25.28	18.2	53.95	62.83	24.18	13.44	47.64
CILF2A	275	48.06	17.63	13.08	38.01	43.47	16.58	11.26	34.71
CILF2B	275	48.01	17.6	13.07	37.96	47.8	18.23	11.97	37.74
CILF40	400	73.1	26.16	16.96	53.95	62.74	24.14	12.52	46.66
CITR41	400	101.78	35.24	25.97	75.8	108.62	41.44	22.07	80.68
CITR42	400	101.69	35.21	25.94	75.73	108.44	41.4	21.87	80.43
CLEV40	400	94.57	33.9	20.07	68.02	70.26	28.03	9.31	48.95
COSO40	400	96.53	34.62	23.01	71.96	85.56	32.63	20.61	66.76
COTT40	400	130.92	46.11	35.04	100.25	127.42	47.35	35.79	102.76
COVE20	275	64.19	22.86	12.82	45.15	60.64	23.37	11.56	44.61
COVE2A	275	63.54	22.62	12.82	44.82	60.05	23.12	11.56	44.26
COWB2A	275	66.63	24.3	13.61	47.98	59.61	23.5	9.03	42.26
COWL40	400	132.64	46.48	34.64	100.37	114.06	43.42	24.87	86.27
CREB2A	275	76.77	27.43	25.52	64.31	75.81	28.23	21.8	61.73
CREB2B	275	76.7	27.41	25.49	64.25	75.77	28.22	21.78	61.69
CREB40	400	147.26	52.21	38.19	112.02	112.41	43.47	23.25	84.74
CULJ4A	400	119.14	41.86	31.94	91.15	112.9	42.23	28.92	88.64
DAIN40	400	130.46	46.33	25.37	90.88	102.03	40.11	17.43	74.15
DAMC40	400	115.62	39.83	34.95	91.27	119.16	43.71	35.86	97.67
DEES41	400	119.86	41.14	32.38	90.57	117.37	43.46	32.33	93.79

DEES42	400	111.33	38.71	28.18	82.93	105.04	39.32	26.57	82.18
DIDC41	400	126.86	44.01	36.34	98.59	129.3	47.39	39.61	106.63
DIDC42	400	111.61	38.36	34.23	88.47	113.16	41.17	36.85	95.08
DINO40	400	86.79	29.01	26.22	67.25	89.48	32.66	26.51	72.7
DRAK10	132	40.17	12.06	11.85	28.9	40.17	16.49	15.23	38.55
DRAK21	275	68.06	24.16	17.48	51.65	68.56	25.83	17.3	53.83
DRAK22	275	67.43	24.2	18.89	53.12	69.71	26.23	17.81	54.91
DRAK41	400	101.06	36.16	20.07	71.2	88.69	34.33	16.64	65.19
DRAK42	400	80.53	29.25	15.07	56.44	70.55	27.61	11.25	50.3
DRAX11	132	15.64	5.37	5.61	13.21	15.64	6.97	7.13	16.99
DRAX12	132	15.1	5.19	5.44	12.77	15.1	6.74	6.93	16.47
DRAX41	400	142.58	49.55	40.94	111.01	144.26	52.94	43.14	118.01
DRAX42	400	145.37	49.95	42.17	112.81	146.87	53.77	43.7	119.74
DUBR4A	400	40.22	14.95	9.12	30.26	31.77	12.36	6.02	23.5
DUBR4B	400	49.49	18.58	10.71	36.98	40.46	15.96	7.37	29.95
DUNG20	275	46.25	16.35	15.83	38.95	50.59	18.54	16.26	42.47
DUNG40	400	79.45	27.94	19.76	59.28	78.66	29.88	17.96	60.22
EALI20	275	62.98	22.34	18.01	49.61	68.07	26.8	13.69	51.6
EALI60	66	60.42	20.66	19.26	48.48	60.42	25.58	20.59	56.76
EASO40	400	85.98	31.07	20.36	64.3	66.19	25.51	14.67	50.74
ECLA10	132	45.66	15.75	16.47	38.75	45.66	19.34	17.79	45.15
ECLA40	400	117.65	42.48	25.12	85.2	91.94	36.01	16.23	67.15
EGGB41	400	107.44	38.09	28.36	82.22	101.36	37.96	25.66	79.35
EGGB42	400	133.01	45.85	36.95	101.79	129.75	48.06	33.38	101.36
ELLA11	132	28.07	9.84	9.15	23.07	28.07	12.59	10.32	28.13
ELLA12	132	28.71	10.07	9.25	23.49	28.71	12.69	10.35	28.3
ELLA20	275	69.44	25.24	13.56	49.25	61.56	24.18	10.45	44.65
ELST11	132	30.16	9.98	10.41	24.52	30.16	13.68	12.43	31.78
ELST12	132	38.76	12.66	12.06	29.96	38.76	16.75	13.55	37.24
ELST1A	132	10.7	3.86	3.36	8.82	10.7	4.87	3.89	10.77
ELST1B	132	10.37	3.78	3.19	8.53	10.37	4.74	3.7	10.41
ELST21	275	68.6	24.6	17.59	52.38	74.63	28.17	18.81	58.65
ELST22	275	63.93	22.94	13.45	45.89	71.15	27.18	14.34	52.78
ELST2A	275	67.85	24.32	17.52	51.92	73.73	27.81	18.74	58.06
ELST2B	275	63.27	22.7	13.43	45.53	70.34	26.85	14.33	52.3
ELST40	400	85.63	30.35	20.85	63.77	94.52	35.97	21.84	72.71
ELST4A	400	59.25	22.06	14.39	45.59	54.3	20.78	14.38	43.77
ELST4B	400	45.28	17.2	8.34	32.66	41.48	16.14	8.42	31.26
ENDE40	400	89.31	32.58	18.21	64.29	60.94	24.3	9.37	43.74
EXET40	400	59.08	20.47	13.13	42.08	55.56	21.14	11.47	41.36
FAWL10	132	50.8	16.23	17.98	40.93	50.8	23.85	24.94	58.67
FAWL40	400	90.31	30.6	23.57	66.84	89.63	33.17	23.46	70.37
FECK20	275	67.3	24.28	15.2	49.55	67.21	25.74	15.57	51.97
FECK40	400	83.6	30.77	14.81	58.32	70.46	27.61	13.78	52.82
FENW4A	400	111.71	40.15	27.99	84.77	92.93	35.66	18.48	68.91
FERR11	132	35.1	12	12.01	28.98	35.1	15.27	14.83	36.43
FERR12	132	32	10.99	10.19	25.73	32	14.19	12.62	32.69
FERR13	132	10.76	3.97	3.4	9.02	10.76	4.2	3.59	9.53
FERR21	275	71.67	25.53	19.86	55.97	76.12	28.47	20.57	60.83
FERR22	275	77.22	27.26	24.64	63.19	83.52	30.73	26.15	69.61
FERR23	275	84.98	29.69	25.3	67.28	93.39	34.46	27.11	75.84
FERR2A	275	85.06	29.72	25.37	67.4	93.15	34.39	26.9	75.53
FERR2B	275	71.17	25.37	19.6	55.48	75.19	28.19	19.68	59.55
FERR4A	400	89.88	31.84	23.63	68.66	80.61	30.32	20.4	63.28
FFES21	275	37.35	13.85	7.61	27.2	36.43	14.33	6.4	26.67

FFES22	275	35.08	13.24	5.88	24.61	33.5	13.41	4.45	23.42
FIDF21	275	67.73	22.94	23.89	56.33	71.95	25.88	24.86	61.47
FIDF22	275	68.22	23.27	23.86	56.77	71.57	25.87	24.45	61.04
FIDF23	275	85.61	28.89	25.93	66.79	87.59	31.89	26.83	71.93
FIDF24	275	86.08	28.97	26.12	67.08	88.84	32.28	27.3	72.95
FLEE40	400	107.19	37.27	24.15	76.85	91.88	35.2	19.71	69.5
FORD4A	400	39.46	14.7	8.79	29.58	31.26	12.22	5.82	23.1
FORD4B	400	49.48	18.6	10.43	36.73	40.12	15.94	6.49	29.03
FOUR20	275	29.23	11.59	3.22	19.6	23.12	9.55	2.35	15.86
FROD2A	275	66.44	22.76	23.2	55.39	69.47	25.25	22.63	58.34
FROD2B	275	65.48	22.32	23.1	54.66	68.15	24.7	22.37	57.3
FROD40	400	106.78	36.37	30.57	82	93.89	34.86	25.66	74.96
GRAI41	400	144.85	49.44	42.75	112.68	150.75	55.18	45.45	123.5
GRAI42	400	124.16	43.24	32.08	93.23	123.11	45.95	31.58	96.57
GREN11	132	42.37	16.09	12.22	34.97	42.37	19.37	13.53	40.92
GREN12	132	44.03	16.3	12.83	35.88	44.03	19.79	13.88	41.87
GREN40	400	84.2	31.53	14.3	58.88	53.54	21.71	8.68	39.38
GRIW40	400	80.18	28.93	21.19	62.1	67.6	26.01	13.69	50.47
GRST21	275	90.76	31.52	27.6	72.18	99.19	36.31	29.38	80.73
GRST22	275	91.04	31.61	27.76	72.46	99.7	36.48	29.64	81.22
GRTO2A	275	57.47	20.81	12.13	41.55	56.5	22.68	8.05	40.12
GRTO2B	275	57.53	20.82	12.18	41.63	56.61	22.7	8.13	40.23
HACK2A	275	69.73	25.64	17.16	53.42	70.55	27.24	15.31	53.84
HACK2B	275	69.43	25.49	17.1	53.15	67.26	25.99	15.14	51.9
HACK40	400	94.03	32.77	22.43	68.77	90.81	36.08	14.99	66.02
HACK4A	400	92.95	32.63	22.28	68.43	89.37	35.73	13.83	64.36
HAKB4A	400	47.79	18.28	7.15	32.99	39.3	15.62	6.49	28.58
HAKB4B	400	48.32	18.5	7.21	33.37	40.33	16.01	6.81	29.46
HAMB4A	400	70.41	25.85	13.28	49.84	58.3	23.08	8.69	41.34
HAMB4B	400	70.34	25.83	13.26	49.78	58.21	23.05	8.67	41.27
HAMH11	132	28.18	9.71	10.49	24.22	28.18	12.64	12.32	30.19
HAMH12	132	28.24	9.71	10.31	24.04	28.24	10.68	10.14	25.25
HAMH20	275	79.18	27.9	16.76	56.21	74.59	28.7	13.81	54.41
HAMH2A	275	69.67	24.79	17.33	52.4	67.64	25.61	15.54	51.76
HAMH40	400	78.26	28.48	14.48	54.75	69.6	27.1	12.37	50.69
HAMH4A	400	76.86	27.95	14.5	54.03	68.49	26.62	12.39	50.03
HARK11	132	35.87	11.56	8.16	24.51	35.87	15.08	9.27	30.59
HARK12	132	33.3	11.32	8.21	24.22	33.3	14.15	9.24	29.26
HARK13	132	12.93	4.68	4.92	11.54	12.93	5.66	5.64	13.65
HARK21	275	42.91	15.77	9.92	32.23	46.89	17.81	11.35	36.55
HARK22	275	45.39	16.81	10.15	33.93	50.26	19.23	11.72	38.91
HARK40	400	56.17	21.26	8.39	38.45	49.75	19.45	9.79	37.31
HARM20	275	67.17	24.37	12.36	46.81	58.14	22.85	8.92	41.23
HATL20	275	91.88	31.71	22.85	67.69	91.67	34.29	23.38	71.87
HAWP20	275	80.06	28.58	17.13	57.54	72.6	28.07	13.55	53.25
HAWP4A	400	51.52	18.82	11.81	38.42	41.93	16.11	9.03	31.82
HEYS10	132	42.59	15.38	15.52	37.28	42.59	19.37	18.18	45.58
HEYS40	400	100.38	34.98	25.96	75.43	104.57	38.74	29.08	83.87
HIGM20	275	69.97	25.47	19.49	55.52	65.61	25.2	15.8	51.43
HIGM2A	275	45.46	16.48	14.93	38.24	45.73	17.12	13.11	37.33
HIGM40	400	84.44	31.27	18.84	63.07	69.12	27.12	12.39	50.74
HIGM4A	400	65.93	24.4	16.75	51.25	55.66	21.53	11.89	42.34
HINP21	275	23.94	8.53	8.18	20.24	26.32	9.64	8.91	22.54
HINP22	275	23.97	8.55	8.11	20.21	26.75	9.81	8.95	22.82
HINP40	400	71.4	25	17.36	52.72	70.9	26.51	19.18	56.67

HUMR40	400	126.93	44.29	38.49	101.13	128.55	47.37	38.63	105.62
HURS20	275	71.63	25.37	18.84	54.72	73.48	29.72	15.79	57.82
HUTT40	400	68.67	25.43	11.88	47.85	49.47	19.95	6.97	35.19
IMPP40	400	54.4	19.96	11.86	40.08	46.17	17.79	9.61	34.77
INDQ40	400	35.19	12.41	6.75	24.29	36.22	13.75	7.4	26.85
IROA11	132	60.52	21.44	16.75	47.07	60.52	27.07	18.86	57.14
IROA12	132	60.69	21.45	16.59	46.93	60.69	26.65	18.68	56.37
IROA20	275	64	23.28	13.41	46.34	59.95	23.23	12.1	44.95
IROA2A	275	63.36	23.04	13.4	45.98	59.38	22.99	12.09	44.6
IROA2B	275	63.36	23.04	13.4	45.98	59.38	22.99	12.09	44.6
IRON11	132	26.95	7.45	6.8	17.33	26.95	10.59	8.96	23.94
IRON12	132	14.6	5.3	5.4	12.9	14.6	7.07	7.26	17.26
IRON40	400	89.46	31.73	19.69	64.57	85.18	32.34	19.75	65.48
IVER21	275	66.7	24.1	16.49	50.57	69.95	26.58	16.78	54.38
IVER22	275	66.88	24.18	15.34	49.53	63.12	24.41	13.53	48.05
IVER2A	275	46.63	17.14	11.57	35.82	45.81	17.7	10.57	35.6
IVER4A	400	48.99	18.19	11.2	36.93	44.84	17.25	10.57	34.96
IVER4B	400	43.92	16.57	9.51	32.94	38.58	15.02	8.7	29.94
JORD20	275	51.47	19.1	9.37	36.39	51.97	21.38	8.04	38.27
KEAD41	400	119.55	42.9	32.25	92.92	102.9	39.16	23.73	79.11
KEAD42	400	124.42	44.5	32.87	95.8	106.72	40.66	24.66	82.16
KEAD43	400	90.54	33.26	20.9	67.93	71.89	28	13.53	53.13
KEAD4A	400	118.61	42.62	31.46	91.73	94.24	36.47	17.6	69.18
KEAD4B	400	124.94	44.77	32.79	96.1	98.26	38.08	18.23	72.08
KEAD4C	400	88.4	31.95	25.85	71.03	76.52	28.95	20.6	61.54
KEAD4D	400	88.4	31.95	25.85	71.03	76.52	28.95	20.6	61.54
KEAP41	400	114.6	41.28	30.25	88.63	98.27	37.65	21.49	74.73
KEAP42	400	121.43	43.55	31.45	93.05	103.8	39.63	23.67	79.71
KEAR20	275	75.34	26.32	20.3	57.53	81.71	30.44	20.67	63.73
KEAR40	400	92.12	33.45	17.28	64.59	78.4	30.52	15.01	58.17
KEAR4A	400	86.46	31.85	15.05	60.09	68.84	27.22	11.46	49.94
KEMS40	400	147.28	50.42	39.11	110.41	126.95	48.6	24.17	92.9
KIBY21	275	87.26	29.51	23.47	65.21	87.86	33.19	18.86	65.8
KIBY22	275	76.8	26.55	19.86	57.4	71.21	26.91	15.73	53.79
KILL40	400	136.52	47.29	42.21	109.09	142.95	52.31	43.44	117.41
KINO10	132	35.96	11.85	11.58	28.34	35.96	16.11	15.3	38.08
KINO41	400	131.05	44.84	39.08	102.5	128.85	47.38	37.77	104.77
KINO42	400	118.6	40.73	36.27	93.87	121.83	44.52	37.67	100.63
KIRK20	275	60.39	21.83	13.81	44.68	57.33	22.44	11	42.73
KIRK2A	275	61.77	22.18	14.41	45.78	57.64	22.97	10.97	43.45
KITW20	275	68.08	24.29	12.47	46.82	67.72	26.35	11.3	48.57
KNAR20	275	30.71	12.49	2.6	20.26	25.09	10.46	2.89	17.68
LACK20	275	61.24	21.6	16.31	46.86	63.71	23.85	17.11	50.83
LACK2A	275	87	30.43	25.54	68.57	95.35	35.07	26.93	76.53
LACK2B	275	91.92	31.88	28.25	73.34	101.89	37.16	30.77	83.33
LACK2C	275	88.27	30.81	26.19	69.76	96.74	35.55	27.53	77.81
LACK40	400	90.13	32.08	22.11	67.49	84.42	31.66	22.05	66.82
LALE20	275	62.66	22.33	17.3	48.89	68.36	26.55	16.19	53.74
LAND41	400	34.09	12.13	6.58	23.73	33.71	12.95	6.1	24.41
LAND42	400	34.18	12.16	6.61	23.8	33.68	12.94	6.07	24.38
LAND4A	400	33.91	12.06	6.61	23.67	33.41	12.83	6.08	24.22
LANG40	400	43.01	14.86	9.68	30.69	46.52	17.23	12.06	36.44
LEGA40	400	102.05	35.91	23.4	74.18	76.58	30.11	13.29	55.87
LEGA4A	400	67.83	24.21	19.09	53.33	54.78	21.08	12.37	42.19
LEGA4B	400	67.88	24.22	19.1	53.35	54.86	21.11	12.38	42.23

LEIB4A	400	77.89	28.78	16.64	57.35	57.67	22.68	9.6	41.67
LEIB4B	400	103.86	37.86	22.19	75.74	75.09	29.67	11.71	53.66
LISD20	275	80.01	27.36	20.36	59.06	80.92	31.11	17.02	61.02
LISD2A	275	51.01	17.74	16.03	41.12	52.99	19.97	13.68	41.91
LITB40	400	81.33	29.45	19.16	60.82	63.97	24.71	15.51	50.45
LITT11	132	19.89	6.94	8.02	17.83	19.89	9.55	10.05	23.55
LITT13	132	19.98	6.99	8.01	17.89	19.98	9.45	10.77	24.13
LITT1M	132	14.83	5.39	5.45	13.07	14.83	6.37	6.25	15.25
LITT2A	275	60.59	21.86	15.68	46.59	60.22	23.88	15.14	48.91
LITT2B	275	60.46	21.82	15.51	46.37	61.12	24.11	15.73	49.83
LITT2C	275	50.37	18.64	13.51	39.87	48.99	18.66	13.47	39.85
LITT2D	275	50.67	18.77	13.54	40.08	49.34	18.81	13.49	40.09
LITT40	400	102.6	36.03	26.46	77.4	108.3	40.35	30.21	87.28
LITT4A	400	91.97	32.97	20.64	67.26	82.14	31.95	14.07	59.24
LITT4B	400	91.99	32.98	20.63	67.27	82.13	31.95	14.05	59.23
LODR6M	66	20.52	7.53	6.89	17.54	20.52	1.57	0	2.22
LOVE40	400	103.44	35.17	25.63	75.36	93.36	35.48	18.63	68.81
MACC20	275	54.36	20.08	13.37	41.77	51.95	20.03	11.58	39.91
MACC40	400	84.56	31.23	15.46	59.63	63.42	25.36	9.5	45.36
MAGA20	275	56.35	20.93	10.47	40.07	52.59	20.64	9.73	38.91
MANN40	400	59.72	20.98	13.52	43.19	55.36	21.04	11.99	41.74
MAWO40	400	71.57	24.72	18.98	53.94	74.31	27.4	21.09	59.84
MEDW40	400	108.25	38.36	25.2	79.45	103.6	39.25	23.78	79.29
MELK10	132	43.38	15.2	16.12	37.62	43.38	20.61	19.64	48.79
MELK2A	275	46.89	17.24	13.65	38.03	46.25	17.54	12.52	37.32
MELK2B	275	45.58	16.79	13.04	36.79	46.29	17.57	12.38	37.22
MELK40	400	111.7	39.86	22.87	79.24	90.57	35.39	16.35	66.41
MILH11	132	24.22	8.55	8.33	20.42	24.22	11.17	10.04	25.84
MILH12	132	24.55	8.8	7.5	19.93	24.55	11.47	9.11	25.33
MILH2A	275	43.85	16.45	6.99	30.26	43.96	18.01	6.69	32.16
MILH2B	275	43.81	16.44	6.98	30.23	43.92	17.99	6.68	32.12
MITY40	400	86.22	31.8	15.51	60.48	62.64	25.14	9.15	44.71
MONF21	275	87.1	30.53	27.14	70.32	92.78	34.43	25.77	74.45
MONF22	275	78.85	27.95	24.51	64.04	81.21	30.27	22.67	65.49
MONF40	400	101.81	35.97	26.35	77.22	90.97	34.35	21.07	69.65
MONF4A	400	88.64	31.57	22.77	67.41	78.31	29.63	18.03	59.93
NECH20	275	86.1	30.05	19.9	62.4	79.85	30.7	15.37	58.78
NEEP20	275	60.76	22.03	13.59	44.75	66.63	26.22	12.49	49.57
NEEP4A	400	48.71	18.17	10	35.7	43.91	17.3	8.14	32.61
NEWX20	275	78.28	27.55	19.54	58.49	83.95	33.61	16.08	63.61
NFLE11	132	38.99	12.6	13	30.81	38.99	17.12	14.95	39.16
NFLE12	132	32.5	11.92	11.5	28.36	32.5	13.24	12.03	30.75
NFLE40	400	119.96	41.56	30.34	89.11	92.45	36.09	16.17	67.21
NHYD2A	275	46.18	17.59	7.42	32.31	39.19	18.49	3	29.15
NHYD2B	275	46.3	17.65	7.04	32	37.32	17.49	3.08	27.81
NHYD60	66	39.99	13.43	12.35	31.35	39.99	19.71	15.43	43.31
NINF40	400	67.29	23.91	15.94	49.75	59.08	22.69	13.13	45.21
NORL2A	275	53.2	19.64	10.28	38.05	54.1	22.32	7.34	38.91
NORL2B	275	52.17	19.34	9.51	36.86	52.66	22.03	6.58	37.73
NORT21	275	75.07	26.38	18.19	55.5	75.06	28.38	17.11	57.25
NORT22	275	66.36	23.95	16.24	50.11	62.33	23.77	14.05	47.67
NORT40	400	86.66	31.01	19.65	63.51	72.7	27.91	15.03	54.5
NORW40	400	60.71	22.41	11.08	42.77	47.34	18.59	8.8	35.09
NURS40	400	67.93	23.66	17.34	50.8	67.67	25.25	16.51	52.23
NURS4A	400	56.25	20.06	12.9	41.27	51.16	19.41	11.33	38.78

OCKH10	132	27.13	9.51	9.03	22.48	27.13	11.95	10.56	27.47
OCKH20	275	66.28	23.75	12.56	46.15	67.51	26.13	11.99	48.94
OCKH2A	275	57.17	20.57	12.28	41.37	56.54	21.79	11.75	42.56
OFFE20	275	70.89	25.68	12.42	48.73	62.14	24.4	10.07	44.57
OLDB20	275	56.66	20.64	10.4	39.59	58.01	22.56	10.22	42.12
OLDB2A	275	56.15	20.45	10.41	39.32	57.47	22.33	10.23	41.81
OLDB4A	400	36.86	13.88	6.78	26.41	33.48	13.1	6.35	24.87
OLDS11	132	45.93	16.23	10.43	33.38	45.93	17.74	10.71	35.8
OLDS12	132	44.91	16.12	10.43	33.23	44.91	18.47	11.16	37.27
OSBA41	400	76.01	27.92	17.23	56.72	54.7	21.49	9.16	39.55
OSBA42	400	75.91	27.93	17.25	56.75	53.04	20.88	8.81	38.34
PADI10	132	29.13	9.94	10.18	24.24	29.13	12.84	11.56	29.71
PADI40	400	85.41	31.08	17.33	61.29	61.84	24.58	9.31	44.07
PAFB4A	400	56.61	21.59	9.39	39.92	36.89	15.18	3.65	25.11
PAFB4B	400	56.72	21.62	9.42	40	36.97	15.21	3.66	25.17
PELH40	400	144.96	51.09	36.21	108.47	113.57	43.98	22.12	84.32
PEMB10	132	28.46	10.17	9.04	23.42	28.46	13.07	10.3	28.78
PEMB40	400	38.14	14.12	8.02	27.99	27.91	10.97	5.14	20.65
PENN20	275	73.98	26.35	16.56	53.82	76.5	29.16	16.26	57.5
PENN2A	275	73.1	26.03	16.52	53.34	75.56	28.78	16.24	56.93
PENN4A	400	47.41	17.65	9.3	34.27	41.37	16.14	8.47	31.29
PENN4B	400	49.55	18.45	9.52	35.61	45.2	17.61	8.98	33.88
PENT40	400	92.26	30.75	27.35	70.84	92.05	33.89	24.22	72.15
PEWO21	275	71.21	25.32	20.81	56.62	70.74	26.61	18.19	55.83
PEWO22	275	71.91	25.54	21.34	57.46	67.71	25.39	18.24	54.15
PEWO2A	275	72.24	25.65	21.49	57.76	68.01	25.48	18.52	54.55
PEWO2B	275	72.96	25.87	21.69	58.28	73.64	27.58	19.74	58.75
PEWO40	400	110.26	38.65	24.94	79.6	98.41	37.87	19.11	72.67
PITS20	275	62.17	22.5	13.55	45.36	68.83	27.06	12.5	50.76
POPP20	275	30.05	12.39	1.98	19.5	23.86	10.05	2.68	16.89
PYLE20	275	59.81	22.17	10.73	42.08	54.2	21.41	9.19	39.46
PYLE2A	275	59.24	21.95	10.74	41.78	53.73	21.2	9.2	39.18
PYLE2B	275	59.24	21.95	10.74	41.78	53.73	21.2	9.2	39.18
QUER4A	400	85.03	30.53	18.28	61.46	75.23	29.16	13.34	54.58
QUER4B	400	84.95	30.53	18.16	61.33	75.35	29.22	13.36	54.67
RAIN20	275	102.46	33.87	30.29	78.19	98.82	36.65	23.78	75.61
RASS40	400	51.91	19.06	11.08	38.03	40.75	16	6.61	29.24
RATS2A	275	43.61	15.87	13.48	35.92	44.88	16.69	14.18	37.78
RATS41	400	98.72	35.33	21.99	71.95	97.69	36.83	23.41	75.5
RATS42	400	108.24	38.52	23.98	78.45	108.28	40.76	25.94	83.58
RAYL40	400	105.95	37.87	24.35	77.91	83.26	32.45	15.53	61.43
REBR21	275	77.39	28.1	19.46	59.19	72.92	28.58	13.56	53.98
REBR22	275	78.07	28.38	19.75	59.89	73.72	29.06	12.86	53.95
ROCH20	275	63.9	23.12	14.43	47.12	62.63	24.11	12.61	46.7
ROCH4A	400	32.7	12.22	7.72	25.01	29.12	11.21	6.73	22.59
ROCK40	400	102.72	35.14	28.9	78.6	88.84	33.17	23.52	70.42
ROWD40	400	69.78	25.6	14.41	50.62	54.33	21.76	7.45	38.22
RUGE10	132	27.72	9.5	9.93	23.37	27.72	11.03	11.69	27.3
RUGE40	400	67.88	24.58	13.63	48.38	66.68	25.43	15.19	51.15
RYEH40	400	85.78	30.56	22.83	66.05	83.56	31.33	22.44	66.75
RYEH4A	400	77.88	28.3	19.63	59.65	69.12	26.31	16.98	54.19
SAEN20	275	73.3	25.96	21.64	58.35	73.13	27.08	21.84	60.14
SAES20	275	73.97	26.15	22	58.98	74.62	27.52	23.33	62.25
SALH20	275	77.19	27.14	17.32	55.71	74.87	28.52	15.04	55.38
SEAB40	400	69.87	24.5	17.53	52.18	68.69	25.51	19.26	55.33

SELL40	400	81.38	29	17.77	58.77	76.26	29.25	16.58	57.95
SHBA40	400	97.14	34.43	28.03	76.73	93.7	34.97	26.5	75.96
SHEC20	275	55.37	20.32	11.19	39.93	58.19	23.77	8.24	41.86
SHRE4A	400	66.13	24.12	13.45	47.56	53.09	20.96	8.22	37.87
SING40	400	111.14	38.93	27.68	82.73	86.01	33.53	14.67	62.09
SIZE11	132	42.52	15.33	13.62	35.29	42.52	19.37	16.3	43.69
SIZE12	132	42.53	15.33	13.62	35.3	42.53	19.39	16.21	43.63
SIZE40	400	73.41	26.13	18.82	55.79	73.67	27.43	20.49	59.29
SJOW20	275	92.39	33.04	23.94	70.67	102.62	39.45	27.44	83.24
SJOW2A	275	72.76	25.78	21.21	57.67	74.57	30.36	19.66	62.6
SJOW2B	275	72.76	25.78	21.21	57.67	74.57	30.36	19.66	62.6
SJOW40	400	102.25	35.38	26.47	76.51	110.31	41.68	26.88	85.82
SKLG20	275	68.95	24.65	15.54	50.4	64.66	25.12	12.35	47.88
SMAN20	275	74.05	26.74	17.07	54.88	71.91	27.83	13.38	52.73
SPEN21	275	51.83	19.15	9.22	36.3	45.53	17.89	7.75	33.05
SPEN22	275	53.65	19.85	9.33	37.4	45.04	17.86	7.22	32.48
SPLN40	400	69.33	25.26	18.57	54.29	60.93	23.16	16.28	49.03
SSHI20	275	65.73	24.02	10.15	44.11	57.75	22.73	9.38	41.53
STAH4A	400	61.68	22.91	11.05	43.45	49.44	19.75	6.94	34.88
STAH4B	400	61.63	22.89	11.04	43.41	49.38	19.73	6.93	34.83
STAL21	275	46.45	17.11	11.15	35.35	45.89	17.56	10.26	35.1
STAL22	275	57.18	21.35	10.22	40.42	50.6	19.94	8.72	36.93
STAL4A	400	34.74	12.95	7.91	26.22	29.3	11.3	6.53	22.51
STAY41	400	75.89	27.95	15.51	55.04	67	25.92	14.68	51.33
STAY42	400	68.24	25.32	14.11	49.92	62.02	23.84	14.61	48.34
STAY4A	400	67.12	24.84	14.73	49.86	58.13	22.45	13.57	45.32
STEN10	132	40.17	12.59	10.18	27.99	40.17	17.81	12.26	37.45
STES10	132	34.93	11.79	10.32	26.99	34.93	15.67	12.33	34.49
STEW20	275	90.28	32.23	15.31	60.89	89.63	34.53	15.73	64.56
STEW2A	275	90.1	32.17	15.25	60.75	89.37	34.47	15.47	64.22
STEW4A	400	37.04	13.63	8.77	28.04	35.27	13.41	8.68	27.64
STEW4B	400	37.45	13.76	8.98	28.44	36.29	13.79	8.96	28.46
STSB40	400	60.28	22.19	13.36	44.73	52.8	20.57	10.52	39.61
STSB4A	400	50.8	18.87	12.06	38.76	44.53	17.28	9.77	34.2
STYC10	132	31.18	10.56	11.71	26.65	31.18	10.45	10.81	25.59
SUND41	400	118.57	42.78	26.07	86.57	91.93	35.89	16.63	67.38
SUND42	400	94.08	34.43	20.03	68.72	75.08	29.29	13.85	55.27
SUTB4A	400	89.8	32.49	21.47	67.42	78.12	29.87	19.21	61.44
SWAN20	275	52.49	19.22	12.21	39.38	56.52	21.58	12.71	43.24
SWAN40	400	42.39	15.57	9.21	31.23	38.33	14.68	8.53	29.3
SWAN4A	400	41.97	15.43	9.07	30.88	37.9	14.53	8.39	28.94
SWAN4B	400	41.98	15.43	9.07	30.89	37.93	14.54	8.41	28.97
TAUN4A	400	51.53	18.45	10.58	36.67	44.25	17.32	6.95	31.44
TAUN4B	400	52.4	18.73	10.75	37.24	45.7	17.84	7.42	32.65
TEMP21	275	61	22.14	12.98	44.29	64.82	25.64	11.67	47.94
TEMP22	275	61.23	22.21	13.08	44.49	65.37	25.85	11.83	48.38
THOM20	275	76.88	27.34	21.62	60.29	78.81	29.75	20.38	62.45
THOM40	400	112.52	39.76	27.51	83.73	95.96	36.73	19.25	71.19
THTO41	400	118.24	42.51	28.84	88.96	87.84	34.26	14.83	63.28
THTO42	400	118.87	42.67	29.06	89.41	87.29	34.06	14.68	62.85
THUR20	275	65.85	24.43	10.93	45.48	66.32	26.19	10.93	47.97
THUR2A	275	66.3	24.69	10.31	45.22	62.48	25.05	8.35	43.77
TILB21	275	75.63	26.8	21.25	59.15	79.58	29.55	21.93	63.72
TILB22	275	76.02	26.93	22.22	60.3	80.27	29.76	22.98	65.07
TILB4A	400	100.11	35.57	25.76	76.05	87.69	33.36	20.09	67.27

TILB4B	400	95.03	34.1	23.08	71.31	84.32	32.15	19.06	64.53
TINP2A	275	60.17	22.05	13.84	45.03	58.97	22.95	12.31	44.77
TINP2B	275	60.17	22.05	13.84	45.03	58.98	22.95	12.31	44.77
TODP20	275	63.5	22.48	15.31	47.11	58.03	22.36	11.18	42.8
TOTE21	275	84.26	30.5	21.52	64.66	83.38	32.18	17.69	63.21
TOTE22	275	84.87	30.77	21.75	65.27	85.6	33.06	17.7	64.46
TOTW21	275	81.2	29.67	18.32	60.28	80.08	33.04	14.22	60.94
TOTW22	275	82.05	29.93	18.68	61.01	80.84	33.29	14.66	61.74
TRAW20	275	45.67	16.15	13.82	36.66	48.32	18.15	11.86	37.53
TRAW40	400	62.55	22.77	12.6	44.8	48.73	19.3	8.47	35.76
TREM20	275	45.21	17.48	6.11	30.83	37.53	15.34	4.51	26.2
TREU4A	400	97.73	34.57	22.35	71.24	77.4	30.3	12.47	55.32
TREU4B	400	99.77	35.23	22.8	72.62	79.22	31.02	12.64	56.51
TYNE20	275	61.02	22.32	9.17	40.74	54.23	21.36	8.63	38.84
TYNE2A	275	57.36	21.33	8.38	38.54	49.19	19.55	7.34	34.99
TYNE50	11	54.57	19.51	19.09	46.68	54.57	21.64	21.87	52.47
UPPB21	275	48.65	17.95	11.49	36.87	46.83	18.14	9.6	35.26
UPPB22	275	48.61	17.95	11.48	36.86	44.46	17.16	9.82	34.08
USKM20	275	75.65	27.09	19.08	57.39	84	31.61	21.3	66
USKM2A	275	62.56	23.02	13.2	45.76	63.19	24.4	12.7	47.22
USKM2B	275	75.18	26.94	18.83	56.93	82.64	31.17	20.36	64.44
WALH40	400	61.48	22.62	11.52	43.51	47.24	18.68	7.92	34.34
WALP11	132	50.88	18.14	13.79	39.45	50.88	21.46	14.7	45.05
WALP12	132	39.27	14.57	11.31	31.91	39.27	16.84	12.31	36.13
WALP13	132	31.48	12.07	8.2	25.27	31.48	13.42	8.71	27.68
WALP40	400	105.39	37.65	27.38	80.63	90.96	34.62	22.4	71.36
WALX21	275	99.34	35.62	27.24	77.62	96.1	36.59	24.96	76.71
WALX22	275	98.69	35.45	27.12	77.25	95.13	36.28	24.72	76.02
WALX4A	400	79.59	28.46	21.5	61.75	75.82	28.59	19.42	59.84
WALX4B	400	73.38	26.64	19.14	56.81	66.35	25.22	16.53	52.2
WARL20	275	82.99	29.6	19.69	61.54	70.56	27.49	13.01	51.89
WASF2A	275	64.41	22.99	14.58	47.1	53.21	20.87	8.44	37.96
WASF2B	275	68.94	24.4	15.67	50.17	58.37	23	8.74	41.27
WATS21	275	64.69	23.44	15.1	48.24	65.48	25.23	13.33	49.01
WATS22	275	62.19	22.43	12.79	44.51	63.97	24.78	11.56	46.61
WBOL20	275	74.93	26.92	12.4	50.48	65.46	25.64	10.99	47.25
WBUR10	132	32.19	10.56	10.64	25.58	32.19	14.99	13.98	35.17
WBUR41	400	114.51	41.15	32.4	90.59	110.53	41.28	31.88	90.26
WBUR42	400	90.99	32.98	25.06	71.7	86.43	32.43	24.22	70.08
WEAV4A	400	76.61	28.34	13.92	54	52.84	21.45	5.8	36.14
WEAV4B	400	77.9	28.76	14.32	54.99	53.71	21.8	5.9	36.73
WHAM40	400	109.18	37.65	27.44	80.69	109.33	41.96	22.25	81.58
WHAM4A	400	93.37	32.73	22.59	68.87	93.05	37.17	18.24	70.81
WHAM4B	400	93.39	32.74	22.5	68.81	93.12	37.21	18.07	70.69
WHGA20	275	66.88	23.89	15.48	49.28	64.51	24.87	12.22	47.39
WHSO20	275	79.3	28.23	20.6	60.53	87.03	32.75	21.65	67.96
WHSO2A	275	58.26	21.04	16.28	46.04	60.49	22.72	16.86	48.99
WHSO2B	275	58.26	21.04	16.28	46.04	60.49	22.72	16.86	48.99
WHSO4A	400	64.73	23.1	16.2	48.87	57.88	21.95	13.7	44.74
WIBA20	275	60.84	22.09	12.87	44.11	65.65	26.31	10.13	47.34
WIEN2A	275	54.2	19.85	9.4	37.47	52.99	20.77	8.61	37.98
WIEN2B	275	58.24	20.99	12.02	41.7	57.12	22.2	10.77	42.17
WILE40	400	106.93	38.23	21.58	75.64	94.22	36.51	17.38	69.01
WILL10	132	53.95	18.24	19.18	44.97	53.95	24.09	22.55	56.61
WILL20	275	41.21	14.72	14.36	35.18	44.49	16.33	14.52	37.61

WIMB11	132	33.86	11.15	11.2	26.96	33.86	16.01	13.91	36.55
WIMB12	132	28.09	10.2	9.65	24.07	28.09	12.6	11.3	29.11
WIMB13	132	22.41	7.82	8.06	19.12	22.41	10.31	9.57	24.16
WIMB14	132	22.01	7.75	7.94	18.91	22.01	10.12	9.57	23.88
WIMB20	275	85.09	29.78	21.35	63.46	93.21	36.48	19.93	71.52
WIMB2M	275	40.15	15.22	7.64	29.16	38.04	15.06	6.53	27.82
WISD20	275	82.64	28.88	25.05	65.9	90.79	34.97	21.99	71.44
WISD2A	275	63.97	22.64	19.22	51.24	68.55	26.79	17.84	55.73
WISD2B	275	72.61	25.78	20.2	56.66	73.65	29.67	18.85	60.8
WISD60	66	50.07	17.13	17.49	41.72	50.07	4.53	0	6.41
WMEL20	275	74.69	26.68	14.31	52.04	71.8	27.89	13.87	53.31
WTHU2A	275	52.37	19.37	13.58	40.98	49.53	19.03	11.87	38.79
WTHU2B	275	52.93	19.6	13.68	41.4	50.11	19.28	11.81	39.08
WWEY21	275	77.97	28.27	17.54	57.52	79.08	30.38	16.88	59.85
WWEY22	275	65.32	24.14	13.06	47.2	63.95	24.77	12.47	47.5
WWEY2A	275	56.19	20.32	14.95	43.69	57.2	22.04	13.66	44.83
WWEY4A	400	44.79	16.92	8.27	32.2	39.52	15.47	7.77	29.66
WWEY4B	400	52.15	19.34	11.77	39.13	46.41	18.03	10.49	35.99
WYLF10	132	48.56	14.99	15.26	36.46	48.56	21.07	18.25	48.04
WYLF40	400	66.87	22.31	19	50.55	67.44	24.47	19.63	54.24
WYMO40	400	115.58	41.53	26.74	85.47	86.46	33.73	15.54	63.24
YGAR4A	400	59.58	21.59	12.68	43.21	45.55	18.14	6.88	32.53
YWER4A	400	59.39	21.45	12.9	43.24	45.44	18.07	6.6	32.15

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Table D.3.2 - NGET Fault Levels (kA), Winter 2010/11

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	37.42	13.38	7.14	26.06	34.93	13.48	6.13	25.19
ABHA4B	400	37.39	13.36	7.14	26.04	34.91	13.47	6.12	25.18
ABTH11	132	31.39	12.21	6.92	24.19	37.31	14.51	9.41	29.92
ABTH12	132	52.51	19.3	14.2	41.5	62.3	23.41	18.3	51.4
ABTH13	132	11.8	4.66	1.59	8.19	10.38	3.97	2.35	7.96
ABTH20	275	90.16	31.83	23.15	68.17	97.06	36.2	26.55	77.75
ALDW20	275	62.76	22.95	10.24	42.7	60.71	23.91	10.2	44.02
ALVE4A	400	25.92	9.69	4.27	17.97	21.57	8.57	3.14	15.27
ALVE4B	400	26.02	9.72	4.27	18.02	21.8	8.66	3.16	15.41
AMEM10	132	27.99	10.08	9.99	24.24	34.32	12.65	11.22	29.11
AMEM4A	400	54.67	20.56	10.76	39.83	44.23	17.56	7.18	32.01
AMEM4B	400	50.9	19.4	9.27	36.71	40.97	16.35	6.58	29.7
AXMI10	132	28.23	9.79	9.43	23.28	34.13	12.45	10.61	28.21
AXMI40	400	41.39	14.82	8.95	29.91	34.33	13.3	6.45	25.26
BAGB20	275	56.84	21.02	12.47	42.2	54.69	21.16	12.66	42.59
BARK10	132	25.96	9.14	9.78	22.71	28.15	10.24	10.25	24.73
BARK21	275	63.4	22.91	18.15	50.55	64.97	24.59	17.46	52.24
BARK22	275	66.04	23.81	19.56	53.23	69.2	26.11	18.88	55.81
BARK40	400	159.13	55.07	38.06	115.94	139.66	54.3	25.53	102.32
BARP21	275	57.72	20.99	15.74	45.42	57.16	21.85	13.6	44.5
BARP22	275	60.72	21.98	17.35	48.43	62.01	23.57	15.3	48.64
BEDD21	275	67.12	24.68	15.98	50.88	68.72	26.46	15.55	52.97
BEDD22	275	84.69	30.47	18.66	61.76	85.66	33.31	17.38	64.49
BEDD2M	275	17.02	6.2	6	14.77	18.05	6.7	5.92	15.39
BEDD4A	400	51.7	19.39	11.46	38.88	44.69	17.67	10.39	35.38
BEDD4B	400	42.69	16.28	8.21	31.24	36.34	14.6	7.42	28.07
BESW20	275	64.37	23.06	11.93	44.54	57.62	22.56	9.76	41.66
BICF10	132	28.15	10.22	10.54	24.99	31	11.37	10.75	26.83
BICF4A	400	63.15	23.36	15.92	48.95	45.55	17.91	8.4	33.73
BICF4B	400	61.05	22.5	16.07	47.9	47.57	18.56	9.16	35.41
BIRK20	275	51.96	18.02	16.07	41.56	54.41	20.35	13.93	42.7
BISW20	275	69.8	25.01	12.7	48.07	65.59	25.84	10.45	46.99
BLYT21	275	63.03	23.01	11.58	44.13	61.49	23.84	11.49	45.2
BLYT22	275	56.62	21.09	10.17	39.99	52.77	20.68	9.23	38.47
BLYT4A	400	34.51	12.74	7.6	25.62	31.61	12.14	7.04	24.21
BLYT4B	400	33.68	12.51	7.2	24.89	30.42	11.75	6.34	22.97
BLYT60	66	51.81	17.2	15.55	39.87	29.82	10.82	12.16	27.46
BOLN40	400	69.81	24.79	16.03	51.09	55.57	21.48	11.47	41.84
BOTW40	400	83.02	28.69	20.32	60.9	75.21	28.74	14.87	55.51
BRAI4A	400	57.52	21.3	12.84	42.96	43.98	17.23	7.91	32.27
BRAI4B	400	60.92	22.67	13.32	45.37	44.22	17.39	7.81	32.4
BRAW20	275	72.56	26.06	16.81	53.66	71.14	27.38	14.61	53.33
BRAW4A	400	38.95	14.37	9.48	29.81	34.21	13.09	8.04	26.55

BRED20	275	69.89	25.67	14.37	50.68	69.45	27.07	12.6	50.87
BRFO40	400	66.02	23.97	15.07	48.97	58.63	22.61	11.53	43.51
BRIM10	132	53.05	18.23	20.63	46.41	64.71	23.18	24.54	57.32
BRIM2A	275	86.65	31.49	21.96	66.5	81.64	31.62	17.13	61.85
BRIM2B	275	86.85	31.71	20.62	65.46	81.93	32.32	16.72	62.42
BRIM2C	275	87.05	31.68	22.09	66.9	81.68	31.72	16.64	61.5
BRIM2D	275	85.01	31.17	19.57	63.66	79.01	31.37	14.92	59.27
BRIN21	275	66.66	23.98	14.98	48.89	71.7	27.91	14.04	53.51
BRIN22	275	71.21	25.7	18.35	54.7	74.43	28.52	17.82	58.15
BRIN2M	275	27.8	10.01	10.43	24.58	28.62	10.52	9.82	24.7
BRIN40	400	75.66	27.65	17.54	56.63	56.47	21.87	12.62	43.55
BRLE40	400	124.87	43.61	28.9	90.57	108.07	41.5	22.21	80.9
BRWA2A	275	19.78	7.24	5.41	15.66	19.89	7.57	4.8	15.51
BRWA2B	275	19.74	7.22	5.45	15.67	19.72	7.5	4.84	15.44
BRWA2C	275	19.72	7.22	5.41	15.62	19.82	7.54	4.79	15.46
BRWE10	132	20.73	7.25	8.62	18.87	6.12	2.24	2.14	5.31
BURW40	400	96.26	34.8	24.16	73.38	62.65	25.02	10.81	46.19
BUSH20	275	64.58	23.22	13.01	45.86	62.39	24.32	10.65	45.05
BUST21	275	71.76	25.54	16.07	52.19	65.55	26.2	12.13	49.18
BUST22	275	70.88	25.23	15.81	51.49	63.05	25.63	10.65	46.89
CANT40	400	100.44	36.02	21.33	72.27	73.56	29.34	11.22	52.7
CAPE21	275	54.64	18.93	18.43	45.2	60.08	22.08	18.35	49.57
CAPE22	275	35.15	12.52	12.92	30.63	38.75	14.17	13.12	33.17
CAPE4A	400	97.22	33.95	25.29	73.3	84.01	31.87	18.54	63.61
CAPE4B	400	103.74	35.84	28.19	78.88	90.59	34.21	20.63	69.01
CARE20	275	53.5	20.01	9.73	38.03	46.45	18.39	8.38	34.39
CARR11	132	28.66	10.51	8.5	23.37	33.62	12.74	9.63	27.65
CARR12	132	52.11	17.94	16.86	42.23	64.22	23.52	19.95	53.22
CARR20	275	80.63	28.94	22.22	63.15	87.62	33.12	21.46	68.3
CARR4A	400	116.42	41.93	21.95	81.24	92.11	36.31	15.69	67.04
CARR4B	400	115.63	41.76	21.26	80.31	90.12	35.66	14.8	65.23
CARR4H	400	121.14	43.46	23.03	84.5	94.55	37.29	16	68.73
CELL11	132	44.75	15.09	14.64	35.98	55.58	20.03	16.85	45.18
CELL12	132	30.62	10.66	10.49	25.57	36.43	13.27	11.67	30.44
CELL40	400	95.88	34.98	16.83	66.3	75.82	29.92	13.41	55.73
CHIC41	400	39.33	14.22	8.65	28.76	31.44	12.24	5.84	23.16
CHIC42	400	38.86	14.03	8.58	28.43	29.71	11.62	5.31	21.74
CHSI20	275	92.81	33.66	18.76	66.37	80.67	31.93	13.26	58.41
CHTE20	275	72.12	25.51	18.35	54.43	63.25	24.36	13.52	47.97
CILF2A	275	50.01	18.39	14	40.01	44.65	17.03	11.75	35.83
CILF2B	275	49.95	18.35	13.98	39.94	49.31	18.8	12.54	39.13
CILF40	400	84.93	30.32	20.8	63.68	69.86	26.95	13.83	51.94
CITR41	400	121.45	42.81	27.66	88.2	125.39	48.81	22.36	91.39
CITR42	400	121.34	42.78	27.62	88.12	125.16	48.76	22.14	91.09
CLEV40	400	98.38	35.69	20.74	71.21	71.89	28.83	9.39	50.16
COSO40	400	96.67	35.02	22.41	71.93	85.9	32.97	20.27	66.89
COTT40	400	131.51	46.39	35.1	100.7	127.38	47.4	35.77	102.8
COVE20	275	64.7	23.06	12.94	45.55	61.17	23.58	11.66	45.01
COVE2A	275	64.04	22.83	12.93	45.22	60.58	23.33	11.66	44.66
COWB2A	275	69.47	25.48	14.02	50.06	61.19	24.19	9.11	43.31
COWL40	400	134.52	47.32	34.95	101.88	115.08	43.87	24.96	87.01
CREB2A	275	76.97	27.52	25.59	64.51	75.98	28.3	21.85	61.87
CREB2B	275	76.89	27.49	25.57	64.45	75.93	28.28	21.83	61.83
CREB40	400	148.06	52.56	38.41	112.75	112.83	43.66	23.33	85.07
CULJ4A	400	120.53	42.49	32.17	92.27	113.82	42.63	29.04	89.33

DAIN40	400	130.67	46.52	25.48	91.27	103.03	40.51	17.61	74.9
DAMC40	400	102.4	35.45	32.66	82.8	107.43	39.21	34.21	89.67
DEES41	400	120.07	41.24	32.49	90.81	117.59	43.54	32.44	94.02
DEES42	400	111.57	38.8	28.3	83.17	105.5	39.48	26.77	82.6
DIDC41	400	128.31	44.67	36.61	99.78	130.46	47.87	39.88	107.58
DIDC42	400	112.33	38.72	34.37	89.14	113.68	41.4	36.98	95.53
DINO40	400	86.84	29.04	26.24	67.3	89.54	32.68	26.53	72.75
DRAK10	132	40.93	12.33	12.11	29.55	49.79	16.82	15.54	39.32
DRAK21	275	68.51	24.34	17.6	52.01	69.22	26.09	17.46	54.35
DRAK22	275	68.02	24.43	19.04	53.59	70.36	26.48	17.97	55.41
DRAK41	400	101.65	36.42	20.15	71.65	89.37	34.61	16.74	65.69
DRAK42	400	80.98	29.45	15.12	56.77	71.02	27.8	11.32	50.64
DRAX11	132	15.66	5.38	5.62	13.23	19.6	6.98	7.15	17.01
DRAX12	132	15.12	5.2	5.45	12.8	18.97	6.75	6.94	16.49
DRAX41	400	144.81	50.43	41.61	112.92	146.28	53.73	43.79	119.77
DRAX42	400	146.1	50.23	42.48	113.52	147.61	54.04	44	120.43
DUBR4A	400	40.38	15.02	9.16	30.4	31.9	12.41	6.05	23.6
DUBR4B	400	51.13	19.2	10.88	38.04	41.23	16.28	7.42	30.45
DUNG20	275	46.44	16.51	15.72	39.06	50.52	18.57	16.03	42.28
DUNG40	400	80.35	28.58	19.52	59.93	78.04	29.84	17.42	59.61
EALI20	275	63.47	22.58	18.12	50.06	68.48	27.01	13.73	51.92
EALI60	66	60.6	20.74	19.31	48.64	69.89	25.65	20.63	56.9
EASO40	400	87.26	31.6	20.45	65.14	67.01	25.85	14.78	51.34
ECLA10	132	46.02	15.89	16.6	39.06	53.47	19.49	17.92	45.48
ECLA40	400	120.28	43.58	25.28	86.91	93.46	36.7	16.26	68.15
EGGB41	400	108.7	38.61	28.62	83.23	102.29	38.35	25.84	80.07
EGGB42	400	133.57	46.04	37.22	102.33	130.26	48.25	33.57	101.8
ELLA11	132	28.18	9.88	9.19	23.16	34.26	12.64	10.37	28.25
ELLA12	132	28.82	10.11	9.29	23.59	34.51	12.74	10.39	28.41
ELLA20	275	69.5	25.26	13.6	49.32	61.66	24.22	10.48	44.73
ELST11	132	30.29	10.03	10.47	24.66	38	13.73	12.49	31.92
ELST12	132	38.85	12.7	12.09	30.04	46.31	16.79	13.58	37.32
ELST1A	132	10.73	3.87	3.37	8.85	13.13	4.88	3.9	10.79
ELST1B	132	10.39	3.78	3.2	8.55	12.73	4.75	3.71	10.42
ELST21	275	70.02	25.18	17.98	53.6	75.89	28.68	19.14	59.7
ELST22	275	64.25	23.1	13.48	46.16	71.62	27.39	14.4	53.13
ELST2A	275	69.24	24.9	17.91	53.12	74.97	28.31	19.05	59.09
ELST2B	275	63.59	22.86	13.46	45.8	70.79	27.05	14.39	52.64
ELST40	400	104.11	37.72	21.3	74.64	110.7	43.09	22.19	83.13
ELST4A	400	104.09	37.71	21.3	74.63	110.63	43.07	22.17	83.08
ELST4B	400	45.45	17.29	8.36	32.82	42.3	16.48	8.4	31.7
ENDE40	400	89.97	32.88	18.27	64.78	61.45	24.52	9.4	44.08
EXET40	400	59.2	20.54	13.11	42.16	55.67	21.19	11.47	41.43
FAWL10	132	50.94	16.28	18.03	41.06	69.59	23.92	25.01	58.83
FAWL40	400	90.54	30.75	23.57	67.06	89.85	33.28	23.45	70.52
FECK20	275	67.87	24.52	15.37	50.04	67.77	25.96	15.71	52.42
FECK40	400	84.84	31.32	14.98	59.27	71.14	27.9	13.87	53.33
FENW4A	400	114.41	41.22	28.78	87.07	94.96	36.48	18.82	70.41
FERR11	132	35.72	12.21	12.34	29.61	43.07	15.56	15.24	37.25
FERR12	132	32.73	11.23	10.55	26.43	39.97	14.55	13.08	33.65
FERR13	132	10.77	3.97	3.4	9.02	11.36	4.2	3.59	9.54
FERR21	275	71.84	25.56	19.99	56.13	76.49	28.58	20.76	61.18
FERR22	275	77.44	27.29	24.8	63.4	83.98	30.87	26.39	70.05
FERR23	275	85.15	29.69	25.45	67.44	93.84	34.58	27.35	76.25
FERR2A	275	85.22	29.72	25.52	67.55	93.57	34.5	27.12	75.91

FERR2B	275	71.34	25.4	19.71	55.63	75.54	28.3	19.85	59.87
FERR4A	400	90.16	31.93	23.78	68.94	80.93	30.43	20.56	63.59
FFES21	275	37.37	13.86	7.61	27.21	36.44	14.34	6.4	26.67
FFES22	275	35.1	13.25	5.89	24.62	33.51	13.42	4.45	23.43
FIDF21	275	67.77	22.95	23.94	56.39	71.98	25.89	24.9	61.52
FIDF22	275	68.25	23.28	23.91	56.83	71.6	25.88	24.49	61.1
FIDF23	275	85.71	28.92	26.03	66.93	87.73	31.93	26.92	72.07
FIDF24	275	86.19	28.99	26.21	67.22	88.97	32.32	27.39	73.1
FLEE40	400	107.87	37.65	24.18	77.42	92.23	35.39	19.72	69.77
FORD4A	400	39.62	14.77	8.83	29.72	31.38	12.27	5.84	23.19
FORD4B	400	51.04	19.2	10.58	37.73	40.85	16.25	6.52	29.5
FOUR20	275	43.83	17.23	4.81	29.17	35.38	14.75	3.13	23.98
FROD2A	275	66.47	22.77	23.24	55.44	69.49	25.25	22.66	58.37
FROD2B	275	65.5	22.32	23.14	54.71	68.17	24.7	22.39	57.33
FROD40	400	106.91	36.43	30.65	82.16	93.99	34.9	25.7	75.06
GRAI41	400	155.38	53.78	47.37	123.42	166.9	61.13	52.84	139.28
GRAI42	400	133.88	47.04	34.88	101.41	132.05	49.49	34.19	104.18
GREN11	132	42.51	16.16	12.25	35.1	49.14	19.45	13.62	41.13
GREN12	132	44.41	16.44	12.97	36.21	51.2	19.98	14.11	42.37
GREN40	400	85.87	32.27	14.32	59.96	56.19	22.73	9.36	41.5
GRIW40	400	80.35	29.01	21.23	62.25	67.71	26.06	13.7	50.55
GRST21	275	90.99	31.62	27.74	72.47	99.4	36.4	29.5	80.97
GRST22	275	91.28	31.72	27.9	72.75	99.91	36.56	29.76	81.47
GRTO2A	275	57.6	20.88	12.16	41.69	56.53	22.7	8.05	40.15
GRTO2B	275	57.66	20.89	12.21	41.76	56.64	22.72	8.14	40.27
HACK2A	275	68.8	25.29	17.75	53.51	70.46	27.07	16.59	54.87
HACK2B	275	68.2	25.03	17.65	53.06	66.69	25.67	15.94	52.24
HACK40	400	128.58	45.07	28.68	92.42	121.75	48.18	20.83	88.96
HAKB4A	400	49.97	19.14	7.61	34.67	40.13	15.96	6.7	29.27
HAKB4B	400	50.64	19.4	7.69	35.12	41.25	16.38	7.04	30.22
HAMB4A	400	76.17	27.38	17.66	56.38	61.46	24.16	10.01	44.17
HAMB4B	400	76.17	27.38	17.66	56.38	61.32	24.1	9.97	44.06
HAMH11	132	28.77	9.92	10.72	24.75	35.62	12.9	12.58	30.81
HAMH12	132	28.84	9.92	10.54	24.57	30.04	10.9	10.36	25.78
HAMH20	275	79.77	28.14	16.89	56.69	75.26	28.97	13.94	54.9
HAMH2A	275	70.28	25.03	17.49	52.89	68.28	25.86	15.68	52.25
HAMH40	400	78.84	28.73	14.55	55.19	70.15	27.33	12.44	51.09
HAMH4A	400	77.43	28.2	14.57	54.46	69.03	26.85	12.46	50.43
HARK11	132	36.04	11.62	8.31	24.74	40.94	15.17	9.44	30.89
HARK12	132	33.15	11.28	8.18	24.14	37.21	14.06	9.18	29.06
HARK13	132	27.06	11.05	6.23	21.86	26.47	10.5	6.59	21.44
HARK21	275	45.92	17	10.48	34.52	49.38	18.87	11.82	38.51
HARK22	275	47.49	17.65	10.62	35.58	51.86	19.87	12.1	40.21
HARK40	400	58.99	22.35	9.01	40.61	51.07	19.98	10.24	38.49
HARM20	275	67.65	24.59	12.51	47.29	58.39	22.96	8.97	41.45
HATL20	275	92.58	32.02	23.14	68.43	92.13	34.48	23.58	72.34
HAWP20	275	80.96	28.95	17.62	58.56	73.17	28.31	13.76	53.79
HAWP4A	400	51.81	18.94	12.02	38.81	42.09	16.18	9.12	32
HEYS40	400	103.41	35.86	27.47	78.18	107.08	39.55	30.42	86.35
HIGM20	275	70.62	25.74	19.67	56.07	66.04	25.4	15.72	51.63
HIGM2A	275	45.93	16.66	15.09	38.65	46.11	17.28	13.11	37.55
HIGM40	400	85.35	31.66	19.1	63.86	69.31	27.25	12.17	50.71
HIGM4A	400	66.65	24.69	16.94	51.86	55.53	21.55	11.69	42.17
HINP21	275	23.97	8.55	8.19	20.28	26.35	9.66	8.92	22.57
HINP22	275	24	8.57	8.12	20.24	26.79	9.82	8.96	22.85

HINP40	400	71.84	25.21	17.42	53.08	71.32	26.68	19.27	57.01
HUMR40	400	127.49	44.5	38.72	101.66	129.22	47.62	38.89	106.23
HURS20	275	72.05	25.73	17.97	54.36	73.3	29.9	14.97	57.26
HUTT40	400	70.21	25.98	12.52	49.27	49.89	20.13	7.08	35.56
IMPP40	400	58.62	21.56	13.04	43.53	48.38	18.68	10.12	36.53
INDQ40	400	35.25	12.44	6.74	24.33	36.28	13.78	7.39	26.89
IROA11	132	61.15	21.7	16.96	47.66	73.16	27.34	19.05	57.71
IROA12	132	61.32	21.72	16.8	47.51	72.13	26.91	18.87	56.93
IROA20	275	66.08	24.14	13.76	47.89	61.29	23.8	12.29	45.95
IROA2A	275	65.4	23.88	13.75	47.52	60.7	23.55	12.28	45.59
IROA2B	275	65.4	23.88	13.75	47.52	60.7	23.55	12.28	45.59
IRON11	132	27.2	7.63	7.03	17.82	32.82	10.76	9.21	24.43
IRON12	132	14.72	5.34	5.45	13	19.53	7.11	7.29	17.34
IRON40	400	89.78	31.9	19.7	64.81	85.37	32.43	19.74	65.61
IVER21	275	67.31	24.39	16.54	51.03	70.49	26.82	16.84	54.78
IVER22	275	67.36	24.41	15.4	49.93	64.67	25.05	13.61	49.03
IVER2A	275	46.83	17.25	11.61	36.01	45.97	17.77	10.6	35.73
IVER4A	400	49.26	18.33	11.25	37.17	45.19	17.39	10.63	35.23
IVER4B	400	44.18	16.7	9.54	33.16	38.78	15.11	8.73	30.1
JORD20	275	51.82	19.25	9.44	36.66	52.27	21.51	8.07	38.49
KEAD41	400	120.39	43.24	32.56	93.71	103.7	39.47	24.07	79.89
KEAD42	400	124.84	44.69	32.98	96.17	107.13	40.82	24.82	82.55
KEAD43	400	93.96	34.58	22.04	70.95	74.84	29.15	14.21	55.44
KEAD4A	400	119.35	42.92	31.71	92.41	94.81	36.7	17.76	69.66
KEAD4B	400	125.38	44.97	32.9	96.49	98.57	38.21	18.3	72.34
KEAD4C	400	88.62	32.05	25.91	71.24	76.72	29.03	20.69	61.74
KEAD4D	400	88.62	32.05	25.91	71.24	76.72	29.03	20.69	61.74
KEAP41	400	115.41	41.61	30.54	89.38	99.06	37.94	21.85	75.51
KEAP42	400	121.83	43.74	31.56	93.41	104.21	39.79	23.85	80.11
KEAR20	275	75.55	26.41	20.39	57.74	81.99	30.55	20.76	63.96
KEAR40	400	92.36	33.58	17.39	64.88	78.71	30.66	15.06	58.42
KEAR4A	400	86.74	31.99	15.2	60.44	69.17	27.35	11.53	50.21
KEMS40	400	158.08	54.83	42.18	119.72	134.55	51.86	25.33	98.66
KIBY21	275	87.39	29.55	23.59	65.38	87.95	33.22	18.92	65.9
KIBY22	275	76.91	26.58	19.96	57.55	71.28	26.93	15.78	53.87
KILL40	400	137.13	47.53	42.47	109.68	143.72	52.59	43.73	118.11
KINO10	132	37.23	12.41	12.14	29.68	47.23	16.66	15.89	39.44
KINO41	400	134.99	46.76	40.42	106.55	132.87	49.09	38.76	108.18
KINO42	400	104.66	36.15	33.75	84.86	109.5	39.84	35.73	92.08
KIRK20	275	60.43	21.83	13.85	44.73	57.41	22.46	11.02	42.79
KIRK2A	275	61.82	22.18	14.43	45.8	57.7	22.99	10.97	43.49
KITW20	275	68.57	24.49	12.57	47.21	68.28	26.58	11.4	48.98
KNAR20	275	30.73	12.5	2.59	20.27	25.11	10.47	2.89	17.69
LACK20	275	61.38	21.68	16.38	47.03	63.74	23.86	17.13	50.88
LACK2A	275	87.22	30.52	25.67	68.84	95.55	35.15	27.03	76.75
LACK2B	275	92.16	31.99	28.4	73.64	102.11	37.25	30.89	83.58
LACK2C	275	88.5	30.91	26.32	70.04	96.95	35.63	27.64	78.03
LACK40	400	90.57	32.29	22.31	67.98	84.67	31.76	22.17	67.1
LALE20	275	63.1	22.55	17.39	49.28	68.73	26.73	16.24	54.05
LAND41	400	34.16	12.16	6.57	23.77	33.79	12.98	6.1	24.46
LAND42	400	34.25	12.19	6.6	23.84	33.75	12.97	6.08	24.42
LAND4A	400	33.98	12.09	6.6	23.71	33.49	12.86	6.08	24.27
LANG40	400	43.06	14.89	9.65	30.71	46.55	17.26	12.04	36.44
LEGA40	400	102.23	36	23.44	74.35	76.73	30.17	13.31	55.98
LEGA4A	400	68	24.28	19.15	53.49	54.93	21.14	12.41	42.3

LEGA4B	400	68.05	24.29	19.15	53.5	55.01	21.17	12.41	42.34
LEIB4A	400	78.49	29.07	16.71	57.82	58.05	22.85	9.62	41.94
LEIB4B	400	108.28	39.63	22.37	78.42	77.57	30.79	11.67	55.21
LISD20	275	80.12	27.4	20.45	59.2	80.99	31.13	17.07	61.1
LISD2A	275	51.05	17.75	16.07	41.18	53.03	19.98	13.7	41.95
LITB40	400	82.47	29.93	19.24	61.57	64.75	25.03	15.68	51.08
LITT11	132	21.09	7.39	8.41	18.87	27.81	10.08	10.43	24.68
LITT13	132	33.62	11.96	12.61	29.53	43	15.56	16.44	38.45
LITT2A	275	60.77	22.09	14.84	46.09	59.55	23.86	13.87	47.61
LITT2B	275	60.64	22.06	14.68	45.87	60.38	24.08	14.34	48.39
LITT41	400	88.64	32.31	18.6	64.3	85.43	33	18.95	65.62
LITT42	400	94.57	34.57	19.86	68.75	93.32	35.71	22.28	72.78
LITT4A	400	84.08	30.91	16.94	60.66	72.48	28.6	11.87	52.32
LITT4B	400	90.34	33.19	18.52	65.46	78.22	30.79	12.95	56.49
LODR6M	66	20.56	7.55	6.91	17.58	2.26	1.57	0	2.22
LOVE40	400	103.79	35.4	25.61	75.67	93.63	35.63	18.63	69.01
MACC20	275	54.41	20.15	13.44	41.94	52.18	20.14	11.64	40.12
MACC40	400	85.26	31.55	15.52	60.14	63.98	25.6	9.54	45.75
MAGA20	275	58.65	21.89	10.8	41.76	53.96	21.23	9.92	39.93
MANN40	400	59.79	21.03	13.5	43.24	55.47	21.09	11.99	41.81
MAWO40	400	71.75	24.82	19.02	54.13	74.65	27.53	21.22	60.15
MEDW40	400	115.43	41.29	26.89	85.28	109.45	41.67	25.05	83.98
MELK10	132	43.65	15.31	16.26	37.91	57.35	20.74	19.8	49.12
MELK2A	275	47.48	17.51	13.82	38.58	46.63	17.7	12.61	37.64
MELK2B	275	46.15	17.05	13.19	37.31	46.68	17.73	12.47	37.55
MELK40	400	115.08	41.29	23.55	81.95	92.06	36.05	16.56	67.55
MILH11	132	24.27	8.57	8.35	20.47	30.55	11.19	10.06	25.89
MILH12	132	24.61	8.82	7.51	19.99	31	11.49	9.13	25.39
MILH2A	275	44.02	16.54	7	30.4	44.13	18.09	6.7	32.28
MILH2B	275	43.98	16.53	6.99	30.37	44.08	18.08	6.69	32.25
MITY40	400	87.91	32.58	15.73	61.8	63.28	25.44	9.2	45.17
MONF21	275	87.27	30.54	27.27	70.46	93.03	34.5	25.87	74.65
MONF22	275	79.03	27.98	24.65	64.21	81.5	30.36	22.79	65.73
MONF40	400	102.16	36.08	26.53	77.56	91.3	34.47	21.18	69.93
MONF4A	400	88.93	31.66	22.9	67.68	78.57	29.72	18.11	60.15
NECH20	275	86.75	30.32	20.06	62.93	80.54	30.97	15.5	59.3
NEEP20	275	61.21	22.22	13.7	45.12	67.06	26.4	12.56	49.9
NEEP4A	400	49.37	18.46	10.04	36.14	44.32	17.48	8.17	32.89
NEWX20	275	79.19	28.08	19.02	58.72	84.45	33.99	15.64	63.71
NFLE11	132	39.27	12.71	13.11	31.09	48.1	17.25	15.09	39.48
NFLE12	132	32.77	12.04	11.6	28.62	35.92	13.35	12.17	31.06
NFLE40	400	132.15	46.33	32.42	97.94	101.22	39.69	17.8	73.93
NHYD2A	275	46.48	17.76	7.42	32.53	39.38	18.61	3.01	29.33
NHYD2B	275	46.56	17.78	7.05	32.2	39.58	18	5.35	30.81
NHYD60	66	40.18	13.51	12.4	31.51	54.29	19.8	15.49	43.5
NINF40	400	67.78	24.25	15.84	50.14	59.28	22.82	13.09	45.36
NORL2A	275	53.58	19.8	10.35	38.35	54.42	22.47	7.37	39.14
NORL2B	275	52.53	19.5	9.57	37.14	52.96	22.16	6.6	37.94
NORT21	275	75.7	26.66	18.5	56.2	75.49	28.56	17.3	57.69
NORT22	275	67	24.23	16.58	50.85	62.69	23.92	14.23	48.05
NORT40	400	87.3	31.29	20.05	64.3	73.03	28.05	15.2	54.86
NORW40	400	60.78	22.44	10.99	42.73	49.11	19.27	8.95	36.2
NURS40	400	68.09	23.76	17.37	50.97	67.88	25.35	16.54	52.39
NURS4A	400	56.42	20.15	12.91	41.4	51.35	19.49	11.36	38.92
OCKH10	132	27.78	9.75	9.26	23.04	33.6	12.23	10.81	28.11

OCKH20	275	66.76	23.94	12.66	46.52	68.09	26.36	12.09	49.36
OCKH2A	275	57.63	20.75	12.38	41.73	57.07	21.99	11.86	42.96
OFFE20	275	71.83	26.05	13.04	49.88	62.85	24.68	10.34	45.24
OLDB20	275	57.12	20.83	10.49	39.94	58.53	22.77	10.31	42.51
OLDB2A	275	56.61	20.63	10.5	39.68	57.99	22.54	10.32	42.19
OLDB4A	400	37.18	14.01	6.84	26.65	33.79	13.22	6.41	25.1
OLDS11	132	46.2	16.35	10.47	33.6	47.1	17.83	10.74	35.96
OLDS12	132	45.18	16.25	10.47	33.45	48.83	18.56	11.19	37.44
OSBA41	400	76.38	28.1	17.33	57.06	54.87	21.57	9.18	39.68
OSBA42	400	76.16	28.05	17.33	56.99	53.15	20.93	8.83	38.43
PADI10	132	29.25	9.98	10.23	24.34	35.83	12.88	11.61	29.83
PADI40	400	85.75	31.21	17.55	61.69	62.02	24.65	9.37	44.23
PAFB4A	400	57.12	21.82	9.41	40.27	37.16	15.3	3.65	25.29
PAFB4B	400	57.24	21.86	9.44	40.35	37.24	15.33	3.67	25.35
PELH40	400	145.55	51.46	36.4	109.19	113.87	44.15	22.2	84.63
PEMB10	132	29.2	10.36	10	24.65	36.73	13.49	11.97	31.05
PEMB40	400	60.38	21.38	16.49	46.74	66.64	24.67	18.06	52.95
PENN20	275	74.41	26.54	16.65	54.18	76.99	29.36	16.36	57.88
PENN2A	275	73.53	26.22	16.62	53.71	76.05	28.97	16.34	57.31
PENN4A	400	47.66	17.76	9.34	34.46	41.59	16.23	8.51	31.46
PENN4B	400	49.81	18.56	9.56	35.81	45.44	17.7	9.02	34.06
PENT40	400	92.33	30.78	27.37	70.9	92.11	33.91	24.24	72.19
PEWO21	275	71.48	25.4	21.13	57.05	70.92	26.67	18.34	56.06
PEWO22	275	72.19	25.63	21.68	57.92	67.88	25.45	18.37	54.37
PEWO2A	275	72.53	25.74	21.83	58.22	68.18	25.53	18.66	54.77
PEWO2B	275	73.24	25.96	22.03	58.74	73.83	27.64	19.9	58.99
PEWO40	400	111.65	39.07	26.17	81.42	99.09	38.13	19.54	73.47
PITS20	275	62.63	22.69	13.64	45.73	69.25	27.23	12.56	51.07
POPP20	275	30.08	12.4	1.98	19.51	23.88	10.06	2.68	16.9
PYLE20	275	62.25	23.2	11.03	43.84	55.56	22	9.33	40.45
PYLE2A	275	61.63	22.96	11.04	43.5	55.07	21.79	9.34	40.15
PYLE2B	275	61.63	22.96	11.04	43.5	55.07	21.79	9.34	40.15
QUER4A	400	89.41	31.71	21.82	66.66	77.52	29.94	14.26	56.61
QUER4B	400	89.17	31.66	21.69	66.45	78.04	30.13	14.51	57.11
RAIN20	275	102.6	33.91	30.44	78.39	98.93	36.68	23.85	75.72
RASS40	400	56.27	20.7	12.34	41.61	43.01	16.93	6.9	30.84
RATS2A	275	43.99	16.01	13.6	36.24	45.38	16.87	14.33	38.19
RATS41	400	99.44	35.62	22.15	72.52	99.39	37.49	23.64	76.66
RATS42	400	108.83	38.79	24.02	78.88	109.13	41.12	25.9	84.06
RAYL41	400	81.13	29.64	18.82	60.74	65.4	25.44	12.88	48.87
RAYL42	400	83.6	30.66	18.65	62	64.06	25.1	11.96	47.46
REBR21	275	72.07	26.21	18.92	55.98	68.94	26.95	13.57	51.68
REBR22	275	73.13	26.62	19.32	56.97	70.15	27.58	12.9	51.9
ROCH20	275	64.11	23.2	14.49	47.3	62.89	24.21	12.67	46.9
ROCH4A	400	32.86	12.29	7.75	25.13	29.25	11.27	6.76	22.69
ROCK40	400	102.83	35.19	28.97	78.74	88.92	33.2	23.55	70.5
RUGE10	132	28.17	9.66	10.1	23.76	31.4	11.2	11.86	27.7
RUGE40	400	68.15	24.71	13.63	48.57	66.83	25.5	15.17	51.24
RYEH40	400	85.77	30.61	22.98	66.27	83.61	31.36	22.56	66.91
RYEH4A	400	77.86	28.35	19.75	59.84	69.15	26.33	17.05	54.29
SAEN20	275	73.47	26.03	21.69	58.51	73.29	27.14	21.9	60.28
SAES20	275	74.14	26.23	22.05	59.14	74.8	27.59	23.4	62.41
SALH20	275	77.74	27.4	17.53	56.27	75.21	28.68	15.14	55.7
SBAR40	400	63.24	23.8	11.92	45.57	52.95	20.86	9.44	38.94
SEAB40	400	72.18	25.44	18.13	54.11	70.12	26.09	19.7	56.59

SELL40	400	83.8	30.2	18.03	60.73	77.23	29.77	16.69	58.79
SHBA40	400	97.39	34.54	28.11	76.96	93.89	35.05	26.55	76.12
SHEC20	275	55.77	20.49	11.27	40.25	58.54	23.93	8.27	42.11
SHRE4A	400	66.39	24.23	13.48	47.76	53.29	21.05	8.25	38.01
SING40	400	118.13	41.89	28.81	88.05	90.86	35.59	15.37	65.69
SIZE11	132	44.93	16.19	14.57	37.47	55.27	20.34	17.33	46.09
SIZE12	132	44.94	16.19	14.57	37.48	55.3	20.36	17.23	46.03
SIZE40	400	73.27	26.05	18.97	55.8	74.25	27.62	20.8	59.86
SJOW20	275	94.89	34.06	24.76	72.92	104.95	40.4	28.15	85.28
SJOW2A	275	73.93	26.31	21.46	58.67	75.55	30.83	19.81	63.41
SJOW2B	275	73.93	26.31	21.46	58.67	75.55	30.83	19.81	63.41
SJOW40	400	121.61	42.87	27.89	88.52	126.98	48.95	27.9	97.13
SKLG20	275	68.99	24.64	15.56	50.41	64.73	25.14	12.35	47.9
SMAN20	275	73.05	26.66	16.98	54.69	75.39	29.18	14.44	55.7
SPEN21	275	52.55	19.44	9.68	37.17	45.91	18.04	7.96	33.48
SPEN22	275	54.36	20.15	9.79	38.28	45.4	18.01	7.41	32.88
SPLN40	400	70.53	25.73	19.06	55.45	61.8	23.5	16.56	49.8
SSHI20	275	67.07	24.47	11.24	45.84	59.38	23.34	9.94	42.95
STAH4A	400	65.99	24.09	14.06	48.12	51.67	20.52	7.79	36.81
STAH4B	400	65.99	24.09	14.06	48.13	51.57	20.49	7.77	36.74
STAL21	275	46.65	17.18	11.21	35.51	46.1	17.64	10.31	35.26
STAL22	275	57.11	21.38	10.26	40.51	50.77	20.04	8.76	37.1
STAL4A	400	34.89	13.01	7.94	26.34	29.43	11.35	6.56	22.61
STAY41	400	76.26	28.1	15.6	55.34	68.39	26.37	15.27	52.56
STAY42	400	68.45	25.43	14.11	50.07	62.19	23.92	14.63	48.46
STAY4A	400	67.45	24.98	14.82	50.14	58.9	22.68	14.16	46.23
STEN10	132	40.25	12.62	10.45	28.3	49.94	17.84	12.55	37.78
STES10	132	35.32	11.94	10.72	27.6	43.93	15.83	12.76	35.15
STEW20	275	95.57	34.02	18.9	67.01	94.86	36.4	18.44	69.92
STEW2A	275	95.37	33.96	18.82	66.84	94.55	36.34	18.1	69.49
STEW4A	400	44.49	16.07	11.34	34.07	42.02	15.88	10.57	33.03
STEW4B	400	44.24	16	11.32	33.95	42.33	15.99	10.67	33.28
STEW4C	400	44.53	16.14	11.17	33.99	40.44	15.44	8.99	30.83
STEW4D	400	44.12	16.02	11.07	33.73	40.35	15.42	8.94	30.74
STSB40	400	61.36	22.64	13.45	45.46	53.46	20.85	10.57	40.06
STSB4A	400	52.96	19.68	12.33	40.17	45.59	17.71	9.86	34.91
STYC10	132	31.19	10.57	11.72	26.66	28.98	10.47	10.89	25.71
SUND41	400	129.31	46.88	26.47	92.76	99.27	39.15	16.62	71.99
SUND42	400	94.94	34.84	20.12	69.39	75.9	29.65	13.91	55.84
SUTB4A	400	91.49	33.15	22.11	68.99	80.1	30.61	19.9	63.18
SWAN20	275	56.35	20.6	13.94	43.07	60.32	22.99	14.02	46.53
SWAN40	400	48.9	17.89	11.24	36.54	43.34	16.62	9.61	33.11
SWAN4A	400	48.3	17.69	11.01	36.04	42.73	16.4	9.41	32.6
SWAN4B	400	48.32	17.7	11.02	36.04	42.77	16.41	9.43	32.64
TAUN4A	400	51.71	18.54	10.59	36.81	44.38	17.38	6.95	31.53
TAUN4B	400	52.59	18.83	10.76	37.38	45.84	17.91	7.42	32.75
TEMP21	275	61.44	22.32	13.07	44.64	65.21	25.81	11.74	48.24
TEMP22	275	61.67	22.39	13.18	44.84	65.76	26.02	11.89	48.69
THOM20	275	77.26	27.5	21.76	60.65	79.19	29.9	20.48	62.77
THOM40	400	113.15	40.01	27.7	84.28	96.43	36.92	19.33	71.55
THTO41	400	119.12	42.9	29.06	89.74	88.26	34.45	14.87	63.59
THTO42	400	119.39	42.91	29.22	89.9	87.54	34.18	14.71	63.05
THUR20	275	66.3	24.63	11.01	45.83	66.68	26.35	10.98	48.25
THUR2A	275	66.75	24.88	10.38	45.57	62.84	25.21	8.39	44.04
TILB21	275	74.09	26.37	20.26	57.55	77.95	29.03	20.95	62

TILB22	275	78.75	27.88	23.81	63.24	83.46	30.88	24.6	68.27
TILB40	400	132.16	46.96	31.9	98.32	114.93	44.26	23.72	86.31
TILB4A	400	68.45	24.51	19.27	53.93	61.2	23.05	15.72	48.32
TINP2A	275	60.58	22.23	13.95	45.38	59.3	23.09	12.38	45.03
TINP2B	275	60.58	22.23	13.95	45.38	59.31	23.09	12.38	45.03
TODP20	275	63.71	22.59	15.39	47.34	58.12	22.4	11.21	42.89
TOTE21	275	80.88	29.32	21.56	63.03	80.87	31.12	18.15	62.15
TOTE22	275	81.96	29.75	21.89	63.96	83.58	32.17	18.36	63.85
TOTW21	275	82.36	30.17	18.71	61.38	80.98	33.45	14.48	61.79
TOTW22	275	83.16	30.41	19.09	62.1	81.68	33.68	14.91	62.55
TRAW20	275	45.7	16.16	13.83	36.69	48.34	18.16	11.87	37.55
TRAW40	400	62.6	22.8	12.6	44.85	48.77	19.31	8.47	35.78
TREM20	275	47.07	18.28	6.25	32.1	38.62	15.82	4.55	26.92
TREU4A	400	97.9	34.65	22.4	71.4	77.57	30.36	12.5	55.44
TREU4B	400	99.93	35.31	22.84	72.78	79.34	31.07	12.66	56.6
TYNE20	275	61.63	22.55	10.12	42.01	55.5	21.82	9.11	39.97
TYNE2A	275	58.91	21.82	9.64	40.5	51.66	20.44	8.12	37.03
TYNE50	11	54.61	19.52	19.16	46.77	59.59	21.65	21.93	52.55
UPPB21	275	50.48	18.68	12.12	38.54	48.07	18.64	9.91	36.27
UPPB22	275	50.45	18.69	12.11	38.54	45.54	17.59	10.13	35.01
USKM20	275	83.13	29.67	22.05	64.01	93.99	35.15	25.25	74.96
USKM2A	275	66.7	24.59	14.26	49.03	67.38	26	13.67	50.45
USKM2B	275	82.45	29.46	21.66	63.32	91.98	34.52	23.82	72.63
WALH40	400	64.68	23.86	12.37	46.11	48.56	19.23	8.18	35.37
WALP11	132	49.25	17.53	13.05	37.85	53.9	20.72	13.79	43.09
WALP12	132	37.6	13.94	10.59	30.3	41.14	15.97	11.39	33.97
WALP13	132	31.34	11.99	8.18	25.14	33.64	13.34	8.69	27.56
WALP40	400	107.85	38.57	28.49	83.05	94.27	35.8	23.99	74.61
WALX21	275	98.79	35.47	27.64	77.81	95.83	36.46	25.2	76.77
WALX22	275	98.37	35.38	27.51	77.55	95.01	36.21	24.95	76.16
WALX4A	400	79.56	28.49	21.65	61.94	75.85	28.6	19.51	59.96
WALX4B	400	73.34	26.67	19.27	56.99	66.37	25.23	16.61	52.3
WARL20	275	83.84	29.97	19.95	62.34	71.15	27.74	13.1	52.33
WASF2A	275	64.54	23.03	14.69	47.25	53.27	20.9	8.47	38.02
WASF2B	275	69.07	24.44	15.78	50.34	58.44	23.03	8.77	41.33
WATS21	275	65.67	23.87	15.29	49.05	66.35	25.61	13.44	49.66
WATS22	275	62.52	22.6	12.82	44.78	64.43	24.99	11.58	46.92
WBOL20	275	76.28	27.4	13.52	52.27	66.78	26.14	11.49	48.46
WBUR10	132	32.75	10.77	10.87	26.1	43.5	15.25	14.27	35.83
WBUR41	400	115.41	41.58	32.68	91.48	110.43	41.29	32.2	90.6
WBUR42	400	100.19	36.3	29.35	80.68	101.52	37.75	31.31	84.69
WEAV4A	400	76.75	28.42	13.97	54.15	53.02	21.53	5.81	36.26
WEAV4B	400	78.04	28.84	14.36	55.14	53.88	21.87	5.91	36.84
WHAM40	400	141.29	49.23	32.08	101.7	134.96	52.61	24.06	98.45
WHAM4A	400	110.46	39.39	24.19	79.9	106.32	43.25	18.99	80.14
WHAM4B	400	110.49	39.41	24.06	79.79	106.39	43.29	18.77	79.99
WHGA20	275	67.08	23.98	15.55	49.46	64.75	24.97	12.27	47.58
WHSO20	275	86.46	30.74	23.31	66.78	95.2	35.74	24.19	74.73
WHSO2A	275	61.62	22.26	17.81	49.28	63.98	23.98	18.26	52.18
WHSO2B	275	61.62	22.26	17.81	49.28	63.98	23.98	18.26	52.18
WHSO4A	400	69.29	24.82	17.69	52.78	60.76	23.06	14.56	47.18
WIBA20	275	61.28	22.28	12.96	44.47	66.05	26.48	10.18	47.63
WIEN2A	275	54.65	20.03	9.48	37.81	53.49	20.97	8.68	38.34
WIEN2B	275	58.69	21.17	12.12	42.05	57.65	22.41	10.87	42.56
WILE40	400	107.55	38.51	21.63	76.1	94.99	36.84	17.4	69.5

WILL10	132	55.51	18.82	19.8	46.42	68.37	24.74	23.18	58.17
WILL20	275	41.57	14.86	14.48	35.49	44.9	16.48	14.63	37.94
WIMB11	132	34.24	11.3	11.28	27.25	44.82	16.19	14	36.9
WIMB12	132	28.46	10.34	9.74	24.37	34.63	12.76	11.4	29.44
WIMB13	132	22.63	7.91	8.12	19.3	28.5	10.41	9.64	24.36
WIMB14	132	22.24	7.84	8	19.1	27.98	10.22	9.64	24.1
WIMB20	275	86.41	30.46	20.99	64.07	94.25	37.03	19.68	72.06
WIMB2M	275	45.98	17.46	8.74	33.43	42.3	16.78	7.11	30.83
WISD20	275	83.95	29.48	25.29	66.98	91.98	35.51	22.09	72.31
WISD2A	275	64.51	22.9	19.35	51.74	69.02	27.01	17.91	56.11
WISD2B	275	73.42	26.21	20.15	57.22	74.32	30	18.83	61.26
WISD60	66	50.27	17.22	17.55	41.9	6.55	4.53	0	6.4
WMEL20	275	75.11	26.86	14.4	52.39	72.16	28.04	13.94	53.59
WTHU41	400	98.89	36.01	19.67	70.6	84.58	33.3	13.34	60.43
WTHU42	400	130.91	46.84	27.94	94.18	110.58	43.43	17.16	78.58
WTHU4A	400	114.5	41.02	24.88	82.88	88.65	35.11	14.15	63.81
WTHU4B	400	114.5	41.02	24.88	82.88	88.65	35.11	14.15	63.81
WWEY21	275	80.17	29.22	17.73	59.06	80.61	31.05	17	60.91
WWEY22	275	67.27	25	13.2	48.55	65.24	25.33	12.56	48.38
WWEY2A	275	56.52	20.49	15.02	43.99	57.45	22.15	13.7	45.03
WWEY4A	400	45.41	17.21	8.36	32.7	39.85	15.62	7.83	29.92
WWEY4B	400	52.55	19.55	11.84	39.49	46.62	18.13	10.52	36.16
WYLF10	132	48.55	14.98	15.26	36.45	60.89	21.06	18.25	48.03
WYLF40	400	66.9	22.32	19.01	50.57	67.46	24.48	19.64	54.25
WYMO40	400	119.13	42.94	26.96	87.68	88.52	34.66	15.56	64.57
YGAR4A	400	59.62	21.61	12.69	43.25	45.58	18.15	6.89	32.55
YWER4A	400	59.44	21.47	12.91	43.28	45.47	18.08	6.6	32.17

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Table D.3.3 - NGET Fault Levels (kA), Winter 2011/12

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	37.4	13.37	7.14	26.05	34.92	13.48	6.12	25.18
ABHA4B	400	37.38	13.36	7.13	26.03	34.9	13.47	6.12	25.17
ABTH11	132	31.39	12.21	6.93	24.19	37.31	14.5	9.41	29.93
ABTH12	132	52.51	19.3	14.22	41.52	62.3	23.41	18.31	51.41
ABTH13	132	11.8	4.66	1.59	8.19	10.38	3.97	2.35	7.96
ABTH20	275	90.15	31.85	23.19	68.24	96.81	36.1	26.5	77.56
ALDW20	275	63.07	23.1	10.31	42.98	60.91	24	10.25	44.19
ALVE4A	400	25.91	9.68	4.27	17.96	21.56	8.57	3.14	15.26
ALVE4B	400	26.01	9.72	4.27	18.02	21.79	8.66	3.15	15.4
AMEM10	132	27.85	10.03	9.94	24.12	34.16	12.59	11.17	28.97
AMEM4A	400	54.67	20.59	10.75	39.87	44.19	17.54	7.17	31.98
AMEM4B	400	50.89	19.43	9.26	36.74	40.92	16.34	6.56	29.67
AXMI10	132	28.19	9.78	9.41	23.24	34.08	12.43	10.59	28.17
AXMI40	400	41.36	14.81	8.94	29.89	34.31	13.29	6.45	25.24
BAGB20	275	52.74	19.51	12.62	40.21	51.16	19.65	12.73	40.52
BARK10	132	25.87	9.11	9.76	22.64	28.05	10.21	10.22	24.66
BARK21	275	63.61	23.01	18.3	50.83	65.12	24.65	17.56	52.42
BARK22	275	66.26	23.91	19.71	53.52	69.36	26.18	18.98	56
BARK40	400	167.49	58.06	40.73	122.84	144.63	56.34	26.37	106.05
BARP21	275	57.88	21.06	15.84	45.63	57.26	21.9	13.66	44.62
BARP22	275	60.89	22.06	17.46	48.66	62.13	23.62	15.36	48.77
BEDD21	275	67.43	24.84	16.09	51.21	68.9	26.54	15.6	53.14
BEDD22	275	85.24	30.74	18.81	62.28	85.97	33.46	17.45	64.77
BEDD2M	275	17.06	6.22	6.02	14.81	18.06	6.7	5.92	15.41
BEDD4A	400	51.96	19.54	11.52	39.15	44.79	17.72	10.42	35.48
BEDD4B	400	43.48	16.66	8.25	31.81	36.71	14.79	7.44	28.36
BESW20	275	64.89	23.31	12.22	45.18	57.72	22.61	9.87	41.85
BICF10	132	28.12	10.21	10.54	24.97	30.96	11.35	10.74	26.8
BICF4A	400	63.63	23.57	16.1	49.43	45.76	18.01	8.42	33.89
BICF4B	400	61.51	22.71	16.2	48.31	47.74	18.64	9.17	35.54
BIRK20	275	51.88	17.99	16.05	41.49	54.34	20.32	13.92	42.66
BISW20	275	70.41	25.3	12.98	48.76	65.76	25.93	10.56	47.23
BLYT21	275	66.79	24.44	12.54	47.1	64.61	25.07	12.11	47.57
BLYT22	275	60.31	22.49	11.1	42.91	55.75	21.85	9.8	40.71
BLYT4A	400	43.52	16.3	8.22	31.28	37.94	14.82	7.44	28.4
BLYT4B	400	42.64	16.05	7.8	30.5	36.63	14.38	6.71	27.05
BLYT60	66	52.24	17.36	15.83	40.38	29.92	10.86	12.26	27.61
BOLN40	400	69.07	24.5	16.02	50.66	55.18	21.31	11.45	41.59
BOTW40	400	82.84	28.64	20.29	60.8	75.09	28.69	14.86	55.43
BRAI4A	400	59.94	22.24	13.33	44.77	44.99	17.65	8.02	32.98
BRAI4B	400	63.59	23.68	13.88	47.37	45.29	17.84	7.92	33.15
BRAW20	275	72.73	26.16	16.86	53.86	71.23	27.43	14.63	53.42
BRAW4A	400	39.03	14.42	9.51	29.9	34.24	13.1	8.05	26.58

BRED20	275	70.28	25.83	14.63	51.16	69.77	27.19	12.74	51.19
BRFO40	400	66.93	24.35	15.21	49.65	59.1	22.81	11.57	43.83
BRIM10	132	53.02	18.22	20.63	46.4	64.66	23.17	24.52	57.29
BRIM2A	275	86.9	31.63	22.06	66.8	81.73	31.67	17.16	61.95
BRIM2B	275	87.06	31.84	20.69	65.71	82	32.36	16.73	62.5
BRIM2C	275	87.3	31.82	22.19	67.19	81.76	31.77	16.66	61.59
BRIM2D	275	85.21	31.3	19.63	63.89	79.06	31.41	14.92	59.34
BRIN21	275	67.03	24.15	15.15	49.3	72.02	28.04	14.16	53.82
BRIN22	275	71.81	25.95	18.73	55.42	75.05	28.75	18.18	58.83
BRIN2M	275	27.93	10.05	10.6	24.81	28.84	10.59	9.99	24.97
BRIN40	400	78.81	28.76	18.79	59.46	58.85	22.77	13.24	45.45
BRLE40	400	124.94	43.7	28.88	90.68	108.06	41.52	22.19	80.91
BRWA2A	275	19.78	7.24	5.41	15.66	19.88	7.57	4.8	15.5
BRWA2B	275	19.74	7.22	5.45	15.67	19.72	7.5	4.83	15.44
BRWA2C	275	19.71	7.22	5.41	15.61	19.82	7.54	4.79	15.46
BRWE10	132	20.87	7.3	8.73	19.05	6.13	2.24	2.15	5.32
BURW40	400	97.17	35.2	24.5	74.27	63.02	25.18	10.85	46.47
BUSH20	275	65.13	23.48	13.35	46.56	62.59	24.42	10.8	45.33
BUST21	275	72.9	25.99	16.91	53.67	66.19	26.47	12.51	49.94
BUST22	275	71.89	25.64	16.57	52.83	63.54	25.86	10.91	47.48
CANT40	400	90.45	32.32	21.41	67.12	69	27.22	11.59	50.09
CAPE21	275	54.53	18.89	18.38	45.09	60.01	22.05	18.31	49.5
CAPE22	275	35.11	12.5	12.91	30.58	38.73	14.17	13.11	33.15
CAPE4A	400	97.03	33.87	25.33	73.22	84.25	31.99	18.52	63.75
CAPE4B	400	103.11	35.63	28.06	78.45	90.54	34.21	20.56	68.94
CARE20	275	53.53	20.03	9.73	38.07	46.46	18.39	8.38	34.39
CARR11	132	28.59	10.48	8.5	23.33	33.56	12.71	9.66	27.64
CARR12	132	51.86	17.84	16.88	42.11	64	23.42	20.15	53.27
CARR20	275	81.35	29.2	22.89	64.18	89.85	33.78	23.58	71.35
CARR40	400	123.62	44.17	25.32	87.78	107.11	41.33	22.14	80.58
CARR4A	400	120.49	43.31	23.76	85	103.36	40.1	20.2	76.92
CARR4B	400	119.63	43.12	22.98	83.97	100.63	39.26	18.68	74.2
CARR4H	400	125.43	44.91	24.95	88.46	106.81	41.42	20.92	79.49
CELL11	132	44.28	14.92	14.59	35.69	55	19.81	16.77	44.79
CELL12	132	30.25	10.53	10.42	25.31	36	13.11	11.57	30.11
CELL40	400	99.44	36.36	18.27	69.68	77.92	30.77	13.99	57.51
CHIC41	400	39.29	14.22	8.64	28.74	31.41	12.24	5.84	23.14
CHIC42	400	38.82	14.02	8.58	28.41	29.68	11.61	5.3	21.72
CHSI20	275	93.2	33.88	18.82	66.73	80.8	32	13.26	58.52
CHTE20	275	72.56	25.7	18.58	54.92	63.41	24.43	13.6	48.15
CILF2A	275	50.52	18.58	14.19	40.47	45.44	17.29	12.39	36.83
CILF2B	275	50.46	18.54	14.18	40.4	50.54	19.2	13.48	40.63
CILF40	400	89.64	31.94	21.87	67.05	79.06	30.17	17.38	60.05
CITR41	400	123.52	43.69	28.22	90	126.8	49.44	22.59	92.51
CITR42	400	123.4	43.65	28.18	89.91	126.57	49.39	22.36	92.21
CLEV40	400	84.82	30.73	20.64	64.11	64.54	25.48	10.23	46.26
COSO40	400	113.2	40.8	26.44	84.14	96.58	37.2	22.41	75.02
COTT40	400	132.09	46.68	35.15	101.17	127.72	47.56	35.82	103.08
COVE20	275	65.23	23.31	13.28	46.24	61.33	23.66	11.82	45.28
COVE2A	275	64.56	23.07	13.27	45.89	60.73	23.41	11.82	44.92
COWB2A	275	69.16	25.37	14.07	49.95	60.93	24.06	9.12	43.15
COWL40	400	135	47.6	35.01	102.33	115.25	43.97	24.97	87.16
CREB2A	275	81.7	29.4	25.78	67.36	80.54	30.04	22.98	65.47
CREB2B	275	81.16	29.2	25.71	67.01	80.25	29.93	22.97	65.29
CREB40	400	152.63	54.11	39.45	115.98	124.92	48	26.21	94.1

CREB4A	400	149.53	53.19	37.76	112.98	114.97	47.02	14.13	80.62
CREB4B	400	149.46	53.19	37.55	112.77	114.94	47.01	14.09	80.58
CULJ4A	400	120.83	42.68	32.19	92.55	113.9	42.69	29.04	89.41
DAIN40	400	135.93	48.27	27.92	96.17	118	45.5	24.12	88.47
DAMC40	400	135.89	47.22	40.07	106.85	137.16	50.73	39.69	111.44
DEES41	400	121.17	41.6	32.67	91.51	119.62	44.34	32.61	95.32
DEES42	400	113.43	39.39	28.77	84.47	108.1	40.5	27.04	84.31
DIDC41	400	128.57	44.85	36.6	100.03	130.44	47.9	39.82	107.57
DIDC42	400	112.35	38.78	34.34	89.19	113.57	41.39	36.92	95.45
DINO40	400	75.29	25.59	21.31	57.5	80.43	29.5	23.05	64.77
DRAK10	132	40.44	12.15	12.08	29.26	49.27	16.61	15.55	39.04
DRAK21	275	69.67	24.77	18.69	53.72	71.59	26.82	19.77	57.7
DRAK22	275	69.93	25.09	20.81	56.29	74.43	27.74	21.64	60.87
DRAK41	400	113.18	40.26	25.88	82.82	109.13	41.28	27.09	85.47
DRAK42	400	87.22	31.59	18.17	62.85	81.67	31.41	17.14	61.56
DRAX11	132	15.69	5.39	5.63	13.26	19.63	6.99	7.16	17.04
DRAX12	132	15.15	5.2	5.46	12.82	18.99	6.76	6.96	16.52
DRAX41	400	152.76	53.23	44.36	119.64	153.15	56.32	45.78	125.43
DRAX42	400	149.24	51.45	43.42	116.18	149.71	54.9	44.54	122.18
DUBR4A	400	40.54	15.1	9.2	30.55	31.99	12.45	6.07	23.67
DUBR4B	400	51.88	19.45	11.31	38.82	41.55	16.39	7.55	30.73
DUNG20	275	45.76	16.23	15.66	38.62	49.93	18.33	15.97	41.89
DUNG40	400	77.38	27.4	19.53	58.28	75.91	28.91	17.38	58.26
EALI20	275	63.57	22.65	18.19	50.21	68.53	27.04	13.76	52
EALI60	66	60.57	20.73	19.31	48.63	69.87	25.64	20.63	56.89
EASO40	400	87.47	31.73	20.46	65.33	67.01	25.87	14.76	51.34
ECLA10	132	45.67	15.77	16.47	38.77	53.07	19.35	17.78	45.14
ECLA40	400	120.82	43.91	25.36	87.45	93.57	36.77	16.26	68.27
EGGB41	400	111.98	39.88	29.57	85.96	104.45	39.21	26.32	81.77
EGGB42	400	135.67	46.89	37.89	104.2	131.72	48.84	33.94	103.01
ELLA11	132	28.1	9.85	9.17	23.1	34.15	12.6	10.34	28.17
ELLA12	132	28.74	10.08	9.26	23.52	34.4	12.7	10.36	28.33
ELLA20	275	69.64	25.34	13.64	49.48	61.7	24.24	10.49	44.77
ELST11	132	30.22	10.01	10.45	24.6	37.92	13.7	12.47	31.85
ELST12	132	38.8	12.68	12.07	30	46.26	16.77	13.56	37.27
ELST1A	132	10.7	3.86	3.36	8.82	13.09	4.86	3.88	10.76
ELST1B	132	10.37	3.78	3.19	8.53	12.7	4.74	3.7	10.4
ELST21	275	70.05	25.23	17.99	53.67	75.89	28.7	19.13	59.72
ELST22	275	64.29	23.15	13.47	46.2	71.63	27.41	14.39	53.15
ELST2A	275	69.26	24.94	17.91	53.19	74.96	28.33	19.05	59.11
ELST2B	275	63.63	22.9	13.45	45.84	70.81	27.07	14.38	52.65
ELST40	400	104.96	38.15	21.46	75.41	111.29	43.39	22.3	83.65
ELST4A	400	104.94	38.14	21.46	75.4	111.22	43.36	22.27	83.6
ELST4B	400	45.45	17.31	8.35	32.83	42.28	16.47	8.39	31.69
ENDE40	400	91.5	33.55	18.86	66.3	61.81	24.69	9.49	44.41
EXET40	400	59.17	20.54	13.1	42.14	55.64	21.18	11.46	41.42
FAWL10	132	50.87	16.26	18	41	69.5	23.89	24.97	58.76
FAWL40	400	90.36	30.69	23.54	66.95	89.7	33.23	23.44	70.43
FECK20	275	68.37	24.76	15.66	50.68	67.97	26.06	15.89	52.74
FECK40	400	86.3	31.95	15.45	60.64	71.87	28.21	14.13	54.03
FENW4A	400	126.17	45.11	33.49	97.29	111.14	42.33	23.88	83.74
FERR11	132	35.74	12.22	12.35	29.63	43.09	15.57	15.25	37.27
FERR12	132	32.73	11.23	10.55	26.44	39.97	14.55	13.08	33.65
FERR13	132	10.77	3.97	3.4	9.02	11.36	4.2	3.59	9.54
FERR21	275	71.98	25.64	20.02	56.29	76.52	28.61	20.75	61.21

FERR22	275	77.66	27.41	24.89	63.66	84.09	30.93	26.43	70.16
FERR23	275	85.38	29.81	25.53	67.69	93.98	34.65	27.39	76.4
FERR2A	275	85.46	29.84	25.6	67.81	93.72	34.58	27.16	76.06
FERR2B	275	71.47	25.48	19.75	55.79	75.57	28.33	19.84	59.91
FERR4A	400	90.96	32.29	23.99	69.65	81.33	30.61	20.63	63.92
FFES21	275	36.91	13.68	7.53	26.87	36.14	14.21	6.36	26.46
FFES22	275	34.66	13.08	5.82	24.31	33.24	13.3	4.43	23.24
FIDF21	275	68.18	23.05	24.1	56.69	72.75	26.14	25.24	62.2
FIDF22	275	68.14	23.24	23.86	56.73	71.5	25.85	24.46	61.01
FIDF23	275	85.59	28.89	25.98	66.84	87.56	31.87	26.88	71.95
FIDF24	275	85.97	28.95	26.14	67.08	88.62	32.21	27.31	72.85
FLEE40	400	107.85	37.68	24.16	77.45	92.18	35.38	19.71	69.75
FORD4A	400	39.76	14.84	8.87	29.86	31.46	12.3	5.86	23.26
FORD4B	400	51.81	19.45	11.04	38.55	41.18	16.35	6.64	29.77
FOUR20	275	44.3	17.46	5.04	29.73	35.83	14.93	3.2	24.32
FROD2A	275	66.34	22.73	23.18	55.33	69.37	25.21	22.6	58.26
FROD2B	275	65.63	22.35	23.12	54.72	68.26	24.74	22.33	57.31
FROD40	400	105.62	36	30.39	81.3	93.24	34.63	25.52	74.5
GRAI41	400	160.57	56.01	49.78	128.99	174.68	64	56.44	146.95
GRAI42	400	139.22	49.11	36.79	106.24	138.61	51.89	36.34	109.72
GREN11	132	42.49	16.15	12.24	35.08	49.11	19.44	13.62	41.11
GREN12	132	44.38	16.43	12.96	36.19	51.17	19.97	14.1	42.34
GREN40	400	86.04	32.4	14.31	60.12	56.2	22.75	9.35	41.52
GRIW40	400	80.64	29.14	21.26	62.46	67.86	26.13	13.7	50.65
GRST21	275	93	32.34	28.28	74.02	101.38	37.16	29.9	82.46
GRST22	275	93.31	32.44	28.45	74.33	101.94	37.34	30.18	82.99
GRTO2A	275	57.66	20.87	12.33	41.84	56.61	22.71	8.12	40.23
GRTO2B	275	57.72	20.88	12.38	41.91	56.72	22.73	8.21	40.35
GWYN40	400	88.7	31.29	20.82	65.07	76.11	29.46	14.06	55.72
HACK2A	275	69	25.39	17.87	53.78	70.56	27.12	16.66	55
HACK2B	275	68.4	25.14	17.78	53.33	66.79	25.72	15.99	52.37
HACK40	400	132.54	46.62	29.67	95.6	124.09	49.23	21.13	90.75
HAKB4A	400	52.24	20.06	7.96	36.33	40.95	16.31	6.82	29.88
HAKB4B	400	52.94	20.32	8.07	36.81	42.48	16.89	7.25	31.13
HAMB4A	400	76.45	27.54	17.67	56.62	61.56	24.21	10	44.24
HAMB4B	400	76.45	27.54	17.68	56.62	61.42	24.16	9.96	44.13
HAMH11	132	28.29	9.75	10.6	24.39	35.04	12.68	12.44	30.37
HAMH12	132	28.36	9.75	10.42	24.21	29.55	10.72	10.23	25.4
HAMH20	275	80.9	28.61	17.61	58.07	75.84	29.2	14.29	55.6
HAMH2A	275	71.21	25.41	18.25	54.19	68.87	26.08	16.14	53.02
HAMH40	400	81.55	29.79	15.72	57.85	72.19	28.13	13.1	52.88
HAMH4A	400	80.03	29.21	15.73	57.04	70.99	27.61	13.12	52.16
HARK11	132	36.08	11.64	8.36	24.82	40.95	15.18	9.47	30.94
HARK12	132	33.21	11.31	8.25	24.25	37.26	14.08	9.23	29.14
HARK13	132	27.84	11.56	6.17	22.52	26.61	10.65	6.45	21.51
HARK21	275	46.66	17.3	10.83	35.29	50	19.11	12.1	39.12
HARK22	275	48.48	18.05	10.96	36.49	52.67	20.19	12.39	40.94
HARK40	400	61.65	23.42	9.44	42.55	52.53	20.57	10.57	39.65
HARM20	275	66.38	24.08	12.73	46.78	57.83	22.69	9.09	41.18
HATL20	275	91.8	31.72	23.63	68.49	91.94	34.34	23.97	72.54
HAWP20	275	82.49	29.27	18.77	60.16	74.73	28.8	14.35	55.08
HAWP4A	400	55.02	20.04	12.61	40.95	44.69	17.19	9.42	33.73
HEDO20	275	100.22	35.34	29.57	79.54	105.49	39.12	29.85	85.18
HEDO4A	400	58.4	21.83	13.26	44.13	56.42	21.72	15.85	46.57
HEDO4B	400	58.39	21.83	13.25	44.12	56.42	21.72	15.84	46.56

HEYS40	400	103.89	36.13	27.46	78.55	107.18	39.64	30.35	86.41
HIGM20	275	70.9	25.89	19.8	56.4	66.11	25.44	15.75	51.72
HIGM2A	275	45.98	16.7	15.14	38.75	46.09	17.28	13.12	37.55
HIGM40	400	85.85	31.92	19.22	64.36	69.43	27.32	12.19	50.83
HIGM4A	400	66.94	24.86	17.02	52.17	55.56	21.58	11.7	42.22
HINP21	275	23.96	8.55	8.19	20.27	26.35	9.65	8.91	22.56
HINP22	275	24	8.57	8.12	20.24	26.78	9.82	8.95	22.85
HINP40	400	71.82	25.22	17.38	53.05	71.23	26.66	19.22	56.92
HIRN40	400	69.21	25.06	16.31	51.76	51.87	20.38	8.38	37.2
HUMR40	400	128.3	44.84	38.86	102.27	129.86	47.88	39	106.72
HURS20	275	72.98	26.1	18.37	55.29	73.95	30.2	15.14	57.84
HUTT40	400	71	26.35	12.6	49.86	50.12	20.25	7.09	35.73
IMPP40	400	60.03	22.09	13.3	44.54	49.98	19.29	10.39	37.67
INDQ40	400	35.25	12.44	6.74	24.33	36.27	13.78	7.39	26.88
IROA11	132	61.11	21.69	16.95	47.62	73.1	27.32	19.03	57.66
IROA12	132	61.28	21.71	16.78	47.48	72.06	26.89	18.85	56.88
IROA20	275	66.18	24.19	13.76	47.97	61.33	23.83	12.29	45.98
IROA2A	275	65.49	23.93	13.75	47.59	60.74	23.57	12.28	45.62
IROA2B	275	65.49	23.93	13.75	47.59	60.74	23.57	12.28	45.62
IRON11	132	27.11	7.6	7	17.75	32.71	10.72	9.17	24.33
IRON12	132	14.68	5.33	5.44	12.98	19.48	7.09	7.28	17.31
IRON40	400	90.83	32.36	20.15	65.9	86.04	32.71	20.03	66.29
IVER21	275	67.3	24.42	16.53	51.06	70.46	26.82	16.83	54.76
IVER22	275	67.38	24.45	15.4	49.98	64.66	25.05	13.6	49.03
IVER2A	275	46.81	17.26	11.6	36.01	45.91	17.75	10.59	35.69
IVER4A	400	49.24	18.34	11.24	37.18	45.15	17.38	10.62	35.2
IVER4B	400	44.16	16.71	9.54	33.18	38.73	15.09	8.72	30.07
JORD20	275	52	19.35	9.5	36.86	52.39	21.57	8.11	38.62
KEAD41	400	121.57	43.72	32.8	94.63	104.82	39.91	24.36	80.8
KEAD42	400	125.76	45.07	33.12	96.86	107.92	41.14	24.96	83.14
KEAD43	400	99.18	36.47	23.53	75.1	79.9	31.16	15.02	59.08
KEAD4A	400	120.7	43.46	31.98	93.44	96.13	37.23	17.91	70.57
KEAD4B	400	126.6	45.45	33.12	97.39	99.75	38.69	18.41	73.12
KEAD4C	400	89	32.23	26	71.57	77.06	29.16	20.79	62.03
KEAD4D	400	89	32.23	26	71.57	77.06	29.16	20.79	62.03
KEAP41	400	116.49	42.05	30.76	90.23	100.1	38.36	22.1	76.34
KEAP42	400	122.71	44.1	31.68	94.06	104.96	40.09	23.98	80.68
KEAR20	275	76.06	26.6	20.8	58.42	83.03	30.86	21.94	65.58
KEAR40	400	94.5	34.37	18.19	66.79	82.2	31.75	17.16	62.07
KEAR4A	400	88.25	32.56	15.76	61.81	68.13	26.95	12.11	50.21
KEMS40	400	163.01	56.96	44.1	124.65	138.13	53.33	26	101.41
KEMS4A	400	93.43	33.16	29.74	76.64	83.47	31.49	21.71	66.24
KEMS4B	400	94.97	33.74	29.98	77.7	84.36	31.85	21.78	66.83
KIBY21	275	87.29	29.54	23.56	65.33	87.86	33.19	18.91	65.85
KIBY22	275	76.83	26.57	19.95	57.52	71.21	26.91	15.77	53.83
KILL40	400	138.07	47.9	42.64	110.39	144.51	52.91	43.87	118.71
KINO10	132	37.49	12.51	12.24	29.93	47.52	16.77	16	39.71
KINO41	400	139.2	48.51	42.14	110.74	136.1	50.41	39.81	111.11
KINO42	400	140.16	48.53	41.91	110.55	140.84	51.88	42.05	115.42
KIRK20	275	60.54	21.89	13.88	44.84	57.45	22.49	11.03	42.83
KIRK2A	275	61.92	22.25	14.47	45.93	57.75	23.02	10.99	43.55
KITW20	275	69.26	24.8	12.95	48.03	68.56	26.71	11.58	49.35
KNAR20	275	30.77	12.52	2.59	20.3	25.12	10.48	2.89	17.7
LACK20	275	61.44	21.66	16.63	47.26	63.84	23.88	17.32	51.09
LACK2A	275	89.11	31.21	26.15	70.28	97.49	35.9	27.41	78.19

LACK2B	275	94.25	32.73	28.98	75.27	104.3	38.08	31.39	85.24
LACK2C	275	90.43	31.61	26.83	71.53	98.94	36.4	28.03	79.51
LACK40	400	96.36	34.36	23.08	71.67	89.57	33.74	22.72	70.44
LALE20	275	63.18	22.61	17.43	49.41	68.74	26.76	16.25	54.09
LAND41	400	34.15	12.16	6.57	23.77	33.78	12.98	6.1	24.46
LAND42	400	34.24	12.19	6.6	23.84	33.74	12.97	6.08	24.42
LAND4A	400	33.97	12.09	6.6	23.7	33.48	12.86	6.08	24.27
LANG40	400	43.05	14.89	9.65	30.71	46.54	17.25	12.04	36.44
LEGA40	400	100.87	35.54	23.32	73.59	76.38	30.03	13.3	55.77
LEGA4A	400	67.67	24.19	19.04	53.26	54.85	21.12	12.38	42.24
LEGA4B	400	67.72	24.2	19.05	53.27	54.93	21.14	12.38	42.28
LEIB4A	400	78.61	29.16	16.71	57.95	58.06	22.87	9.61	41.95
LEIB4B	400	108.62	39.86	22.41	78.78	77.6	30.83	11.66	55.25
LISD20	275	80.02	27.38	20.43	59.15	80.91	31.11	17.05	61.05
LISD2A	275	50.97	17.73	16.05	41.12	52.97	19.96	13.69	41.92
LITB40	400	82.65	30.04	19.25	61.74	64.74	25.05	15.65	51.07
LITT11	132	21.02	7.37	8.4	18.82	27.73	10.05	10.41	24.62
LITT13	132	33.59	11.95	12.61	29.52	42.96	15.55	16.44	38.43
LITT2A	275	61.5	22.4	15.17	46.84	60.06	24.08	14.04	48.09
LITT2B	275	61.37	22.36	15	46.62	60.91	24.3	14.53	48.89
LITT41	400	96.44	35.32	19.86	69.8	91.16	35.38	19.85	69.88
LITT42	400	96.12	35.26	20.09	69.95	94.47	36.2	22.49	73.68
LITT4A	400	88.65	32.78	17.52	63.88	75.1	29.76	11.98	54.07
LITT4B	400	91.61	33.79	18.7	66.49	78.93	31.12	12.98	56.99
LODR6M	66	20.56	7.55	6.91	17.58	2.26	1.57	0	2.22
LOVE40	400	103.48	35.31	25.58	75.51	93.42	35.55	18.61	68.88
MACC20	275	54.62	20.24	13.66	42.29	52.45	20.23	11.82	40.43
MACC40	400	87.05	32.25	16.36	61.97	65.35	26.14	9.81	46.78
MAGA20	275	56.56	21.1	11.03	40.88	52.41	20.52	10.05	39.07
MANN40	400	59.72	21.01	13.49	43.2	55.4	21.07	11.98	41.77
MAWO40	400	71.62	24.78	18.99	54.04	74.45	27.46	21.14	59.98
MEDW40	400	119.28	42.84	27.99	88.58	113.5	43.23	25.89	87.02
MELK10	132	43.58	15.29	16.23	37.85	57.26	20.7	19.77	49.05
MELK2A	275	47.49	17.52	13.82	38.59	46.62	17.7	12.6	37.63
MELK2B	275	46.15	17.06	13.19	37.32	46.66	17.73	12.46	37.54
MELK40	400	115.47	41.48	23.59	82.26	92.23	36.14	16.56	67.67
MILH11	132	24.23	8.56	8.33	20.43	30.49	11.17	10.04	25.84
MILH12	132	24.56	8.8	7.5	19.95	30.93	11.47	9.11	25.34
MILH2A	275	44.02	16.56	6.99	30.41	44.12	18.09	6.69	32.28
MILH2B	275	43.98	16.55	6.98	30.38	44.07	18.08	6.68	32.24
MITY40	400	88.02	32.66	15.74	61.93	63.31	25.46	9.19	45.2
MOEL4A	400	88.75	31.31	20.83	65.11	75.94	29.41	13.89	55.48
MOEL4B	400	88.69	31.29	20.81	65.06	75.88	29.39	13.88	55.43
MONF21	275	87.56	30.69	27.4	70.8	93.24	34.59	25.94	74.87
MONF22	275	79.27	28.1	24.75	64.49	81.64	30.43	22.84	65.87
MONF40	400	103.17	36.53	26.8	78.46	91.82	34.7	21.28	70.35
MONF4A	400	89.77	32.04	23.11	68.42	79	29.91	18.19	60.49
NECH20	275	88.41	30.95	21.22	65	81.49	31.35	16	60.33
NEEP20	275	61.52	22.36	13.85	45.47	67.32	26.52	12.65	50.16
NEEP4A	400	49.84	18.65	10.23	36.6	44.59	17.59	8.25	33.13
NEWX20	275	80.03	28.42	19.33	59.53	85.06	34.28	15.8	64.27
NFLE11	132	39.26	12.72	13.11	31.09	48.07	17.24	15.08	39.46
NFLE12	132	32.73	12.03	11.59	28.61	35.85	13.33	12.15	31
NFLE40	400	138.04	48.67	33.47	102.3	103.64	40.8	17.93	75.62
NHYD2A	275	46.46	17.76	7.42	32.53	39.35	18.6	3.03	29.34

NHYD2B	275	46.55	17.8	7.05	32.22	39.56	18	5.36	30.82
NHYD60	66	40.25	13.54	12.41	31.56	54.38	19.84	15.51	43.56
NINF40	400	66.43	23.71	15.86	49.39	58.53	22.49	13.09	44.9
NORL2A	275	53.78	19.9	10.43	38.57	54.56	22.54	7.4	39.28
NORL2B	275	52.72	19.59	9.64	37.35	53.09	22.24	6.63	38.07
NORT20	275	90.77	31.5	24.44	68.99	92.49	34.59	22.43	71.34
NORT40	400	103.62	36.67	23.04	74.91	90.62	34.69	18.19	67.25
NORW40	400	61.21	22.64	11.03	43.05	49.32	19.37	8.96	36.36
NURS40	400	67.97	23.72	17.34	50.89	67.75	25.3	16.52	52.3
NURS4A	400	56.33	20.12	12.9	41.35	51.27	19.46	11.35	38.87
OCKH10	132	27.35	9.59	9.15	22.72	33.09	12.04	10.68	27.71
OCKH20	275	67.37	24.23	13.01	47.28	68.36	26.48	12.28	49.73
OCKH2A	275	58	20.93	12.67	42.28	57.18	22.05	12	43.18
OFFE20	275	72.9	26.4	13.34	50.68	63.58	24.96	10.46	45.76
OLDB20	275	57.59	21.04	10.81	40.57	58.76	22.87	10.51	42.84
OLDB2A	275	57.06	20.84	10.81	40.29	58.21	22.63	10.51	42.52
OLDB4A	400	37.81	14.27	7.13	27.3	34.17	13.37	6.56	25.47
OLDS11	132	46.18	16.35	10.47	33.59	47.08	17.82	10.74	35.95
OLDS12	132	45.16	16.24	10.47	33.44	48.82	18.56	11.19	37.43
OSBA41	400	78.96	29.1	17.7	58.86	56.25	22.16	9.23	40.57
OSBA42	400	78.39	28.92	17.63	58.53	54.34	21.44	8.86	39.18
PADI10	132	29.13	9.94	10.19	24.25	35.7	12.83	11.57	29.72
PADI40	400	86.46	31.53	17.76	62.35	62.56	24.87	9.43	44.6
PAFB4A	400	57.31	21.94	9.46	40.48	37.13	15.3	3.65	25.28
PAFB4B	400	57.42	21.98	9.49	40.56	37.2	15.33	3.66	25.33
PELH40	400	146.83	52.06	36.72	110.35	114.35	44.38	22.25	85.02
PEMB10	132	29.23	10.37	10.01	24.67	36.77	13.5	11.98	31.08
PEMB40	400	60.83	21.51	16.65	47.06	67.52	25	18.25	53.6
PENN20	275	75.02	26.83	16.96	54.9	77.27	29.49	16.53	58.24
PENN2A	275	74.12	26.5	16.92	54.41	76.32	29.1	16.5	57.66
PENN4A	400	47.93	17.9	9.47	34.78	41.71	16.28	8.58	31.6
PENN4B	400	50.11	18.71	9.69	36.16	45.56	17.76	9.09	34.21
PENT40	400	78.38	26.68	21.35	59.09	81.67	30.26	20.84	63.62
PEWO21	275	71.54	25.45	21.17	57.16	70.96	26.7	18.36	56.11
PEWO22	275	72.27	25.68	21.73	58.04	67.93	25.48	18.4	54.43
PEWO2A	275	72.61	25.79	21.88	58.35	68.23	25.56	18.69	54.84
PEWO2B	275	73.31	26.01	22.07	58.85	73.89	27.67	19.93	59.06
PEWO40	400	112.39	39.42	26.31	82.06	99.6	38.37	19.59	73.85
PITS20	275	62.95	22.83	13.79	46.08	69.55	27.37	12.65	51.36
POPP20	275	30.11	12.42	1.98	19.54	23.89	10.07	2.68	16.91
PYLE20	275	60.8	22.65	11.23	43.26	54.56	21.54	9.42	39.89
PYLE2A	275	60.21	22.42	11.23	42.94	54.08	21.33	9.43	39.6
PYLE2B	275	60.21	22.42	11.23	42.94	54.08	21.33	9.43	39.6
QUER4A	400	89.87	31.95	21.83	67.02	77.68	30.03	14.24	56.72
QUER4B	400	89.63	31.9	21.7	66.81	78.2	30.22	14.49	57.22
RAIN20	275	102.43	33.88	30.39	78.3	98.77	36.63	23.83	75.63
RASS40	400	56.62	20.84	12.32	41.8	44.49	17.47	7.27	31.98
RATS2A	275	44.06	16.06	13.74	36.45	45.33	16.86	14.39	38.24
RATS41	400	101.93	36.64	23.11	74.93	101.06	38.17	24.28	78.26
RATS42	400	113.45	40.53	25.94	83.26	112.74	42.51	27.29	87.41
RAYL41	400	90.09	32.89	20.92	67.43	69.86	27.27	13.49	52.06
RAYL42	400	94.14	34.44	21.07	69.78	69.14	27.21	12.58	51.05
REBR21	275	72.3	26.32	19.05	56.28	69.05	27.01	13.61	51.81
REBR22	275	73.36	26.73	19.45	57.26	70.26	27.63	12.94	52.01
ROCH20	275	64.36	23.32	14.62	47.6	62.99	24.25	12.71	47.02

ROCH4A	400	32.96	12.34	7.78	25.24	29.28	11.28	6.77	22.72
ROCK40	400	101.65	34.79	28.75	77.95	88.21	32.95	23.37	69.97
RUGE10	132	27.79	9.53	10.03	23.5	31.02	11.05	11.78	27.41
RUGE40	400	70.59	25.6	14.71	50.91	69.31	26.42	16.1	53.46
RYEH40	400	86.02	30.76	23.03	66.53	83.59	31.38	22.51	66.89
RYEH4A	400	78.11	28.48	19.82	60.11	69.2	26.37	17.05	54.34
SAEN20	275	97.22	34.38	28.21	76.83	101.82	37.79	28.59	82.04
SAES20	275	99.54	35.09	29.31	78.94	104.11	38.59	30.05	84.62
SALH20	275	80.38	28.25	18.83	58.78	77.92	29.64	15.93	57.84
SBAR40	400	63.8	24.08	12.05	46.11	53.04	20.92	9.45	39.04
SEAB40	400	72.67	25.64	18.18	54.45	70.45	26.23	19.73	56.82
SELL40	400	78.89	28.29	18.15	58.16	74.21	28.44	16.74	56.95
SHBA40	400	97.78	34.71	28.16	77.25	94.15	35.17	26.58	76.31
SHEC20	275	56	20.6	11.37	40.51	58.72	24.02	8.32	42.29
SHRE4A	400	66.73	24.41	13.63	48.15	53.42	21.12	8.28	38.15
SING40	400	122.22	43.59	29.61	91.25	92.57	36.37	15.45	66.89
SIZE11	132	44.97	16.21	14.58	37.5	55.31	20.35	17.34	46.13
SIZE12	132	44.97	16.21	14.59	37.51	55.33	20.38	17.25	46.06
SIZE40	400	73.88	26.32	19.04	56.26	74.6	27.77	20.84	60.12
SJOW20	275	95.2	34.22	24.92	73.32	105.17	40.51	28.28	85.57
SJOW2A	275	74.2	26.45	21.6	59.01	75.67	30.91	19.87	63.58
SJOW2B	275	74.2	26.45	21.6	59.01	75.67	30.91	19.87	63.58
SJOW40	400	123.51	43.69	28.39	90.18	128.29	49.54	28.22	98.28
SKLG20	275	69.13	24.72	15.6	50.56	64.8	25.18	12.36	47.97
SMAN20	275	73.56	26.86	17.39	55.37	76.09	29.42	14.83	56.43
SPEN40	400	86.79	31	18.67	62.52	75.15	28.96	14.06	55.01
SPLN40	400	71.14	26	19.26	56.03	61.96	23.59	16.53	49.9
SSHI20	275	68.75	25.14	11.45	47.01	60.34	23.75	10.05	43.64
STAH4A	400	66.19	24.2	14.07	48.3	51.73	20.56	7.78	36.86
STAH4B	400	66.19	24.21	14.07	48.3	51.64	20.53	7.76	36.79
STAL21	275	46.69	17.22	11.24	35.6	46.08	17.64	10.32	35.27
STAL22	275	57.24	21.46	10.35	40.69	50.78	20.05	8.79	37.14
STAL4A	400	34.96	13.06	7.97	26.43	29.45	11.37	6.56	22.64
STAY41	400	76.63	28.3	15.67	55.69	68.37	26.39	15.23	52.54
STAY42	400	68.59	25.51	14.11	50.18	62.26	23.96	14.63	48.51
STAY4A	400	67.93	25.22	14.89	50.56	58.97	22.73	14.12	46.27
STEN10	132	40.46	12.7	10.7	28.66	50.22	17.94	12.84	38.21
STES10	132	35.57	12.03	10.99	28	44.27	15.94	13.09	35.64
STEW20	275	97.43	34.79	21.65	70.85	99.17	37.82	21.01	74.49
STEW2A	275	97.22	34.73	21.55	70.66	98.83	37.75	20.59	73.98
STEW40	400	82.64	29.67	17.5	59.46	75.27	28.91	15.3	56.18
STEW4C	400	72.69	26.32	15.74	52.96	61.87	24.05	11.03	45.04
STEW4D	400	72.35	26.22	15.62	52.7	61.48	23.91	10.93	44.75
STSB40	400	62.19	22.95	13.85	46.31	53.94	21.03	10.76	40.5
STSB4A	400	53.66	19.93	12.71	40.89	45.96	17.83	10.03	35.25
STYC10	132	31.2	10.57	11.72	26.68	28.96	10.47	10.88	25.69
SUND41	400	129.82	47.2	26.52	93.27	99.39	39.23	16.61	72.1
SUND42	400	95.14	34.98	20.13	69.6	75.95	29.68	13.91	55.89
SUTB4A	400	93.27	33.85	22.79	70.65	82.48	31.47	20.76	65.28
SWAN2A	275	28.28	10.28	9.02	23.56	30.86	11.48	9.31	25.54
SWAN2B	275	46.94	17.33	13.1	37.61	47.22	17.96	12.46	37.86
SWAN40	400	65.13	23.46	15.93	49.11	60.47	23.01	13.77	46.31
SWAN4A	400	40.98	15.11	9.41	30.79	35.74	13.66	8.24	27.56
TAUN4A	400	51.69	18.54	10.57	36.8	44.36	17.37	6.95	31.52
TAUN4B	400	52.57	18.83	10.74	37.37	45.81	17.9	7.41	32.73

TEMP21	275	61.74	22.46	13.2	44.97	65.45	25.92	11.81	48.47
TEMP22	275	61.98	22.53	13.31	45.18	66.01	26.13	11.97	48.93
THOB40	400	106.06	38.27	26.83	80.96	101.8	38.2	27.87	81.89
THOM20	275	77.83	27.75	22.01	61.26	80.35	30.27	21.68	64.49
THOM40	400	115.56	40.96	28.42	86.35	101.75	38.63	23.2	77.84
THTO41	400	123.86	44.71	29.93	93.16	91.19	35.66	15.04	65.47
THTO42	400	123.06	44.32	29.82	92.5	89.91	35.16	14.84	64.56
THUR20	275	66.74	24.83	11.14	46.25	67.05	26.51	11.08	48.57
THUR2A	275	67.16	25.08	10.47	45.94	63.1	25.33	8.42	44.24
TILB21	275	78.56	27.89	22.68	62.13	82.86	30.75	23.47	66.96
TILB22	275	79.49	28.16	24.35	64.17	84.24	31.16	25.21	69.28
TILB40	400	181.12	62.47	48.88	137.23	155.94	59.58	33.88	118.13
TINP2A	275	60.97	22.39	14.17	45.84	59.64	23.22	12.54	45.38
TINP2B	275	60.97	22.39	14.17	45.84	59.65	23.22	12.54	45.38
TODP20	275	63.61	22.52	15.61	47.45	58.15	22.39	11.31	42.98
TOTE21	275	81.17	29.47	21.72	63.39	81.02	31.19	18.22	62.32
TOTE22	275	82.25	29.89	22.05	64.32	83.73	32.24	18.42	64.02
TOTW21	275	82.55	30.29	18.78	61.61	81.06	33.51	14.5	61.89
TOTW22	275	83.36	30.53	19.16	62.34	81.77	33.75	14.93	62.66
TRAW20	275	44.96	15.91	13.46	35.96	47.77	17.95	11.68	37.06
TRAW40	400	60.23	21.96	12.07	43.13	47.74	18.89	8.31	35.03
TREM20	275	47.15	18.33	6.24	32.16	38.66	15.84	4.54	26.95
TREU4A	400	96.77	34.25	22.29	70.73	77.41	30.3	12.48	55.34
TREU4B	400	98.49	34.82	22.64	71.89	79.01	30.94	12.63	56.39
TYNE20	275	63.48	23.3	10.36	43.32	56.61	22.29	9.25	40.78
TYNE2A	275	60.84	22.6	9.92	41.87	52.81	20.93	8.26	37.86
TYNE50	11	54.67	19.54	19.19	46.83	59.63	21.67	21.95	52.59
UPPB21	275	50.89	18.84	12.24	38.88	48.76	18.88	10.19	36.89
UPPB22	275	50.86	18.85	12.23	38.89	46.04	17.76	10.36	35.48
USKM20	275	83.4	29.79	22.08	64.21	94.19	35.24	25.25	75.09
USKM2A	275	66.89	24.67	14.28	49.17	67.5	26.06	13.68	50.53
USKM2B	275	82.72	29.58	21.68	63.52	92.19	34.6	23.82	72.75
WALH40	400	68.61	25.28	13.31	49.06	50.6	20.06	8.47	36.85
WALP11	132	49.19	17.51	13.05	37.81	53.85	20.7	13.8	43.08
WALP12	132	37.57	13.93	10.59	30.29	41.13	15.96	11.41	33.98
WALP13	132	31.28	11.97	8.17	25.1	33.59	13.32	8.69	27.53
WALP40	400	110.5	39.57	29.69	85.65	98.29	37.19	26.06	78.66
WALX21	275	99.09	35.64	27.76	78.15	95.94	36.52	25.23	76.89
WALX22	275	98.66	35.55	27.62	77.89	95.11	36.27	24.98	76.27
WALX4A	400	79.77	28.62	21.71	62.18	75.88	28.63	19.52	60.01
WALX4B	400	73.54	26.79	19.34	57.22	66.42	25.26	16.63	52.35
WARL20	275	85.17	30.51	20.2	63.35	71.89	28.07	13.16	52.86
WASF2A	275	64.5	23.03	14.68	47.26	53.24	20.89	8.47	38.01
WASF2B	275	69.03	24.44	15.78	50.34	58.4	23.01	8.76	41.31
WATS21	275	65.69	23.9	15.29	49.09	66.33	25.62	13.43	49.66
WATS22	275	62.54	22.63	12.81	44.82	64.43	25	11.56	46.92
WBOL20	275	77.9	28.03	13.74	53.39	67.67	26.52	11.59	49.1
WBUR10	132	32.77	10.78	10.88	26.12	43.52	15.26	14.28	35.85
WBUR41	400	116.29	41.99	32.9	92.28	110.69	41.43	32.23	90.83
WBUR42	400	102.1	37.06	29.82	82.23	102.79	38.27	31.57	85.68
WEAV4A	400	77.51	28.69	14.27	54.85	54.26	22	6.01	37.12
WEAV4B	400	78.67	29.08	14.64	55.76	55.06	22.32	6.11	37.68
WHAM40	400	146.27	51.12	33.39	105.69	137.99	53.91	24.51	100.75
WHAM4A	400	112.34	40.19	24.7	81.54	107.44	43.79	19.17	81.1
WHAM4B	400	112.36	40.21	24.56	81.43	107.51	43.83	18.95	80.94

WHGA20	275	67.39	24.11	15.74	49.84	64.97	25.05	12.38	47.81
WHSO20	275	86.79	30.88	23.37	67.04	95.51	35.86	24.26	74.97
WHSO2A	275	61.77	22.32	17.84	49.41	64.09	24.03	18.3	52.28
WHSO2B	275	61.77	22.32	17.84	49.41	64.09	24.03	18.3	52.28
WHSO4A	400	70.53	25.29	17.91	53.67	61.94	23.52	14.72	47.99
WIBA20	275	61.59	22.42	13.09	44.8	66.3	26.6	10.24	47.86
WIEN2A	275	54.96	20.19	9.67	38.23	53.54	21.01	8.77	38.48
WIEN2B	275	59.09	21.36	12.4	42.61	57.77	22.47	11	42.78
WILE40	400	113.63	40.75	24.16	81.79	99.93	38.76	18.7	73.52
WILL10	132	54.97	18.63	19.78	46.12	67.72	24.49	23.13	57.77
WILL20	275	41.81	14.95	14.84	35.99	45.15	16.56	14.95	38.36
WIMB11	132	34.1	11.25	11.25	27.15	44.64	16.13	13.96	36.77
WIMB12	132	28.31	10.3	9.7	24.26	34.45	12.69	11.35	29.3
WIMB13	132	22.54	7.88	8.09	19.23	28.39	10.37	9.61	24.28
WIMB14	132	22.15	7.81	7.98	19.02	27.86	10.18	9.61	24
WIMB20	275	87.23	30.81	21.29	64.87	94.86	37.32	19.85	72.62
WIMB2M	275	46.09	17.52	8.76	33.55	42.33	16.8	7.11	30.86
WISD20	275	84.34	29.67	25.5	67.46	92.25	35.64	22.2	72.6
WISD2A	275	64.63	22.97	19.44	51.93	69.06	27.04	17.96	56.2
WISD2B	275	73.82	26.41	20.31	57.66	74.54	30.12	18.92	61.52
WISD60	66	50.38	17.27	17.6	42.01	6.54	4.53	0	6.4
WMEL20	275	75.62	27.09	14.54	52.85	72.51	28.19	14.03	53.9
WTHU41	400	136.02	48.72	28.94	97.84	114.52	45.08	17.48	81.23
WTHU42	400	136.36	48.86	29.22	98.32	114.98	45.23	17.6	81.57
WTHU4A	400	117.75	42.4	25.34	85.31	89.97	35.73	14.21	64.75
WTHU4B	400	117.75	42.4	25.34	85.31	89.97	35.73	14.21	64.75
WWEY21	275	80.29	29.32	17.75	59.21	80.64	31.08	17	60.95
WWEY22	275	67.37	25.07	13.2	48.66	65.26	25.35	12.55	48.4
WWEY2A	275	56.55	20.52	15.03	44.06	57.41	22.15	13.69	45.02
WWEY4A	400	45.45	17.24	8.37	32.75	39.85	15.62	7.83	29.93
WWEY4B	400	52.59	19.59	11.85	39.56	46.61	18.13	10.52	36.17
WYLF10	132	46.31	14.31	13.71	33.94	57.78	20.09	15.97	44.37
WYLF40	400	50.89	17.74	12.23	37.32	42.37	16.18	8.93	31.81
WYMO40	400	119.6	43.21	27.02	88.13	88.64	34.73	15.56	64.67
YGAR4A	400	56.79	20.62	11.97	41.14	44.38	17.65	6.75	31.71
YWER4A	400	56.31	20.39	12.1	40.94	44.14	17.54	6.47	31.27

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Table D.3.4 - NGET Fault Levels (kA), Winter 2012/13

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	37.38	13.37	7.14	26.04	34.9	13.47	6.12	25.17
ABHA4B	400	37.36	13.36	7.13	26.02	34.88	13.46	6.12	25.16
ABTH11	132	31.39	12.21	6.93	24.19	37.31	14.5	9.41	29.93
ABTH12	132	52.5	19.3	14.21	41.51	62.29	23.4	18.31	51.4
ABTH13	132	11.79	4.66	1.59	8.18	10.38	3.97	2.35	7.96
ABTH20	275	90.09	31.83	23.16	68.18	96.7	36.07	26.46	77.46
ALDW20	275	63.1	23.13	10.3	43.01	60.92	24.02	10.24	44.2
ALVE4A	400	25.89	9.68	4.26	17.95	21.55	8.57	3.14	15.25
ALVE4B	400	26	9.72	4.26	18.01	21.78	8.66	3.15	15.4
AMEM10	132	27.69	9.97	9.88	23.99	33.98	12.53	11.12	28.83
AMEM4A	400	54.62	20.58	10.78	39.88	44.17	17.54	7.17	31.98
AMEM4B	400	52.28	19.92	9.53	37.71	42.43	16.94	6.71	30.66
AMLW40	400	53.46	18.72	13.85	40.33	44.18	16.81	10.78	34.55
AMLW4A	400	60.13	20.87	15.65	45.16	54.4	20.54	12.37	41.42
AMLW4B	400	60.13	20.87	15.65	45.16	54.4	20.54	12.37	41.42
AXMI10	132	28.14	9.76	9.4	23.2	34.03	12.41	10.57	28.13
AXMI40	400	41.33	14.8	8.93	29.87	34.29	13.28	6.44	25.23
BAGB20	275	52.72	19.5	12.62	40.2	51.15	19.64	12.73	40.51
BARK10	132	25.73	9.06	9.71	22.52	27.9	10.15	10.17	24.53
BARK21	275	63.6	23.01	18.29	50.82	65.09	24.64	17.55	52.39
BARK22	275	66.24	23.91	19.7	53.51	69.32	26.17	18.96	55.97
BARK40	400	167.5	58.11	40.72	122.9	144.56	56.33	26.36	106.02
BARP21	275	57.86	21.06	15.84	45.62	57.23	21.89	13.65	44.6
BARP22	275	60.87	22.05	17.45	48.64	62.1	23.62	15.36	48.76
BEDD21	275	67.39	24.84	16.05	51.18	68.82	26.53	15.57	53.08
BEDD22	275	85.17	30.74	18.77	62.24	85.84	33.43	17.41	64.68
BEDD2M	275	17.04	6.21	6.01	14.79	18.04	6.7	5.92	15.38
BEDD4A	400	51.92	19.53	11.51	39.12	44.74	17.71	10.41	35.45
BEDD4B	400	43.44	16.65	8.24	31.79	36.67	14.77	7.44	28.33
BESW20	275	65.1	23.42	12.41	45.54	57.89	22.7	9.95	42.05
BICF10	132	28.08	10.19	10.52	24.94	30.91	11.34	10.72	26.76
BICF4A	400	63.55	23.54	16.07	49.37	45.71	17.99	8.41	33.85
BICF4B	400	61.43	22.68	16.17	48.25	47.68	18.62	9.16	35.49
BIRK20	275	51.96	18.04	16.07	41.58	54.4	20.35	13.93	42.71
BISW20	275	70.36	25.32	13	48.81	65.7	25.92	10.56	47.21
BLYT21	275	67.26	24.69	12.52	47.44	64.92	25.23	12.1	47.78
BLYT22	275	60.73	22.72	11.08	43.22	55.98	21.98	9.77	40.86
BLYT4A	400	43.81	16.47	8.2	31.49	38.08	14.9	7.43	28.5
BLYT4B	400	42.94	16.22	7.78	30.72	36.76	14.46	6.69	27.14
BLYT60	66	52.26	17.37	15.82	40.39	29.92	10.86	12.26	27.61
BOLN40	400	69.04	24.5	16.01	50.65	55.16	21.3	11.45	41.58
BOTW40	400	82.8	28.63	20.28	60.77	75.05	28.68	14.85	55.41
BRAI4A	400	63.02	23.37	14.09	47.13	47.49	18.61	8.54	34.86

BRAI4B	400	63.57	23.68	13.87	47.36	45.03	17.76	7.78	32.89
BRAW20	275	72.85	26.23	16.89	53.98	71.29	27.47	14.64	53.48
BRAW4A	400	39.07	14.45	9.52	29.95	34.24	13.11	8.05	26.59
BRED20	275	70.59	25.96	14.79	51.49	69.97	27.27	12.81	51.37
BRFO40	400	83.26	29.98	19.85	62.26	71.11	27.46	13.89	52.73
BRIM10	132	52.99	18.22	20.61	46.37	64.61	23.16	24.5	57.25
BRIM2A	275	86.97	31.67	22.08	66.87	81.72	31.67	17.15	61.94
BRIM2B	275	87.14	31.88	20.7	65.79	82	32.37	16.72	62.5
BRIM2C	275	87.37	31.86	22.2	67.26	81.75	31.78	16.65	61.59
BRIM2D	275	85.28	31.33	19.65	63.96	79.06	31.41	14.92	59.34
BRIN21	275	67.06	24.18	15.14	49.33	72.04	28.06	14.15	53.83
BRIN22	275	71.84	25.98	18.72	55.46	75.07	28.77	18.17	58.85
BRIN2M	275	27.93	10.06	10.59	24.82	28.84	10.59	9.99	24.97
BRIN40	400	78.94	28.85	18.77	59.57	58.89	22.8	13.23	45.48
BRLE40	400	124.8	43.67	28.83	90.6	107.94	41.48	22.17	80.83
BRWA2A	275	19.76	7.24	5.4	15.64	19.86	7.56	4.79	15.49
BRWA2B	275	19.72	7.22	5.44	15.65	19.7	7.49	4.83	15.42
BRWA2C	275	19.7	7.21	5.4	15.6	19.8	7.54	4.79	15.45
BRWE10	132	20.88	7.3	8.74	19.06	6.13	2.24	2.15	5.32
BURW40	400	97.46	35.29	24.6	74.51	63.15	25.24	10.86	46.56
BUSH20	275	62.96	22.79	13.41	45.63	61.08	23.81	10.86	44.53
BUST21	275	72.74	25.85	18.57	55.13	71.58	28.17	15.87	55.71
BUST22	275	71.25	25.41	17.94	53.88	68.6	27.42	14.27	53.04
BUST4A	400	52.9	19.43	12.69	40.17	44.19	17.1	9.77	33.95
BUST4B	400	49.01	17.93	11.56	36.92	41.44	16.09	8.76	31.51
CANT40	400	90.45	32.33	21.41	67.13	69	27.22	11.59	50.09
CAPE21	275	54.63	18.94	18.42	45.21	60.09	22.09	18.34	49.58
CAPE22	275	35.17	12.53	12.94	30.66	38.78	14.19	13.13	33.2
CAPE4A	400	97.88	34.23	25.51	73.92	84.64	32.16	18.57	64.05
CAPE4B	400	104	36.01	28.26	79.18	90.97	34.4	20.62	69.28
CARE20	275	53.51	20.03	9.73	38.06	46.44	18.39	8.38	34.38
CARR11	132	28.48	10.44	8.47	23.25	33.42	12.66	9.63	27.53
CARR12	132	51.66	17.77	16.88	42.01	63.77	23.33	20.19	53.18
CARR20	275	82	29.43	23.4	65.01	90.94	34.13	24.39	72.66
CARR40	400	129.11	45.94	27.58	92.55	117.32	44.8	26.48	89.84
CARR4A	400	124.38	44.62	25.21	88.32	108.92	42.09	21.73	81.26
CARR4B	400	123.46	44.43	24.36	87.19	106.11	41.22	20.17	78.47
CARR4H	400	129.55	46.3	26.5	91.97	112.66	43.51	22.54	84.06
CELL11	132	44.08	14.85	14.54	35.54	54.76	19.72	16.71	44.6
CELL12	132	30.1	10.47	10.37	25.19	35.83	13.05	11.52	29.97
CELL40	400	100.53	36.74	18.54	70.49	78.43	30.98	14.08	57.89
CHIC41	400	39.27	14.21	8.63	28.72	31.39	12.23	5.83	23.12
CHIC42	400	38.8	14.02	8.57	28.39	29.66	11.6	5.3	21.71
CHSI20	275	93.38	33.98	18.77	66.83	80.8	32.02	13.22	58.51
CHTE20	275	72.59	25.73	18.57	54.95	63.41	24.44	13.59	48.15
CILF2A	275	50.47	18.56	14.18	40.43	45.41	17.27	12.38	36.8
CILF2B	275	50.41	18.52	14.17	40.36	50.5	19.18	13.47	40.6
CILF40	400	89.58	31.93	21.85	67.01	78.97	30.14	17.36	59.98
CITR41	400	123.48	43.71	28.22	90.03	126.7	49.42	22.58	92.47
CITR42	400	123.37	43.67	28.18	89.94	126.46	49.37	22.35	92.17
CLEV40	400	84.82	30.74	20.64	64.12	64.53	25.48	10.23	46.26
COSO40	400	113.78	41.03	26.54	84.56	96.9	37.33	22.44	75.24
COTT40	400	132.09	46.72	35.11	101.18	127.62	47.55	35.75	102.99
COVE20	275	65.48	23.44	13.53	46.68	61.56	23.76	11.95	45.56
COVE2A	275	64.8	23.19	13.52	46.32	60.95	23.51	11.95	45.19

COWB2A	275	69.12	25.36	14.07	49.93	60.9	24.05	9.12	43.14
COWL40	400	134.93	47.6	34.96	102.28	115.14	43.94	24.95	87.09
CREB2A	275	81.79	29.47	25.78	67.45	80.57	30.07	22.97	65.49
CREB2B	275	81.25	29.27	25.7	67.09	80.28	29.95	22.95	65.31
CREB40	400	153.7	54.65	39.47	116.76	125.3	48.21	26.18	94.36
CREB4A	400	150.55	53.71	37.77	113.72	115.27	47.21	14.08	80.85
CREB4B	400	150.47	53.71	37.56	113.51	115.24	47.21	14.04	80.81
CULJ4A	400	120.74	42.68	32.13	92.48	113.75	42.65	29	89.31
DAIN40	400	141.04	49.95	29.94	100.57	126.1	48.32	26.93	95.26
DAMC40	400	135.89	47.25	40.04	106.86	137.06	50.71	39.62	111.34
DEES41	400	122.62	42.2	33	92.68	120.42	44.69	32.73	95.93
DEES42	400	114.79	39.95	29.06	85.57	108.74	40.79	27.1	84.79
DIDC41	400	128.44	44.84	36.52	99.92	130.17	47.82	39.69	107.32
DIDC42	400	112.2	38.75	34.27	89.07	113.33	41.31	36.81	95.24
DINO40	400	78.23	26.55	22.74	60.28	83.76	30.69	24.29	67.69
DRAK10	132	38.7	11.45	12.31	28.5	47.24	15.76	15.77	38.05
DRAK2A	275	48.88	17.87	14.51	39.77	51.58	19.32	15.56	42.88
DRAK41	400	112.79	40.34	26.07	83.12	107.74	40.9	26.71	84.55
DRAK42	400	93.99	33.55	20.48	67.93	90.52	34.55	19.84	68.71
DRAX11	132	15.69	5.39	5.63	13.26	19.63	6.99	7.16	17.04
DRAX12	132	15.14	5.2	5.46	12.82	18.99	6.76	6.96	16.52
DRAX41	400	153.42	53.62	44.3	120.14	153.21	56.43	45.58	125.38
DRAX42	400	149.98	51.88	43.37	116.75	149.8	55.03	44.34	122.17
DUBR4A	400	40.58	15.13	9.21	30.6	32	12.45	6.07	23.68
DUBR4B	400	51.98	19.51	11.33	38.91	41.58	16.41	7.55	30.75
DUNG20	275	45.75	16.23	15.66	38.61	49.92	18.33	15.96	41.88
DUNG40	400	77.36	27.4	19.52	58.27	75.87	28.9	17.36	58.23
EALI20	275	63.49	22.62	18.18	50.18	68.45	27.01	13.78	51.98
EALI60	66	60.54	20.72	19.3	48.6	69.84	25.63	20.62	56.87
EASO40	400	87.56	31.79	20.44	65.4	66.8	25.81	14.67	51.17
ECLA10	132	45.44	15.68	16.38	38.56	52.8	19.25	17.69	44.91
ECLA40	400	121.06	44.03	25.35	87.62	93.73	36.86	16.24	68.37
EGGB41	400	112.3	40.07	29.55	86.23	104.54	39.27	26.29	81.83
EGGB42	400	136.2	47.2	37.88	104.63	131.97	48.99	33.91	103.2
ELLA11	132	28.05	9.83	9.16	23.06	34.1	12.58	10.32	28.12
ELLA12	132	28.69	10.07	9.25	23.49	34.34	12.68	10.35	28.28
ELLA20	275	69.75	25.41	13.66	49.6	61.74	24.27	10.49	44.81
ELST11	132	30.13	9.97	10.42	24.52	37.81	13.66	12.43	31.75
ELST12	132	38.77	12.67	12.06	29.98	46.22	16.76	13.55	37.25
ELST1A	132	10.66	3.85	3.35	8.79	13.05	4.85	3.87	10.73
ELST1B	132	10.36	3.77	3.19	8.53	12.69	4.73	3.7	10.39
ELST21	275	69.99	25.22	17.98	53.64	75.81	28.67	19.12	59.67
ELST22	275	64.23	23.13	13.47	46.17	71.58	27.39	14.39	53.12
ELST2A	275	69.21	24.93	17.91	53.16	74.89	28.3	19.04	59.06
ELST2B	275	63.57	22.88	13.45	45.81	70.76	27.05	14.37	52.63
ELST40	400	104.88	38.15	21.45	75.39	111.16	43.35	22.27	83.58
ELST4A	400	104.86	38.14	21.45	75.38	111.1	43.33	22.25	83.53
ELST4B	400	45.46	17.32	8.35	32.84	42.27	16.47	8.39	31.68
ENDE40	400	91.5	33.59	18.88	66.38	61.77	24.68	9.49	44.4
EXET40	400	59.13	20.52	13.09	42.11	55.6	21.17	11.45	41.39
FAWL10	132	50.82	16.24	17.98	40.95	69.43	23.86	24.95	58.7
FAWL40	400	90.31	30.69	23.52	66.93	89.66	33.21	23.42	70.4
FECK20	275	68.35	24.79	15.65	50.71	67.94	26.06	15.88	52.74
FECK40	400	86.17	31.91	15.41	60.53	71.81	28.19	14.12	53.98
FENW4A	400	126.46	45.3	33.45	97.52	111.23	42.39	23.85	83.8

FERR11	132	35.74	12.22	12.34	29.62	43.08	15.57	15.24	37.26
FERR12	132	32.74	11.24	10.56	26.45	39.98	14.56	13.08	33.66
FERR13	132	10.77	3.98	3.4	9.02	11.36	4.2	3.59	9.54
FERR21	275	72.05	25.7	20.03	56.37	76.54	28.63	20.74	61.23
FERR22	275	77.73	27.47	24.88	63.74	84.07	30.94	26.39	70.14
FERR23	275	85.47	29.89	25.51	67.78	93.92	34.66	27.33	76.34
FERR2A	275	85.54	29.92	25.58	67.9	93.67	34.59	27.1	76.01
FERR2B	275	71.55	25.54	19.75	55.87	75.6	28.35	19.83	59.93
FERR4A	400	91.18	32.43	23.98	69.85	81.4	30.66	20.61	63.97
FFES21	275	37.06	13.74	7.56	27	36.25	14.26	6.38	26.54
FFES22	275	34.8	13.14	5.85	24.43	33.34	13.35	4.44	23.32
FIDF21	275	68.26	23.09	24.13	56.79	72.82	26.17	25.26	62.27
FIDF22	275	68.23	23.29	23.89	56.83	71.56	25.88	24.48	61.07
FIDF23	275	85.69	28.95	26.01	66.95	87.61	31.91	26.88	72.01
FIDF24	275	86.08	29.01	26.17	67.19	88.68	32.24	27.31	72.91
FLEE40	400	107.74	37.66	24.13	77.39	92.09	35.35	19.69	69.69
FORD4A	400	39.8	14.87	8.87	29.91	31.47	12.31	5.85	23.26
FORD4B	400	51.91	19.51	11.06	38.65	41.21	16.37	6.64	29.79
FOUR20	275	44.34	17.51	5	29.77	35.81	14.94	3.18	24.31
FROD2A	275	66.44	22.78	23.22	55.44	69.45	25.25	22.63	58.33
FROD2B	275	65.72	22.4	23.16	54.83	68.32	24.77	22.35	57.38
FROD40	400	106.38	36.33	30.55	81.92	93.64	34.81	25.59	74.82
GRAI41	400	160.58	56.04	49.76	129.01	174.63	64	56.4	146.9
GRAI42	400	139.25	49.14	36.78	106.28	138.61	51.89	36.33	109.72
GREN11	132	42.33	16.09	12.17	34.93	48.91	19.37	13.54	40.93
GREN12	132	44.23	16.37	12.9	36.05	50.98	19.9	14.03	42.18
GREN40	400	86.06	32.42	14.3	60.15	56.16	22.73	9.35	41.5
GRIW40	400	80.7	29.18	21.25	62.52	67.89	26.14	13.7	50.67
GRST21	275	95.82	33.38	29.56	76.77	105.3	38.55	31.47	85.98
GRST22	275	96.16	33.49	29.75	77.11	106.01	38.77	31.92	86.75
GRTO2A	275	58.7	21.31	12.59	42.73	56.99	22.8	8.33	40.58
GRTO2B	275	58.77	21.33	12.64	42.8	57.11	22.82	8.42	40.7
GWYN40	400	90.46	31.95	21.4	66.58	77.13	29.88	14.23	56.49
HACK2A	275	68.98	25.39	17.86	53.77	70.52	27.1	16.64	54.97
HACK2B	275	68.38	25.14	17.77	53.32	66.74	25.7	15.98	52.33
HACK40	400	132.53	46.65	29.67	95.64	124	49.21	21.13	90.71
HAKB4A	400	52.47	20.17	7.97	36.49	41.01	16.34	6.82	29.92
HAKB4B	400	53.13	20.42	8.07	36.95	42.53	16.92	7.24	31.17
HAMB4A	400	76.62	27.64	17.68	56.76	61.62	24.25	9.99	44.29
HAMB4B	400	76.62	27.64	17.68	56.76	61.48	24.2	9.95	44.17
HAMH11	132	28.2	9.72	10.56	24.3	34.94	12.64	12.39	30.27
HAMH12	132	28.27	9.72	10.38	24.12	29.48	10.69	10.2	25.32
HAMH20	275	81.41	28.83	18.29	59.07	76.96	29.66	14.64	56.58
HAMH2A	275	70.42	25.15	18.56	54.13	69.05	26.15	16.37	53.34
HAMH40	400	81.5	29.74	15.51	57.56	72.5	28.24	13.02	52.96
HAMH4A	400	79.97	29.16	15.52	56.76	71.29	27.72	13.04	52.24
HARK11	132	36.02	11.62	8.33	24.77	40.87	15.15	9.44	30.87
HARK12	132	33.15	11.29	8.22	24.19	37.17	14.05	9.2	29.07
HARK13	132	27.71	11.51	6.1	22.39	26.4	10.57	6.38	21.33
HARK21	275	46.66	17.31	10.82	35.31	49.97	19.1	12.09	39.1
HARK22	275	48.48	18.07	10.95	36.51	52.64	20.18	12.37	40.91
HARK40	400	61.9	23.54	9.44	42.74	52.61	20.61	10.57	39.72
HARM20	275	67.18	24.47	12.73	47.34	57.81	22.75	8.99	41.17
HATL20	275	93.16	32.38	23.62	69.41	91.15	34.21	23.6	71.98
HAWP20	275	83.95	29.91	18.97	61.28	76.05	29.36	14.57	56.1

HAWP4A	400	56.46	20.67	12.72	41.95	46.39	17.91	9.67	35.01
HEDO20	275	100.28	35.41	29.51	79.59	105.42	39.13	29.76	85.09
HEDO4A	400	58.48	21.89	13.23	44.19	56.42	21.74	15.81	46.56
HEDO4B	400	58.47	21.89	13.22	44.17	56.42	21.74	15.81	46.55
HEYS40	400	104.1	36.26	27.43	78.71	107.18	39.68	30.28	86.39
HIGM20	275	70.92	25.91	19.78	56.42	66.1	25.44	15.74	51.71
HIGM2A	275	45.98	16.7	15.13	38.75	46.08	17.28	13.11	37.55
HIGM40	400	85.91	31.96	19.22	64.42	69.45	27.34	12.19	50.85
HIGM4A	400	66.98	24.89	17.02	52.22	55.58	21.59	11.7	42.23
HINP21	275	23.94	8.54	8.17	20.25	26.32	9.65	8.9	22.54
HINP22	275	23.98	8.56	8.1	20.21	26.75	9.81	8.94	22.82
HINP40	400	71.72	25.2	17.33	52.96	71.05	26.6	19.14	56.77
HIRN40	400	69.22	25.07	16.31	51.76	51.79	20.35	8.37	37.14
HUMR40	400	128.47	44.94	38.86	102.41	129.98	47.95	39	106.81
HURS20	275	72.87	26.08	18.34	55.22	73.8	30.15	15.1	57.74
HUTT40	400	71.1	26.42	12.58	49.95	50.13	20.26	7.08	35.74
IMPP40	400	59.95	22.06	13.28	44.48	49.91	19.26	10.38	37.62
INDQ40	400	35.23	12.44	6.73	24.32	36.26	13.78	7.39	26.88
IROA11	132	61.04	21.67	16.93	47.57	73.02	27.29	19	57.6
IROA12	132	61.21	21.68	16.76	47.42	71.98	26.86	18.83	56.81
IROA20	275	66.14	24.17	13.75	47.94	61.29	23.81	12.28	45.96
IROA2A	275	65.45	23.91	13.74	47.56	60.7	23.56	12.27	45.59
IROA2B	275	65.45	23.91	13.74	47.56	60.7	23.56	12.27	45.59
IRON11	132	27.06	7.58	6.99	17.71	32.65	10.7	9.15	24.28
IRON12	132	14.65	5.32	5.43	12.95	19.44	7.07	7.27	17.27
IRON40	400	91.04	32.45	20.2	66.09	86.19	32.78	20.07	66.43
IVER21	275	70.76	25.69	17.3	53.63	73.21	27.88	17.53	56.95
IVER22	275	67.38	24.46	15.44	50.03	64.67	25.06	13.63	49.07
IVER2A	275	46.91	17.29	11.76	36.21	46.31	17.87	10.92	36.2
IVER4A	400	49.36	18.39	11.39	37.39	45.28	17.42	10.73	35.36
IVER4B	400	46.64	17.56	10.32	35.15	42.23	16.38	9.76	32.93
JORD20	275	52.01	19.36	9.49	36.87	52.39	21.58	8.11	38.63
KEAD41	400	121.74	43.84	32.77	94.77	104.79	39.92	24.28	80.73
KEAD42	400	125.88	45.17	33.08	96.95	107.83	41.14	24.86	83.04
KEAD43	400	99.25	36.54	23.49	75.17	79.89	31.17	14.99	59.07
KEAD4A	400	120.93	43.6	31.96	93.62	96.16	37.27	17.87	70.58
KEAD4B	400	126.8	45.58	33.09	97.56	99.75	38.71	18.36	73.11
KEAD4C	400	89.04	32.26	25.98	71.6	77.01	29.16	20.73	61.97
KEAD4D	400	89.04	32.26	25.98	71.6	77.01	29.16	20.73	61.97
KEAP41	400	116.64	42.16	30.73	90.35	100.06	38.36	22.01	76.27
KEAP42	400	122.82	44.2	31.64	94.14	104.86	40.08	23.88	80.56
KEAR20	275	76.5	26.76	21.13	58.98	83.77	31.1	22.47	66.45
KEAR40	400	96.51	35.09	18.84	68.46	85.14	32.81	18.01	64.4
KEAR4A	400	89.64	33.08	16.18	62.97	70.32	27.73	12.82	52.03
KEMS40	400	163.04	57	44.09	124.7	138.12	53.33	25.99	101.42
KEMS4A	400	93.43	33.17	29.73	76.65	83.46	31.49	21.71	66.24
KEMS4B	400	94.97	33.76	29.97	77.71	84.35	31.85	21.77	66.82
KIBY21	275	87.43	29.61	23.6	65.47	87.96	33.24	18.92	65.93
KIBY22	275	76.93	26.63	19.96	57.62	71.27	26.94	15.77	53.87
KILL40	400	138.26	48.02	42.64	110.55	144.67	52.99	43.88	118.82
KINO10	132	37.47	12.5	12.23	29.91	47.5	16.76	15.99	39.69
KINO41	400	139.18	48.52	42.11	110.73	136	50.39	39.75	111.01
KINO42	400	140.17	48.57	41.88	110.56	140.74	51.86	41.98	115.32
KIRK20	275	60.61	21.94	13.89	44.92	57.48	22.51	11.03	42.86
KIRK2A	275	62	22.3	14.48	46.01	57.79	23.05	10.99	43.59

KITW20	275	69.19	24.82	12.97	48.07	68.49	26.7	11.59	49.35
KNAR20	275	30.85	12.57	2.6	20.37	25.05	10.45	2.88	17.66
LACK20	275	62.66	22.14	17.09	48.41	64.35	23.98	18.08	51.99
LACK2A	275	91.81	32.2	27.35	72.9	101.64	37.34	29.42	82.22
LACK2B	275	97.21	33.81	30.37	78.19	108.91	39.66	33.78	89.87
LACK2C	275	93.2	32.63	28.07	74.21	103.18	37.87	30.1	83.66
LACK40	400	108.92	38.85	25.78	80.72	107.36	40.13	27.89	84.65
LALE20	275	63.13	22.6	17.46	49.41	68.72	26.74	16.27	54.09
LAND41	400	34.13	12.16	6.57	23.76	33.76	12.98	6.1	24.45
LAND42	400	34.23	12.19	6.6	23.83	33.73	12.96	6.07	24.41
LAND4A	400	33.95	12.09	6.6	23.69	33.46	12.85	6.08	24.26
LANG40	400	43.04	14.89	9.65	30.7	46.53	17.25	12.04	36.43
LEGA40	400	101.74	35.92	23.48	74.28	76.69	30.18	13.33	56
LEGA4A	400	67.96	24.32	19.15	53.54	54.96	21.17	12.4	42.33
LEGA4B	400	68.01	24.33	19.15	53.56	55.03	21.19	12.4	42.37
LEIB4A	400	78.71	29.21	16.72	58.03	58.09	22.88	9.61	41.97
LEIB4B	400	108.75	39.93	22.41	78.88	77.61	30.84	11.64	55.26
LISD20	275	80.14	27.44	20.46	59.27	81	31.15	17.06	61.12
LISD2A	275	51.05	17.77	16.07	41.2	53.03	19.98	13.7	41.96
LITB40	400	82.72	30.1	19.23	61.79	64.53	24.98	15.52	50.86
LITT11	132	20.97	7.35	8.38	18.77	27.66	10.02	10.39	24.56
LITT13	132	33.52	11.93	12.59	29.45	42.87	15.52	16.41	38.35
LITT2A	275	61.39	22.37	15.14	46.77	59.92	24.03	14.01	47.99
LITT2B	275	61.26	22.33	14.97	46.55	60.77	24.25	14.49	48.79
LITT41	400	96.42	35.33	19.85	69.81	91.13	35.37	19.85	69.87
LITT42	400	96.11	35.27	20.09	69.96	94.46	36.2	22.49	73.69
LITT4A	400	88.62	32.78	17.51	63.88	75.05	29.75	11.97	54.05
LITT4B	400	91.6	33.8	18.69	66.5	78.9	31.11	12.97	56.98
LODR6M	66	20.56	7.55	6.91	17.58	2.26	1.57	0	2.22
LOVE40	400	103.42	35.3	25.55	75.47	93.36	35.53	18.6	68.85
MACC20	275	54.76	20.3	13.76	42.47	52.56	20.27	11.87	40.54
MACC40	400	87.98	32.6	16.64	62.75	65.91	26.37	9.87	47.16
MAGA20	275	56.55	21.1	11.03	40.87	52.4	20.52	10.05	39.07
MANN40	400	59.69	21	13.48	43.18	55.37	21.05	11.97	41.75
MAWO40	400	71.59	24.78	18.96	54.01	74.36	27.44	21.1	59.9
MEDW40	400	119.3	42.87	27.99	88.61	113.49	43.23	25.88	87.02
MELK10	132	43.47	15.25	16.19	37.76	57.13	20.66	19.72	48.94
MELK2A	275	47.43	17.5	13.8	38.54	46.57	17.68	12.59	37.59
MELK2B	275	46.1	17.04	13.17	37.27	46.61	17.71	12.45	37.5
MELK40	400	115.3	41.43	23.55	82.14	92.11	36.09	16.54	67.59
MILH11	132	24.29	8.58	8.36	20.49	30.59	11.21	10.07	25.92
MILH12	132	24.61	8.82	7.51	19.99	31.02	11.5	9.14	25.41
MILH2A	275	43.98	16.55	6.99	30.39	44.09	18.08	6.69	32.26
MILH2B	275	43.94	16.53	6.98	30.36	44.04	18.07	6.68	32.23
MITY40	400	87.9	32.62	15.72	61.85	63.23	25.43	9.18	45.14
MOEL4A	400	90.51	31.97	21.41	66.62	76.95	29.83	14.06	56.24
MOEL4B	400	90.45	31.95	21.39	66.57	76.89	29.8	14.05	56.2
MONF21	275	87.69	30.78	27.4	70.93	93.28	34.63	25.93	74.91
MONF22	275	79.36	28.18	24.75	64.59	81.66	30.46	22.83	65.9
MONF40	400	103.48	36.72	26.8	78.74	91.94	34.77	21.27	70.44
MONF4A	400	89.99	32.18	23.1	68.61	79.07	29.97	18.17	60.55
NECH20	275	88.16	30.86	22.64	66.29	86.11	33.08	17.15	63.93
NEEP20	275	61.54	22.39	13.85	45.5	67.34	26.54	12.65	50.18
NEEP4A	400	49.88	18.68	10.23	36.65	44.6	17.6	8.25	33.14
NEWX20	275	79.93	28.41	19.3	59.47	84.93	34.23	15.79	64.2

NFLE11	132	39.2	12.7	13.08	31.03	48	17.22	15.05	39.4
NFLE12	132	32.67	12.01	11.57	28.56	35.77	13.31	12.12	30.94
NFLE40	400	138.03	48.69	33.45	102.31	103.59	40.78	17.92	75.6
NHYD2A	275	47.99	18.4	7.5	33.51	40.13	19.06	3.05	30.01
NHYD2B	275	46.55	17.8	7.07	32.25	39.57	18	5.39	30.85
NHYD60	66	40.46	13.62	12.48	31.74	54.65	19.95	15.58	43.79
NINF40	400	66.41	23.71	15.85	49.38	58.52	22.49	13.09	44.89
NORL2A	275	53.79	19.91	10.43	38.59	54.56	22.55	7.4	39.28
NORL2B	275	52.72	19.61	9.63	37.36	53.09	22.24	6.62	38.08
NORT20	275	92.89	32.37	24.94	70.71	97.46	36.35	24.75	76.16
NORT40	400	110.9	39.51	23.75	79.62	107.48	41.19	22.86	81.11
NORW40	400	62.46	23.14	11.18	43.9	50.05	19.68	9.03	36.86
NURS40	400	67.94	23.72	17.33	50.87	67.69	25.29	16.5	52.26
NURS4A	400	56.29	20.11	12.89	41.33	51.23	19.45	11.34	38.84
OCKH10	132	27.28	9.57	9.13	22.67	33	12.01	10.66	27.64
OCKH20	275	67.52	24.36	13.07	47.51	68.44	26.54	12.31	49.85
OCKH2A	275	57.42	20.77	12.76	42.14	56.75	21.88	12.05	42.99
OFFE20	275	73.84	26.86	13.37	51.36	64.21	25.26	10.49	46.2
OLDB20	275	57.5	21.02	10.85	40.58	58.7	22.85	10.53	42.84
OLDB2A	275	56.98	20.82	10.86	40.31	58.15	22.61	10.54	42.51
OLDB4A	400	38.22	14.39	7.2	27.56	34.46	13.49	6.6	25.68
OLDS11	132	46.15	16.34	10.46	33.57	47.06	17.81	10.74	35.93
OLDS12	132	45.13	16.23	10.47	33.42	48.79	18.55	11.19	37.42
OSBA41	400	79.8	29.51	17.73	59.46	56.65	22.35	9.22	40.84
OSBA42	400	79.22	29.33	17.66	59.13	54.71	21.63	8.85	39.44
PADI10	132	29.04	9.91	10.17	24.18	35.6	12.8	11.54	29.64
PADI40	400	87.05	31.79	17.9	62.85	62.85	25	9.44	44.79
PAFB4A	400	57.26	21.93	9.45	40.46	37.08	15.28	3.64	25.25
PAFB4B	400	57.37	21.97	9.48	40.55	37.16	15.31	3.65	25.31
PELH40	400	150.13	53.18	37.56	112.77	116.84	45.36	22.61	86.76
PEMB10	132	29.21	10.36	10	24.66	36.75	13.5	11.97	31.06
PEMB40	400	60.76	21.49	16.61	47	67.37	24.95	18.2	53.48
PENN20	275	74.4	26.65	17	54.69	76.8	29.31	16.55	58.01
PENN2A	275	73.51	26.33	16.96	54.2	75.86	28.93	16.52	57.43
PENN4A	400	47.87	17.89	9.47	34.77	41.68	16.27	8.58	31.59
PENN4B	400	50.05	18.7	9.7	36.15	45.52	17.75	9.08	34.18
PENT40	400	81.9	27.82	23.07	62.4	85.62	31.63	22.38	67.12
PEWO21	275	71.64	25.5	21.2	57.27	71.03	26.73	18.37	56.18
PEWO22	275	72.37	25.73	21.76	58.15	67.99	25.51	18.41	54.49
PEWO2A	275	72.71	25.84	21.91	58.46	68.3	25.59	18.7	54.89
PEWO2B	275	73.42	26.07	22.11	58.97	73.96	27.71	19.95	59.13
PEWO40	400	112.94	39.68	26.4	82.52	99.95	38.53	19.62	74.1
PITS20	275	62.97	22.86	13.78	46.11	69.57	27.39	12.65	51.38
POPP20	275	30.1	12.42	1.97	19.54	23.87	10.06	2.68	16.9
PYLE20	275	60.78	22.65	11.23	43.25	54.55	21.53	9.42	39.88
PYLE2A	275	60.19	22.41	11.23	42.93	54.07	21.32	9.43	39.59
PYLE2B	275	60.19	22.41	11.23	42.93	54.07	21.32	9.43	39.59
QUER4A	400	90.06	32.07	21.82	67.17	77.72	30.07	14.22	56.75
QUER4B	400	89.81	32.01	21.68	66.95	78.24	30.25	14.47	57.25
RAIN20	275	102.6	33.97	30.43	78.47	98.87	36.68	23.85	75.72
RASS40	400	56.55	20.82	12.3	41.74	44.42	17.44	7.26	31.93
RATS2A	275	44.14	16.11	13.78	36.56	45.37	16.88	14.41	38.28
RATS41	400	102.05	36.75	23.17	75.15	101.02	38.18	24.29	78.29
RATS42	400	113.41	40.61	26.01	83.44	112.54	42.48	27.3	87.37
RAYL41	400	91.27	33.32	21.2	68.32	70.72	27.61	13.65	52.69

RAYL42	400	94.22	34.48	21.12	69.89	69.08	27.19	12.56	51.01
REBR21	275	72.3	26.33	19.04	56.28	69.02	27	13.61	51.79
REBR22	275	73.36	26.74	19.44	57.26	70.22	27.62	12.93	51.99
ROCH20	275	64.54	23.4	14.71	47.8	63.08	24.3	12.75	47.11
ROCH4A	400	32.99	12.37	7.81	25.29	29.29	11.29	6.78	22.74
ROCK40	400	102.34	35.1	28.88	78.51	88.56	33.1	23.43	70.24
RUGE10	132	27.87	9.55	10.09	23.59	31.09	11.08	11.83	27.5
RUGE40	400	72.68	26.25	15.23	52.36	70.96	27.05	16.44	54.7
RYEH40	400	86.64	30.99	23.16	66.99	83.9	31.52	22.53	67.11
RYEH4A	400	78.7	28.71	19.96	60.56	69.52	26.5	17.09	54.57
SAEN20	275	97.28	34.45	28.15	76.87	101.74	37.79	28.5	81.95
SAES20	275	99.59	35.16	29.25	78.98	104	38.58	29.93	84.49
SALH20	275	81.64	28.84	18.92	59.7	77.83	29.77	15.35	57.45
SBAR40	400	63.85	24.12	12.06	46.18	53.06	20.94	9.46	39.06
SEAB40	400	72.56	25.6	18.16	54.37	70.38	26.2	19.72	56.77
SELL40	400	78.89	28.3	18.15	58.16	74.2	28.44	16.73	56.95
SHBA40	400	97.87	34.76	28.16	77.32	94.22	35.2	26.59	76.37
SHEC20	275	56.02	20.62	11.36	40.53	58.72	24.03	8.32	42.3
SHRE4A	400	66.85	24.47	13.65	48.25	53.45	21.13	8.28	38.17
SING40	400	122.2	43.61	29.59	91.26	92.53	36.36	15.44	66.87
SIZE11	132	44.99	16.22	14.6	37.53	55.33	20.36	17.36	46.16
SIZE12	132	44.99	16.22	14.6	37.54	55.36	20.38	17.27	46.09
SIZE40	400	74.28	26.46	19.19	56.61	75.07	27.94	21	60.52
SJOW20	275	95.23	34.25	24.92	73.36	105.16	40.52	28.27	85.57
SJOW2A	275	74.06	26.42	21.57	58.92	75.48	30.84	19.81	63.43
SJOW2B	275	74.06	26.42	21.57	58.92	75.48	30.84	19.81	63.43
SJOW40	400	123.47	43.71	28.39	90.2	128.18	49.51	28.2	98.22
SKLG20	275	69.22	24.78	15.61	50.66	64.85	25.21	12.37	48.02
SMAN20	275	74.01	27.03	17.67	55.89	76.49	29.56	15	56.8
SPEN40	400	90.42	32.49	18.95	64.9	80.56	31.16	14.91	58.98
SPLN40	400	71.04	25.97	19.22	55.94	61.82	23.55	16.47	49.77
SSHI20	275	69.45	25.5	11.43	47.49	60.75	23.96	10.05	43.93
STAH4A	400	66.32	24.28	14.06	48.4	51.77	20.59	7.77	36.89
STAH4B	400	66.32	24.28	14.06	48.4	51.68	20.55	7.75	36.82
STAL21	275	46.72	17.24	11.26	35.64	46.09	17.65	10.32	35.27
STAL22	275	57.36	21.52	10.39	40.82	50.81	20.06	8.8	37.17
STAL4A	400	34.99	13.08	7.98	26.47	29.46	11.37	6.56	22.64
STAY41	400	76.67	28.33	15.69	55.75	68.44	26.42	15.26	52.62
STAY42	400	68.57	25.51	14.1	50.18	62.24	23.95	14.63	48.51
STAY4A	400	67.96	25.25	14.91	50.61	59.01	22.75	14.14	46.32
STEN10	132	40.17	12.6	10.6	28.41	49.86	17.81	12.72	37.9
STES10	132	35.24	11.92	10.88	27.74	43.87	15.8	12.96	35.3
STEW20	275	98.64	35.35	21.76	71.74	100.32	38.33	21.09	75.3
STEW2A	275	98.42	35.28	21.65	71.55	99.96	38.26	20.67	74.77
STEW40	400	84.38	30.45	17.57	60.64	76.78	29.6	15.35	57.21
STEW4C	400	73.88	26.86	15.8	53.79	62.66	24.43	11	45.56
STEW4D	400	73.53	26.76	15.67	53.52	62.28	24.29	10.9	45.26
STSB40	400	62.29	23.02	13.86	46.41	53.98	21.06	10.76	40.54
STSB4A	400	53.75	19.98	12.72	40.98	45.99	17.85	10.03	35.28
STYC10	132	31.19	10.57	11.72	26.67	28.96	10.47	10.88	25.69
SUND41	400	130.07	47.32	26.55	93.47	99.44	39.27	16.6	72.14
SUND42	400	95.4	35.09	20.18	69.8	76.05	29.73	13.91	55.96
SUTB4A	400	93.13	33.8	22.75	70.55	82.38	31.44	20.74	65.2
SWAN2A	275	28.25	10.27	9.01	23.53	30.83	11.46	9.3	25.51
SWAN2B	275	46.91	17.32	13.09	37.58	47.18	17.94	12.45	37.83

SWAN40	400	65.08	23.44	15.92	49.07	60.4	22.98	13.76	46.26
SWAN4A	400	40.94	15.1	9.4	30.76	35.7	13.65	8.23	27.53
TAUN4A	400	51.65	18.53	10.56	36.76	44.32	17.36	6.94	31.49
TAUN4B	400	52.52	18.82	10.72	37.33	45.77	17.89	7.41	32.7
TEMP21	275	61.76	22.49	13.19	44.99	65.46	25.93	11.81	48.48
TEMP22	275	62	22.56	13.3	45.2	66.02	26.15	11.97	48.94
THOB40	400	106.26	38.4	26.81	81.12	101.91	38.26	27.86	81.98
THOM20	275	77.9	27.81	22.01	61.33	80.39	30.3	21.67	64.52
THOM40	400	115.93	41.2	28.41	86.67	101.9	38.73	23.19	77.96
THOR40	400	104.86	37.79	21.94	75.39	105.65	40.49	23.21	80.48
THTO41	400	125.57	45.49	30.07	94.4	91.89	36.01	15	65.93
THTO42	400	124.78	45.11	29.96	93.76	90.61	35.51	14.8	65.02
THUR20	275	66.77	24.86	11.13	46.29	67.07	26.53	11.07	48.59
THUR2A	275	67.2	25.11	10.46	45.98	63.11	25.34	8.41	44.25
TILB21	275	78.54	27.89	22.68	62.13	82.83	30.74	23.47	66.94
TILB22	275	79.43	28.15	24.32	64.13	84.15	31.13	25.17	69.2
TILB40	400	181.35	62.59	48.92	137.44	155.98	59.61	33.87	118.17
TINP2A	275	60.99	22.42	14.16	45.86	59.64	23.22	12.54	45.38
TINP2B	275	60.99	22.42	14.16	45.86	59.65	23.23	12.54	45.39
TODP20	275	64.72	22.99	15.89	48.41	55.86	21.52	11.03	41.46
TOTE21	275	81.18	29.48	21.72	63.41	80.99	31.18	18.21	62.31
TOTE22	275	82.26	29.91	22.05	64.34	83.7	32.24	18.41	64
TOTW21	275	82.59	30.31	18.78	61.66	81.04	33.51	14.49	61.89
TOTW22	275	83.4	30.56	19.17	62.38	81.75	33.75	14.92	62.65
TRAW20	275	45.2	16	13.6	36.23	47.98	18.03	11.75	37.25
TRAW40	400	61.01	22.27	12.29	43.79	48.13	19.06	8.38	35.33
TREM20	275	47.14	18.32	6.24	32.15	38.65	15.84	4.54	26.94
TREU4A	400	97.72	34.66	22.46	71.48	77.79	30.48	12.5	55.61
TREU4B	400	99.45	35.24	22.81	72.65	79.4	31.13	12.65	56.67
TYNE20	275	63.99	23.57	10.34	43.68	56.88	22.44	9.23	40.96
TYNE2A	275	61.33	22.86	9.89	42.22	53.05	21.07	8.23	38.03
TYNE50	11	54.69	19.55	19.2	46.85	59.65	21.67	21.96	52.61
UPPB21	275	50.85	18.83	12.23	38.85	48.72	18.87	10.19	36.87
UPPB22	275	50.82	18.84	12.22	38.86	46.02	17.75	10.36	35.46
USKM20	275	83.36	29.77	22.06	64.17	94.12	35.21	25.22	75.02
USKM2A	275	66.86	24.66	14.27	49.15	67.47	26.05	13.67	50.51
USKM2B	275	82.67	29.57	21.67	63.48	92.12	34.58	23.79	72.7
WALH40	400	68.52	25.25	13.29	49	50.51	20.03	8.46	36.79
WALP11	132	49.6	17.68	13.25	38.26	54.38	20.9	14.07	43.62
WALP12	132	38.02	14.11	10.83	30.78	41.81	16.21	11.71	34.64
WALP13	132	31.5	12.05	8.26	25.3	33.84	13.42	8.78	27.76
WALP40	400	110.29	39.51	29.61	85.48	98.12	37.14	26	78.53
WALX21	275	99.25	35.71	27.81	78.31	95.98	36.55	25.24	76.93
WALX22	275	98.82	35.62	27.68	78.05	95.16	36.29	24.99	76.32
WALX4A	400	80.26	28.81	21.81	62.55	76.12	28.74	19.54	60.19
WALX4B	400	74.01	26.96	19.45	57.58	66.67	25.37	16.66	52.54
WARL20	275	85.13	30.51	20.19	63.33	71.85	28.06	13.15	52.84
WASF2A	275	64.57	23.08	14.69	47.33	53.26	20.9	8.47	38.03
WASF2B	275	69.11	24.49	15.79	50.42	58.43	23.04	8.76	41.34
WATS21	275	65.64	23.89	15.29	49.08	66.27	25.6	13.42	49.62
WATS22	275	62.5	22.62	12.82	44.81	64.39	24.99	11.57	46.91
WBOL20	275	78.87	28.51	13.74	54.06	68.26	26.81	11.61	49.52
WBUR10	132	32.76	10.78	10.87	26.11	43.51	15.25	14.27	35.84
WBUR41	400	116.34	42.05	32.87	92.33	110.65	41.44	32.19	90.79
WBUR42	400	102	37.05	29.74	82.14	102.56	38.2	31.45	85.47

WEAV4A	400	78.4	29.06	14.49	55.58	54.83	22.24	6.05	37.5
WEAV4B	400	79.57	29.44	14.86	56.5	55.64	22.56	6.15	38.06
WHAM40	400	146.28	51.16	33.4	105.75	137.92	53.9	24.51	100.73
WHAM4A	400	112.28	40.2	24.69	81.54	107.31	43.75	19.15	81.03
WHAM4B	400	112.31	40.22	24.55	81.43	107.38	43.8	18.93	80.87
WHGA20	275	67.64	24.22	15.88	50.13	65.15	25.12	12.45	47.98
WHSO20	275	86.74	30.86	23.35	67	95.45	35.84	24.24	74.92
WHSO2A	275	61.74	22.31	17.82	49.38	64.06	24.02	18.28	52.25
WHSO2B	275	61.74	22.31	17.82	49.38	64.06	24.02	18.28	52.25
WHSO4A	400	70.46	25.26	17.9	53.62	61.88	23.5	14.7	47.94
WIBA20	275	61.6	22.44	13.08	44.82	66.32	26.62	10.24	47.88
WIEN2A	275	55.03	20.28	9.7	38.37	53.55	21.03	8.78	38.53
WIEN2B	275	58.14	21.07	12.49	42.29	57.09	22.2	11.04	42.43
WILE40	400	113.65	40.86	24.29	82.08	99.75	38.72	18.77	73.53
WILL10	132	54.83	18.58	19.74	46.01	67.53	24.43	23.08	57.62
WILL20	275	41.8	14.96	14.85	36	45.1	16.55	14.95	38.35
WIMB11	132	33.88	11.17	11.17	26.97	44.38	16.03	13.87	36.54
WIMB12	132	28.1	10.22	9.63	24.08	34.18	12.6	11.26	29.08
WIMB13	132	22.41	7.83	8.04	19.11	28.23	10.31	9.55	24.14
WIMB14	132	22	7.76	7.93	18.9	27.69	10.11	9.55	23.85
WIMB20	275	87.13	30.8	21.26	64.81	94.71	37.27	19.81	72.52
WIMB2M	275	46.03	17.51	8.74	33.51	42.25	16.77	7.09	30.81
WISD20	275	84.24	29.65	25.48	67.41	92.09	35.59	22.19	72.52
WISD2A	275	64.53	22.94	19.42	51.87	68.94	27	17.94	56.13
WISD2B	275	73.68	26.37	20.28	57.57	74.35	30.05	18.89	61.4
WISD60	66	50.5	17.31	17.63	42.12	6.54	4.52	0	6.39
WMEL20	275	75.68	27.14	14.53	52.9	72.53	28.21	14.02	53.92
WTHU41	400	136.02	48.75	28.93	97.87	114.46	45.07	17.47	81.21
WTHU42	400	136.37	48.89	29.21	98.36	114.93	45.23	17.59	81.55
WTHU4A	400	117.71	42.42	25.33	85.32	89.92	35.72	14.21	64.72
WTHU4B	400	117.71	42.42	25.33	85.32	89.92	35.72	14.21	64.72
WWEY21	275	80.96	29.61	17.72	59.59	81.05	31.27	16.96	61.18
WWEY22	275	67.35	25.08	13.17	48.64	65.19	25.33	12.52	48.34
WWEY2A	275	56.44	20.49	15.01	43.98	57.3	22.11	13.67	44.93
WWEY4A	400	45.39	17.23	8.35	32.72	39.79	15.6	7.82	29.88
WWEY4B	400	52.49	19.57	11.83	39.5	46.51	18.1	10.5	36.09
WYLF10	132	46.96	14.52	14.13	34.66	58.67	20.38	16.52	45.34
WYLF40	400	53.22	18.49	13.29	39.44	45.17	17.17	9.95	34.23
WYMO40	400	120.17	43.44	27.12	88.56	88.87	34.83	15.57	64.83
YGAR4A	400	57.66	20.97	12.25	41.9	44.84	17.85	6.81	32.05
YWER4A	400	57.25	20.76	12.4	41.76	44.64	17.75	6.53	31.63

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Table D.3.5 - NGET Fault Levels (kA), Winter 2013/14

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	37.39	13.38	7.14	26.06	34.91	13.47	6.12	25.18
ABHA4B	400	37.37	13.37	7.13	26.03	34.89	13.47	6.12	25.16
ABTH11	132	31.5	12.26	6.95	24.29	37.42	14.55	9.44	30.02
ABTH12	132	52.83	19.44	14.32	41.81	62.61	23.53	18.42	51.7
ABTH13	132	11.8	4.66	1.59	8.19	10.38	3.97	2.35	7.96
ABTH20	275	93.32	33.01	23.89	70.57	99.4	37.09	27.17	79.62
ALDW20	275	63.1	23.14	10.29	43.02	60.92	24.02	10.24	44.2
ALVE4A	400	25.9	9.68	4.26	17.96	21.55	8.57	3.14	15.26
ALVE4B	400	26	9.72	4.26	18.01	21.78	8.66	3.15	15.4
AMEM10	132	27.65	9.96	9.87	23.96	33.93	12.51	11.1	28.79
AMEM4A	400	54.72	20.63	10.79	39.97	44.2	17.56	7.18	32
AMEM4B	400	52.37	19.97	9.54	37.78	42.45	16.95	6.71	30.68
AMLW40	400	53.47	18.72	13.85	40.33	44.19	16.81	10.78	34.55
AMLW4A	400	60.15	20.87	15.65	45.17	54.41	20.54	12.37	41.42
AMLW4B	400	60.15	20.87	15.65	45.17	54.41	20.54	12.37	41.42
AXMI10	132	28.13	9.76	9.39	23.2	34.02	12.41	10.57	28.12
AXMI40	400	41.35	14.82	8.93	29.89	34.29	13.28	6.44	25.23
BAGB20	275	63.35	22.9	17.42	49.8	62.61	23.45	18.84	52
BARK10	132	25.28	8.89	9.6	22.18	27.47	9.98	10.09	24.2
BARK21	275	62.17	22.36	18.56	50.18	64.12	24.09	18.09	52.16
BARK22	275	64.8	23.26	19.95	52.84	68.32	25.61	19.49	55.71
BARK40	400	172.17	59.75	43.2	127.7	160.36	61.24	37.14	123.75
BARP21	275	56.69	20.52	16.04	45.07	56.45	21.45	13.95	44.28
BARP22	275	59.7	21.52	17.65	48.08	61.31	23.17	15.66	48.43
BEDD21	275	67.38	24.86	16.05	51.2	68.77	26.51	15.56	53.05
BEDD22	275	85.23	30.79	18.76	62.3	85.81	33.43	17.39	64.66
BEDD2M	275	17	6.2	6	14.76	18	6.68	5.9	15.35
BEDD4A	400	51.94	19.55	11.5	39.15	44.7	17.7	10.39	35.42
BEDD4B	400	43.45	16.66	8.23	31.8	36.64	14.76	7.42	28.3
BESW20	275	65.14	23.45	12.42	45.58	57.92	22.71	9.95	42.07
BICF10	132	28.4	10.31	10.69	25.27	31.24	11.45	10.88	27.07
BICF4A	400	66.52	24.67	17.23	52.11	47.08	18.54	8.69	34.91
BICF4B	400	63.51	23.47	16.97	50.17	48.81	19.07	9.38	36.35
BIRK20	275	51.94	18.03	16.07	41.56	54.37	20.34	13.92	42.68
BISW20	275	70.44	25.36	13.01	48.88	65.75	25.95	10.57	47.26
BLYT21	275	67.24	24.68	12.52	47.43	64.9	25.22	12.1	47.77
BLYT22	275	60.71	22.71	11.09	43.21	55.94	21.97	9.77	40.84
BLYT4A	400	43.78	16.46	8.2	31.48	38.04	14.89	7.42	28.48
BLYT4B	400	42.91	16.21	7.79	30.71	36.73	14.45	6.69	27.12
BLYT60	66	52.27	17.38	15.82	40.39	29.93	10.86	12.26	27.61
BOLN40	400	69.07	24.52	16	50.68	55.16	21.31	11.44	41.58
BOTW40	400	82.84	28.67	20.27	60.81	75.07	28.69	14.85	55.42
BRAI4A	400	64.39	23.9	14.43	48.24	48.52	19	8.74	35.62

BRAI4B	400	63.98	23.88	13.95	47.73	45.27	17.85	7.83	33.08
BRAW20	275	72.84	26.23	16.89	53.98	71.28	27.46	14.64	53.47
BRAW4A	400	39.08	14.45	9.52	29.95	34.24	13.11	8.04	26.58
BRED20	275	70.59	25.96	14.79	51.5	69.97	27.27	12.81	51.37
BRFO40	400	90.17	32.35	22.17	67.92	85.65	32.35	21.21	66.96
BRIM10	132	51.7	17.78	20.02	45.16	63.15	22.63	23.86	55.87
BRIM2A	275	76.4	27.65	21.2	60.3	73.79	28.18	16.74	56.6
BRIM2B	275	61.42	22.66	15.23	47.27	60.9	23.36	13.47	46.51
BRIM2C	275	76.5	27.74	21.23	60.46	73.63	28.21	16.25	56.14
BRIM2D	275	59.23	21.99	14.1	45.2	58.1	22.42	11.96	43.66
BRIN21	275	67.08	24.19	15.14	49.35	72.05	28.07	14.15	53.84
BRIN22	275	71.87	26	18.72	55.49	75.09	28.78	18.17	58.86
BRIN2M	275	27.93	10.06	10.59	24.82	28.84	10.59	9.98	24.96
BRIN40	400	78.98	28.87	18.78	59.61	58.9	22.81	13.23	45.49
BRLE40	400	125.02	43.8	28.85	90.79	108.04	41.54	22.17	80.91
BRWA2A	275	19.76	7.24	5.4	15.64	19.87	7.56	4.79	15.49
BRWA2B	275	19.73	7.22	5.44	15.65	19.7	7.49	4.83	15.42
BRWA2C	275	19.7	7.22	5.4	15.6	19.8	7.54	4.79	15.45
BRWE10	132	20.88	7.3	8.74	19.07	6.13	2.24	2.15	5.32
BURW40	400	101.67	36.91	26.31	78.51	64.59	25.85	11.13	47.69
BUSH20	275	63.03	22.82	13.42	45.69	61.13	23.83	10.87	44.57
BUST21	275	72.78	25.88	18.58	55.18	71.61	28.18	15.88	55.73
BUST22	275	71.3	25.43	17.95	53.92	68.63	27.44	14.27	53.07
BUST4A	400	52.92	19.44	12.69	40.18	44.19	17.1	9.77	33.96
BUST4B	400	49.06	17.95	11.57	36.96	41.47	16.1	8.76	31.54
CANT40	400	90.57	32.41	21.41	67.24	69.03	27.24	11.58	50.11
CAPE21	275	54.62	18.94	18.42	45.2	60.06	22.08	18.33	49.55
CAPE22	275	35.17	12.53	12.94	30.66	38.78	14.19	13.13	33.19
CAPE4A	400	97.93	34.25	25.52	73.96	84.68	32.18	18.57	64.08
CAPE4B	400	104.04	36.03	28.27	79.22	91	34.41	20.63	69.29
CARE20	275	54.22	20.33	9.78	38.53	46.81	18.55	8.41	34.64
CARR11	132	28.52	10.46	8.49	23.28	33.47	12.68	9.65	27.58
CARR12	132	51.65	17.76	16.88	42.01	63.77	23.32	20.19	53.17
CARR20	275	82.01	29.43	23.4	65.03	90.95	34.13	24.39	72.66
CARR40	400	129.23	45.98	27.6	92.62	117.38	44.82	26.49	89.88
CARR4A	400	124.5	44.67	25.22	88.39	108.99	42.11	21.74	81.3
CARR4B	400	123.58	44.47	24.37	87.26	106.18	41.25	20.17	78.5
CARR4H	400	129.68	46.35	26.51	92.06	112.73	43.53	22.54	84.1
CELL11	132	44.1	14.86	14.54	35.55	54.78	19.72	16.72	44.61
CELL12	132	30.12	10.48	10.38	25.2	35.85	13.05	11.53	29.99
CELL40	400	100.64	36.79	18.55	70.57	78.49	31.01	14.08	57.94
CHIC41	400	39.28	14.22	8.63	28.74	31.39	12.23	5.83	23.13
CHIC42	400	38.81	14.03	8.57	28.41	29.67	11.61	5.3	21.71
CHSI20	275	93.45	34.04	18.76	66.9	80.77	32.02	13.2	58.49
CHTE20	275	72.63	25.75	18.58	55	63.42	24.44	13.59	48.16
CILF2A	275	51.05	18.81	14.3	40.89	45.72	17.4	12.42	37.04
CILF2B	275	50.99	18.77	14.28	40.82	50.88	19.34	13.52	40.88
CILF40	400	91.14	32.52	22.33	68.33	79.67	30.43	17.49	60.53
CITR41	400	125.94	44.13	28.37	90.78	131.34	51.18	22.81	95.19
CITR42	400	125.83	44.1	28.33	90.7	131.12	51.14	22.58	94.89
CLEV40	400	84.96	30.82	20.65	64.24	64.57	25.5	10.22	46.29
COSO40	400	114.93	41.56	26.68	85.45	97.23	37.51	22.35	75.4
COTT40	400	132.44	46.87	35.2	101.48	127.98	47.68	35.87	103.3
COVE20	275	65.53	23.46	13.54	46.72	61.58	23.77	11.96	45.58
COVE2A	275	64.85	23.22	13.53	46.36	60.98	23.52	11.95	45.21

COWB2A	275	71.81	26.37	14.53	51.83	62.31	24.64	9.22	44.06
COWL40	400	135.34	47.82	35.02	102.65	115.33	44.03	24.97	87.24
CREB2A	275	81.84	29.49	25.79	67.49	80.61	30.08	22.98	65.52
CREB2B	275	81.3	29.29	25.72	67.14	80.31	29.96	22.96	65.34
CREB40	400	153.94	54.77	39.51	116.96	125.42	48.27	26.19	94.45
CREB4A	400	150.78	53.82	37.8	113.91	115.37	47.27	14.08	80.92
CREB4B	400	150.7	53.82	37.59	113.7	115.34	47.27	14.04	80.88
CULJ4A	400	121.03	42.84	32.17	92.75	113.91	42.72	29.02	89.44
DAIN40	400	141.2	50	29.95	100.66	126.19	48.35	26.94	95.32
DAMC40	400	137.04	47.76	40.34	107.88	137.7	51	39.68	111.8
DEES41	400	122.71	42.23	33.02	92.75	120.52	44.72	32.77	96.02
DEES42	400	114.89	39.99	29.09	85.64	108.87	40.84	27.15	84.9
DIDC41	400	128.74	45	36.56	100.19	130.33	47.91	39.72	107.46
DIDC42	400	112.34	38.84	34.29	89.22	113.4	41.35	36.82	95.3
DINO40	400	78.25	26.56	22.74	60.3	83.78	30.7	24.29	67.71
DRAK10	132	38.71	11.45	12.31	28.51	47.25	15.76	15.77	38.06
DRAK2A	275	48.91	17.88	14.51	39.8	51.6	19.32	15.57	42.9
DRAK41	400	112.88	40.39	26.07	83.2	107.79	40.93	26.71	84.59
DRAK42	400	94.12	33.61	20.5	68.03	90.62	34.6	19.86	68.78
DRAX11	132	15.69	5.39	5.63	13.26	19.63	6.99	7.16	17.04
DRAX12	132	15.14	5.2	5.46	12.82	18.99	6.76	6.96	16.52
DRAX41	400	153.6	53.72	44.32	120.29	153.33	56.49	45.6	125.48
DRAX42	400	149.99	51.91	43.35	116.76	149.76	55.03	44.31	122.13
DUBR4A	400	40.55	15.12	9.2	30.58	31.98	12.45	6.07	23.67
DUBR4B	400	51.97	19.5	11.32	38.91	41.57	16.4	7.55	30.74
DUNG20	275	45.75	16.24	15.65	38.61	49.91	18.32	15.95	41.86
DUNG40	400	77.35	27.42	19.48	58.26	75.81	28.89	17.32	58.17
EALI20	275	63.53	22.64	18.17	50.19	68.46	27.02	13.79	52
EALI60	66	60.54	20.72	19.29	48.6	69.84	25.63	20.62	56.87
EASO40	400	88.03	32	20.55	65.81	67.11	25.93	14.74	51.42
ECLA10	132	45.37	15.66	16.36	38.51	52.72	19.22	17.66	44.85
ECLA40	400	121.67	44.31	25.45	88.12	93.97	36.97	16.27	68.56
EGGB41	400	112.32	40.1	29.53	86.24	104.49	39.26	26.25	81.78
EGGB42	400	136.19	47.21	37.86	104.62	131.93	48.98	33.89	103.16
ELLA11	132	28.03	9.83	9.15	23.04	34.06	12.57	10.31	28.09
ELLA12	132	28.67	10.06	9.24	23.47	34.31	12.67	10.34	28.25
ELLA20	275	69.74	25.41	13.65	49.59	61.72	24.26	10.49	44.8
ELST11	132	30.02	9.93	10.38	24.43	37.68	13.61	12.38	31.63
ELST12	132	38.69	12.64	12.04	29.91	46.12	16.72	13.52	37.16
ELST1A	132	10.61	3.83	3.33	8.75	12.99	4.83	3.85	10.68
ELST1B	132	10.33	3.76	3.18	8.5	12.65	4.72	3.69	10.36
ELST21	275	70.14	25.27	18	53.73	75.96	28.74	19.1	59.75
ELST22	275	64.34	23.18	13.49	46.27	71.66	27.43	14.39	53.18
ELST2A	275	69.35	24.98	17.92	53.25	75.03	28.37	19.02	59.14
ELST2B	275	63.67	22.93	13.47	45.91	70.83	27.09	14.38	52.69
ELST40	400	106.15	38.43	21.37	75.72	113.04	44.33	22.3	84.99
ELST4A	400	106.13	38.43	21.37	75.71	112.98	44.31	22.27	84.93
ELST4B	400	45.54	17.37	8.37	32.93	42.33	16.5	8.39	31.73
ENDE40	400	91.65	33.67	18.89	66.51	61.82	24.71	9.49	44.44
EXET40	400	59.16	20.55	13.09	42.15	55.62	21.18	11.45	41.4
FAWL10	132	50.81	16.24	17.98	40.94	69.41	23.86	24.94	58.68
FAWL40	400	90.36	30.73	23.52	66.97	89.68	33.23	23.42	70.42
FECK20	275	68.43	24.83	15.67	50.79	68.01	26.09	15.9	52.79
FECK40	400	86.39	32.01	15.44	60.71	71.94	28.25	14.14	54.09
FENW4A	400	126.75	45.44	33.5	97.76	111.39	42.47	23.86	83.92

FERR11	132	35.73	12.22	12.34	29.62	43.07	15.57	15.24	37.25
FERR12	132	32.73	11.24	10.55	26.45	39.97	14.55	13.07	33.65
FERR13	132	10.77	3.98	3.4	9.02	11.36	4.2	3.59	9.54
FERR21	275	72.03	25.69	20.01	56.35	76.5	28.62	20.72	61.19
FERR22	275	77.7	27.47	24.87	63.72	84.03	30.93	26.36	70.1
FERR23	275	85.45	29.88	25.5	67.76	93.89	34.65	27.31	76.31
FERR2A	275	85.52	29.92	25.57	67.88	93.64	34.58	27.09	75.99
FERR2B	275	71.52	25.53	19.74	55.85	75.56	28.34	19.81	59.89
FERR4A	400	91.16	32.43	23.97	69.83	81.37	30.65	20.59	63.94
FFES21	275	37.07	13.75	7.56	27.01	36.26	14.26	6.38	26.55
FFES22	275	34.82	13.15	5.85	24.44	33.35	13.35	4.44	23.32
FIDF21	275	68.26	23.09	24.17	56.81	72.84	26.17	25.31	62.32
FIDF22	275	68.21	23.29	23.87	56.8	71.51	25.86	24.44	61.01
FIDF23	275	85.59	28.93	25.92	66.84	87.38	31.83	26.76	71.77
FIDF24	275	86.24	29.04	26.28	67.34	88.97	32.32	27.48	73.19
FLEE40	400	107.88	37.74	24.13	77.51	92.15	35.39	19.69	69.74
FORD4A	400	39.78	14.87	8.87	29.89	31.45	12.3	5.85	23.25
FORD4B	400	51.9	19.5	11.05	38.64	41.19	16.37	6.64	29.78
FOUR20	275	44.34	17.5	5.06	29.81	35.78	14.92	3.2	24.3
FROD2A	275	66.43	22.78	23.21	55.43	69.42	25.24	22.61	58.31
FROD2B	275	65.71	22.39	23.16	54.83	68.29	24.76	22.34	57.35
FROD40	400	106.39	36.34	30.55	81.93	93.59	34.79	25.57	74.77
GRAI41	400	161.48	56.46	49.94	129.8	175.24	64.26	56.53	147.4
GRAI42	400	140.08	49.53	36.93	106.99	139.06	52.1	36.4	110.08
GREN11	132	42.3	16.08	12.16	34.9	48.86	19.35	13.52	40.88
GREN12	132	44.21	16.37	12.89	36.04	50.95	19.89	14.02	42.15
GREN40	400	86.5	32.64	14.35	60.51	56.29	22.8	9.36	41.6
GRIW40	400	80.77	29.21	21.26	62.57	67.92	26.16	13.7	50.7
GRST21	275	95.84	33.39	29.57	76.79	105.32	38.55	31.48	86
GRST22	275	96.18	33.5	29.76	77.13	106.03	38.78	31.92	86.77
GRTO2A	275	58.7	21.31	12.59	42.73	56.99	22.8	8.33	40.58
GRTO2B	275	58.76	21.33	12.64	42.8	57.11	22.82	8.42	40.7
GWYN40	400	90.51	31.97	21.4	66.62	77.16	29.89	14.23	56.5
HACK2A	275	65.8	24.06	17.96	51.98	67.95	25.88	16.75	53.36
HACK2B	275	65.31	23.84	17.9	51.61	64.27	24.51	16.07	50.73
HACK40	400	122.39	42.86	28.21	88.82	121.74	48.35	21.3	89.68
HAKB4A	400	53.44	20.33	9.19	37.93	41.32	16.38	7.3	30.46
HAKB4B	400	54.11	20.58	9.3	38.41	42.86	16.97	7.76	31.75
HAMB4A	400	76.92	27.69	17.9	57.06	61.73	24.27	10.04	44.36
HAMB4B	400	76.92	27.69	17.9	57.06	61.59	24.21	10.01	44.25
HAMH11	132	28.23	9.73	10.57	24.33	34.97	12.66	12.4	30.3
HAMH12	132	28.3	9.73	10.39	24.14	29.5	10.7	10.21	25.34
HAMH20	275	81.48	28.87	18.3	59.13	77	29.68	14.65	56.62
HAMH2A	275	70.47	25.18	18.57	54.18	69.09	26.16	16.37	53.37
HAMH40	400	81.61	29.79	15.52	57.65	72.57	28.28	13.03	53.02
HAMH4A	400	80.08	29.22	15.53	56.85	71.36	27.76	13.05	52.3
HARK11	132	35.96	11.59	8.44	24.83	40.78	15.11	9.53	30.89
HARK12	132	33.07	11.26	8.32	24.24	37.07	14	9.28	29.08
HARK13	132	27.51	11.44	6.08	22.26	26.05	10.43	6.31	21.06
HARK21	275	46.89	17.32	11.64	36.14	50.11	19.1	12.71	39.72
HARK22	275	48.73	18.08	11.81	37.38	52.79	20.17	13.04	41.58
HARK40	400	63.52	23.82	11.47	45.16	53.3	20.72	11.69	41
HARM20	275	67.16	24.47	12.72	47.33	57.79	22.75	8.99	41.16
HATL20	275	93.13	32.38	23.6	69.39	91.08	34.19	23.56	71.91
HAWP20	275	83.94	29.91	18.97	61.27	76.04	29.36	14.57	56.09

HAWP4A	400	56.45	20.67	12.72	41.94	46.38	17.91	9.67	35
HEDO20	275	100.35	35.44	29.53	79.65	105.48	39.15	29.77	85.14
HEDO4A	400	58.51	21.9	13.24	44.22	56.45	21.75	15.82	46.58
HEDO4B	400	58.5	21.9	13.23	44.2	56.44	21.75	15.81	46.57
HEYS40	400	104.84	36.4	28.07	79.54	107.62	39.74	30.78	86.98
HIGM20	275	71	25.95	19.82	56.52	66.15	25.46	15.75	51.76
HIGM2A	275	46.01	16.72	15.15	38.79	46.1	17.29	13.13	37.57
HIGM40	400	86.31	32.14	19.3	64.75	69.65	27.43	12.21	51
HIGM4A	400	67.15	24.96	17.08	52.39	55.67	21.63	11.72	42.31
HINP21	275	23.95	8.54	8.17	20.26	26.32	9.65	8.9	22.54
HINP22	275	23.98	8.57	8.1	20.22	26.75	9.82	8.94	22.82
HINP40	400	71.79	25.24	17.33	53.02	71.1	26.63	19.14	56.8
HIRN40	400	70.33	25.49	16.7	52.75	52.12	20.49	8.41	37.38
HUMR40	400	128.67	45.03	38.9	102.58	130.13	48.01	39.03	106.93
HURS20	275	72.9	26.11	18.34	55.26	73.76	30.14	15.08	57.71
HUTT40	400	74.04	26.96	16.09	54.21	51.23	20.53	7.93	36.95
IMPP40	400	60.46	22.27	13.41	44.9	50.14	19.36	10.43	37.8
INDQ40	400	35.24	12.45	6.73	24.33	36.27	13.78	7.39	26.88
IROA11	132	61.07	21.69	16.92	47.59	73.02	27.3	18.99	57.6
IROA12	132	61.26	21.71	16.77	47.47	72.02	26.88	18.83	56.84
IROA20	275	66.37	24.29	13.76	48.11	61.43	23.88	12.29	46.05
IROA2A	275	65.68	24.03	13.75	47.73	60.83	23.62	12.28	45.69
IROA2B	275	65.68	24.03	13.75	47.73	60.83	23.62	12.28	45.69
IRON11	132	27.11	7.6	7	17.75	32.71	10.72	9.17	24.33
IRON12	132	14.69	5.33	5.44	12.99	19.49	7.09	7.28	17.31
IRON40	400	91.21	32.52	20.22	66.22	86.3	32.83	20.08	66.51
IVER21	275	70.83	25.73	17.32	53.71	73.25	27.9	17.54	56.99
IVER22	275	67.5	24.51	15.46	50.13	64.71	25.08	13.63	49.1
IVER2A	275	46.91	17.29	11.76	36.21	46.27	17.86	10.91	36.17
IVER4A	400	49.43	18.43	11.4	37.46	45.31	17.43	10.74	35.39
IVER4B	400	46.69	17.6	10.33	35.21	42.25	16.39	9.76	32.94
JORD20	275	52.01	19.37	9.49	36.88	52.39	21.58	8.11	38.63
KEAD41	400	122.19	44.03	32.9	95.16	105.11	40.05	24.36	81
KEAD42	400	126.09	45.27	33.12	97.14	108	41.21	24.91	83.18
KEAD43	400	99.63	36.7	23.58	75.49	80.09	31.25	15.02	59.22
KEAD4A	400	121.26	43.75	32.04	93.91	96.35	37.35	17.9	70.71
KEAD4B	400	126.99	45.68	33.12	97.72	99.87	38.76	18.38	73.2
KEAD4C	400	89.15	32.32	26.01	71.71	77.1	29.19	20.76	62.05
KEAD4D	400	89.15	32.32	26.01	71.71	77.1	29.19	20.76	62.05
KEAP41	400	117.05	42.33	30.84	90.71	100.36	38.48	22.09	76.52
KEAP42	400	123.02	44.29	31.68	94.32	105.03	40.15	23.93	80.71
KEAR20	275	76.47	26.75	21.13	58.96	83.73	31.08	22.47	66.42
KEAR40	400	96.57	35.11	18.85	68.5	85.17	32.82	18.01	64.42
KEAR4A	400	89.74	33.11	16.2	63.03	70.36	27.74	12.83	52.05
KEMS40	400	164.05	57.48	44.27	125.55	138.56	53.54	25.99	101.71
KEMS4A	400	93.67	33.3	29.81	76.9	83.56	31.54	21.72	66.33
KEMS4B	400	95.21	33.88	30.05	77.96	84.46	31.9	21.79	66.91
KIBY21	275	87.42	29.6	23.6	65.46	87.91	33.22	18.9	65.88
KIBY22	275	76.9	26.61	19.96	57.6	71.2	26.91	15.76	53.82
KILL40	400	138.49	48.12	42.69	110.74	144.85	53.07	43.91	118.97
KINO10	132	37.48	12.51	12.23	29.92	47.5	16.76	15.99	39.7
KINO41	400	140.04	48.93	42.34	111.54	136.45	50.6	39.77	111.33
KINO42	400	141.4	49.11	42.22	111.68	141.44	52.16	42.09	115.86
KIRK20	275	60.6	21.94	13.88	44.91	57.47	22.5	11.03	42.85
KIRK2A	275	61.99	22.29	14.48	46	57.78	23.04	10.99	43.58

KITW20	275	69.26	24.85	12.98	48.13	68.54	26.72	11.6	49.39
KNAR20	275	30.85	12.57	2.6	20.37	25.04	10.45	2.88	17.65
LACK20	275	62.65	22.15	17.09	48.41	64.35	23.98	18.08	51.99
LACK2A	275	91.83	32.21	27.36	72.91	101.66	37.35	29.43	82.24
LACK2B	275	97.23	33.82	30.38	78.21	108.93	39.67	33.79	89.89
LACK2C	275	93.22	32.63	28.08	74.23	103.2	37.88	30.11	83.67
LACK40	400	108.95	38.87	25.78	80.75	107.38	40.14	27.9	84.67
LALE20	275	63.17	22.61	17.45	49.43	68.72	26.75	16.26	54.09
LAND41	400	34.14	12.16	6.57	23.77	33.76	12.98	6.1	24.45
LAND42	400	34.23	12.19	6.6	23.84	33.73	12.97	6.07	24.41
LAND4A	400	33.96	12.09	6.6	23.71	33.47	12.86	6.08	24.26
LANG40	400	43.05	14.9	9.65	30.72	46.55	17.26	12.04	36.44
LEGA40	400	101.89	35.98	23.51	74.39	76.79	30.22	13.34	56.07
LEGA4A	400	68.05	24.36	19.17	53.62	55.03	21.19	12.41	42.39
LEGA4B	400	68.1	24.37	19.18	53.64	55.1	21.22	12.42	42.43
LEIB4A	400	78.96	29.35	16.77	58.28	58.17	22.92	9.62	42.04
LEIB4B	400	109.41	40.23	22.52	79.42	77.84	30.95	11.66	55.43
LISD20	275	80.13	27.43	20.45	59.24	80.95	31.13	17.05	61.07
LISD2A	275	51.02	17.76	16.07	41.18	52.99	19.97	13.69	41.93
LITB40	400	83.14	30.28	19.32	62.15	64.82	25.1	15.62	51.12
LITT11	132	20.87	7.32	8.35	18.69	27.55	9.98	10.35	24.46
LITT13	132	33.38	11.88	12.54	29.35	42.71	15.46	16.36	38.22
LITT2A	275	61.38	22.37	15.13	46.78	59.86	24.01	13.99	47.95
LITT2B	275	61.24	22.34	14.96	46.55	60.71	24.23	14.48	48.75
LITT41	400	96.91	35.57	19.93	70.23	91.54	35.54	19.9	70.17
LITT42	400	96.6	35.51	20.18	70.39	94.92	36.39	22.57	74.03
LITT4A	400	88.97	32.97	17.55	64.18	75.23	29.83	11.96	54.15
LITT4B	400	91.97	34	18.74	66.82	79.11	31.21	12.96	57.1
LODR6M	66	19.48	7.12	6.69	16.76	2.26	1.56	0	2.21
LOVE40	400	103.5	35.36	25.55	75.55	93.4	35.56	18.59	68.88
MACC20	275	54.77	20.3	13.76	42.48	52.57	20.27	11.87	40.55
MACC40	400	88.02	32.63	16.64	62.79	65.93	26.38	9.87	47.17
MAGA20	275	63.16	23.32	13.56	46.54	55.39	21.67	10.69	41.34
MANN40	400	59.71	21.02	13.48	43.21	55.38	21.06	11.97	41.76
MAWO40	400	71.61	24.8	18.95	54.03	74.36	27.44	21.08	59.9
MEDW40	400	119.88	43.16	28.06	89.09	113.74	43.35	25.88	87.19
MELK10	132	43.5	15.26	16.2	37.78	57.16	20.67	19.73	48.97
MELK2A	275	47.51	17.54	13.81	38.62	46.62	17.7	12.59	37.63
MELK2B	275	46.17	17.08	13.18	37.34	46.66	17.74	12.46	37.54
MELK40	400	115.77	41.66	23.61	82.52	92.32	36.2	16.56	67.75
MILH11	132	24.22	8.55	8.33	20.43	30.5	11.17	10.04	25.85
MILH12	132	24.54	8.8	7.49	19.93	30.92	11.47	9.11	25.33
MILH2A	275	44	16.56	6.99	30.41	44.08	18.09	6.69	32.26
MILH2B	275	43.96	16.55	6.98	30.38	44.03	18.07	6.67	32.23
MITY40	400	88.16	32.75	15.74	62.06	63.33	25.48	9.19	45.22
MOEL4A	400	90.56	31.99	21.42	66.66	76.98	29.84	14.06	56.26
MOEL4B	400	90.49	31.97	21.4	66.61	76.92	29.81	14.05	56.21
MONF21	275	87.68	30.78	27.39	70.92	93.26	34.63	25.92	74.89
MONF22	275	79.34	28.17	24.74	64.58	81.63	30.45	22.81	65.87
MONF40	400	103.46	36.72	26.79	78.72	91.91	34.76	21.25	70.42
MONF4A	400	89.97	32.18	23.09	68.6	79.05	29.96	18.16	60.53
NECH20	275	88.23	30.9	22.66	66.36	86.16	33.1	17.16	63.97
NEEP20	275	61.55	22.39	13.84	45.51	67.35	26.54	12.65	50.19
NEEP4A	400	49.87	18.68	10.23	36.65	44.59	17.6	8.25	33.14
NEWX20	275	80	28.45	19.3	59.53	84.94	34.25	15.8	64.23

NFLE11	132	39.09	12.66	13.05	30.96	47.88	17.17	15.03	39.32
NFLE12	132	32.56	11.97	11.54	28.47	35.65	13.26	12.1	30.85
NFLE40	400	139.84	49.43	34.09	104	105.4	41.47	18.23	76.87
NHYD2A	275	48	18.41	7.49	33.53	40.12	19.06	3.06	30.02
NHYD2B	275	46.58	17.82	7.07	32.27	39.57	18	5.39	30.85
NHYD60	66	40.48	13.63	12.48	31.75	54.67	19.96	15.58	43.81
NINF40	400	66.42	23.73	15.83	49.39	58.51	22.49	13.08	44.89
NORL2A	275	53.8	19.92	10.42	38.6	54.56	22.55	7.39	39.29
NORL2B	275	52.73	19.62	9.63	37.37	53.09	22.24	6.62	38.08
NORT20	275	92.89	32.37	24.94	70.72	97.45	36.35	24.75	76.15
NORT40	400	110.92	39.52	23.76	79.66	107.48	41.2	22.86	81.12
NORW40	400	72.91	26.54	16.95	54.48	64.3	24.68	14.33	49.23
NURS40	400	67.96	23.74	17.32	50.89	67.7	25.29	16.49	52.26
NURS4A	400	56.31	20.13	12.88	41.35	51.24	19.45	11.33	38.84
OCKH10	132	27.3	9.58	9.14	22.69	33.02	12.02	10.67	27.66
OCKH20	275	67.58	24.39	13.08	47.57	68.49	26.57	12.31	49.89
OCKH2A	275	57.47	20.8	12.77	42.18	56.8	21.9	12.05	43.02
OFFE20	275	73.83	26.86	13.37	51.35	64.2	25.25	10.49	46.2
OLDB20	275	57.55	21.05	10.86	40.63	58.74	22.86	10.54	42.87
OLDB2A	275	57.03	20.85	10.87	40.35	58.19	22.63	10.54	42.55
OLDB4A	400	38.26	14.41	7.21	27.59	34.49	13.5	6.6	25.7
OLDS11	132	46.17	16.35	10.47	33.59	47.08	17.82	10.74	35.94
OLDS12	132	45.14	16.24	10.47	33.43	48.8	18.55	11.19	37.42
OSBA41	400	79.83	29.53	17.73	59.49	56.66	22.36	9.22	40.85
OSBA42	400	79.24	29.34	17.66	59.15	54.71	21.63	8.85	39.44
PADI10	132	29.02	9.9	10.16	24.17	35.57	12.79	11.54	29.62
PADI40	400	87.13	31.8	17.92	62.9	62.87	25	9.44	44.79
PAFB4A	400	57.36	21.99	9.45	40.55	37.11	15.3	3.64	25.28
PAFB4B	400	57.47	22.03	9.48	40.63	37.19	15.33	3.65	25.33
PELH40	400	151.07	53.8	37.79	113.88	117.29	45.57	22.68	87.13
PEMB10	132	29.25	10.38	10.03	24.71	36.79	13.51	12	31.11
PEMB40	400	61.52	21.77	16.92	47.71	68.03	25.19	18.46	54.08
PENN20	275	74.5	26.69	17.02	54.77	76.89	29.35	16.57	58.08
PENN2A	275	73.62	26.37	16.98	54.28	75.95	28.96	16.54	57.5
PENN4A	400	47.96	17.93	9.48	34.84	41.75	16.3	8.59	31.64
PENN4B	400	50.15	18.74	9.71	36.22	45.59	17.78	9.1	34.24
PENT40	400	81.93	27.83	23.07	62.42	85.64	31.64	22.39	67.14
PEWO21	275	71.67	25.5	21.32	57.38	71.02	26.71	18.43	56.21
PEWO22	275	72.41	25.73	21.88	58.27	67.98	25.49	18.47	54.52
PEWO2A	275	72.75	25.84	22.04	58.58	68.29	25.58	18.76	54.93
PEWO2B	275	73.45	26.06	22.23	59.09	73.95	27.69	20.01	59.18
PEWO40	400	113.48	39.78	26.78	83.04	100.21	38.57	19.76	74.31
PITS20	275	62.98	22.87	13.78	46.13	69.58	27.39	12.65	51.39
POPP20	275	30.09	12.42	1.97	19.54	23.87	10.06	2.68	16.9
PYLE20	275	66.06	24.47	12.92	47.52	56.97	22.48	9.99	41.78
PYLE2A	275	65.36	24.2	12.91	47.13	56.46	22.25	9.99	41.46
PYLE2B	275	65.36	24.2	12.91	47.13	56.46	22.25	9.99	41.46
QUER4A	400	90.83	32.21	22.51	68.06	78.14	30.15	14.51	57.15
QUER4B	400	90.83	32.21	22.51	68.06	78.82	30.38	14.79	57.75
RAIN20	275	102.65	33.98	30.45	78.5	98.86	36.67	23.84	75.7
RASS40	400	57.03	21.02	12.43	42.15	44.61	17.52	7.28	32.06
RATS2A	275	44.15	16.11	13.78	36.56	45.36	16.88	14.41	38.28
RATS41	400	102.14	36.81	23.16	75.22	101.05	38.2	24.28	78.3
RATS42	400	113.52	40.68	26.02	83.54	112.61	42.51	27.3	87.43
RAYL41	400	92.38	33.81	21.43	69.25	71.25	27.83	13.71	53.07

RAYL42	400	95.12	34.9	21.31	70.66	69.4	27.34	12.59	51.25
REBR21	275	68.88	24.91	19.22	54.45	65.99	25.51	13.74	49.82
REBR22	275	69.87	25.31	19.58	55.37	67.19	26.14	13.04	50.01
ROCH20	275	64.5	23.39	14.69	47.77	63.04	24.28	12.74	47.08
ROCH4A	400	32.96	12.35	7.8	25.27	29.26	11.27	6.77	22.71
ROCK40	400	102.34	35.1	28.87	78.51	88.51	33.09	23.39	70.18
RUGE10	132	27.87	9.55	10.09	23.59	31.09	11.08	11.83	27.49
RUGE40	400	72.79	26.3	15.26	52.45	71.11	27.11	16.49	54.82
RYEH40	400	84.56	30.4	22.25	65.24	81.89	30.77	21.78	65.3
RYEH4A	400	76.79	28.15	19.17	58.98	67.96	25.89	16.6	53.22
SAEN20	275	97.34	34.48	28.17	76.93	101.79	37.82	28.51	82
SAES20	275	99.66	35.19	29.27	79.04	104.06	38.6	29.95	84.54
SALH20	275	81.63	28.84	18.91	59.69	77.81	29.76	15.34	57.43
SBAR40	400	63.9	24.16	12.06	46.22	53.06	20.94	9.45	39.07
SEAB40	400	72.87	25.74	18.22	54.61	70.58	26.28	19.77	56.94
SELL40	400	78.92	28.33	18.13	58.19	74.21	28.44	16.72	56.95
SHBA40	400	97.97	34.81	28.17	77.4	94.28	35.23	26.6	76.42
SHEC20	275	56.02	20.63	11.36	40.53	58.73	24.03	8.32	42.31
SHRE4A	400	66.97	24.52	13.67	48.35	53.54	21.17	8.29	38.23
SING40	400	123.37	44.11	29.94	92.32	93.5	36.75	15.54	67.51
SIZE11	132	45.1	16.26	14.69	37.68	55.49	20.42	17.48	46.35
SIZE12	132	45.1	16.26	14.69	37.69	55.52	20.44	17.38	46.29
SIZE40	400	76.38	27.23	20	58.5	79.68	29.56	22.28	64.09
SJOW20	275	45.71	15.93	16.69	39.21	55	19.95	19.58	47.79
SJOW2A	275	74.16	26.44	21.54	58.93	75.56	30.89	19.74	63.42
SJOW2B	275	74.16	26.44	21.54	58.93	75.56	30.89	19.74	63.42
SJOW40	400	125.25	43.94	28.04	90.18	130.8	50.83	28.07	99.95
SKLG20	275	69.21	24.78	15.61	50.66	64.84	25.21	12.37	48.02
SMAN20	275	74.02	27.03	17.68	55.9	76.49	29.56	15	56.8
SPEN40	400	90.42	32.49	18.97	64.92	80.54	31.16	14.91	58.97
SPLN40	400	74.88	27.38	20.82	59.54	64.66	24.6	17.57	52.37
SSHI20	275	69.43	25.5	11.43	47.49	60.73	23.95	10.05	43.92
STAH4A	400	66.53	24.32	14.21	48.6	51.85	20.6	7.8	36.93
STAH4B	400	66.54	24.32	14.21	48.6	51.75	20.56	7.78	36.86
STAL21	275	46.69	17.23	11.25	35.61	46.05	17.63	10.31	35.24
STAL22	275	57.35	21.52	10.38	40.81	50.8	20.06	8.8	37.17
STAL4A	400	34.97	13.07	7.97	26.45	29.44	11.36	6.56	22.63
STAY41	400	76.71	28.35	15.68	55.78	68.4	26.41	15.23	52.58
STAY42	400	68.68	25.56	14.11	50.27	62.31	23.98	14.64	48.56
STAY4A	400	67.98	25.27	14.9	50.63	58.99	22.75	14.12	46.29
STEN10	132	40.08	12.56	10.57	28.34	49.74	17.76	12.69	37.81
STES10	132	35.15	11.88	10.86	27.66	43.75	15.75	12.93	35.21
STEW20	275	98.69	35.35	21.83	71.82	100.32	38.32	21.13	75.32
STEW2A	275	98.48	35.28	21.72	71.62	99.96	38.25	20.7	74.79
STEW40	400	84.39	30.45	17.62	60.68	76.75	29.58	15.37	57.2
STEW4C	400	73.87	26.86	15.83	53.81	62.63	24.42	11.01	45.54
STEW4D	400	73.53	26.76	15.7	53.54	62.24	24.28	10.91	45.24
STSB40	400	62.27	23.02	13.85	46.4	53.97	21.05	10.76	40.53
STSB4A	400	53.74	19.98	12.72	40.97	45.97	17.85	10.03	35.27
STYC10	132	31.19	10.57	11.72	26.67	28.95	10.46	10.88	25.68
SUND41	400	131.43	47.89	26.79	94.52	100.01	39.54	16.67	72.59
SUND42	400	95.87	35.34	20.27	70.25	76.25	29.83	13.94	56.13
SUTB4A	400	105	38.07	27.29	81.13	90.64	34.55	23.72	72.58
SUTB4B	400	115.88	41.82	32.14	91.28	66.68	24	26.51	60.45
SWAN2A	275	28.37	10.31	9.08	23.66	30.92	11.5	9.34	25.6

SWAN2B	275	51.96	18.97	14.99	41.82	49.48	18.72	13.21	39.68
SWAN40	400	66.73	24.02	16.69	50.65	60.98	23.21	13.94	46.76
SWAN4A	400	41.27	15.24	9.51	31.05	35.86	13.71	8.27	27.67
TAUN4A	400	51.68	18.55	10.56	36.79	44.33	17.37	6.94	31.5
TAUN4B	400	52.56	18.84	10.72	37.36	45.79	17.9	7.41	32.72
TEMP21	275	61.77	22.5	13.19	45.01	65.47	25.94	11.81	48.49
TEMP22	275	62.01	22.57	13.3	45.22	66.03	26.15	11.97	48.95
THOB40	400	106.42	38.48	26.83	81.25	102.01	38.31	27.88	82.05
THOM20	275	77.91	27.82	22	61.34	80.39	30.3	21.66	64.52
THOM40	400	115.96	41.22	28.4	86.7	101.9	38.73	23.19	77.96
THOR40	400	104.88	37.81	21.95	75.41	105.67	40.5	23.21	80.49
THTO41	400	125.68	45.55	30.08	94.5	91.93	36.04	15	65.96
THTO42	400	124.83	45.15	29.96	93.81	90.62	35.52	14.79	65.03
THUR20	275	66.78	24.88	11.12	46.31	67.08	26.53	11.07	48.59
THUR2A	275	67.21	25.13	10.45	45.99	63.11	25.34	8.41	44.25
TILB21	275	78.69	27.97	22.74	62.29	82.95	30.79	23.51	67.05
TILB22	275	79.52	28.21	24.36	64.25	84.18	31.16	25.17	69.23
TILB40	400	184.13	63.74	49.7	139.84	157.67	60.32	34.09	119.39
TINP2A	275	61	22.43	14.16	45.88	59.65	23.23	12.54	45.39
TINP2B	275	61	22.43	14.16	45.88	59.66	23.23	12.54	45.39
TODP20	275	64.72	22.99	15.89	48.4	55.85	21.52	11.03	41.46
TOTE21	275	75.84	27.33	21.76	60.41	75.32	28.63	18.01	58.5
TOTE22	275	76.7	27.68	22.03	61.18	77.8	29.61	18.19	60.07
TOTW21	275	44.96	17.02	9.16	33.23	44.22	17.26	8.32	32.73
TOTW22	275	46.36	17.47	9.71	34.42	45.39	17.67	8.79	33.78
TRAW20	275	45.22	16.01	13.6	36.25	48	18.04	11.76	37.27
TRAW40	400	61.04	22.29	12.29	43.81	48.16	19.07	8.38	35.35
TREM20	275	47.51	18.5	6.23	32.4	38.82	15.92	4.54	27.05
TREU4A	400	97.83	34.7	22.48	71.56	77.87	30.52	12.51	55.66
TREU4B	400	99.56	35.28	22.83	72.73	79.48	31.16	12.66	56.72
TYNE20	275	63.97	23.57	10.34	43.67	56.85	22.43	9.23	40.95
TYNE2A	275	61.3	22.85	9.89	42.21	53.03	21.06	8.23	38.01
TYNE50	11	54.69	19.55	19.2	46.85	59.65	21.67	21.96	52.61
UPPB21	275	51.52	19.1	12.32	39.34	49.13	19.04	10.22	37.15
UPPB22	275	51.48	19.12	12.31	39.34	46.38	17.91	10.39	35.72
USKM20	275	84.07	30.09	22.12	64.68	94.72	35.48	25.27	75.44
USKM2A	275	67.37	24.9	14.28	49.5	67.81	26.2	13.67	50.73
USKM2B	275	83.38	29.88	21.72	63.99	92.7	34.84	23.83	73.1
WALH40	400	68.87	25.41	13.37	49.3	50.65	20.09	8.49	36.9
WALP11	132	50.14	17.9	13.5	38.82	54.92	21.11	14.31	44.16
WALP12	132	38.42	14.27	11.02	31.2	42.23	16.38	11.91	35.07
WALP13	132	31.81	12.18	8.42	25.65	34.17	13.55	8.94	28.1
WALP40	400	127.94	45.62	37.9	102.41	110.97	41.82	31.71	90.85
WALX21	275	80.73	29	24.54	65.56	81.93	30.72	22.99	66.44
WALX22	275	79.58	28.68	24.08	64.65	80.62	30.28	22.55	65.38
WALX4A	400	77.81	28.07	20.73	60.43	73.8	27.85	18.81	58.2
WALX4B	400	71.69	26.26	18.47	55.6	64.62	24.57	16.06	50.8
WARL20	275	85.3	30.59	20.23	63.49	71.91	28.09	13.16	52.89
WASF2A	275	64.53	23.05	14.69	47.3	53.2	20.87	8.46	37.98
WASF2B	275	69.07	24.47	15.79	50.39	58.37	23.01	8.75	41.29
WATS21	275	65.76	23.94	15.3	49.16	66.34	25.63	13.42	49.67
WATS22	275	62.6	22.67	12.83	44.89	64.44	25.02	11.57	46.95
WBOL20	275	78.86	28.5	13.75	54.06	68.25	26.8	11.61	49.52
WBUR10	132	32.77	10.78	10.88	26.13	43.52	15.26	14.28	35.85
WBUR41	400	117.52	42.51	33.35	93.46	111.68	41.82	32.61	91.74

WBUR42	400	102.95	37.43	30.11	83.05	103.39	38.51	31.79	86.25
WEAV4A	400	78.45	29.08	14.49	55.61	54.85	22.25	6.05	37.51
WEAV4B	400	79.61	29.46	14.86	56.52	55.66	22.57	6.15	38.07
WHAM40	400	130.17	45.42	30.34	94.57	132.93	51.95	24.55	98.02
WHAM4A	400	117.22	42.12	25.52	85.09	108.64	42.48	19.65	79.72
WHAM4B	400	117.09	42.09	25.36	84.89	108.49	42.45	19.45	79.48
WHGA20	275	67.6	24.2	15.87	50.1	65.11	25.11	12.44	47.95
WHSO20	275	87.49	31.2	23.43	67.54	96.05	36.1	24.28	75.34
WHSO2A	275	62.07	22.47	17.87	49.64	64.3	24.12	18.32	52.43
WHSO2B	275	62.07	22.47	17.87	49.64	64.3	24.12	18.32	52.43
WHSO4A	400	71.04	25.5	18.03	54.09	62.18	23.63	14.76	48.17
WIBA20	275	61.62	22.45	13.08	44.84	66.33	26.62	10.24	47.89
WIEN2A	275	55.08	20.3	9.71	38.41	53.59	21.05	8.79	38.55
WIEN2B	275	58.19	21.1	12.5	42.33	57.13	22.22	11.05	42.46
WILE40	400	113.75	40.93	24.29	82.17	99.8	38.75	18.77	73.57
WILL10	132	54.82	18.58	19.74	46.01	67.53	24.43	23.07	57.62
WILL20	275	41.8	14.96	14.85	36.01	45.11	16.55	14.95	38.35
WIMB11	132	33.68	11.1	11.1	26.8	44.12	15.93	13.79	36.32
WIMB12	132	27.89	10.15	9.56	23.91	33.92	12.5	11.18	28.86
WIMB13	132	22.28	7.79	7.99	19	28.08	10.26	9.5	24.01
WIMB14	132	21.87	7.71	7.88	18.78	27.52	10.05	9.49	23.71
WIMB20	275	87.24	30.85	21.26	64.9	94.74	37.3	19.8	72.55
WIMB2M	275	45.99	17.51	8.73	33.49	42.19	16.75	7.08	30.76
WISD20	275	84.39	29.69	25.46	67.45	92.23	35.66	22.17	72.6
WISD2A	275	64.58	22.96	19.42	51.88	68.96	27.01	17.92	56.13
WISD2B	275	73.72	26.39	20.26	57.59	74.33	30.06	18.86	61.37
WISD60	66	50.54	17.33	17.64	42.14	6.54	4.52	0	6.39
WMEL20	275	75.7	27.15	14.52	52.92	72.53	28.22	14.02	53.92
WTHU41	400	137.92	49.53	29.56	99.61	116.92	45.97	18.15	83.16
WTHU42	400	138.27	49.68	29.85	100.11	117.4	46.13	18.28	83.52
WTHU4A	400	119.22	43.03	25.87	86.72	92.1	36.5	14.78	66.4
WTHU4B	400	119.22	43.03	25.87	86.72	92.1	36.5	14.78	66.4
WWEY21	275	81	29.65	17.71	59.64	81.03	31.27	16.95	61.17
WWEY22	275	67.34	25.09	13.15	48.64	65.14	25.32	12.5	48.31
WWEY2A	275	56.44	20.5	15	43.98	57.26	22.1	13.65	44.9
WWEY4A	400	45.4	17.24	8.35	32.73	39.78	15.6	7.82	29.87
WWEY4B	400	52.52	19.59	11.83	39.53	46.5	18.1	10.5	36.09
WYLF10	132	46.96	14.52	14.13	34.66	58.67	20.38	16.52	45.34
WYLF40	400	53.23	18.5	13.29	39.45	45.18	17.17	9.95	34.23
WYMO40	400	121.24	43.94	27.36	89.49	89.31	35.03	15.62	65.16
YGAR4A	400	57.69	20.98	12.25	41.92	44.86	17.86	6.81	32.06
YWER4A	400	57.28	20.77	12.41	41.77	44.65	17.75	6.53	31.64

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Table D.3.6 - NGET Fault Levels (kA), Winter 2014/15

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	37.32	13.35	7.12	26	34.78	13.42	6.1	25.09
ABHA4B	400	37.29	13.34	7.12	25.98	34.76	13.42	6.1	25.07
ABTH11	132	31.5	12.26	6.95	24.29	37.42	14.55	9.44	30.02
ABTH12	132	52.84	19.45	14.32	41.82	62.62	23.54	18.43	51.71
ABTH13	132	11.8	4.66	1.6	8.19	10.38	3.97	2.35	7.96
ABTH20	275	93.32	33.04	23.91	70.64	99.4	37.12	27.18	79.68
ALDW20	275	63.09	23.15	10.28	43.01	60.9	24.02	10.23	44.2
ALVE40	400	36.83	13.38	6.39	25.31	29.25	11.62	4.1	20.53
AMEM10	132	27.64	9.96	9.87	23.95	33.92	12.5	11.1	28.78
AMEM4A	400	54.73	20.64	10.79	39.98	44.2	17.56	7.18	32
AMEM4B	400	52.38	19.98	9.54	37.8	42.46	16.96	6.71	30.69
AMLW40	400	53.47	18.73	13.85	40.33	44.18	16.81	10.77	34.55
AMLW4A	400	60.14	20.87	15.65	45.17	54.4	20.54	12.37	41.42
AMLW4B	400	60.14	20.87	15.65	45.17	54.4	20.54	12.37	41.42
AXMI10	132	27.87	9.66	9.3	22.97	33.72	12.3	10.48	27.86
AXMI40	400	41.22	14.77	8.9	29.79	34.17	13.24	6.42	25.14
BAGB20	275	63.34	22.9	17.43	49.82	62.6	23.45	18.84	52
BARK10	132	25.26	8.88	9.6	22.16	27.45	9.97	10.08	24.18
BARK21	275	62.2	22.38	18.56	50.21	64.15	24.1	18.1	52.18
BARK22	275	64.83	23.28	19.95	52.87	68.35	25.62	19.5	55.73
BARK40	400	172.7	60	43.21	128.06	160.67	61.39	37.14	123.96
BARP21	275	56.71	20.54	16.05	45.09	56.46	21.45	13.95	44.29
BARP22	275	59.72	21.53	17.65	48.1	61.33	23.18	15.66	48.44
BEDD21	275	67.49	24.9	16.07	51.28	68.87	26.55	15.57	53.12
BEDD22	275	85.3	30.81	18.77	62.34	85.94	33.48	17.41	64.75
BEDD2M	275	17.03	6.21	6.01	14.79	18.03	6.69	5.91	15.38
BEDD4A	400	52.06	19.61	11.51	39.24	44.79	17.74	10.41	35.49
BEDD4B	400	43.55	16.71	8.24	31.87	36.71	14.79	7.43	28.36
BESW20	275	65.14	23.45	12.41	45.58	57.9	22.71	9.95	42.07
BICF10	132	28.34	10.29	10.67	25.22	31.17	11.43	10.85	27.01
BICF4A	400	66.4	24.63	17.18	52.01	46.98	18.5	8.67	34.84
BICF4B	400	63.42	23.45	16.93	50.09	48.72	19.04	9.36	36.28
BIRK20	275	51.91	18.02	16.05	41.53	54.34	20.33	13.91	42.66
BISW20	275	70.46	25.38	13	48.89	65.77	25.95	10.57	47.27
BLYT21	275	74.57	27.13	17.04	55.41	76.57	29.12	18.69	59.87
BLYT22	275	67.94	25.13	15.56	51.09	67.64	25.87	16.52	53.1
BLYT2M	275	28.03	10.04	10.57	24.77	30.9	11.22	11.58	27.44
BLYT40	400	82.34	29.28	20.79	62.2	88.42	32.9	24.12	70.64
BLYT60	66	52.84	17.56	16.54	41.38	30.05	10.9	12.48	27.89
BOLN40	400	69.19	24.58	15.99	50.76	55.2	21.33	11.43	41.6
BOTW40	400	82.83	28.67	20.25	60.79	75.04	28.68	14.84	55.4
BRAI4A	400	64.44	23.93	14.43	48.28	48.55	19.02	8.74	35.64
BRAI4B	400	64.02	23.91	13.95	47.76	45.29	17.86	7.83	33.09

BRAW20	275	72.82	26.24	16.87	53.97	71.25	27.46	14.62	53.45
BRAW4A	400	39.04	14.44	9.51	29.93	34.2	13.1	8.03	26.55
BRED20	275	70.53	25.95	14.76	51.46	69.89	27.24	12.78	51.31
BRFO40	400	90.21	32.37	22.17	67.95	85.68	32.37	21.21	66.99
BRIM10	132	51.72	17.79	20.02	45.18	63.16	22.64	23.86	55.87
BRIM2A	275	76.43	27.66	21.2	60.32	73.81	28.19	16.74	56.61
BRIM2B	275	61.43	22.67	15.23	47.28	60.91	23.36	13.47	46.51
BRIM2C	275	76.52	27.76	21.23	60.49	73.64	28.22	16.25	56.15
BRIM2D	275	59.24	22	14.1	45.21	58.1	22.42	11.95	43.67
BRIN21	275	67.06	24.2	15.12	49.34	72.03	28.07	14.13	53.83
BRIN22	275	71.86	26.01	18.7	55.49	75.07	28.78	18.15	58.85
BRIN2M	275	27.92	10.06	10.59	24.81	28.83	10.59	9.98	24.96
BRIN40	400	79.06	28.93	18.76	59.67	58.92	22.82	13.23	45.5
BRLE40	400	125.07	43.83	28.84	90.82	108.06	41.55	22.16	80.92
BRWA2A	275	19.76	7.24	5.4	15.64	19.87	7.56	4.79	15.49
BRWA2B	275	19.73	7.22	5.44	15.65	19.7	7.49	4.83	15.42
BRWA2C	275	19.7	7.22	5.39	15.59	19.8	7.54	4.78	15.44
BRWE10	132	20.88	7.3	8.74	19.07	6.13	2.24	2.15	5.32
BURW40	400	101.65	36.92	26.27	78.48	64.56	25.84	11.12	47.67
BUSH20	275	63.04	22.83	13.41	45.7	61.14	23.83	10.87	44.57
BUST21	275	72.75	25.87	18.57	55.16	71.57	28.17	15.87	55.71
BUST22	275	71.27	25.43	17.94	53.91	68.6	27.43	14.27	53.05
BUST4A	400	52.88	19.43	12.68	40.16	44.16	17.09	9.77	33.94
BUST4B	400	49.03	17.95	11.57	36.95	41.45	16.1	8.76	31.52
CANT40	400	92.75	33.27	21.73	68.78	70.05	27.68	11.67	50.82
CAPE21	275	54.59	18.93	18.4	45.17	60.03	22.07	18.31	49.52
CAPE22	275	35.16	12.53	12.93	30.65	38.77	14.19	13.12	33.19
CAPE4A	400	97.89	34.25	25.5	73.93	84.64	32.17	18.56	64.05
CAPE4B	400	104	36.03	28.24	79.19	90.96	34.4	20.61	69.27
CARE20	275	54.2	20.37	9.75	38.56	46.82	18.58	8.4	34.67
CARR11	132	28.45	10.43	8.47	23.22	33.38	12.64	9.62	27.5
CARR12	132	51.47	17.7	16.82	41.85	63.54	23.24	20.11	52.98
CARR20	275	81.95	29.42	23.38	64.99	90.86	34.11	24.36	72.6
CARR40	400	129.44	46.11	27.58	92.78	117.48	44.88	26.48	89.95
CARR4A	400	124.57	44.74	25.19	88.46	108.99	42.13	21.71	81.29
CARR4B	400	123.66	44.54	24.34	87.33	106.17	41.26	20.14	78.49
CARR4H	400	129.76	46.42	26.48	92.13	112.73	43.55	22.51	84.1
CELL11	132	43.93	14.79	14.48	35.4	54.57	19.65	16.65	44.43
CELL12	132	30	10.44	10.34	25.1	35.71	13	11.48	29.87
CELL40	400	100.52	36.76	18.51	70.5	78.38	30.97	14.06	57.86
CHIC41	400	39.16	14.17	8.6	28.64	31.28	12.19	5.81	23.05
CHIC42	400	38.69	13.98	8.54	28.31	29.56	11.56	5.28	21.64
CHSI20	275	93.56	34.08	18.77	66.97	80.87	32.06	13.21	58.55
CHTE20	275	72.62	25.76	18.56	54.99	63.39	24.44	13.58	48.14
CILF2A	275	51.05	18.81	14.3	40.9	45.71	17.4	12.42	37.04
CILF2B	275	50.98	18.77	14.28	40.83	50.87	19.34	13.52	40.88
CILF40	400	91.1	32.52	22.32	68.3	79.63	30.42	17.48	60.5
CITR41	400	126.15	44.24	28.37	90.93	131.49	51.26	22.8	95.29
CITR42	400	126.04	44.2	28.34	90.85	131.27	51.21	22.57	94.99
CLEV40	400	88.47	32.17	21.37	66.87	66.32	26.22	10.5	47.57
COSO40	400	115.17	41.68	26.69	85.63	97.4	37.59	22.38	75.54
COTT40	400	132.53	46.93	35.17	101.53	127.91	47.67	35.81	103.22
COVE20	275	65.52	23.47	13.53	46.72	61.57	23.77	11.95	45.57
COVE2A	275	64.84	23.22	13.52	46.36	60.96	23.51	11.95	45.2
COWB2A	275	71.81	26.4	14.54	51.88	62.31	24.65	9.23	44.09

COWL40	400	135.4	47.85	35.03	102.7	115.36	44.05	24.97	87.26
CREB2A	275	81.91	29.54	25.81	67.59	80.61	30.09	22.98	65.53
CREB2B	275	81.36	29.34	25.74	67.23	80.31	29.97	22.96	65.35
CREB40	400	155.02	55.26	39.68	117.83	125.71	48.42	26.19	94.67
CREB4A	400	151.8	54.29	37.94	114.73	115.59	47.41	14.04	81.09
CREB4B	400	151.72	54.29	37.73	114.51	115.56	47.41	14	81.05
CULJ4A	400	121.07	42.86	32.17	92.79	113.94	42.74	29.02	89.46
DAIN40	400	141.33	50.1	29.92	100.78	126.23	48.38	26.91	95.34
DAMC40	400	137.42	47.93	40.38	108.17	137.98	51.12	39.72	112.01
DEES41	400	122.65	42.23	32.97	92.7	120.41	44.7	32.7	95.92
DEES42	400	114.82	39.98	29.04	85.59	108.75	40.8	27.09	84.79
DIDC41	400	128.79	45.02	36.57	100.24	130.37	47.92	39.72	107.49
DIDC42	400	112.39	38.86	34.29	89.25	113.44	41.37	36.82	95.33
DINO40	400	78.24	26.56	22.74	60.3	83.77	30.7	24.29	67.7
DRAK10	132	38.66	11.44	12.29	28.47	47.19	15.74	15.75	38.01
DRAK2A	275	48.89	17.88	14.51	39.79	51.59	19.32	15.56	42.89
DRAK41	400	112.81	40.38	26.05	83.16	107.72	40.91	26.7	84.55
DRAK42	400	94.08	33.6	20.49	68.02	90.58	34.59	19.85	68.76
DRAX11	132	15.69	5.39	5.63	13.26	19.63	6.99	7.16	17.04
DRAX12	132	15.14	5.2	5.46	12.82	18.99	6.76	6.95	16.51
DRAX41	400	154.98	54.34	44.36	121.2	153.79	56.75	45.41	125.67
DRAX42	400	150.49	52.21	43.33	117.16	149.52	55.01	44.06	121.86
DUBR4A	400	40.65	15.17	9.2	30.65	32.04	12.47	6.06	23.7
DUBR4B	400	51.93	19.5	11.3	38.88	41.53	16.39	7.54	30.71
DUNG20	275	45.9	16.3	15.67	38.73	50.03	18.37	15.96	41.95
DUNG40	400	78	27.7	19.51	58.69	76.23	29.07	17.33	58.45
EALI20	275	63.6	22.66	18.19	50.24	68.53	27.05	13.8	52.05
EALI60	66	60.6	20.75	19.31	48.65	69.9	25.66	20.63	56.92
EASO40	400	87.97	31.99	20.52	65.76	66.97	25.88	14.7	51.31
ECLA10	132	45.29	15.63	16.33	38.44	52.62	19.19	17.63	44.76
ECLA40	400	121.72	44.34	25.46	88.17	93.99	36.98	16.27	68.58
EGGB41	400	113.92	40.75	29.6	87.23	105.59	39.74	26.24	82.44
EGGB42	400	136.44	47.38	37.81	104.82	131.97	49.04	33.83	103.18
ELLA11	132	27.97	9.8	9.13	22.99	33.99	12.54	10.29	28.03
ELLA12	132	28.61	10.04	9.22	23.41	34.24	12.64	10.31	28.19
ELLA20	275	69.72	25.42	13.63	49.58	61.7	24.26	10.48	44.79
ELST11	132	29.99	9.92	10.37	24.4	37.64	13.6	12.37	31.6
ELST12	132	38.65	12.63	12.02	29.88	46.07	16.7	13.5	37.12
ELST1A	132	10.59	3.83	3.33	8.74	12.97	4.82	3.85	10.66
ELST1B	132	10.31	3.75	3.17	8.48	12.63	4.71	3.68	10.34
ELST21	275	70.16	25.28	17.99	53.75	75.97	28.75	19.1	59.76
ELST22	275	64.35	23.19	13.49	46.28	71.66	27.43	14.39	53.18
ELST2A	275	69.37	24.99	17.92	53.27	75.04	28.37	19.02	59.15
ELST2B	275	63.68	22.94	13.47	45.92	70.83	27.09	14.38	52.69
ELST40	400	106.26	38.49	21.37	75.81	113.11	44.37	22.29	85.04
ELST4A	400	106.24	38.49	21.37	75.8	113.05	44.35	22.27	84.98
ELST4B	400	45.54	17.37	8.36	32.93	42.32	16.5	8.39	31.72
ENDE40	400	91.63	33.67	18.87	66.5	61.81	24.71	9.49	44.43
EXET40	400	59.12	20.53	13.06	42.1	55.48	21.12	11.42	41.29
FAWL10	132	50.75	16.22	17.95	40.89	69.34	23.83	24.91	58.61
FAWL40	400	90.35	30.73	23.49	66.95	89.65	33.22	23.4	70.39
FECK20	275	68.45	24.84	15.67	50.8	68.02	26.09	15.9	52.8
FECK40	400	86.43	32.03	15.44	60.74	71.97	28.26	14.14	54.11
FENW4A	400	127.24	45.69	33.47	98.09	111.57	42.57	23.82	84.02
FERR11	132	35.73	12.22	12.34	29.62	43.07	15.57	15.23	37.25

FERR12	132	32.72	11.24	10.55	26.44	39.96	14.55	13.07	33.64
FERR13	132	10.77	3.98	3.4	9.02	11.36	4.2	3.59	9.54
FERR21	275	72.01	25.7	19.99	56.34	76.45	28.61	20.68	61.14
FERR22	275	77.7	27.49	24.84	63.72	83.99	30.92	26.33	70.06
FERR23	275	85.46	29.91	25.48	67.78	93.87	34.65	27.28	76.29
FERR2A	275	85.53	29.94	25.55	67.9	93.62	34.58	27.06	75.97
FERR2B	275	71.5	25.54	19.71	55.84	75.51	28.33	19.78	59.84
FERR4A	400	91.24	32.5	23.93	69.9	81.41	30.68	20.57	63.96
FFES21	275	37.07	13.75	7.56	27.01	36.25	14.26	6.38	26.55
FFES22	275	34.82	13.15	5.85	24.45	33.35	13.35	4.44	23.33
FIDF21	275	68.24	23.08	24.15	56.79	72.81	26.16	25.29	62.29
FIDF22	275	68.19	23.28	23.84	56.77	71.48	25.85	24.41	60.97
FIDF23	275	85.46	28.89	25.86	66.72	87.2	31.77	26.67	71.61
FIDF24	275	86.15	29.01	26.24	67.27	88.87	32.29	27.44	73.11
FLEE40	400	107.91	37.77	24.12	77.53	92.16	35.39	19.68	69.74
FORD4A	400	39.88	14.91	8.87	29.96	31.51	12.33	5.85	23.29
FORD4B	400	51.85	19.49	11.03	38.6	41.16	16.35	6.62	29.75
FOUR20	275	45.31	17.94	5.19	30.56	36.2	15.13	3.2	24.59
FROD2A	275	66.41	22.78	23.19	55.4	69.4	25.23	22.6	58.28
FROD2B	275	65.68	22.38	23.15	54.8	68.27	24.75	22.33	57.32
FROD40	400	106.35	36.34	30.52	81.9	93.56	34.79	25.55	74.74
GRAI41	400	162.82	57.02	50.22	130.86	176.39	64.72	56.8	148.33
GRAI42	400	141.29	50.04	37.14	107.91	139.96	52.46	36.56	110.75
GREN11	132	42.21	16.05	12.13	34.83	48.74	19.31	13.48	40.78
GREN12	132	44.14	16.34	12.87	35.98	50.84	19.85	13.99	42.06
GREN40	400	86.89	32.77	14.52	60.86	56.34	22.81	9.41	41.67
GRIW40	400	80.79	29.23	21.25	62.59	67.92	26.16	13.7	50.7
GRST21	275	100.24	34.82	32.55	81.79	110.18	40.29	33.8	90.77
GRST22	275	100.64	34.94	32.8	82.22	111.08	40.57	34.37	91.75
GRTO2A	275	34.38	12.08	11.14	28.23	37.78	14.31	8.78	29.02
GRTO2B	275	34.4	12.09	11.17	28.27	37.83	14.31	8.85	29.1
GWYN40	400	90.48	31.97	21.39	66.6	77.13	29.88	14.23	56.49
HACK2A	275	65.83	24.07	17.96	52	67.96	25.89	16.75	53.37
HACK2B	275	65.34	23.85	17.91	51.64	64.29	24.52	16.07	50.75
HACK40	400	122.6	42.96	28.22	88.97	121.87	48.42	21.3	89.77
HAKB4A	400	53.16	20.25	9.11	37.74	41.02	16.27	7.23	30.24
HAKB4B	400	53.83	20.5	9.22	38.22	42.57	16.86	7.69	31.53
HAMB4A	400	76.6	27.6	17.76	56.8	61.51	24.19	10	44.2
HAMB4B	400	76.6	27.6	17.76	56.8	61.36	24.13	9.96	44.09
HAMH11	132	28.2	9.72	10.56	24.3	34.94	12.64	12.39	30.27
HAMH12	132	28.27	9.72	10.37	24.12	29.47	10.69	10.19	25.31
HAMH20	275	81.46	28.87	18.3	59.13	76.98	29.67	14.64	56.6
HAMH2A	275	70.45	25.17	18.56	54.16	69.05	26.15	16.36	53.35
HAMH40	400	81.6	29.79	15.52	57.65	72.56	28.27	13.03	53.01
HAMH4A	400	80.07	29.22	15.52	56.84	71.35	27.75	13.04	52.29
HARK11	132	35.73	11.51	8.35	24.62	40.48	14.99	9.42	30.62
HARK12	132	32.82	11.16	8.22	24.01	36.74	13.88	9.16	28.79
HARK13	132	27.06	11.28	5.86	21.82	25.37	10.17	6.07	20.45
HARK21	275	46.71	17.29	11.55	36	49.85	19.01	12.61	39.5
HARK22	275	48.56	18.05	11.71	37.24	52.52	20.09	12.93	41.34
HARK40	400	63.25	23.75	11.39	44.98	52.97	20.6	11.61	40.75
HARM20	275	69.01	25.39	13.37	49.28	59.27	23.36	9.26	42.3
HATL20	275	96.98	34.17	25.99	74.32	95.91	36.02	25.26	76.19
HAWP20	275	87.56	31.41	20.57	65	77.76	30.09	15.06	57.6
HAWP4A	400	59.38	21.79	13.8	44.62	46.97	18.16	9.8	35.47

HEDO20	275	100.38	35.49	29.5	79.69	105.34	39.13	29.69	85.02
HEDO4A	400	58.56	21.95	13.22	44.26	56.41	21.75	15.79	46.55
HEDO4B	400	58.56	21.95	13.21	44.25	56.41	21.75	15.78	46.54
HEYS40	400	104.15	36.22	27.71	78.93	106.59	39.41	30.33	86.06
HIGM20	275	70.96	25.94	19.8	56.48	66.09	25.44	15.73	51.71
HIGM2A	275	45.98	16.71	15.13	38.77	46.06	17.27	13.11	37.54
HIGM40	400	86.26	32.14	19.28	64.72	69.59	27.41	12.2	50.96
HIGM4A	400	67.11	24.96	17.06	52.36	55.62	21.61	11.71	42.28
HINP21	275	23.94	8.54	8.16	20.24	26.31	9.64	8.88	22.51
HINP22	275	23.98	8.56	8.09	20.2	26.74	9.81	8.92	22.79
HINP40	400	71.71	25.23	17.2	52.88	70.67	26.49	18.93	56.39
HIRN40	400	70.31	25.48	16.7	52.74	52.1	20.48	8.4	37.37
HUMR40	400	128.73	45.09	38.86	102.62	130.13	48.03	39	106.92
HURS20	275	72.94	26.12	18.35	55.28	73.92	30.21	15.11	57.83
HUTT40	400	73.58	26.82	15.93	53.86	50.93	20.41	7.88	36.74
IMPP40	400	60.3	22.22	13.37	44.79	50.04	19.32	10.41	37.73
INDQ40	400	35.2	12.43	6.74	24.31	36.19	13.75	7.39	26.83
IROA11	132	61.23	21.86	16.37	47.28	73.24	27.5	18.5	57.38
IROA12	132	61.43	21.89	16.21	47.16	72.26	27.08	18.34	56.64
IROA20	275	65.98	24.67	11.96	46.85	61.28	24.15	11.31	45.47
IROA2A	275	65.3	24.4	11.97	46.48	60.69	23.89	11.31	45.1
IROA2B	275	65.3	24.4	11.97	46.48	60.69	23.89	11.31	45.1
IRON11	132	27.18	7.62	7.03	17.81	32.79	10.75	9.2	24.41
IRON12	132	14.73	5.35	5.45	13.02	19.54	7.11	7.3	17.36
IRON40	400	91.09	32.5	20.12	66.09	85.87	32.69	19.89	66.13
IVER21	275	70.88	25.75	17.33	53.75	73.29	27.91	17.54	57.02
IVER22	275	67.52	24.52	15.46	50.14	64.71	25.08	13.63	49.11
IVER2A	275	46.94	17.3	11.76	36.23	46.31	17.87	10.92	36.19
IVER4A	400	49.45	18.43	11.4	37.47	45.31	17.44	10.74	35.4
IVER4B	400	46.71	17.61	10.33	35.23	42.26	16.4	9.76	32.96
JORD20	275	51.99	19.37	9.48	36.86	52.36	21.58	8.1	38.61
KEAD41	400	122.21	44.09	32.83	95.18	104.82	39.97	24.17	80.69
KEAD42	400	126.08	45.31	33.03	97.11	107.63	41.1	24.68	82.8
KEAD43	400	99.79	36.81	23.54	75.59	80.1	31.27	14.99	59.22
KEAD4A	400	121.37	43.84	32.01	94	96.23	37.32	17.82	70.6
KEAD4B	400	127.09	45.76	33.08	97.8	99.71	38.73	18.29	73.05
KEAD4C	400	89.16	32.34	25.97	71.7	76.94	29.15	20.63	61.85
KEAD4D	400	89.16	32.34	25.97	71.7	76.94	29.15	20.63	61.85
KEAP41	400	117.07	42.39	30.77	90.71	100.06	38.4	21.88	76.19
KEAP42	400	123	44.33	31.59	94.29	104.65	40.04	23.69	80.31
KEAR20	275	78.47	27.59	21.16	60.18	85.39	31.81	22.49	67.47
KEAR40	400	97.08	35.34	18.88	68.86	85.44	32.94	18.03	64.61
KEAR4A	400	89.65	33.11	16.16	62.98	70.26	27.71	12.8	51.98
KEMS40	400	166.3	58.36	44.76	127.29	139.83	54.07	26.14	102.61
KEMS4A	400	94.84	33.78	30.07	77.84	84.28	31.83	21.84	66.86
KEMS4B	400	97.39	34.75	30.47	79.61	85.75	32.43	21.95	67.82
KIBY21	275	87.29	29.56	23.55	65.36	87.79	33.18	18.87	65.79
KIBY22	275	76.78	26.57	19.92	57.5	71.1	26.88	15.73	53.74
KILL40	400	138.56	48.18	42.65	110.79	144.85	53.09	43.87	118.95
KINO10	132	37.47	12.51	12.23	29.92	47.5	16.76	15.99	39.69
KINO41	400	140.7	49.22	42.43	112.03	136.88	50.78	39.82	111.64
KINO42	400	141.81	49.29	42.27	111.99	141.74	52.29	42.13	116.08
KIRK20	275	60.58	21.95	13.87	44.91	57.45	22.5	11.02	42.84
KIRK2A	275	61.98	22.3	14.47	46.01	57.76	23.04	10.99	43.57
KITW20	275	69.27	24.86	12.98	48.14	68.54	26.72	11.6	49.39

KNAR20	275	30.85	12.57	2.6	20.38	25.04	10.45	2.88	17.65
LACK20	275	35.61	12.33	13.34	30.77	40.78	14.73	14.88	35.7
LACK2A	275	96.01	33.58	30.1	77.58	106.68	39.11	31.86	87.18
LACK2B	275	101.85	35.31	33.59	83.53	114.57	41.63	36.8	95.67
LACK2C	275	97.51	34.03	30.93	79.06	108.35	39.69	32.63	88.76
LACK40	400	130.64	45.82	33.55	98.35	132.39	49.61	34.38	104.53
LALE20	275	63.23	22.64	17.46	49.48	68.78	26.77	16.27	54.14
LAND41	400	34.07	12.14	6.56	23.72	33.64	12.93	6.08	24.36
LAND42	400	34.16	12.16	6.59	23.79	33.61	12.92	6.05	24.32
LAND4A	400	33.89	12.07	6.59	23.65	33.34	12.81	6.06	24.17
LANG40	400	43.01	14.88	9.64	30.68	46.4	17.2	11.99	36.32
LEGA40	400	101.83	35.97	23.47	74.34	76.75	30.2	13.33	56.05
LEGA4A	400	68.05	24.36	19.16	53.61	55.03	21.2	12.41	42.39
LEGA4B	400	68.1	24.37	19.16	53.63	55.11	21.22	12.42	42.43
LEIB4A	400	79	29.37	16.78	58.32	58.17	22.92	9.62	42.04
LEIB4B	400	109.46	40.26	22.53	79.47	77.84	30.95	11.65	55.43
LISD20	275	80.01	27.4	20.41	59.16	80.84	31.09	17.02	60.99
LISD2A	275	50.98	17.75	16.05	41.15	52.95	19.96	13.68	41.9
LITB40	400	83.08	30.28	19.29	62.1	64.68	25.06	15.55	50.99
LITT11	132	20.92	7.33	8.36	18.73	27.6	10	10.37	24.51
LITT13	132	33.43	11.9	12.56	29.38	42.76	15.48	16.37	38.26
LITT2A	275	61.47	22.41	15.15	46.84	60.02	24.07	14.03	48.07
LITT2B	275	61.34	22.37	14.98	46.62	60.87	24.29	14.51	48.87
LITT41	400	97.2	35.7	19.93	70.42	91.73	35.63	19.91	70.3
LITT42	400	96.87	35.64	20.17	70.58	95.09	36.47	22.57	74.15
LITT4A	400	89.28	33.11	17.56	64.39	75.42	29.92	11.96	54.28
LITT4B	400	92.28	34.14	18.74	67.03	79.28	31.29	12.96	57.22
LODR6M	66	19.48	7.12	6.69	16.76	2.26	1.56	0	2.21
LOVE40	400	103.53	35.38	25.52	75.55	93.39	35.56	18.58	68.86
MACC20	275	54.68	20.28	13.73	42.42	52.49	20.25	11.85	40.49
MACC40	400	87.89	32.6	16.61	62.71	65.82	26.34	9.85	47.1
MAGA20	275	63.16	23.33	13.57	46.56	55.39	21.67	10.7	41.35
MANN40	400	59.6	20.98	13.44	43.12	55.25	21.01	11.94	41.66
MAWO40	400	71.59	24.8	18.92	54	74.27	27.42	21.03	59.8
MEDW40	400	120.76	43.53	28.16	89.72	114.36	43.61	25.97	87.65
MELK10	132	43.47	15.25	16.18	37.74	57.13	20.66	19.7	48.92
MELK2A	275	47.49	17.61	13.73	38.64	46.64	17.77	12.56	37.69
MELK2B	275	46.16	17.16	13.1	37.37	46.68	17.8	12.42	37.6
MELK40	400	115.75	41.69	23.43	82.39	92.29	36.2	16.5	67.7
MILH11	132	24.19	8.54	8.32	20.4	30.46	11.16	10.03	25.81
MILH12	132	24.5	8.79	7.48	19.91	30.88	11.45	9.1	25.29
MILH2A	275	44	16.57	6.99	30.41	44.07	18.08	6.68	32.26
MILH2B	275	43.96	16.55	6.97	30.39	44.03	18.07	6.67	32.22
MITY40	400	88.16	32.77	15.69	62.03	63.33	25.49	9.17	45.22
MOEL4A	400	90.53	31.99	21.41	66.64	76.96	29.83	14.06	56.24
MOEL4B	400	90.47	31.97	21.38	66.59	76.89	29.81	14.04	56.2
MONF21	275	87.69	30.81	27.38	70.95	93.26	34.63	25.91	74.89
MONF22	275	79.34	28.19	24.71	64.58	81.61	30.45	22.79	65.85
MONF40	400	103.56	36.81	26.75	78.81	91.92	34.78	21.23	70.42
MONF4A	400	90.06	32.26	23.06	68.68	79.07	29.98	18.14	60.54
NECH20	275	88.22	30.9	22.65	66.35	86.13	33.09	17.15	63.95
NEEP20	275	61.53	22.4	13.83	45.5	67.33	26.54	12.64	50.18
NEEP4A	400	49.9	18.71	10.21	36.66	44.61	17.61	8.24	33.14
NEWX20	275	79.95	28.43	19.28	59.49	85.01	34.28	15.78	64.25
NFLE11	132	39.1	12.66	13.05	30.96	47.89	17.17	15.03	39.32

NFLE12	132	32.56	11.97	11.53	28.47	35.65	13.26	12.09	30.84
NFLE40	400	140.26	49.63	34.1	104.29	105.56	41.55	18.22	76.98
NHYD2A	275	48.03	18.42	7.5	33.55	40.14	19.07	3.07	30.04
NHYD2B	275	46.58	17.83	7.07	32.28	39.56	18	5.39	30.85
NHYD60	66	40.52	13.64	12.49	31.78	54.71	19.97	15.59	43.84
NINF40	400	66.7	23.86	15.83	49.57	58.66	22.56	13.08	44.98
NORL2A	275	53.77	19.92	10.41	38.58	54.54	22.55	7.39	39.27
NORL2B	275	52.7	19.61	9.61	37.35	53.06	22.24	6.62	38.07
NORT20	275	96.4	33.85	26.81	74.68	97.04	36.42	23.97	75.48
NORT40	400	126.4	44.89	28.76	92.25	107.75	41.63	20.75	79.63
NORW40	400	72.86	26.53	16.92	54.44	64.27	24.67	14.32	49.21
NURS40	400	67.95	23.74	17.3	50.87	67.65	25.28	16.47	52.22
NURS4A	400	56.25	20.11	12.86	41.29	51.16	19.42	11.31	38.78
OCKH10	132	27.28	9.58	9.13	22.67	33	12.01	10.66	27.65
OCKH20	275	67.59	24.4	13.07	47.57	68.48	26.57	12.31	49.88
OCKH2A	275	57.48	20.8	12.77	42.19	56.8	21.9	12.05	43.03
OFFE20	275	77.19	28.23	14.61	54.54	65.97	25.99	10.97	47.73
OLDB20	275	57.55	21.05	10.86	40.63	58.74	22.86	10.54	42.87
OLDB2A	275	57.02	20.85	10.86	40.35	58.19	22.63	10.54	42.54
OLDB4A	400	38.24	14.4	7.2	27.57	34.47	13.49	6.6	25.68
OLDS11	132	46.24	16.43	10.3	33.53	47.14	17.89	10.62	35.91
OLDS12	132	45.21	16.32	10.3	33.38	48.86	18.62	11.06	37.39
OSBA41	400	80.86	29.97	17.97	60.36	56.79	22.43	9.21	40.93
OSBA42	400	80.2	29.76	17.9	59.98	54.79	21.68	8.83	39.49
PADI10	132	28.92	9.87	10.12	24.08	35.45	12.74	11.5	29.52
PADI40	400	87.1	31.83	17.88	62.88	62.81	24.98	9.42	44.75
PAFB4A	400	57.35	21.99	9.45	40.55	37.11	15.3	3.64	25.27
PAFB4B	400	57.47	22.03	9.48	40.63	37.19	15.33	3.65	25.33
PELH40	400	151.15	53.86	37.78	113.94	117.31	45.59	22.68	87.15
PEMB10	132	29.24	10.38	10.03	24.7	36.78	13.51	12	31.1
PEMB40	400	61.51	21.77	16.92	47.7	68.01	25.18	18.45	54.07
PENN20	275	74.53	26.72	17.01	54.79	76.9	29.36	16.56	58.08
PENN2A	275	73.65	26.4	16.97	54.3	75.96	28.97	16.53	57.5
PENN4A	400	48	17.95	9.48	34.86	41.77	16.31	8.59	31.66
PENN4B	400	50.19	18.76	9.71	36.24	45.62	17.79	9.1	34.26
PENT40	400	81.92	27.83	23.06	62.42	85.63	31.64	22.38	67.13
PEWO21	275	71.49	25.45	21.23	57.22	70.86	26.66	18.37	56.07
PEWO22	275	72.23	25.68	21.79	58.11	67.83	25.44	18.41	54.39
PEWO2A	275	72.57	25.79	21.95	58.41	68.13	25.52	18.7	54.79
PEWO2B	275	73.27	26.01	22.14	58.92	73.78	27.63	19.95	59.03
PEWO40	400	112.97	39.65	26.56	82.63	99.82	38.44	19.66	74.01
PITS20	275	62.97	22.87	13.76	46.11	69.57	27.39	12.64	51.39
POPP20	275	30.09	12.43	1.97	19.55	23.87	10.06	2.68	16.91
PYLE20	275	66.05	24.48	12.93	47.55	56.97	22.49	10	41.8
PYLE2A	275	65.36	24.21	12.93	47.17	56.46	22.26	10	41.48
PYLE2B	275	65.36	24.21	12.93	47.17	56.46	22.26	10	41.48
QUER4A	400	90.32	32.07	22.27	67.62	77.66	29.98	14.41	56.8
QUER4B	400	90.32	32.07	22.27	67.62	78.33	30.21	14.69	57.4
RAIN20	275	102.5	33.93	30.39	78.37	98.73	36.62	23.8	75.6
RASS40	400	57.01	21.01	12.42	42.14	44.58	17.51	7.28	32.05
RATS2A	275	44.13	16.11	13.77	36.55	45.34	16.87	14.4	38.25
RATS41	400	102.06	36.8	23.12	75.17	100.91	38.16	24.22	78.19
RATS42	400	113.46	40.67	25.98	83.5	112.48	42.47	27.25	87.32
RAYL41	400	92.52	33.88	21.44	69.35	71.32	27.87	13.71	53.12
RAYL42	400	95.27	34.98	21.31	70.77	69.46	27.37	12.59	51.29

REBR21	275	68.91	24.93	19.23	54.48	66.01	25.53	13.74	49.84
REBR22	275	69.9	25.32	19.58	55.39	67.21	26.15	13.04	50.02
ROCH20	275	68.33	24.89	14.99	50.2	68	26.2	13.65	50.7
ROCH4A	400	38.54	14.34	8.94	29.22	35.72	13.73	8.1	27.52
ROCK40	400	102.31	35.1	28.85	78.49	88.48	33.08	23.38	70.16
RUGE10	132	27.86	9.55	10.08	23.58	31.08	11.07	11.83	27.48
RUGE40	400	72.79	26.3	15.26	52.45	71.14	27.12	16.5	54.84
RYEH40	400	84.58	30.42	22.24	65.26	81.88	30.78	21.77	65.29
RYEH4A	400	76.81	28.17	19.17	59	67.96	25.9	16.59	53.22
SAEN20	275	97.36	34.53	28.13	76.96	101.66	37.79	28.43	81.87
SAES20	275	99.68	35.24	29.23	79.07	103.88	38.57	29.83	84.37
SALH20	275	83.59	29.93	19.35	61.68	81.54	31.13	16.83	60.85
SALH2A	275	77.89	27.94	21.56	61.07	77.04	28.99	20.09	61.08
SALH40	400	128.97	45.55	31.01	95.43	125.74	47.89	27.4	95.12
SBAR40	400	63.86	24.15	12.05	46.2	53.02	20.93	9.44	39.04
SEAB40	400	72.88	25.76	18.2	54.62	70.44	26.24	19.7	56.81
SELL40	400	80.01	28.79	18.22	58.94	74.88	28.73	16.78	57.41
SHBA40	400	98	34.84	28.15	77.42	94.29	35.24	26.59	76.42
SHEC20	275	56	20.63	11.35	40.52	58.71	24.03	8.32	42.3
SHRE4A	400	66.96	24.53	13.64	48.33	53.48	21.15	8.28	38.2
SING40	400	123.74	44.29	29.95	92.59	93.65	36.82	15.53	67.61
SIZE11	132	45.1	16.26	14.69	37.68	55.5	20.42	17.48	46.36
SIZE12	132	45.1	16.26	14.7	37.69	55.52	20.44	17.38	46.29
SIZE40	400	76.41	27.24	20	58.53	79.71	29.58	22.28	64.11
SJOW20	275	45.71	15.93	16.69	39.22	55	19.95	19.58	47.8
SJOW2A	275	74.25	26.47	21.56	58.99	75.66	30.93	19.76	63.5
SJOW2B	275	74.25	26.47	21.56	58.99	75.66	30.93	19.76	63.5
SJOW40	400	125.46	44.04	28.04	90.33	130.95	50.9	28.07	100.05
SKLG20	275	69.21	24.8	15.6	50.67	64.83	25.21	12.37	48.02
SMAN20	275	73.96	27.02	17.65	55.86	76.41	29.54	14.97	56.74
SPEN40	400	101.54	36.42	22.58	74.09	84.28	32.72	15.33	61.61
SPLN40	400	74.75	27.35	20.74	59.42	64.42	24.53	17.47	52.15
SSHI20	275	73.5	27.05	13.04	51.31	63.55	25.06	10.85	46.3
STAH4A	400	66.29	24.25	14.11	48.41	51.68	20.54	7.78	36.82
STAH4B	400	66.29	24.25	14.11	48.41	51.58	20.5	7.76	36.75
STAL21	275	47.37	17.54	11.24	36.04	46.61	17.88	10.29	35.58
STAL22	275	57.31	21.51	10.37	40.79	50.78	20.05	8.79	37.15
STAL4A	400	35.08	13.13	7.98	26.54	29.53	11.4	6.56	22.69
STAY41	400	76.7	28.36	15.66	55.77	68.36	26.4	15.21	52.54
STAY42	400	69.15	25.72	14.27	50.65	62.55	24.07	14.74	48.77
STAY4A	400	67.97	25.27	14.89	50.62	58.96	22.74	14.11	46.26
STEN10	132	39.57	12.37	10.62	28.12	49.09	17.51	12.7	37.45
STES10	132	34.61	11.68	10.92	27.44	43.06	15.48	12.95	34.84
STEW20	275	109.8	39.07	27.31	82.55	110.75	42.12	24.74	84.31
STEW2A	275	109.52	38.98	27.15	82.28	110.3	42.03	24.17	83.61
STEW40	400	100.37	35.83	23.22	73.89	89.05	34.3	18.07	66.58
STEW4C	400	88.4	31.84	20.58	65.61	74.58	29.08	12.8	53.93
STEW4D	400	88.4	31.84	20.58	65.61	74.58	29.08	12.8	53.93
STSB40	400	62.36	23.07	13.83	46.45	54.01	21.08	10.75	40.55
STSB4A	400	53.73	19.98	12.7	40.96	45.96	17.84	10.02	35.25
STYC10	132	31.18	10.57	11.72	26.66	28.93	10.46	10.87	25.66
SUND41	400	131.52	47.95	26.81	94.61	100.02	39.55	16.67	72.6
SUND42	400	95.95	35.38	20.3	70.33	76.26	29.84	13.95	56.14
SUTB4A	400	104.75	38.03	27.11	80.88	90.13	34.38	23.45	72.07
SUTB4B	400	115.62	41.76	31.94	91.01	65.44	23.55	26.08	59.39

SWAN2A	275	28.36	10.31	9.07	23.65	30.91	11.49	9.34	25.59
SWAN2B	275	51.96	18.97	14.99	41.82	49.48	18.72	13.21	39.68
SWAN40	400	66.72	24.02	16.68	50.65	60.96	23.2	13.94	46.76
SWAN4A	400	41.26	15.23	9.5	31.05	35.85	13.71	8.27	27.66
TAUN4A	400	52.52	18.83	10.72	37.35	44.92	17.6	7.02	31.9
TAUN4B	400	53.35	19.1	10.88	37.9	46.27	18.09	7.46	33.04
TEEP40	400	123.21	43.37	31.33	92.66	127.51	47.77	32.42	99.97
TEMP21	275	61.75	22.5	13.17	44.99	65.45	25.94	11.79	48.47
TEMP22	275	61.99	22.57	13.28	45.2	66.01	26.15	11.95	48.93
THOB40	400	106.69	38.64	26.8	81.44	102.15	38.39	27.86	82.15
THOM20	275	77.92	27.84	21.98	61.36	80.37	30.3	21.65	64.5
THOM40	400	116.16	41.36	28.37	86.87	101.95	38.77	23.16	78
THOR40	400	125.38	44.42	29.7	92.53	127.23	48.26	29.38	97.63
THTO41	400	127.69	46.39	30.53	96.13	92.54	36.32	15	66.36
THTO42	400	126.66	45.92	30.41	95.34	91.14	35.76	14.8	65.37
THUR20	275	66.77	24.89	11.11	46.3	67.06	26.53	11.06	48.59
THUR2A	275	67.2	25.14	10.44	45.99	63.09	25.34	8.4	44.23
TILB21	275	78.74	27.99	22.75	62.33	82.98	30.8	23.52	67.08
TILB22	275	79.57	28.24	24.37	64.3	84.22	31.17	25.18	69.27
TILB40	400	184.87	64.07	49.76	140.37	158.06	60.5	34.1	119.66
TINP2A	275	60.98	22.43	14.15	45.87	59.63	23.22	12.53	45.37
TINP2B	275	60.98	22.43	14.15	45.87	59.63	23.23	12.53	45.38
TODP40	400	118.64	41.97	29.24	88.6	111.66	42.7	23.8	84.19
TOTE21	275	75.88	27.35	21.77	60.45	75.34	28.65	18.01	58.52
TOTE22	275	76.73	27.7	22.03	61.21	77.82	29.62	18.19	60.09
TOTW21	275	44.96	17.02	9.15	33.23	44.22	17.26	8.32	32.73
TOTW22	275	46.36	17.48	9.71	34.43	45.39	17.68	8.78	33.78
TRAW20	275	45.22	16.01	13.6	36.25	48	18.04	11.76	37.27
TRAW40	400	61.03	22.29	12.29	43.81	48.15	19.07	8.38	35.34
TREM20	275	47.51	18.55	6.21	32.44	38.84	15.95	4.53	27.09
TREU4A	400	97.78	34.7	22.45	71.53	77.83	30.5	12.5	55.63
TREU4B	400	99.51	35.28	22.8	72.69	79.44	31.15	12.65	56.7
TYNE20	275	67.74	24.99	11.94	47.28	59.83	23.58	10.08	43.42
TYNE2A	275	65.2	24.31	11.59	45.97	56.28	22.29	9.18	40.71
TYNE50	11	54.76	19.58	19.29	46.98	59.71	21.69	22.03	52.71
UPPB21	275	51.51	19.11	12.32	39.35	49.13	19.04	10.22	37.15
UPPB22	275	51.47	19.12	12.31	39.35	46.38	17.91	10.4	35.73
USKM20	275	84	30.25	21.68	64.46	94.97	35.73	25	75.54
USKM2A	275	67.33	25.01	14.02	49.39	67.9	26.33	13.53	50.77
USKM2B	275	83.32	30.04	21.29	63.77	92.92	35.08	23.58	73.19
WALH40	400	68.88	25.41	13.37	49.31	50.65	20.09	8.49	36.9
WALP11	132	48.84	17.43	12.8	37.44	53.18	20.49	13.48	42.46
WALP12	132	37.95	14.06	10.87	30.75	41.73	16.17	11.74	34.61
WALP13	132	30.39	11.69	7.61	24.14	32.22	12.85	8.03	26.21
WALP40	400	127.66	45.56	37.69	102.13	110.56	41.68	31.56	90.51
WALX21	275	80.76	29.02	24.54	65.58	81.95	30.73	22.99	66.45
WALX22	275	79.61	28.7	24.08	64.67	80.63	30.29	22.55	65.39
WALX4A	400	77.83	28.09	20.73	60.46	73.8	27.86	18.81	58.2
WALX4B	400	71.71	26.27	18.47	55.62	64.63	24.57	16.05	50.8
WARL20	275	85.34	30.62	20.23	63.54	71.93	28.1	13.16	52.91
WASF2A	275	64.41	23.02	14.66	47.21	53.11	20.84	8.44	37.91
WASF2B	275	68.95	24.43	15.75	50.3	58.27	22.97	8.73	41.22
WATS21	275	65.77	23.95	15.3	49.17	66.34	25.64	13.41	49.67
WATS22	275	62.61	22.68	12.83	44.9	64.44	25.02	11.57	46.95
WBOL20	275	83.66	30.34	15.65	58.56	71.19	27.98	12.47	52.04

WBUR10	132	32.75	10.78	10.87	26.11	43.5	15.25	14.27	35.84
WBUR41	400	117.41	42.5	33.25	93.36	111.39	41.73	32.47	91.48
WBUR42	400	102.9	37.44	30.03	82.98	103.22	38.46	31.69	86.08
WEAV4A	400	78.41	29.08	14.47	55.59	54.81	22.23	6.04	37.48
WEAV4B	400	79.57	29.46	14.84	56.5	55.62	22.56	6.14	38.04
WHAM40	400	130.42	45.54	30.35	94.75	133.1	52.03	24.55	98.14
WHAM4A	400	117.44	42.24	25.52	85.25	108.76	42.54	19.64	79.8
WHAM4B	400	117.31	42.21	25.36	85.05	108.61	42.51	19.45	79.57
WHGA20	275	70.45	25.35	16	51.85	67.59	26.16	12.51	49.5
WHSO20	275	87.38	31.38	22.71	67.09	96.17	36.35	23.79	75.2
WHSO2A	275	61.89	22.72	17.6	49.73	64.32	24.38	18.16	52.64
WHSO2B	275	61.89	22.72	17.6	49.74	64.33	24.38	18.17	52.65
WHSO4A	400	71.09	25.53	17.97	54.08	62.19	23.64	14.74	48.17
WIBA20	275	61.6	22.46	13.06	44.82	66.31	26.62	10.23	47.88
WIEN2A	275	55.08	20.3	9.7	38.42	53.58	21.05	8.78	38.55
WIEN2B	275	58.2	21.11	12.49	42.34	57.14	22.22	11.05	42.47
WILE40	400	113.69	40.92	24.26	82.13	99.74	38.73	18.76	73.53
WILL10	132	54.79	18.57	19.72	45.99	67.49	24.41	23.06	57.58
WILL20	275	41.79	14.96	14.84	36	45.09	16.54	14.94	38.33
WIMB11	132	33.93	11.19	11.19	27.01	44.43	16.05	13.89	36.58
WIMB12	132	28.14	10.23	9.64	24.12	34.23	12.62	11.28	29.12
WIMB13	132	22.43	7.84	8.05	19.13	28.25	10.32	9.56	24.16
WIMB14	132	22.01	7.76	7.93	18.9	27.69	10.11	9.55	23.85
WIMB20	275	87.21	30.85	21.25	64.87	94.82	37.33	19.81	72.6
WIMB2M	275	46.06	17.54	8.74	33.54	42.26	16.78	7.09	30.81
WISD20	275	84.49	29.73	25.48	67.52	92.35	35.7	22.19	72.68
WISD2A	275	64.64	22.98	19.43	51.94	69.03	27.04	17.94	56.18
WISD2B	275	73.79	26.42	20.27	57.63	74.47	30.11	18.89	61.48
WISD60	66	50.61	17.35	17.66	42.2	6.54	4.52	0	6.39
WMEL20	275	75.7	27.17	14.5	52.93	72.52	28.22	14	53.91
WTHU41	400	138.33	49.73	29.56	99.89	117.15	46.07	18.14	83.3
WTHU42	400	138.68	49.88	29.84	100.38	117.61	46.23	18.27	83.65
WTHU4A	400	119.51	43.18	25.86	86.93	92.22	36.56	14.77	66.48
WTHU4B	400	119.51	43.18	25.86	86.93	92.22	36.56	14.77	66.48
WWEY21	275	81.07	29.68	17.72	59.69	81.11	31.3	16.96	61.22
WWEY22	275	67.41	25.12	13.16	48.68	65.21	25.35	12.51	48.35
WWEY2A	275	56.49	20.51	15.01	44.02	57.31	22.11	13.66	44.93
WWEY4A	400	45.42	17.25	8.35	32.75	39.79	15.6	7.82	29.88
WWEY4B	400	52.53	19.59	11.83	39.54	46.51	18.1	10.5	36.1
WYLF10	132	46.95	14.52	14.13	34.66	58.66	20.38	16.52	45.34
WYLF40	400	53.22	18.5	13.29	39.45	45.17	17.17	9.95	34.23
WYMO40	400	121.24	43.96	27.34	89.51	89.28	35.03	15.61	65.15
YGAR4A	400	57.69	20.98	12.25	41.91	44.85	17.85	6.81	32.06
YWER4A	400	57.27	20.77	12.4	41.77	44.65	17.75	6.53	31.64

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Table D.3.7 - NGET Fault Levels (kA), Winter 2015/16

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	36.96	13.2	7.06	25.73	28.94	11.49	4.05	20.3
ABHA4B	400	36.94	13.19	7.06	25.72	35.83	13.6	7.31	26.55
ABTH11	132	29.89	11.63	6.36	22.8	35.68	13.89	8.73	28.37
ABTH12	132	49.85	18.28	13.36	39.22	59.27	22.24	17.31	48.77
ABTH13	132	11.39	4.48	1.61	7.94	10.13	3.87	2.32	7.79
ABTH20	275	94.06	33.18	24.46	71.39	101.1	37.63	28.06	81.27
ALDW20	275	62.25	22.81	10.11	42.37	60.23	23.74	10.14	43.71
ALVE40	400	36.33	13.18	6.29	24.93	33.38	12.82	6.02	24.16
AMEM10	132	26.13	9.41	9.32	22.63	32.13	11.84	10.51	27.25
AMEM4A	400	53.33	20.12	10.49	38.94	43.07	17.11	6.99	31.18
AMEM4B	400	51.01	19.47	9.29	36.81	41.35	16.51	6.53	29.89
AMLW40	400	54.74	19.25	13.93	41.16	55.29	20.93	12.42	42.02
AMLW4A	400	61.79	21.54	15.77	46.24	120.87	44.87	33.05	96.5
AMLW4B	400	61.79	21.54	15.77	46.24	109.58	41.09	27.64	85.74
AXMI10	132	27.04	9.36	9.03	22.26	32.76	11.94	10.18	27.06
AXMI40	400	40.68	14.56	8.78	29.38	29.13	11.39	5.21	21.32
BAGB20	275	63.78	22.97	17.87	50.36	64.36	24.01	19.66	53.62
BARK10	132	24.25	8.52	9.22	21.27	26.43	9.6	9.71	23.28
BARK21	275	61.75	22.19	18.48	49.86	63.77	23.94	18.02	51.88
BARK22	275	64.31	23.08	19.84	52.47	67.82	25.41	19.37	55.31
BARK40	400	172.69	59.99	43.3	128.15	160.39	61.27	37.27	123.92
BARP21	275	56.31	20.36	16	44.8	56.22	21.34	13.93	44.12
BARP22	275	59.26	21.35	17.57	47.76	60.94	23.02	15.61	48.17
BEDD21	275	67.02	24.77	16.01	51.04	67.98	26.21	15.44	52.51
BEDD22	275	87.34	31.61	19.69	64.39	85.37	33.17	17.7	64.62
BEDD2M	275	16.84	6.14	5.95	14.63	17.81	6.61	5.85	15.2
BEDD4A	400	51.6	19.44	11.57	39.07	44.19	17.49	10.38	35.12
BEDD4B	400	43.1	16.55	8.22	31.62	36.24	14.6	7.38	28.02
BESW20	275	64.05	23.05	12.17	44.77	56.88	22.31	9.78	41.32
BICF10	132	27.21	9.88	10.25	24.21	29.92	10.97	10.41	25.93
BICF4A	400	65.11	24.13	16.83	50.97	125.33	46.76	34.9	101.02
BICF4B	400	62.4	23.06	16.64	49.25	68.37	26.93	11.94	50.03
BIRK20	275	51.26	17.78	15.88	41.03	53.6	20.05	13.74	42.1
BISW20	275	69.48	25.02	12.82	48.2	64.77	25.57	10.41	46.56
BLYT21	275	74.31	27.09	16.77	55.07	76.05	28.96	18.38	59.34
BLYT22	275	67.58	25.05	15.28	50.71	66.97	25.66	16.19	52.47
BLYT2M	275	27.97	10.03	10.5	24.69	30.78	11.18	11.48	27.3
BLYT40	400	81.68	29.15	20.28	61.5	41.77	16.54	7.54	30.93
BLYT60	66	53.34	17.76	16.6	41.73	30.15	10.95	12.48	27.96
BOLN40	400	68.56	24.37	15.83	50.29	106.64	41.03	21.84	79.87
BOTW40	400	82.09	28.4	20.12	60.29	88.83	32.92	23.16	69.72
BRAI4A	400	63.64	23.64	14.23	47.66	84.27	31.86	20.76	65.81
BRAI4B	400	63.04	23.55	13.72	47.03	63.29	25.33	10.9	46.72

BRAW20	275	71.61	25.78	16.54	53	69.86	26.92	14.31	52.39
BRAW4A	400	38.31	14.17	9.34	29.38	124.77	48.06	25.92	93.89
BRED20	275	69.4	25.54	14.48	50.59	68.76	26.8	12.56	50.46
BRFO40	400	88.86	31.91	21.69	66.82	63.82	24.75	13.75	48.75
BRIM10	132	51	17.56	19.7	44.53	62.27	22.33	23.47	55.05
BRIM2A	275	75.37	27.28	20.88	59.46	72.68	27.76	16.44	55.71
BRIM2B	275	60.44	22.3	14.95	46.49	59.88	22.97	13.21	45.7
BRIM2C	275	75.45	27.37	20.92	59.63	72.51	27.79	15.97	55.27
BRIM2D	275	58.26	21.64	13.85	44.45	57.1	22.04	11.73	42.9
BRIN21	275	66.12	23.83	14.88	48.59	71.17	27.73	13.94	53.15
BRIN22	275	70.86	25.63	18.42	54.66	74.15	28.42	17.92	58.12
BRIN2M	275	27.55	9.92	10.45	24.48	28.45	10.45	9.85	24.63
BRIN40	400	78.11	28.6	18.52	58.96	114.67	47.05	13.82	80.36
BRLE40	400	123.79	43.45	28.38	89.82	90.94	34.94	19.41	68.82
BRWA2A	275	19.48	7.13	5.32	15.41	19.6	7.46	4.73	15.28
BRWA2B	275	19.45	7.11	5.37	15.43	19.43	7.38	4.76	15.2
BRWA2C	275	19.41	7.11	5.32	15.37	19.53	7.43	4.72	15.24
BRWE10	132	20.71	7.24	8.64	18.88	6.12	2.24	2.14	5.31
BURW40	400	99.73	36.18	25.73	76.9	55.01	22.26	9.23	40.72
BUSH20	275	62.09	22.49	13.23	45.03	60.13	23.45	10.7	43.86
BUST21	275	71.51	25.43	18.26	54.22	70.25	27.66	15.59	54.7
BUST22	275	70.08	25.01	17.64	53.01	67.34	26.93	14	52.09
BUST4A	400	51.86	19.06	12.46	39.42	77.14	30.49	13.83	56.95
BUST4B	400	48.24	17.67	11.38	36.38	106.65	40.47	26.67	83.91
CANT40	400	92.09	33.06	21.57	68.33	96.22	37.16	22.02	74.57
CAPE21	275	53.95	18.7	18.23	44.68	59.25	21.78	18.1	48.9
CAPE22	275	34.75	12.38	12.82	30.33	38.3	14.01	12.99	32.81
CAPE4A	400	97.86	34.27	25.69	74.16	114.71	43.93	25.47	87.6
CAPE4B	400	103.98	36.07	28.39	79.39	107.01	41.42	21.23	79.81
CARE20	275	53.02	19.94	9.52	37.71	45.52	18.07	8.18	33.73
CARR11	132	27.71	10.13	8.24	22.56	32.52	12.3	9.36	26.75
CARR12	132	50.01	17.17	16.3	40.59	61.73	22.58	19.49	51.42
CARR20	275	80.81	29.02	22.99	64.03	89.46	33.59	23.89	71.4
CARR40	400	127.71	45.6	26.93	91.42	104.23	40.56	19.67	77.03
CARR4A	400	123.04	44.28	24.69	87.31	110.67	42.81	22	82.54
CARR4B	400	122.14	44.08	23.85	86.19	123.75	47.52	26.17	93.37
CARR4H	400	128.15	45.94	25.94	90.91	31.07	12.16	5.77	22.97
CELL11	132	42.48	14.27	13.97	34.15	52.84	19.01	16.08	42.96
CELL12	132	28.96	10.06	9.97	24.2	34.52	12.56	11.08	28.85
CELL40	400	98.98	36.24	18.18	69.42	89.62	34.23	19.74	68.14
CHIC41	400	38.62	13.97	8.48	28.23	54.83	20.87	11.27	40.78
CHIC42	400	38.14	13.78	8.42	27.9	70.21	26.3	18.86	56.05
CHSI20	275	93.99	34.33	18.86	67.41	80.29	31.86	13.11	58.17
CHTE20	275	71.57	25.36	18.26	54.13	62.46	24.07	13.4	47.44
CILF2A	275	49.97	18.43	13.94	40.01	44.66	17.01	12.1	36.16
CILF2B	275	49.91	18.39	13.93	39.94	49.64	18.89	13.15	39.86
CILF40	400	90.24	32.22	22.11	67.68	49.19	18.99	10.27	37.13
CITR41	400	131.35	45.81	29.94	94.73	134.22	52.27	23.34	97.26
CITR42	400	131.22	45.78	29.9	94.63	133.98	52.22	23.09	96.94
CLEV40	400	87.87	31.98	21.25	66.47	135.9	50.44	38.75	110.08
COSO40	400	114.12	41.33	26.41	84.87	75.33	28.76	17.03	57.7
COTT40	400	130.37	46.23	34.4	99.78	54.5	21.18	11.46	41.41
COVE20	275	64.4	23.05	13.28	45.88	60.47	23.34	11.74	44.75
COVE2A	275	63.73	22.81	13.26	45.52	59.87	23.09	11.74	44.39
COWB2A	275	71.07	26.12	14.32	51.26	61.21	24.25	8.89	43.19

COWL40	400	133.01	47.07	34.28	100.84	127.88	47.05	38.83	105.38
CREB2A	275	80.69	29.08	25.43	66.56	79.22	29.57	22.54	64.37
CREB2B	275	80.15	28.88	25.36	66.21	78.94	29.46	22.53	64.19
CREB40	400	153.85	54.81	39.55	117.07	114.64	47.05	13.79	80.32
CREB4A	400	150.63	53.84	37.81	113.95	151.06	55.82	44.3	123.23
CREB4B	400	150.55	53.84	37.59	113.74	146.53	54	42.89	119.26
CULJ4A	400	119.01	42.19	31.5	91.17	111.9	40.84	36.21	93.97
DAIN40	400	139.62	49.61	29.3	99.46	40.53	16.1	6.53	29.3
DAMC40	400	136.31	47.62	39.88	107.23	177.03	64.93	57.5	149.33
DEES41	400	123.23	42.48	33.38	93.46	86.43	31.85	24.48	69.53
DEES42	400	115.44	40.23	29.56	86.44	76.96	29.84	14.14	56.35
DIDC41	400	126.64	44.35	35.8	98.51	91.78	36.12	15.9	66.98
DIDC42	400	111.03	38.45	33.74	88.12	56.9	22.43	9.4	41.12
DINO40	400	82.23	28.05	23.32	62.98	79.17	31.14	13.83	57.88
DRAK10	132	37.34	10.96	11.8	27.3	45.67	15.17	15.17	36.62
DRAK2A	275	47.85	17.5	14.22	38.97	50.57	18.94	15.3	42.08
DRAK41	400	111.49	39.91	25.9	82.34	60.47	24.17	9.31	43.49
DRAK42	400	93.16	33.32	20.3	67.43	70.92	27.85	14.02	53.4
DRAX11	132	15.4	5.29	5.52	13	19.29	6.86	7.03	16.74
DRAX12	132	14.86	5.1	5.35	12.57	18.65	6.64	6.83	16.21
DRAX41	400	153.18	53.77	43.67	119.71	31.59	12.3	5.98	23.38
DRAX42	400	148.78	51.7	42.7	115.82	40.9	16.14	7.43	30.26
DUBR4A	400	40.1	14.97	9.08	30.24	104.96	39.48	26.2	82.04
DUBR4B	400	51.1	19.19	11.11	38.26	130.71	48.57	33.63	102.31
DUNG20	275	45.64	16.22	15.54	38.48	49.7	18.26	15.8	41.63
DUNG40	400	77.3	27.49	19.23	58.11	139.36	52.25	36.51	110.4
EALI20	275	60.12	21.28	18	48.1	64.5	25.24	13.86	49.56
EALI60	66	59.71	20.39	19.16	47.99	69.11	25.34	20.54	56.37
EASO40	400	85.87	31.3	19.77	64.04	61.59	23.98	14.27	48.18
ECLA10	132	43.08	14.83	15.52	36.49	50.24	18.31	16.82	42.71
ECLA40	400	118.87	43.33	24.78	86.06	75.98	30.22	11.37	54.11
EGGB41	400	112.87	40.37	29.36	86.46	110.2	42.06	23.51	82.99
EGGB42	400	135.44	47.05	37.7	104.24	80.8	30.42	20.7	63.71
ELLA11	132	26.43	9.24	8.61	21.68	32.11	11.85	9.7	26.46
ELLA12	132	27.05	9.47	8.7	22.09	32.37	11.95	9.73	26.63
ELLA20	275	68.57	24.98	13.36	48.68	60.43	23.76	10.23	43.84
ELST11	132	28.7	9.45	9.9	23.27	36.06	13.02	11.82	30.22
ELST12	132	37.14	12.07	11.48	28.55	44.28	16.03	12.9	35.57
ELST1A	132	10.07	3.63	3.16	8.3	12.36	4.59	3.66	10.15
ELST1B	132	9.75	3.55	3	8.02	11.98	4.47	3.49	9.81
ELST21	275	69	24.85	17.68	52.82	74.54	28.21	18.74	58.64
ELST22	275	63.1	22.71	13.14	45.26	70.19	26.87	14.03	52.02
ELST2A	275	68.21	24.56	17.61	52.33	73.62	27.84	18.66	58.03
ELST2B	275	62.44	22.47	13.12	44.9	69.37	26.53	14.01	51.53
ELST40	400	107.87	38.98	21.8	76.93	113.3	44.43	22.5	85.34
ELST4A	400	107.84	38.98	21.79	76.92	113.23	44.41	22.48	85.28
ELST4B	400	44.44	16.95	8.15	32.12	41.26	16.09	8.18	30.94
ENDE40	400	89.68	32.96	18.49	65.1	71.33	27.8	12.8	52.12
EXET40	400	58.45	20.28	12.91	41.58	54.5	20.73	11.77	41.08
FAWL10	132	49.54	15.79	17.5	39.83	67.75	23.26	24.31	57.2
FAWL40	400	89.68	30.48	23.42	66.52	92.46	35.21	18.37	68.16
FECK20	275	67.26	24.41	15.4	49.93	66.98	25.69	15.72	52.04
FECK40	400	85.05	31.58	15.17	59.83	70.12	27.29	12.82	51.41
FENW4A	400	125.81	45.21	33.05	96.98	67.6	26.03	13.61	50.43
FERR11	132	34.02	11.58	11.65	28.03	41.08	14.83	14.45	35.42

FERR12	132	31.02	10.6	9.89	24.88	37.87	13.77	12.29	31.76
FERR13	132	9.98	3.69	3.15	8.37	10.53	3.9	3.33	8.85
FERR21	275	71.4	25.42	19.99	55.93	76.17	28.44	20.87	61.09
FERR22	275	77.23	27.24	24.9	63.42	84.04	30.87	26.65	70.31
FERR23	275	85.24	29.75	25.56	67.64	94.03	34.64	27.58	76.57
FERR2A	275	85.29	29.78	25.62	67.74	93.7	34.55	27.3	76.16
FERR2B	275	70.87	25.25	19.7	55.41	75.16	28.14	19.89	59.69
FERR4A	400	90.42	32.2	23.92	69.45	55.75	21.46	15.83	46.18
FFES21	275	38.98	14.38	8.25	28.59	38.12	14.95	6.95	28.09
FFES22	275	36.43	13.72	6.23	25.63	34.77	13.92	4.64	24.32
FIDF21	275	67.77	22.9	24.09	56.48	72.43	25.99	25.35	62.11
FIDF22	275	68.24	23.21	24.09	56.92	72.07	25.99	24.98	61.73
FIDF23	275	85.21	28.74	26.06	66.7	87.34	31.74	27.11	72.01
FIDF24	275	85.71	28.82	26.24	67	88.58	32.14	27.56	73.01
FLEE40	400	106.74	37.38	23.75	76.62	74.69	27.5	21.51	60.4
FORD4A	400	39.33	14.71	8.75	29.56	92.64	34.48	25.27	74.03
FORD4B	400	51.02	19.19	10.85	37.98	84.01	32.41	17.69	63.53
FOUR20	275	44.87	17.77	5.12	30.26	35.85	14.98	3.17	24.36
FROD2A	275	65.99	22.6	23.08	55.03	68.68	24.97	22.27	57.58
FROD2B	275	65.09	22.17	22.99	54.35	67.46	24.46	22.05	56.64
FROD40	400	106.07	36.29	30.58	81.91	69.02	27.24	12.51	51.04
GRAI41	400	162.3	56.92	50.42	130.92	139.12	53.82	26.03	102.15
GRAI42	400	140.39	49.78	37.02	107.42	83.69	31.62	21.73	66.44
GREN11	132	40.45	15.39	11.4	33.17	46.68	18.53	12.71	38.92
GREN12	132	42.44	15.7	12.19	34.39	48.86	19.1	13.27	40.28
GREN40	400	84.8	31.98	14.15	59.38	63.37	24.32	14.14	48.53
GRIW40	400	80.15	28.98	21.19	62.18	55.75	21.46	15.82	46.17
GRST21	275	102.24	35.47	33.2	83.36	112.18	40.99	34.48	92.46
GRST22	275	102.65	35.6	33.46	83.8	113.09	41.28	35.05	93.44
GRTO2A	275	34.4	12.09	11.15	28.25	37.75	14.3	8.76	28.98
GRTO2B	275	34.42	12.09	11.18	28.29	37.8	14.31	8.83	29.06
GWYN40	400	90.53	32.06	21.35	66.69	57.22	22.07	12.82	44.04
HACK2A	275	65.03	23.77	17.78	51.4	67.02	25.53	16.54	52.65
HACK2B	275	64.55	23.56	17.72	51.04	63.4	24.18	15.86	50.06
HACK40	400	126.39	44.13	29.24	91.64	123.56	49.09	21.5	90.92
HAKB4A	400	52.09	19.84	8.91	36.96	51.96	20.21	11.37	39.95
HAKB4B	400	52.75	20.09	9.02	37.42	46.93	18.15	9.8	35.47
HAMB4A	400	75.33	27.18	17.34	55.77	103.69	38.42	29.19	83.52
HAMB4B	400	75.33	27.18	17.34	55.77	50.06	20.06	7.77	36.13
HAMH11	132	26.89	9.25	10.06	23.14	33.39	12.08	11.83	28.91
HAMH12	132	26.96	9.24	9.88	22.95	28.18	10.22	9.71	24.17
HAMH20	275	80.2	28.42	17.99	58.19	75.62	29.15	14.37	55.6
HAMH2A	275	69.21	24.73	18.24	53.22	67.73	25.65	16.06	52.34
HAMH40	400	80.36	29.37	15.26	56.81	87.69	33.4	20.58	67.81
HAMH4A	400	78.84	28.8	15.27	56	32.99	13.1	5.43	23.96
HARK11	132	35.26	11.32	8.17	24.18	39.88	14.76	9.21	30.08
HARK12	132	32.35	10.98	8.05	23.57	36.18	13.66	8.97	28.28
HARK13	132	26.06	10.92	5.37	20.81	23.86	9.57	5.54	19.09
HARK21	275	45.94	17	11.34	35.38	49.1	18.72	12.41	38.88
HARK22	275	47.78	17.75	11.5	36.6	51.7	19.77	12.71	40.67
HARK40	400	61.96	23.26	11.13	44.03	135.58	50.84	35.09	106.99
HARM20	275	70.19	25.87	13.41	50	59.82	23.6	9.22	42.6
HATL20	275	97.08	34.06	27.77	75.95	98.36	36.64	27.51	79.34
HAWP20	275	88.35	31.85	20.21	65.25	77.9	30.24	14.78	57.55
HAWP4A	400	59.76	21.92	13.91	44.91	113.29	43.82	21.53	83.5

HEDO20	275	100.49	35.38	29.87	79.91	106.3	39.35	30.37	86.03
HEDO4A	400	57.69	21.61	13.12	43.67	127.44	47.13	37.86	104.52
HEDO4B	400	57.68	21.61	13.1	43.66	103.35	39.42	23.8	79.54
HEYS40	400	101.97	35.55	26.78	77.06	98.13	37.79	19.29	72.74
HIGM20	275	69.71	25.48	19.45	55.48	64.89	24.98	15.44	50.78
HIGM2A	275	45.07	16.38	14.84	38	45.15	16.93	12.85	36.8
HIGM40	400	84.73	31.57	18.92	63.57	63.27	24.09	17.09	51.16
HIGM4A	400	65.74	24.46	16.72	51.31	67.98	26.22	15.28	52.36
HINP21	275	23.6	8.42	8.05	19.96	25.94	9.5	8.76	22.2
HINP22	275	23.63	8.44	7.98	19.91	26.37	9.67	8.81	22.49
HINP40	400	71.05	24.98	17.08	52.4	44.39	17.39	6.92	31.5
HIRN40	400	69.24	25.11	16.43	51.94	68.16	25.21	18.6	54.25
HUMR40	400	127.29	44.68	38.17	101.36	106.37	40.61	24.43	81.87
HURS20	275	74.23	26.61	19.15	56.79	73.13	29.66	14.97	56.92
HUTT40	400	72.13	26.31	15.52	52.73	76.13	29.41	14.1	55.69
IMPP40	400	59.26	21.85	13.12	44.02	43.72	17.18	7.14	31.43
INDQ40	400	34.89	12.3	6.67	24.07	33.35	12.81	6	24.12
IROA11	132	58.82	20.97	15.64	45.3	70.3	26.39	17.65	54.97
IROA12	132	59.03	20.99	15.48	45.17	69.3	25.97	17.49	54.22
IROA20	275	64.97	24.31	11.74	46.12	60.09	23.7	11.09	44.6
IROA2A	275	64.28	24.04	11.74	45.74	59.5	23.44	11.09	44.23
IROA2B	275	64.28	24.04	11.74	45.74	59.5	23.44	11.09	44.23
IRON11	132	26.52	7.38	6.79	17.23	32.01	10.46	8.91	23.7
IRON12	132	14.11	5.12	5.24	12.48	18.76	6.83	7.03	16.68
IRON40	400	93.15	33.28	21.11	68.17	49.66	19.75	7.23	35.16
IVER21	275	69.74	25.35	16.93	52.79	72.08	27.46	17.18	56.02
IVER22	275	66.27	24.05	15.1	49.12	63.44	24.6	13.32	48.11
IVER2A	275	45.32	16.64	11.61	35.15	44.81	17.25	10.71	35.1
IVER4A	400	48.18	17.96	11.09	36.5	44.17	17	10.47	34.5
IVER4B	400	45.52	17.16	10.07	34.34	41.18	15.97	9.53	32.12
JORD20	275	51.21	19.06	9.32	36.27	51.73	21.3	8.04	38.16
KEAD41	400	120.68	43.57	32.38	93.99	79.02	30.86	14.78	58.42
KEAD42	400	124.57	44.78	32.63	95.97	94.9	36.82	17.56	69.62
KEAD43	400	98.5	36.35	23.23	74.63	98.45	38.24	18.06	72.14
KEAD4A	400	119.9	43.34	31.59	92.88	75.94	28.77	20.4	61.09
KEAD4B	400	125.6	45.25	32.69	96.68	75.94	28.77	20.4	61.09
KEAD4C	400	87.95	31.91	25.63	70.76	98.64	37.87	21.53	75.09
KEAD4D	400	87.95	31.91	25.63	70.76	103.42	39.57	23.45	79.41
KEAP41	400	115.6	41.88	30.34	89.57	142.06	52.17	42.72	116.49
KEAP42	400	121.52	43.81	31.21	93.17	91.05	34.44	21.11	69.82
KEAR20	275	77.5	27.24	20.85	59.36	84.29	31.4	22.14	66.54
KEAR40	400	95.81	34.92	18.54	67.93	64.77	25.93	9.71	46.37
KEAR4A	400	88.42	32.69	15.86	62.09	61.85	24.61	9.28	44.08
KEMS40	400	165.37	58.11	44.7	126.88	85.16	32.21	21.84	67.39
KEMS4A	400	94.12	33.55	29.92	77.37	134.99	50.17	38.94	109.9
KEMS4B	400	96.68	34.52	30.32	79.14	139.61	51.59	41.21	114.16
KIBY21	275	86.46	29.24	23.33	64.69	86.67	32.75	18.59	64.91
KIBY22	275	75.87	26.24	19.7	56.81	69.99	26.46	15.47	52.89
KILL40	400	137.07	47.76	41.96	109.51	78.24	29.66	18.01	59.95
KINO10	132	37.11	12.38	12.1	29.6	47.06	16.6	15.83	39.31
KINO41	400	139.56	48.93	41.97	111.17	113.69	43.37	25.83	87.16
KINO42	400	140.68	48.98	41.78	111.05	104.84	41.28	18.13	76.51
KIRK20	275	59.5	21.53	13.61	44.07	56.27	22.04	10.81	41.98
KIRK2A	275	60.97	21.92	14.18	45.18	56.6	22.59	10.76	42.7
KITW20	275	68.3	24.51	12.78	47.44	67.47	26.31	11.41	48.62

KNAR20	275	30.1	12.27	2.51	19.87	24.37	10.17	2.78	17.17
LACK20	275	35.64	12.33	13.37	30.82	40.77	14.72	14.88	35.7
LACK2A	275	97.67	34.13	30.55	78.82	108.21	39.68	32.17	88.29
LACK2B	275	103.91	35.98	34.28	85.17	116.62	42.36	37.41	97.31
LACK2C	275	99.27	34.62	31.44	80.39	110.01	40.3	33	89.99
LACK40	400	135.49	47.43	34.61	101.69	132.99	50.59	29	100.55
LALE20	275	60.43	21.5	17.42	47.82	65.81	25.42	16.05	52
LAND41	400	33.8	12.02	6.52	23.51	33.08	12.7	6	23.97
LAND42	400	33.89	12.05	6.55	23.58	46.35	17.15	12.06	36.32
LAND4A	400	33.61	11.95	6.55	23.45	90.78	35.63	16.2	66.59
LANG40	400	42.76	14.76	9.65	30.51	62.12	25.01	8.99	44.36
LEGA40	400	104.79	37	25.03	77.36	57.28	22.09	12.82	44.07
LEGA4A	400	70.76	25.37	20.24	56.12	76.78	29.79	13.97	56.1
LEGA4B	400	70.79	25.37	20.24	56.12	76.72	29.77	13.96	56.06
LEIB4A	400	77.29	28.74	16.39	57.03	36.1	14.88	3.54	24.59
LEIB4B	400	106.93	39.35	21.94	77.59	36.18	14.91	3.55	24.64
LISD20	275	79.15	27.07	20.18	58.47	79.74	30.67	16.77	60.15
LISD2A	275	50.29	17.5	15.87	40.62	52.17	19.66	13.5	41.31
LITB40	400	81.1	29.63	18.57	60.47	78.23	29.07	21.68	62.78
LITT11	132	20.6	7.22	8.23	18.44	27.22	9.86	10.23	24.17
LITT13	132	32.98	11.74	12.38	28.99	42.24	15.29	16.17	37.79
LITT2A	275	61.78	22.57	15.39	47.31	59.28	23.71	13.82	47.36
LITT2B	275	61.64	22.53	15.22	47.08	60.15	23.95	14.32	48.19
LITT41	400	96.11	35.35	19.85	69.85	90.12	35.01	19.5	69.02
LITT42	400	95.97	35.35	19.94	69.94	93.88	36.04	22.21	73.17
LITT4A	400	88.35	32.81	17.5	63.9	74.34	29.49	11.83	53.53
LITT4B	400	91.42	33.86	18.6	66.48	78.37	30.94	12.84	56.59
LODR6M	66	19.46	7.11	6.69	16.75	2.26	1.56	0	2.21
LOVE40	400	102.66	35.06	25.37	74.96	58.19	22.38	12.96	44.61
MACC20	275	53.76	19.94	13.48	41.68	51.64	19.92	11.67	39.84
MACC40	400	86.56	32.14	16.3	61.75	35.21	13.54	7.98	27.12
MAGA20	275	62.73	23.15	13.46	46.19	54.88	21.47	10.64	41
MANN40	400	58.82	20.7	13.27	42.55	45.74	17.88	7.36	32.64
MAWO40	400	71.16	24.6	19.05	53.84	67.38	25.15	16.47	52.04
MEDW40	400	119.93	43.28	28.04	89.25	70.52	27.56	13.57	52.55
MELK10	132	41.57	14.57	15.47	36.07	54.79	19.8	18.9	46.91
MELK2A	275	46.43	17.23	13.4	37.78	45.51	17.34	12.25	36.77
MELK2B	275	45.11	16.78	12.79	36.52	45.55	17.38	12.11	36.68
MELK40	400	114.24	41.2	23.04	81.29	69.9	26.03	19.6	56.41
MILH11	132	22.93	8.08	7.88	19.31	28.9	10.59	9.51	24.48
MILH12	132	23.22	8.31	7.08	18.84	29.3	10.87	8.62	23.99
MILH2A	275	43.04	16.19	6.79	29.69	43.06	17.67	6.51	31.5
MILH2B	275	43	16.18	6.78	29.66	43.02	17.66	6.49	31.47
MITY40	400	86.62	32.23	15.35	60.93	49.64	19.69	8.32	36.17
MIWW40	400	43.1	16.06	10.64	33.35	49.44	19.67	7.19	35.01
MOEL4A	400	90.59	32.08	21.37	66.73	84.13	31.36	21.73	66.08
MOEL4B	400	90.52	32.06	21.35	66.68	87.92	32.59	22.7	68.79
MONF21	275	87.16	30.58	27.28	70.52	92.48	34.33	25.67	74.22
MONF22	275	78.63	27.88	24.61	64.04	80.87	30.15	22.6	65.24
MONF40	400	102.66	36.48	26.67	78.27	44.04	17.38	8.14	32.73
MONF4A	400	89.18	31.94	22.93	68.1	56.02	22.13	9.09	40.39
MWAL4A	400	64.99	23.87	14.77	48.53	33.82	13.24	6.48	25.21
MWAL4B	400	64.88	23.85	14.78	48.51	41.38	16.18	8.53	31.4
NECH20	275	86.9	30.43	22.32	65.36	84.69	32.54	16.87	62.89
NEEP20	275	60.64	22.06	13.61	44.8	66.53	26.23	12.5	49.59

NEEP4A	400	49.14	18.42	10.04	36.1	54.01	21.37	8.71	38.94
NEWX20	275	82.9	29.47	21.04	62.73	83.77	33.31	16.25	63.35
NFLE11	132	38.58	12.48	12.85	30.49	47.3	16.95	14.81	38.79
NFLE12	132	32.03	11.79	11.33	28	35.06	13.05	11.88	30.33
NFLE40	400	139.5	49.42	33.85	103.74	68.64	27.05	12.45	50.7
NHYD2A	275	47.14	18.09	7.31	32.9	39.38	18.71	3.14	29.6
NHYD2B	275	45.65	17.46	6.9	31.59	38.77	17.63	5.35	30.28
NHYD60	66	40.34	13.58	12.36	31.56	54.5	19.9	15.45	43.59
NINF40	400	66.12	23.67	15.65	49.11	50.55	19.19	11.19	38.32
NORL2A	275	52.97	19.61	10.24	37.97	53.86	22.26	7.32	38.8
NORL2B	275	51.91	19.31	9.45	36.75	52.42	21.96	6.57	37.62
NORT20	275	79.06	27.9	23.47	62.92	82.05	30.57	22.14	65.37
NORT40	400	132.92	46.92	30.67	97.03	85.65	33.28	15.46	62.53
NORW40	400	71.88	26.14	16.69	53.67	90.53	34.39	24.18	72.81
NURS40	400	67.4	23.51	17.32	50.56	69.55	27.49	11.6	50.48
NURS4A	400	55.53	19.85	12.71	40.78	65.84	26.03	10.42	47.24
OCKH10	132	26.11	9.15	8.73	21.67	31.63	11.51	10.21	26.49
OCKH20	275	66.59	24.03	12.88	46.87	67.36	26.14	12.12	49.08
OCKH2A	275	56.57	20.47	12.58	41.54	55.82	21.52	11.86	42.3
OFFE20	275	77.63	28.5	14.31	54.62	65.94	26.03	10.83	47.65
OLDB20	275	56.64	20.72	10.67	39.97	57.73	22.47	10.35	42.13
OLDB2A	275	56.12	20.52	10.68	39.7	57.18	22.24	10.35	41.81
OLDB4A	400	37.58	14.17	7.08	27.12	45.25	17.67	9.04	34.03
OLDS11	132	45.21	16.02	10.15	32.8	46.3	17.54	10.51	35.31
OLDS12	132	44.18	15.9	10.16	32.65	47.98	18.25	10.95	36.76
OSBA41	400	79.76	29.57	17.72	59.54	95.83	35.7	27.56	78.05
OSBA42	400	79.1	29.36	17.64	59.16	53.36	20.82	10.65	40.09
PADI10	132	28.02	9.54	9.79	23.29	34.41	12.36	11.14	28.62
PADI40	400	85.82	31.38	17.59	61.96	87.47	32.75	23.01	69.32
PAFB4A	400	55.83	21.41	9.19	39.47	115.27	44.79	22.26	85.6
PAFB4B	400	55.94	21.45	9.22	39.55	97.76	38.67	16.28	70.96
PELH40	400	148.45	52.87	37.04	111.81	74.53	29.16	13.62	54.86
PEMB10	132	27.81	9.85	9.52	23.46	35.05	12.87	11.42	29.62
PEMB40	400	61.38	21.69	16.98	47.65	60.04	22.86	13.72	46.05
PENN20	275	73.78	26.45	16.98	54.39	75.98	29.01	16.44	57.47
PENN2A	275	72.89	26.13	16.94	53.89	75.04	28.62	16.41	56.89
PENN4A	400	47.81	17.91	9.49	34.83	99.25	37.53	23.84	76.91
PENN4B	400	50.05	18.75	9.73	36.25	111.56	42.08	27.26	86.77
PENS4A	400	81.54	27.94	22.46	61.97	54.38	21.48	9.63	40.01
PENT40	400	85.16	29.06	23.43	64.53	79.03	30.99	12.67	56.49
PEWO21	275	70.34	25.05	20.78	56.21	69.65	26.21	18.01	55.08
PEWO22	275	71.04	25.27	21.32	57.06	66.65	25.01	18.04	53.41
PEWO2A	275	71.38	25.38	21.47	57.36	66.95	25.09	18.32	53.8
PEWO2B	275	72.09	25.6	21.67	57.88	72.53	27.17	19.55	57.98
PEWO40	400	110.91	38.98	25.88	81.01	76.78	29.62	14.37	56.27
PITS20	275	62.07	22.53	13.54	45.4	68.8	27.08	12.53	50.83
POPP20	275	29.33	12.11	1.9	19.03	23.43	9.86	2.66	16.61
PYLE20	275	65.43	24.24	12.71	46.99	56.1	22.16	9.78	41.12
PYLE2A	275	64.72	23.96	12.7	46.59	55.58	21.93	9.78	40.8
PYLE2B	275	64.72	23.96	12.7	46.59	55.58	21.93	9.78	40.8
QUER4A	400	88.59	31.51	21.62	66.18	50.93	20.24	7.66	36.29
QUER4B	400	88.59	31.51	21.62	66.18	50.83	20.2	7.64	36.22
RAIN20	275	102.21	33.76	30.46	78.2	98.08	36.36	23.63	75.05
RASS40	400	56	20.65	12.18	41.39	35.1	13.42	8.11	27.09
RATS2A	275	43.17	15.76	13.47	35.76	44.34	16.5	14.09	37.42

RATS41	400	100.39	36.21	22.76	73.96	70.22	26.8	16.23	54.13
RATS42	400	112.09	40.14	25.86	82.63	51.88	20.48	9.26	38.22
RAYL41	400	91.56	33.54	21.2	68.64	74.33	28.53	16.65	57
RAYL42	400	94.22	34.61	21.06	70	92.87	36.53	15.4	67.07
REBR21	275	68.2	24.66	19.04	53.91	65.27	25.24	13.6	49.29
REBR22	275	69.15	25.04	19.38	54.8	66.39	25.83	12.89	49.42
ROCH20	275	67.43	24.56	14.77	49.5	67.07	25.84	13.45	49.99
ROCH4A	400	38.01	14.14	8.81	28.8	29.11	11.24	6.47	22.37
ROCK40	400	101.94	35.03	28.84	78.38	54.21	22	5.95	37.07
RUGE10	132	27.01	9.24	9.76	22.83	30.22	10.76	11.49	26.7
RUGE40	400	72.22	26.15	15.08	52.06	55.64	22.02	8.61	39.75
RYEH40	400	83.45	29.97	22.04	64.42	81.42	30.56	21.84	65.06
RYEH4A	400	75.41	27.65	18.82	57.92	66.89	25.48	16.4	52.43
SAEN20	275	97.42	34.4	28.48	77.13	102.55	38	29.08	82.81
SAES20	275	99.89	35.15	29.68	79.39	105.34	38.94	30.95	86.02
SALH20	275	77.34	27.61	21.2	60.24	79.51	29.82	20.62	62.8
SALH2A	275	76.62	27.46	21.68	60.51	75.99	28.54	19.99	60.35
SALH40	400	137.83	48.32	33.65	101.99	88.84	34.24	17.98	66.41
SBAR40	400	62.48	23.64	11.78	45.21	98.18	38.13	18.47	72.4
SEAB40	400	72.23	25.52	18.07	54.16	78.51	30	17.22	59.64
SELL40	400	79.38	28.59	18.04	58.47	157.06	60.09	34.31	119.29
SHBA40	400	97.78	34.71	28.37	77.46	45.33	17.6	9.91	34.8
SHEC20	275	55.17	20.31	11.16	39.88	58	23.73	8.26	41.83
SHRE4A	400	69.44	25.46	14.57	50.57	44.76	17.07	10.81	34.95
SING40	400	122.94	44.06	29.69	92	113.36	43.3	24.56	85.79
SIZE11	132	44.94	16.2	14.6	37.52	55.31	20.35	17.39	46.17
SIZE12	132	44.94	16.2	14.61	37.53	55.34	20.38	17.29	46.11
SIZE40	400	75.33	26.9	19.53	57.57	65.9	23.71	26.14	59.68
SJOW20	275	45.63	15.88	16.86	39.31	54.84	19.88	19.71	47.82
SJOW2A	275	58.66	20.8	18.47	47.88	61.63	24.38	17.16	51.63
SJOW2B	275	58.66	20.8	18.47	47.88	61.63	24.38	17.16	51.63
SJOW40	400	131.47	45.85	29.97	94.82	134.04	52.06	29.23	102.85
SKLG20	275	68.28	24.43	15.32	49.87	63.69	24.76	12.15	47.17
SMAN20	275	72.86	26.63	17.33	54.99	75.22	29.08	14.71	55.84
SPEN40	400	103.78	37.15	23.2	75.74	74.21	28.95	12.72	53.66
SPLN40	400	73.64	26.92	20.4	58.48	61.02	23.51	14.27	47.52
SSHI20	275	73.59	27.17	12.78	51.2	63.4	25.04	10.75	46.16
STAH4A	400	65.25	23.89	13.81	47.6	0	0	0	0
STAH4B	400	65.25	23.89	13.81	47.6	0	0	0	0
STAL21	275	46.68	17.28	11.07	35.51	45.93	17.62	10.15	35.07
STAL22	275	56.26	21.12	10.15	40.01	49.79	19.67	8.6	36.41
STAL4A	400	34.59	12.94	7.87	26.17	55.02	22.33	6.05	37.63
STAY41	400	75.74	27.99	15.53	55.11	58.3	22.46	14.09	45.86
STAY42	400	67.95	25.31	13.94	49.74	110.71	41.43	32.44	91.03
STAY4A	400	66.89	24.86	14.7	49.86	102.23	38.07	31.48	85.32
STEN10	132	39.03	12.17	10.43	27.64	48.42	17.25	12.47	36.87
STES10	132	33.99	11.46	10.7	26.9	42.3	15.2	12.69	34.19
STEW20	275	109.41	38.97	27.07	82.18	110.13	41.91	24.51	83.78
STEW2A	275	109.12	38.88	26.91	81.9	109.68	41.82	23.95	83.1
STEW40	400	100.48	35.91	23.14	73.92	74.21	28.95	12.72	53.66
STEW4C	400	88.26	31.83	20.46	65.47	129.62	48.68	32.09	100.93
STEW4D	400	88.26	31.83	20.46	65.47	132.41	50.25	30.24	101.31
STSB40	400	61.45	22.73	13.62	45.76	101.12	38	27.6	81.34
STSB4A	400	52.9	19.68	12.5	40.32	100.7	38.31	22.9	77.08
STYC10	132	30.1	10.18	11.31	25.7	27.91	10.08	10.5	24.76

SUND41	400	128.83	46.99	26.12	92.57	87.09	34.18	15.25	63.58
SUND42	400	93.82	34.59	19.8	68.72	33.71	13.05	6.34	24.8
SUTB4A	400	103.65	37.45	27.09	80.05	108.72	41.01	30.28	88.28
SUTB4B	400	114.08	41.09	31.5	89.62	46	18.12	8.47	34.09
SWAN2A	275	27.77	10.1	8.9	23.18	30.21	11.23	9.14	25.03
SWAN2B	275	51.28	18.72	14.78	41.25	48.43	18.33	12.89	38.81
SWAN40	400	66.01	23.76	16.52	50.12	61.22	23.26	14.57	47.47
SWAN4A	400	40.55	14.98	9.35	30.53	47.96	18.79	8.64	35.21
TAUN4A	400	51.9	18.59	10.58	36.88	34.47	13.3	6.04	24.84
TAUN4B	400	52.74	18.87	10.75	37.43	34.45	13.29	6.04	24.83
TEEP40	400	127.39	44.8	32	95.36	113.82	43.63	23.71	85.41
TEMP21	275	60.86	22.16	12.96	44.29	64.66	25.62	11.64	47.88
TEMP22	275	61.1	22.23	13.07	44.5	65.22	25.84	11.8	48.34
THOB40	400	105.6	38.26	26.51	80.62	91.24	35.81	14.78	65.43
THOM20	275	76.94	27.47	21.68	60.53	79.34	29.92	21.37	63.67
THOM40	400	114.91	40.94	28.05	85.96	89.8	35.24	14.57	64.42
THOR40	400	132.58	46.72	31.71	97.78	60.54	23.81	9.84	43.52
THTO41	400	126.05	45.81	30.1	94.89	86.76	32.37	23.37	69.14
THTO42	400	125.02	45.35	29.98	94.11	40.25	15.96	7.09	29.66
THUR20	275	65.83	24.52	10.92	45.6	66.29	26.22	10.96	48.04
THUR2A	275	66.25	24.77	10.26	45.29	62.27	25.01	8.28	43.65
TILB21	275	78.66	27.88	22.73	62.16	83.22	30.84	23.67	67.28
TILB22	275	79.51	28.12	24.42	64.19	84.46	31.2	25.41	69.53
TILB40	400	183.66	63.69	49.58	139.65	112.05	42.05	28.57	88.03
TINP2A	275	60.1	22.09	13.92	45.16	58.89	22.93	12.4	44.82
TINP2B	275	60.1	22.09	13.92	45.17	58.9	22.93	12.4	44.83
TODP40	400	123.15	43.49	30.1	91.61	60.41	23.76	9.8	43.41
TOTE21	275	75.02	27.03	21.54	59.77	74.39	28.29	17.76	57.77
TOTE22	275	75.84	27.38	21.8	60.52	76.79	29.24	17.94	59.29
TOTW21	275	44.17	16.73	8.98	32.64	43.42	16.95	8.17	32.13
TOTW22	275	45.57	17.18	9.53	33.82	44.6	17.37	8.62	33.18
TRAW20	275	48.2	16.92	15.46	39.38	51.14	19.12	13.07	40.1
TRAW40	400	70.68	25.33	15.74	51.56	80.63	31.63	12.82	57.55
TREM20	275	46.27	18.09	5.96	31.54	37.8	15.53	4.43	26.39
TREU4A	400	99.66	35.36	23.39	73.39	45.78	17.44	9.97	34.64
TREU4B	400	101.44	35.96	23.74	74.59	47.43	18.82	7.4	34.02
TYNE20	275	67.59	24.99	11.7	47.05	59.47	23.46	9.93	43.12
TYNE2A	275	65.01	24.3	11.36	45.73	55.91	22.17	9.05	40.41
TYNE50	11	54.74	19.57	19.26	46.94	59.69	21.69	22.01	52.68
UPPB21	275	50.46	18.73	12	38.49	48.01	18.62	9.98	36.31
UPPB22	275	50.42	18.74	11.99	38.49	45.46	17.56	10.2	35.03
USKM20	275	83.65	30.05	21.93	64.42	95.18	35.73	25.49	76.02
USKM2A	275	66.25	24.61	13.75	48.56	66.79	25.9	13.25	49.89
USKM2B	275	82.91	29.82	21.49	63.67	92.93	35.01	23.9	73.42
WALH40	400	67.62	24.96	13.08	48.38	51.15	20.12	8.21	36.66
WALP11	132	47.95	17.07	12.51	36.65	52.21	20.11	13.15	41.58
WALP12	132	37.21	13.77	10.6	30.07	40.81	15.82	11.41	33.79
WALP13	132	29.77	11.45	7.35	23.53	31.47	12.57	7.74	25.51
WALP40	400	125.92	44.8	37.12	100.48	47.86	18.7	9.18	35.64
WALX21	275	79.55	28.58	24.16	64.58	80.7	30.26	22.66	65.45
WALX22	275	78.4	28.26	23.72	63.68	79.4	29.82	22.23	64.41
WALX4A	400	76.69	27.65	20.49	59.59	72.98	27.53	18.63	57.57
WALX4B	400	70.41	25.79	18.13	54.61	63.53	24.15	15.8	49.94
WARL20	275	84.73	30.36	19.88	62.81	70.95	27.74	12.83	52.07
WASF2A	275	63.39	22.65	14.38	46.42	52.13	20.46	8.25	37.19

WASF2B	275	67.93	24.06	15.47	49.5	57.25	22.57	8.54	40.46
WATS21	275	64.59	23.51	14.98	48.23	65.03	25.13	13.12	48.67
WATS22	275	61.4	22.22	12.5	43.92	63.11	24.5	11.29	45.94
WBOL20	275	84.21	30.63	15.37	58.69	71.27	28.05	12.39	52.06
WBUR10	132	31.58	10.35	10.44	25.08	42.01	14.7	13.73	34.52
WBUR41	400	115.94	41.95	32.95	92.28	43.25	16.74	9.58	33.25
WBUR42	400	101.56	36.94	29.72	81.96	40.7	15.81	8.61	30.97
WEAV4A	400	77.78	28.89	14.33	55.19	33.54	12.84	7.89	26.05
WEAV4B	400	78.96	29.28	14.69	56.1	58.22	22.55	13.09	44.97
WHAM40	400	134.85	46.89	31.6	97.9	135.3	52.86	24.9	99.65
WHAM4A	400	117.94	42.39	25.77	85.71	108.49	42.42	19.64	79.62
WHAM4B	400	117.81	42.36	25.59	85.49	108.34	42.39	19.43	79.38
WHGA20	275	69.55	25.02	15.76	51.14	66.7	25.81	12.33	48.84
WHSO20	275	86.9	31.15	22.78	66.83	95.81	36.18	23.79	74.96
WHSO2A	275	60.76	22.29	17.45	48.97	63.14	23.91	17.97	51.79
WHSO2B	275	60.77	22.3	17.45	48.98	63.15	23.92	17.97	51.79
WHSO4A	400	70.14	25.2	17.8	53.43	44.58	17.58	7.71	32.58
WIBA20	275	60.71	22.11	12.85	44.13	65.55	26.31	10.13	47.35
WIEN2A	275	54.18	19.97	9.54	37.79	52.64	20.68	8.64	37.88
WIEN2B	275	57.29	20.78	12.31	41.69	56.17	21.84	10.87	41.77
WILE40	400	112.17	40.38	24.01	81.11	55.29	20.93	12.42	42.02
WILL10	132	52.58	17.77	18.92	44.05	64.9	23.46	22.17	55.35
WILL20	275	40.86	14.63	14.54	35.23	44.08	16.17	14.63	37.5
WIMB11	132	32.44	10.65	10.82	25.88	42.48	15.32	13.4	35.07
WIMB12	132	26.63	9.69	9.25	22.95	32.19	11.86	10.72	27.49
WIMB13	132	21.49	7.5	7.78	18.39	27.11	9.9	9.24	23.24
WIMB14	132	21.07	7.42	7.66	18.15	26.5	9.67	9.2	22.88
WIMB20	275	91.93	32.46	24.17	70.07	91.41	35.72	20.61	71.13
WIMB2M	275	45.55	17.37	8.65	33.21	41.32	16.41	6.96	30.16
WIMB4A	400	68.75	25.61	12.8	49.01	115.93	45.61	17.96	82.47
WIMB4B	400	68.75	25.61	12.8	49.01	116.58	45.84	18.12	82.95
WISD20	275	63.31	22.25	20.37	51.84	70.04	26.54	18.66	56.2
WISD2A	275	56.67	20.16	16.94	45.44	60.91	23.82	16.04	49.72
WISD2B	275	56.68	20.16	16.95	45.46	52.13	19.63	14.68	42.45
WISD60	66	48.63	16.61	17.01	40.51	6.51	4.5	0	6.36
WMEL20	275	74.77	26.8	14.29	52.19	71.64	27.87	13.82	53.23
WTHU41	400	137.07	49.33	29.27	99.03	91.66	36.35	14.74	66.15
WTHU42	400	137.7	49.57	29.63	99.72	91.66	36.35	14.74	66.15
WTHU4A	400	118.88	42.99	25.69	86.49	39.16	15.36	7.7	29.42
WTHU4B	400	118.88	42.99	25.69	86.49	45.79	17.82	10.35	35.56
WWEY21	275	80.64	29.58	17.55	59.38	80.24	30.99	16.73	60.55
WWEY22	275	66.86	24.97	13.01	48.32	64.36	25.04	12.32	47.73
WWEY2A	275	54.58	19.73	14.97	42.87	55.46	21.32	13.49	43.64
WWEY4A	400	44.84	17.06	8.25	32.37	54.68	21.13	11.33	41.22
WWEY4B	400	51.96	19.4	11.74	39.18	74.24	28.38	14.66	54.8
WYLF10	132	47.21	14.62	14.19	34.87	58.94	20.49	16.58	45.56
WYLF40	400	54.49	19.02	13.36	40.26	48.45	19.18	7.63	34.75
WYMO40	400	118.64	43.05	26.58	87.46	30.84	12.01	5.73	22.72
YGAR4A	400	61.42	22.12	13.84	45.12	46.09	18.43	6.41	32.48
YGAR4B	400	62.49	22.46	14.19	45.95	47.78	18.91	7.44	34.19
YWER4A	400	59.58	21.44	13.57	43.9	84.33	32.06	18.53	63.88
YWER4B	400	61.19	21.98	14.05	45.13	90.56	34.27	20.54	69.01

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