

Table J.1 ABA Data: Springer/Cariboo NAG

Blast	Samples	Material	Tonnes	Blast Date	S (%)	AP	C (%)	NP	NPR
S1048-36	6	NAG	198,486	3-Jan-12	0.05	1.61	0.28	23.14	14.40
S1036-28	3	NAG	123,792	6-Jan-12	0.08	2.45	0.25	20.81	8.50
S1096-77	2	NAG	25,906	8-Jan-12	0.14	4.32	0.58	48.09	11.13
S1036-30	2	NAG	148,216	12-Jan-12	0.14	4.36	0.31	26.09	5.98
S1084-70	13	NAG	247,356	15-Jan-12	0.26	8.14	0.38	31.61	3.88
S1036-32	5	NAG	176,157	18-Jan-12	0.18	5.53	0.29	24.55	4.44
S1036-33	4	NAG	203,450	22-Jan-12	0.06	1.89	0.14	11.64	6.18
S1036-35	1	NAG	11,759	22-Jan-12	0.04	1.31	0.13	10.92	8.36
S1024-17	2	NAG	56,088	26-Jan-12	0.05	1.51	0.47	39.42	26.09
S1084-72	13	NAG	169,304	30-Jan-12	0.14	4.28	0.28	23.16	5.41
S1036-34	2	NAG	48,546	6-Feb-12	0.10	3.21	0.24	19.79	6.17
S1036-37	5	NAG	230,714	6-Feb-12	0.06	1.99	0.09	7.69	3.87
S1072-59	2	NAG	39,870	15-Feb-12	0.07	2.30	0.11	9.09	3.95
S1024-19	5	NAG	233,347	18-Feb-12	0.33	10.35	0.38	31.55	3.05
S1024-23	2	NAG	22,448	22-Feb-12	0.08	2.49	0.33	27.13	10.91
S1036-39	5	NAG	86,156	24-Feb-12	0.02	0.58	0.23	19.50	33.35
S1036-40	5	NAG	194,138	2-Mar-12	0.02	0.58	0.23	19.50	33.35
S1048-52	5	NAG	68,416	4-Mar-12	0.36	11.14	0.40	33.25	2.98
S1072-60	24	NAG	460,035	4-Mar-12	0.10	3.27	0.30	25.05	7.66
S1024-22	3	NAG	93,756	7-Mar-12	0.13	4.19	0.26	21.78	5.20
S1024-26	3	NAG	88,334	11-Mar-12	0.11	3.28	0.34	28.61	8.73
S1072-61	5	NAG	91,487	18-Mar-12	0.29	9.03	0.36	30.19	3.34
S1072-63	2	NAG	9,397	18-Mar-12	0.17	5.31	0.19	15.79	2.97
S1060-53	4	NAG	151,485	23-Mar-12	0.22	6.87	0.20	16.61	2.42
S1048-40	8	NAG	233,226	24-Mar-12	0.13	4.19	0.44	36.77	8.79
S1072-66	2	NAG	26,909	27-Mar-12	0.07	2.14	0.19	21.50	10.06
S1072-65	10	NAG	113,377	2-Apr-12	0.23	7.18	0.37	31.14	4.33
S1048-41	8	NAG	249,338	3-Apr-12	0.16	5.15	0.44	36.46	7.08
S1048-43	6	NAG	230,168	8-Apr-12	0.19	5.82	0.39	32.47	5.58
S1060-54	19	NAG	201,910	12-Apr-12	0.13	4.01	0.21	17.60	4.39
S1060-55	16	NAG	297,606	20-Apr-12	0.18	5.50	0.40	33.55	6.10
S1024-30	8	NAG	248,171	21-Apr-12	0.05	1.60	0.13	10.87	6.81
S1060-56	3	NAG	10,917	23-Apr-12	0.23	7.14	0.19	15.75	2.21
S1060-57	8	NAG	149,556	28-Apr-12	0.27	8.33	0.31	25.87	3.10
S1060-60	3	Nag	11,394	1-May-12	0.13	4.01	0.25	20.61	5.14
S1036-42	10	nag	270,413	1-May-12	0.11	3.39	0.31	26.17	7.71
S1036-43	2	Nag	33,021	8-May-12	0.11	3.35	0.35	29.09	8.68
S1036-44	2	Nag	63,124	16-May-12	0.13	3.95	0.47	38.84	9.82
S1060-61	2	NAG	20,654	18-May-12	0.11	3.51	0.27	22.84	7.94
S1036-45	5	Nag	141,941	20-May-12	0.09	2.73	0.37	31.17	11.41
S1048-45	23	Nag	331,018	25-May-12	0.11	3.59	0.40	32.94	9.18
S1048-44	8	Nag	156,702	25-May-12	0.16	5.12	0.31	26.02	5.08
S1024-33	4	Nag	117,332	31-May-12	0.05	1.70	0.30	25.21	14.81
S1048-46	3	NAG	41,317	5-Jun-12	0.21	6.57	0.23	19.33	2.94
S1048-47	10	NAG	179,827	3-Jun-12	0.24	7.45	0.36	29.79	4.00
S1048-49	1	NAG	42,358	12-Jun-12	0.33	10.19	0.38	31.25	3.07
S1048-50	10	NAG	175,449	14-Jun-12	0.23	7.14	0.22	18.55	2.60
S1048-51	5	NAG	84,881	20-Jun-12	0.24	7.51	0.27	22.62	3.01
S1048-52	3	NAG	17,700	22-Jun-12	0.17	5.45	0.29	24.11	4.43
S1048-53	6	NAG	48,608	26-Jun-12	0.13	4.06	0.22	18.20	4.48
S1180-25	25	NAG	414,319	6-Jun-12	0.04	1.15	0.12	9.82	8.55

Table J.1 ABA Data: Springer/Cariboo NAG

Blast	Samples	Material	Tonnes	Blast Date	S (%)	AP	C (%)	NP	NPR
S1012-08	3	NAG	46,897	10-Jun-12	0.03	1.06	0.26	21.28	19.98
S1012-10	3	NAG	47,246	16-Jun-12	0.10	3.02	0.27	22.20	7.36
S1024-34	4	NAG	159,513	10-Jun-12	0.07	2.08	0.37	31.19	15.03
S1036-46	15	NAG	281,253	5-Jul-12	0.22	6.73	0.33	27.75	4.12
S1036-47	4	NAG	30,773	10-Jul-12	0.16	4.97	0.26	21.73	4.37
S1036-48	22	NAG	284,964	14-Jul-12	0.18	5.71	0.51	42.75	7.48
S1036-50	14	NAG	190,172	20-Jul-12	0.22	7.00	0.50	42.03	6.00
S1036-51	19	NAG	309,897	24-Jul-12	0.15	4.82	0.41	34.22	7.11
S1036-53	3	NAG	6,896	31-Jul-12	0.42	13.22	0.44	36.84	2.79
S1024-36	14	NAG	236,493	7-Jul-12	0.28	8.72	0.35	28.98	3.32
S1024-38	10	NAG	182,834	15-Jul-12	0.05	1.67	0.27	22.19	13.25
S1180-27	15	NAG	264,048	29-Jul-12	0.03	1.07	0.22	17.98	16.77
S1024-39	2	NAG	106,491	3-Aug-12	0.09	2.73	0.11	9.30	3.41
S1024-40	12	NAG	170,930	14-Aug-12	0.19	5.83	0.33	27.70	4.75
S1024-42	4	NAG	23,013	28-Aug-12	0.27	8.48	0.40	33.19	3.92
S1012-19	3	NAG	77,137	24-Aug-12	0.08	2.43	0.37	30.67	12.60
S1036-55	4	NAG	69,634	9-Aug-12	0.23	7.34	0.27	22.63	3.08
S1168-35	11	NAG	260,382	20-Aug-12	0.03	1.04	0.12	9.62	10.47
S1168-34	9	NAG	99,219	25-Aug-12	0.03	1.07	0.24	20.07	22.02
S1036-56	4	NAG	11,351	31-Aug-12	1.07	6.82	0.24	17.26	2.53
S1024-41	6	NAG	158,838	2-Sep-12	0.15	4.62	0.28	23.45	5.07
S1024-44	9	NAG	141,140	10-Sep-12	0.19	5.87	0.45	37.11	6.32
S1024-45	4	NAG	40,915	13-Sep-12	0.09	2.96	0.30	24.61	8.32
S1024-43	15	NAG	192,302	16-Sep-12	0.33	10.30	0.56	46.82	4.54
S1012-24	4	NAG	57,063	23-Sep-12	0.04	1.29	0.11	8.92	6.89
S1012-23	3	NAG	61,476	13-Sep-12	0.10	3.25	0.66	55.03	16.96
S1012-21	5	NAG	129,853	3-Sep-12	0.08	2.53	0.20	16.36	6.45
S1168-36	14	NAG	431,239	11-Sep-12	0.04	1.29	0.20	16.28	15.42
S1024-46	6	NAG	33,502	27-Sep-12	0.26	7.97	0.24	20.33	2.55
S1024-47	13	NAG	236,104	27-Sep-12	0.23	7.22	0.37	31.21	4.32
S1024-50	21	NAG	369,220	4-Oct-12	0.16	5.02	0.38	31.90	6.36
S1012-26	2	NAG	66,762	5-Oct-12	0.03	1.07	0.16	13.21	12.34
S1024-49	3	NAG	10,902	13-Oct-02	0.21	6.58	0.27	22.50	3.42
S1024-51	2	NAG	34,543	13-Oct-12	0.27	8.42	0.32	26.67	3.17
S1012-27	3	NAG	89,605	15-Oct-12	0.06	1.82	0.31	25.59	14.06
S1012-28	4	NAG	144,950	15-Oct-12	0.16	4.84	0.23	19.06	3.94
S1024-52	6	NAG	35,054	23-Oct-12	0.23	7.12	0.29	23.78	3.34
S1156-43	10	NAG	398,199	30-Oct-12	0.04	1.21	0.13	10.49	8.69
S1156-44	6	NAG	197,446	16-Nov-12	0.03	1.07	0.12	9.68	9.07
S1012-30	13	NAG	128,726	1-Nov-12	0.18	5.77	0.29	24.34	4.22
S1024-54	3	NAG	17,525	9-Nov-12	0.22	6.84	0.44	36.59	5.35
S1000-09	2	NAG	38,199	13-Nov-12	0.10	3.08	0.18	15.10	4.90
S1012-32	13	NAG	281,412	22-Nov-12	0.14	4.31	0.35	29.01	6.73
S1012-33	5	NAG	114,844	29-Nov-12	0.22	6.81	0.43	35.80	5.25
S1144-66	9	NAG	229,831	1-Dec-12	0.04	1.35	0.22	18.55	13.72
S1012-34	19	NAG	189,535	5-Dec-12	0.18	5.48	0.43	35.78	6.54
S1012-35	2	NAG	17,864	6-Dec-12	0.08	2.64	0.35	28.79	10.89
S1156-45	4	NAG	61,398	9-Dec-12	0.04	1.13	0.21	17.25	15.23
S1012-36	5	NAG	42,593	13-Dec-12	0.28	8.75	0.35	28.89	3.30
S1012-39	1	NAG	7,657	14-Dec-12	0.10	3.10	0.25	20.84	6.73
S1012-40	9	NAG	145,707	17-Dec-12	0.27	8.47	0.29	24.21	2.86

Table J.1 ABA Data: Springer/Cariboo NAG

Blast	Samples	Material	Tonnes	Blast Date	S (%)	AP	C (%)	NP	NPR
S1144-67	8	NAG	319,296	20-Dec-12	0.04	1.11	0.15	12.44	11.19
S1012-41	6	NAG	111,618	23-Dec-12	0.07	2.31	0.33	27.10	11.73
S1000-11	2	NAG	42,069	31-Dec-12	0.05	1.66	0.51	42.46	25.51
S1012-43	2	NAG	9,330	31-Dec-12	0.19	6.02	0.21	17.75	2.95
C1168-01	6	NAG	80,080	21-Dec-12	0.12	3.62	0.67	55.45	15.31
TOTAL	753		14,615,819		0.135	4.207	0.300	24.988	5.94

Table J.2 ABA Data: Springer PAG

Blast	Samples	Material	Tonnes	Blast Date	S (%)	AP	C (%)	NP	NPR
S1096-77	9	PAG	283,812	8-Jan-12	1.52	47.50	0.31	26.21	0.55
S1084-70	4	PAG	184,227	15-Jan-12	0.21	6.45	0.09	7.87	1.25
S1084-72	10	PAG	210,748	30-Jan-12	0.57	17.84	0.21	17.76	1.00
S1084-73	3	PAG	17,783	9-Feb-12	1.84	57.60	0.19	15.89	0.28
S1084-76	2	PAG	26,150	9-Feb-12	0.83	26.06	0.24	20.38	0.78
S1084-74	10	PAG	319,980	9-Feb-12	1.02	31.73	0.22	18.66	0.59
S1072-59	4	PAG	184,105	15-Feb-12	0.26	8.07	0.11	9.54	1.18
S1084-75	7	PAG	402,545	19-Feb-12	1.68	52.35	0.37	30.42	0.58
S1072-60	2	PAG	44,934	4-Mar-12	0.42	13.16	0.27	22.29	1.69
S1072-61	6	PAG	153,622	18-Mar-12	0.59	18.48	0.21	17.52	0.95
S1072-62	9	PAG	258,051	20-Mar-12	1.52	47.46	0.30	24.90	0.52
S1060-53	3	PAG	82,805	23-Mar-12	0.45	14.11	0.16	13.23	0.94
S1072-66	7	PAG	140,972	27-Mar-12	1.71	53.41	0.30	25.11	0.47
S1072-65	11	PAG	216,864	2-Apr-12	0.69	21.45	0.28	23.20	1.08
S1048-41	2	PAG	30,354	3-Apr-12	0.71	22.25	0.41	33.99	0.62
S1048-43	2	PAG	36,660	8-Apr-12	0.68	21.14	0.17	13.96	0.63
S1060-54	6	PAG	47,108	12-Apr-12	0.35	10.84	0.20	16.31	1.50
S1060-55	5	PAG	73,253	20-Apr-12	0.36	11.26	0.20	16.38	1.45
S1060-56	2	PAG	5,043	23-Apr-12	0.35	10.88	0.13	11.21	1.03
S1060-57	11	PAG	212,843	28-Apr-12	0.49	15.18	0.14	11.60	0.76
S1060-58	5	PAG	27,083	29-Apr-12	0.86	26.86	0.44	36.59	1.36
S1060-60	2	Pag	4,913	1-May-12	2.14	66.72	0.34	28.21	0.42
S1060-59	12	PAG	259,473	6-May-12	1.14	35.63	0.48	40.00	1.12
S1060-61	9	PAG	242,621	18-May-12	1.69	52.83	0.29	23.85	0.59
S1048-44	5	Pag	52,468	25-May-12	0.99	30.99	0.35	29.49	0.95
S1048-46	1	PAG	3,865	5-Jun-12	0.43	13.56	0.19	15.75	1.16
S1048-47	3	PAG	37,382	3-Jun-12	0.29	8.97	0.12	10.27	1.15
S1048-49	11	PAG	223,133	12-Jun-12	1.17	36.51	0.24	20.03	0.55
S1048-51	5	PAG	61,320	20-Jun-12	0.28	8.80	0.12	10.38	1.18
S1048-52	3	PAG	14,769	22-Jun-12	1.46	45.56	0.37	30.78	0.68
S1048-53	13	PAG	217,339	26-Jun-12	1.58	49.27	0.32	26.46	0.54
S1036-46	10	PAG	70,992	5-Jul-12	0.68	21.27	0.30	24.75	1.16
S1036-47	2	PAG	6,493	10-Jul-12	0.31	9.58	0.15	12.17	1.27
S1036-48	1	PAG	11,186	14-Jul-12	0.72	22.34	0.33	27.25	1.22
S1036-50	6	PAG	79,010	20-Jul-12	0.53	16.67	0.31	25.53	1.53
S1036-51	1	PAG	13,396	24-Jul-12	0.38	11.72	0.25	20.59	1.76
S1036-52	4	PAG	6,261	20-Jul-12	0.72	22.63	0.34	28.50	1.26
S1036-53	13	PAG	180,393	31-Jul-12	0.97	30.39	0.35	29.06	0.96
S1024-36	2	PAG	32,155	7-Jul-12	0.48	14.91	0.27	22.17	1.49
S1024-40	6	PAG	42,466	14-Aug-12	0.80	24.84	0.25	21.17	0.85
S1036-55	12	PAG	273,733	9-Aug-12	0.59	18.58	0.16	13.34	0.72
S1036-56	7	PAG	86,083	31-Aug-12	0.74	23.03	0.26	21.67	0.94
S1024-41	6	PAG	241,224	2-Sep-12	0.59	18.51	0.19	15.45	0.83
S1024-45	2	PAG	24,080	13-Sep-12	0.71	22.25	0.42	34.88	1.57
S1024-43	9	PAG	98,435	16-Sep-12	0.96	30.07	0.42	34.69	1.15
S1024-50	5	PAG	86,014	4-Oct-12	0.90	27.98	0.31	25.55	0.91
S1024-49	3	PAG	2,657	13-Oct-02	0.72	22.43	0.26	21.86	0.97
S1024-51	7	PAG	74,082	13-Oct-12	1.00	31.31	0.21	17.57	0.56
S1024-52	2	PAG	6,346	23-Oct-12	0.27	8.47	0.10	8.04	0.95
S1012-30	4	PAG	40,201	1-Nov-12	0.90	27.97	0.26	21.86	0.78
S1024-54	4	PAG	29,882	9-Nov-12	0.38	11.95	0.15	12.19	1.02

Table J.2 ABA Data: Springer PAG

Blast	Samples	Material	Tonnes	Blast Date	S (%)	AP	C (%)	NP	NPR
S1024-53	3	PAG	60,702	19-Nov-12	0.86	26.95	0.38	31.45	1.17
S1012-32	10	PAG	85,205	22-Nov-12	0.56	17.49	0.27	22.41	1.28
S1012-34	3	PAG	20,342	5-Dec-12	1.04	32.64	0.34	28.06	0.86
S1012-37	5	PAG	77,455	11-Dec-12	0.87	27.08	0.46	38.52	1.42
S1012-39	3	PAG	20,810	14-Dec-12	1.07	33.45	0.32	27.03	0.81
S1012-40	2	PAG	8,194	17-Dec-12	1.14	35.52	0.30	25.29	0.71
TOTAL	316		5,754,022		0.956	29.861	0.267	22.210	0.74