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NNP

Entry	Selection No.	Pedigree	Source
1	Kharkof	Kharkof	check
2	Harding	Harding	check
3	Nuplains	Nuplains	check
4	Wesley	Wesley	check
5	NX02Y4481	BaiHuo/Kanto 107//Ike/3/SD94217W	ARS-LNK
6	NW03Y2016	MO8/REDLAND//KS91H184/3*RIO BLANCO	ARS-LNK
7	NW03Y2022	MO8/NE94406 (=NE86582//84MC29/NE82583)//KS91H184/3*RIO BLANCO	ARS-LNK
8	NW03Y2023	MO8/NE94406 (=NE86582//84MC29/NE82583)//KS91H184/3*RIO BLANCO	ARS-LNK
9	HV9W02-942R	53/3/ABL/1113//K92/4/JAG/5/KS89180B	WestBred
10	NE01604	KS91H184/ARLIN SIB//KS91HW29/3/NE91631 (=NE82761/REDLAND)/4/V	UNL
11	NE02528	KS92H363-2/NE95417 (=ABILENE/KARL)	UNL
12	NE02584	KS92H363-2/NE95417 (=ABILENE/KARL)	UNL
13	NE03458	NE95544 (=MCVEY 78015/NE88521)/W91-348//MILLENNIUM	UNL
14	NH03609	N95L159/3/MILLENNIUM SIB//TXGH125888-120*4/FS2	UNL
15	NH03614	N95L164/3/MILLENNIUM SIB//TXGH125888-120*4/FS2	UNL
16	NI03427	WI88-052/WI81-162-610W//N94L189	UNL
17	NI04430	N94L205/Robinof 98	UNL
18	NW03638	KS87H22/MW09 (KS75216/CC5)//NE93469	UNL
19	NW03681	WI88-052/WI81-162-610W//N94L189	UNL
20	98x0435-15	W95-091xW96-427	Agripro-N
21	SD02279	SD93528/Culver	SDSU
22	SD02480	Tandem/Cougar	SDSU
23	SD02286	SD93528/SD96132	SDSU
24	SD02771	IDO537/SD93380//Nekota	SDSU
25	SD01058	XH1877/NE967430	SDSU
26	SD96240-3-1	NE87513/USSR#67	SDSU
27	SD98W175-1	KS84273BB-10/KSSB110-9//KS831374-141B/YE1110/3/KS82W418/SPN	SDSU
28	SD01W064	RUSSIANPI592033/NE92458//NEKOTA	SDSU
29	SD00151-7	KS94U328/KS84063-9-39-3-1W//SD93522	SDSU
30	BC97ROM-50W	JAGGERxROMANIAN	Agripro-N

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		SKCS Average Kernel						Hardness			
		Moisture		Weight		Diameter		SKCS		Class	Distribution
LINE	Wt/Bu (lb)	(%)	(sd)	(mg)	(sd)	(mm)	(sd)		(sd)		
Kharkof	61.9	10.4	0.5	32.6	8.2	2.31	0.43	48	20	MIXED	023-023-025-029-03
Harding	61.6	10.0	0.5	31.6	8.9	2.33	0.50	74	17	HARD	003-004-010-083-01
Nuplains	63.3	10.2	0.3	31.2	8.8	2.25	0.42	67	15	HARD	001-007-021-071-01
Wesley	62.3	9.9	0.6	35.7	9.9	2.49	0.55	60	15	HARD	005-012-028-055-01
NX02Y4481	60.1	9.8	0.6	31.4	8.7	2.29	0.47	58	17	HARD	008-016-028-048-02
NW03Y2016	62.6	9.5	0.5	28.2	8.1	2.03	0.40	68	17	HARD	003-006-019-072-01
NW03Y2022	61.3	9.4	0.5	28.2	9.6	2.13	0.49	71	19	HARD	003-007-014-076-01
NW03Y2023	61.2	9.2	0.6	26.1	8.3	2.01	0.44	74	18	HARD	002-004-012-082-01
HV9W02-942R	61.6	10.2	0.5	28.1	7.2	2.18	0.44	71	16	HARD	002-004-016-078-01
NE01604	62.5	10.0	0.4	35.8	8.7	2.56	0.50	68	15	HARD	001-005-019-075-01
NE02528	63.3	9.7	0.6	35.8	9.0	2.50	0.47	66	14	HARD	002-007-023-068-01
NE02584	63.8	10.0	0.4	35.3	8.0	2.52	0.44	63	14	HARD	001-012-026-061-01
NE03458	63.4	9.8	0.6	32.6	8.8	2.38	0.53	69	15	HARD	002-006-017-075-01
NH03609	62.7	10.0	0.5	37.4	11.0	2.57	0.64	65	16	HARD	002-009-025-064-01
NH03614	63.2	10.0	0.6	38.2	10.3	2.64	0.57	65	16	HARD	002-010-024-064-01
NI03427	64.1	10.0	0.7	28.0	8.1	2.10	0.45	76	16	HARD	000-004-008-088-01
NI04430	60.3	10.3	0.4	36.0	10.0	2.43	0.54	57	18	MIXED	011-016-027-046-03
NW03638	62.5	9.7	0.6	30.9	7.6	2.13	0.45	72	17	HARD	000-008-013-079-01
NW03681	63.3	10.1	0.7	34.6	9.5	2.46	0.53	71	16	HARD	000-006-015-079-01
98x0435-15	62.9	9.7	0.7	33.8	8.8	2.51	0.56	73	15	HARD	001-004-014-081-01
SD02279	61.1	9.9	0.6	33.3	9.5	2.45	0.54	76	15	HARD	000-002-008-090-01
SD02480	62.5	9.6	0.7	33.6	8.8	2.38	0.49	64	16	HARD	003-009-024-064-01
SD02286	63.0	9.8	0.6	32.8	7.9	2.35	0.41	72	14	HARD	000-004-013-083-01
SD02771	61.3	9.9	0.6	30.8	8.9	2.28	0.53	75	15	HARD	000-005-011-084-01
SD01058	62.2	10.1	0.5	34.3	10.0	2.31	0.50	63	17	HARD	004-011-026-059-01
SD96240-3-1	60.7	9.8	0.4	32.9	9.0	2.33	0.49	64	16	HARD	004-009-023-064-01
SD98W175-1	63.4	9.8	0.6	31.0	8.5	2.35	0.47	70	16	HARD	002-006-014-078-01
SD01W064	62.7	10.0	0.6	29.2	8.2	2.17	0.46	69	17	HARD	001-007-019-073-01
SD00151-7	63.3	9.9	0.7	29.4	8.7	2.27	0.44	79	15	HARD	001-003-006-090-01
BC97ROM-50W	61.4	9.8	0.8	32.9	8.7	2.31	0.50	70	14	HARD	001-004-017-078-01

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	Wheat		Flour			Noodle Color					
LINE	Protein (%)	Milling Yield (%)	Ash (%)	Protein (%)	PPO	L @ 0	a @ 0	b @ 0	Delta L 24 hrs	Delta a 24 hrs	Delta b 24 hrs
Kharkof	14.0	68.3	0.44	12.9	0.438	80.85	-2.03	23.34	-13.03	1.50	2.09
Harding	12.9	69.1	0.46	12.1	0.447	77.93	-1.74	25.80	-10.83	1.47	-0.32
Nuplains	13.7	71.3	0.42	12.7	0.448	80.30	-2.59	25.10	-10.53	1.30	1.02
Wesley	13.2	73.1	0.41	12.5	0.518	79.76	-2.52	22.83	-10.75	1.59	0.58
NX02Y4481	14.3	66.8	0.42	13.6	0.681	79.69	-2.00	23.17	-18.33	2.21	1.64
NW03Y2016	14.4	67.2	0.46	13.6	0.763	78.54	-2.72	27.50	-12.28	1.66	0.28
NW03Y2022	14.4	66.7	0.45	13.4	0.599	78.78	-2.49	26.41	-13.58	2.26	-0.63
NW03Y2023	15.0	67.0	0.49	13.7	0.611	77.63	-2.40	26.62	-13.43	1.85	-1.30
HV9W02-942R	12.6	69.4	0.44	12.1	0.515	79.28	-2.41	25.24	-12.68	1.60	2.44
NE01604	13.0	69.5	0.44	12.1	0.443	79.92	-1.69	21.49	-11.04	1.05	2.72
NE02528	12.5	71.8	0.48	11.7	0.387	79.67	-2.12	24.74	-9.69	1.78	0.90
NE02584	13.5	71.8	0.46	12.7	0.368	80.21	-2.17	25.19	-10.80	1.28	1.66
NE03458	11.5	72.7	0.39	10.9	0.395	79.41	-2.20	25.66	-9.63	1.54	1.76
NH03609	12.7	74.4	0.40	11.8	0.502	79.72	-2.19	24.09	-10.52	1.46	2.26
NH03614	12.0	72.3	0.39	11.1	0.434	78.28	-2.14	21.06	-10.67	1.97	2.47
NI03427	12.3	72.4	0.38	11.1	0.517	80.45	-2.16	22.75	-11.32	1.34	2.34
NI04430	12.4	73.7	0.39	11.8	0.428	81.31	-2.45	23.38	-11.69	1.42	0.84
NW03638	12.8	71.0	0.41	12.0	0.536	81.31	-2.67	25.17	-11.24	1.39	0.93
NW03681	13.6	73.0	0.47	12.7	0.498	81.38	-2.65	23.19	-11.90	1.92	1.82
98x0435-15	12.7	72.0	0.38	11.8	0.408	79.61	-2.19	24.02	-9.75	1.20	1.26
SD02279	12.4	71.5	0.47	11.5	0.486	80.28	-1.83	23.14	-12.61	1.42	2.49
SD02480	13.7	70.6	0.37	12.4	0.413	78.65	-1.99	23.27	-11.51	1.77	2.09
SD02286	13.6	69.9	0.39	12.9	0.513	76.36	-1.83	17.40	-14.84	1.75	4.99
SD02771	12.1	71.2	0.43	11.4	0.473	80.24	-2.14	22.54	-13.25	1.81	3.07
SD01058	12.4	71.0	0.40	11.5	0.456	80.66	-2.53	25.18	-11.40	1.25	1.88
SD96240-3-1	13.2	69.0	0.39	12.5	0.457	79.31	-2.45	25.66	-10.99	1.57	-0.18
SD98W175-1	12.8	71.4	0.41	11.6	0.475	80.68	-2.42	23.29	-11.67	1.78	1.53
SD01W064	11.5	72.7	0.45	10.8	0.543	81.24	-2.83	24.31	-11.67	2.24	-0.75
SD00151-7	11.8	69.0	0.44	11.3	0.556	80.30	-2.67	26.28	-11.25	1.56	0.38
BC97ROM-50W	12.9	71.6	0.39	11.9	0.533	80.76	-2.48	24.97	-11.40	1.67	0.35

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Line	Flour Protein (%)	Mixograph Absorption (%)	Mixograph As-Is (min)	Mixograph Corrected (min)	Mixograph Tolerance
Kharkof	12.9	64.4	4.50	4.50	4
Harding	12.1	63.1	3.50	3.50	3
Nuplains	12.7	64.1	2.50	2.50	2
Wesley	12.5	63.8	3.38	3.38	2
NX02Y4481	13.6	65.6	2.38	2.38	1
NW03Y2016	13.6	65.6	1.63	1.63	1
NW03Y2022	13.4	64.3	2.00	2.00	1
NW03Y2023	13.7	64.7	1.75	1.75	0
HV9W02-942R	12.1	62.1	3.25	3.25	2
NE01604	12.1	63.1	3.38	3.38	3
NE02528	11.7	62.5	3.38	3.27	4
NE02584	12.7	64.1	1.63	1.63	3
NE03458	10.9	61.1	2.50	2.17	3
NH03609	11.8	62.7	3.50	3.43	4
NH03614	11.1	61.5	3.88	3.48	4
NI03427	11.1	61.5	2.00	1.79	2
NI04430	11.8	62.6	4.25	4.14	5
NW03638	12.0	62.9	7.38	7.37	6
NW03681	12.7	64.1	3.63	3.63	3
98x0435-15	11.8	62.6	3.88	3.77	4
SD02279	11.5	62.2	3.25	3.07	3
SD02480	12.4	63.6	3.50	3.50	2
SD02286	12.9	64.4	3.63	3.63	5
SD02771	11.4	61.9	3.00	2.77	3
SD01058	11.5	62.2	3.38	3.19	4
SD96240-3-1	12.5	63.7	2.50	2.50	2
SD98W175-1	11.6	62.3	2.38	2.28	1
SD01W064	10.8	60.9	3.25	2.77	4
SD00151-7	11.3	61.7	2.75	2.51	4
BC97ROM-50W	11.9	62.8	2.38	2.35	3

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	RVA							
Line	Stirring Number (RVU)	Peak Viscosity (RVU)	Trough Viscosity (RVU)	Breakdown (RVU)	Final Viscosity (RVU)	Set back (RVU)	Peak Time (min)	Pasting Temp (Deg. C)
Kharkof	178.33	250.25	203.00	47.25	308.25	105.25	6.78	67.45
Harding	183.25	229.00	190.83	38.17	294.50	103.67	6.78	64.60
Nuplains	184.00	203.67	166.17	37.50	277.25	111.08	6.81	66.20
Wesley	170.17	200.75	172.58	28.17	269.58	97.00	6.61	65.05
NX02Y4481	120.83	175.42	90.17	85.25	142.58	52.42	4.01	65.85
NW03Y2016	154.17	277.25	189.00	88.25	319.58	130.58	6.97	52.60
NW03Y2022	162.58	237.83	187.50	50.33	267.33	79.83	6.91	66.25
NW03Y2023	185.50	252.17	207.92	44.25	284.25	76.33	6.94	67.45
HV9W02-942R	163.33	232.67	194.83	37.83	286.83	92.00	6.65	66.55
NE01604	185.25	188.75	156.33	32.42	246.92	90.58	6.68	66.15
NE02528	170.67	208.75	175.67	33.08	265.00	89.33	6.71	65.40
NE02584	159.83	188.75	158.00	30.75	246.17	88.17	6.65	66.20
NE03458	180.33	248.33	205.33	43.00	312.25	106.92	6.62	64.30
NH03609	152.67	198.42	162.17	36.25	260.25	98.08	6.42	65.05
NH03614	155.17	207.25	173.67	33.58	277.42	103.75	6.49	64.70
NI03427	133.92	259.67	199.08	60.58	294.42	95.33	6.71	65.05
NI04430	158.08	229.08	182.75	46.33	290.17	107.42	6.42	65.80
NW03638	160.08	284.08	221.00	63.08	311.33	90.33	6.71	64.25
NW03681	151.67	254.33	201.42	52.92	287.58	86.17	6.52	62.75
98x0435-15	167.75	235.33	197.50	37.83	295.92	98.42	6.61	65.00
SD02279	177.33	206.00	170.92	35.08	264.33	93.42	6.58	65.40
SD02480	156.92	223.50	186.58	36.92	273.50	86.92	6.68	63.90
SD02286	142.58	256.42	214.58	41.83	314.83	100.25	6.81	65.40
SD02771	156.92	237.08	197.00	40.08	303.50	106.50	6.62	65.45
SD01058	168.25	260.42	216.25	44.17	324.83	108.58	6.78	64.70
SD96240-3-1	182.75	247.33	202.17	45.17	307.25	105.08	6.81	65.45
SD98W175-1	194.67	230.42	193.67	36.75	293.00	99.33	6.81	63.90
SD01W064	189.17	240.00	200.67	39.33	304.42	103.75	6.61	65.50
SD00151-7	180.33	238.42	199.92	38.50	308.17	108.25	6.71	66.15
BC97ROM-50W	173.17	229.58	190.17	39.42	296.58	106.42	6.75	63.50

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	Flour		Mix Time		Dough					
	Protein	Water Abs.	As-is	Corrected	Weight	Proof Height	Crumb Grain	As-Rec'd.	Specific Volume	Loaf Volume Potential
Line	(%)	(%)	(min)	(min)	(g)	(cm)		(cc)	(cc/g)	(cc/%)
Kharkof	12.9	63.5	5.75	5.75	171.5	7.6	3.9	875	5.8	58
Harding	12.1	62.7	5.00	5.00	171.3	7.4	4.0	925	6.2	69
Nuplains	12.7	63.8	4.00	4.00	173.2	7.4	4.2	915	6.1	64
Wesley	12.5	62.9	5.13	5.13	173.1	7.1	4.5	895	5.9	62
NX02Y4481	13.6	63.6	3.25	3.25	172.6	7.7	0.0	950	6.4	61
NW03Y2016	13.6	61.8	3.38	3.38	171.0	7.2	3.5	895	6.0	56
NW03Y2022	13.4	62.0	2.75	2.75	171.7	7.1	2.2	840	5.6	52
NW03Y2023	13.7	61.5	2.50	2.50	171.2	7.4	2.9	863	5.7	53
HV9W02-942R	12.1	61.8	3.50	3.50	171.1	7.1	3.8	870	5.8	63
NE01604	12.1	63.4	4.50	4.50	172.4	6.8	3.0	800	5.3	55
NE02528	11.7	63.7	4.75	4.60	172.4	6.8	3.8	875	5.8	66
NE02584	12.7	63.7	3.13	3.13	173.0	7.0	2.0	860	5.7	58
NE03458	10.9	61.7	4.25	3.69	170.9	6.8	3.2	780	5.2	60
NH03609	11.8	63.8	6.00	5.88	172.9	7.0	2.9	800	5.2	57
NH03614	11.1	63.6	5.63	5.05	172.2	7.1	3.8	820	5.4	64
NI03427	11.1	60.7	2.88	2.57	170.1	7.3	4.0	880	5.9	71
NI04430	11.8	62.7	6.75	6.58	172.2	7.5	4.2	925	6.2	71
NW03638	12.0	62.8	9.50	9.49	171.3	7.5	4.0	965	6.5	74
NW03681	12.7	64.2	5.25	5.25	173.6	7.5	2.8	945	6.2	67
98x0435-15	11.8	64.9	6.75	6.56	173.5	7.2	4.0	815	5.4	59
SD02279	11.5	61.4	5.75	5.43	170.7	7.1	3.0	810	5.4	60
SD02480	12.4	63.7	4.75	4.75	172.7	7.3	4.0	905	6.0	64
SD02286	12.9	64.7	6.00	6.00	173.8	7.5	2.0	860	5.7	57
SD02771	11.4	61.6	5.13	4.73	171.1	7.1	3.5	860	5.8	67
SD01058	11.5	61.8	5.00	4.72	172.3	7.2	3.5	850	5.7	64
SD96240-3-1	12.5	60.8	3.13	3.13	170.3	7.2	2.5	830	5.6	56
SD98W175-1	11.6	60.7	3.50	3.35	170.3	7.2	3.5	860	5.8	65
SD01W064	10.8	61.8	5.00	4.27	170.9	7.2	3.0	855	5.7	71
SD00151-7	11.3	61.7	5.00	4.56	170.7	7.2	3.0	880	5.9	70
BC97ROM-50W	11.9	62.6	3.13	3.09	171.5	7.3	3.0	860	5.7	63