

2009 NRPN Intraregional Production Zone

Entry	Selection No.	Pedigree	Source
1	Kharkof	Kharkof	check
2	Antelope	Antelope	check
3	Wesley	Wesley	check
4	Jerry	Jerry	check
5	NX05M4180-6	92201D5-2-29 X 99 waxy bulk	ARS-LNK
6	NX05M4499-1	Cimarron/RB//BaiHuo4/L910114/3/Ks87809-10/Arapahoe//P2737w	ARS-LNK
7	AP00x0100-51	W95-301/W98-151	Agripro North
8	NW04Y2188	MO8/REDLAND//KS91H184/3*RIO BLANCO	ARS-LNK
9	LE1911	KS92WGRC15/CDC Kestrel//CDC Falcon	AAFC
10	NE04490	NE95589/NE94632(=ABILENE/NORKAN//RAWHIDE)//NE95510 (=ABILEN	UNL
11	NE05548	NE97426 (=BRIGANTINA.2*ARAPAHOE)/NE98574 (=CO850267/RAWHID	UNL
12	NE05549	NI98414 (=NE90614/NE87612//NE87612)/WESLEY	UNL
13	NE06469	Unknown	UNL
14	NE06607	NE98466=(KS89H50-4/NE90518(=BRL//SXL/BENN))/Wesley	UNL
15	NI04420	NE96644(=ODESSKAYA P./CODY)//PAVON/*3SCOUT66/3/WAHOO SIB	UNL
16	NI04427	KS98HW22//W95-615W/N94L189	UNL
17	SD07W053	Wendy/SD00W073//KS01HW54-4	SDSU
18	SD07126	SD92107-2/SD99W042	SDSU
19	SD07W084	SD92107-5/Falcon//Jagalene	SDSU
20	SD07165	SD97250/SD99W066//Avalanche	SDSU
21	SD05118-1	Wesley/NE93613	SDSU
22	CA9W07-817	Falcon/Jerry	WestBred, Fargo
23	CA9W07-818	Jerry/Falcon	WestBred, Fargo
24	CA9W07-819	Jerry/Falcon	WestBred, Fargo
25	NE06436	Wesley/OK98699=(TAM 200/HBB313E//2158)	UNL



Hard Winter Wheat Quality Report 2009 NRPN-NP

1 - Test weight	10	11 - Flour protein	8
2 - SKCS kernel weight	8	12 - Bake absorption	15
3 - Kernel weight SD	8	13 - Mixograph absorption	5
4 - SKCS kernel diameter	8	14 - Bake mix time	10
5 - Kernel diameter SD	8	15 - Mixograph mix time	5
6 - SKCS hardness	10	16 - Mixograph tolerance	5
7 - Hardness SD	8	17 - Dough weight	
8 - Flour yield	30	18 - Proof height	2
9 - Flour ash	10	19 - Loaf volume	20
10 - Milling score		20 - Volume regression	5
		21 - Crumb grain	25

ID	Milling Score	Rating	%	Baking Score	Rating	%	1RS	Trait Deficiencies
Kharkof	52.6	Very Poor	79.0	45.6	Average	72.9		
Antelope	58.7	Poor	88.1	41.5	Average	66.4		10,
Wesley	66.6	Very Good	100.0	39.1	Poor	62.5		14,
Jerry	65.0	Very Good	97.6	57.2	Very Good	91.4		
NX05M4180-6	38.3	Very Poor	57.5	25.8	Very Poor	41.2	1AL	1,8,9,11,12,13,15,16,21,
NX05M4499-1	42.8	Very Poor	64.3	17.1	Very Poor	27.3		6,8,10,12,14,15,16,17,19,21,
SY Gold	65.1	Very Good	97.7	49.5	Very Good	79.1		18,
NW04Y2188	60.1	Average	90.1	26.2	Very Poor	42.0		16,
LE1911	59.8	Poor	89.7	21.2	Very Poor	33.8		12,14,15,16,18,19,
NE04490	61.0	Average	91.6	39.5	Poor	63.2		12,16,
NE05548	64.2	Good	96.4	55.1	Very Good	88.1		
NE05549	58.2	Very Poor	87.4	56.0	Very Good	89.6		3,
NE06469	64.9	Very Good	97.4	50.6	Good	80.9		19,
NE06607	63.6	Good	95.4	46.4	Good	74.2		
NI04420	62.6	Good	93.9	42.2	Average	67.5		16,
NI04427	60.5	Average	90.8	49.3	Good	78.9	1BL	2,13,
SD07W053	61.7	Good	92.6	36.9	Poor	59.1	1BL	12,16,21,
SD07126	54.5	Very Poor	81.7	42.8	Average	68.5		16,21,
SD07W084	61.6	Good	92.4	62.5	Very Good	100.0		
SD07165	58.9	Poor	88.4	42.1	Poor	67.3		
SD05118-1	61.5	Average	92.3	45.3	Good	72.4		14,15,
CA9W07-817	60.6	Average	90.9	41.8	Poor	66.8		
CA9W07-818	59.1	Poor	88.7	45.4	Average	72.6		
CA9W07-819	59.8	Poor	89.8	46.1	Good	73.8		
NE06436	65.8	Very Good	98.8	34.7	Very Poor	55.4		5,9,14,

Quality scores and ratings are calculated directly from the relative trait weightings (printed at the top of the page) and are applicable only to the nursery selected.

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LINE	Wt/Bu (lb)	SKCS Average Kernel						Hardness			
		Moisture		Weight		Diameter		SKCS	Class	Distribution	
		(%)	(sd)	(mg)	(sd)	(mm)	(sd)				
								(sd)			
Kharkof	62.3	11.1	0.7	29.9	6.6	2.61	0.26	49 19	MIXED	20--26--29--25--03	
Antelope	62.9	10.4	0.7	32.7	8.9	2.69	0.32	59 17	HARD	06--16--25--53--02	
Wesley	62.6	10.7	0.7	36.1	8.5	2.82	0.31	63 18	HARD	06--13--20--61--02	
Jerry	61.9	11.2	0.6	33.2	8.1	2.65	0.31	66 16	HARD	02--09--19--70--01	
NX05M4180-6	59.2	11.2	0.7	30.4	8.9	2.64	0.33	42 17	MIXED	30--33--24--13--03	
NX05M4499-1	61.4	10.7	0.7	33.1	7.9	2.57	0.33	29 19	SOFT	62--21--09--08--04	
AP00x0100-51	62.7	10.4	0.8	31.8	7.6	2.66	0.27	78 16	HARD	00--02--10--88--01	
NW04Y2188	62.1	10.4	0.6	30.5	7.5	2.62	0.29	60 17	HARD	06--17--26--51--02	
LE1911	62.0	10.7	0.6	30.3	8.7	2.55	0.30	65 17	HARD	03--09--24--64--01	
NE04490	63.4	10.3	0.9	34.1	9.1	2.75	0.35	70 17	HARD	02--07--16--75--01	
NE05548	61.9	10.2	0.7	33.0	7.9	2.68	0.32	65 15	HARD	02--08--26--64--01	
NE05549	62.5	10.5	0.7	34.1	9.5	2.72	0.34	66 18	HARD	03--11--22--64--01	
NE06469	62.6	10.7	0.7	34.4	8.7	2.74	0.31	70 16	HARD	02--07--14--77--01	
NE06607	61.3	10.3	0.7	32.9	8.7	2.66	0.29	66 17	HARD	03--09--19--69--01	
NI04420	63.7	10.5	0.7	35.8	9.1	2.87	0.35	73 19	HARD	01--07--19--73--01	
NI04427	63.6	10.1	0.8	28.6	7.6	2.62	0.30	71 17	HARD	01--06--14--79--01	
SD07W053	62.8	10.0	0.8	29.5	7.2	2.59	0.27	71 16	HARD	00--06--18--76--01	
SD07126	61.5	10.4	0.5	31.6	9.0	2.68	0.33	70 15	HARD	01--04--17--78--01	
SD07W084	62.6	10.1	0.8	31.5	7.7	2.62	0.28	72 17	HARD	01--05--16--78--01	
SD07165	63.3	10.5	0.8	31.5	8.8	2.69	0.33	67 18	HARD	03--09--24--64--01	
SD05118-1	63.0	10.1	0.6	30.8	7.9	2.65	0.32	73 18	HARD	02--06--14--78--01	
CA9W07-817	62.4	10.6	0.6	30.6	8.2	2.58	0.29	69 16	HARD	01--03--21--75--01	
CA9W07-818	63.4	10.3	0.7	29.9	7.4	2.57	0.29	67 16	HARD	02--08--23--67--01	
CA9W07-819	61.6	10.4	0.7	31.7	8.6	2.66	0.33	75 17	HARD	01--05--13--81--01	
NE06436	62.8	10.7	0.5	34.1	8.8	2.79	0.36	73 17	HARD	00--06--13--81--01	

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LINE	Wheat		Flour			Noodle Color					
	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	14.7	64.6	0.33	13.9	0.602	81.83	-2.38	22.47	-10.25	0.86	1.90
Antelope	13.7	67.2	0.32	11.7	0.616	83.00	-1.98	20.41	-9.98	0.44	4.58
Wesley	14.4	70.9	0.32	12.8	0.711	81.76	-1.92	20.53	-10.68	0.52	3.09
Jerry	13.2	70.0	0.32	12.3	0.531	83.44	-2.77	24.53	-10.66	1.11	1.99
NX05M4180-6	12.1	60.6	0.38	11.1	0.493	85.21	-3.33	23.59	-13.50	0.80	8.37
NX05M4499-1	13.3	60.4	0.29	11.6	0.312	83.49	-2.94	22.81	-9.54	1.01	3.10
AP00x0100-51	13.4	67.1	0.26	11.7	0.509	54.92	-2.25	23.79	16.33	0.80	2.86
NW04Y2188	13.1	67.4	0.27	11.9	0.584	82.87	-2.33	21.79	-10.27	1.10	1.69
LE1911	12.5	68.6	0.32	11.8	0.721	84.21	-2.15	19.08	-13.34	1.29	5.43
NE04490	13.2	66.5	0.28	11.6	0.855	81.18	-2.19	22.17	-10.86	1.16	1.89
NE05548	13.9	69.3	0.32	12.2	0.638	82.15	-1.90	21.54	-12.42	0.82	3.17
NE05549	13.1	66.7	0.30	11.8	0.660	82.66	-2.22	21.20	-11.72	1.03	2.98
NE06469	12.2	68.8	0.30	12.0	0.649	82.43	-2.48	23.03	-10.62	0.97	3.41
NE06607	13.4	69.9	0.31	11.9	0.686	83.20	-1.82	18.06	-13.36	0.55	5.24
NI04420	13.6	67.8	0.33	11.9	0.589	81.96	-2.07	21.68	-11.06	0.62	3.36
NI04427	13.2	66.3	0.29	12.3	0.623	82.31	-2.68	24.25	-10.64	0.64	2.93
SD07W053	14.1	66.4	0.30	13.0	0.867	81.24	-2.51	24.32	-11.55	1.15	0.68
SD07126	13.8	64.1	0.32	12.8	0.673	82.66	-2.98	26.30	-12.25	1.03	2.10
SD07W084	14.0	66.0	0.25	12.5	0.894	81.73	-2.11	22.35	-11.91	1.02	1.78
SD07165	12.8	66.8	0.30	11.6	0.607	83.35	-2.83	22.69	-11.72	1.11	3.07
SD05118-1	12.3	67.2	0.28	11.4	0.616	83.53	-2.30	20.05	-11.73	0.85	4.85
CA9W07-817	13.9	66.9	0.30	12.4	0.591	82.94	-2.34	22.52	-11.89	0.91	3.58
CA9W07-818	13.6	65.5	0.31	12.4	0.632	82.93	-2.28	21.64	-12.19	0.71	5.09
CA9W07-819	13.3	67.6	0.34	11.8	0.590	82.46	-2.37	22.40	-11.58	0.99	2.51
NE06436	13.1	70.2	0.35	12.8	0.691	82.90	-2.15	20.97	-10.00	1.10	2.77

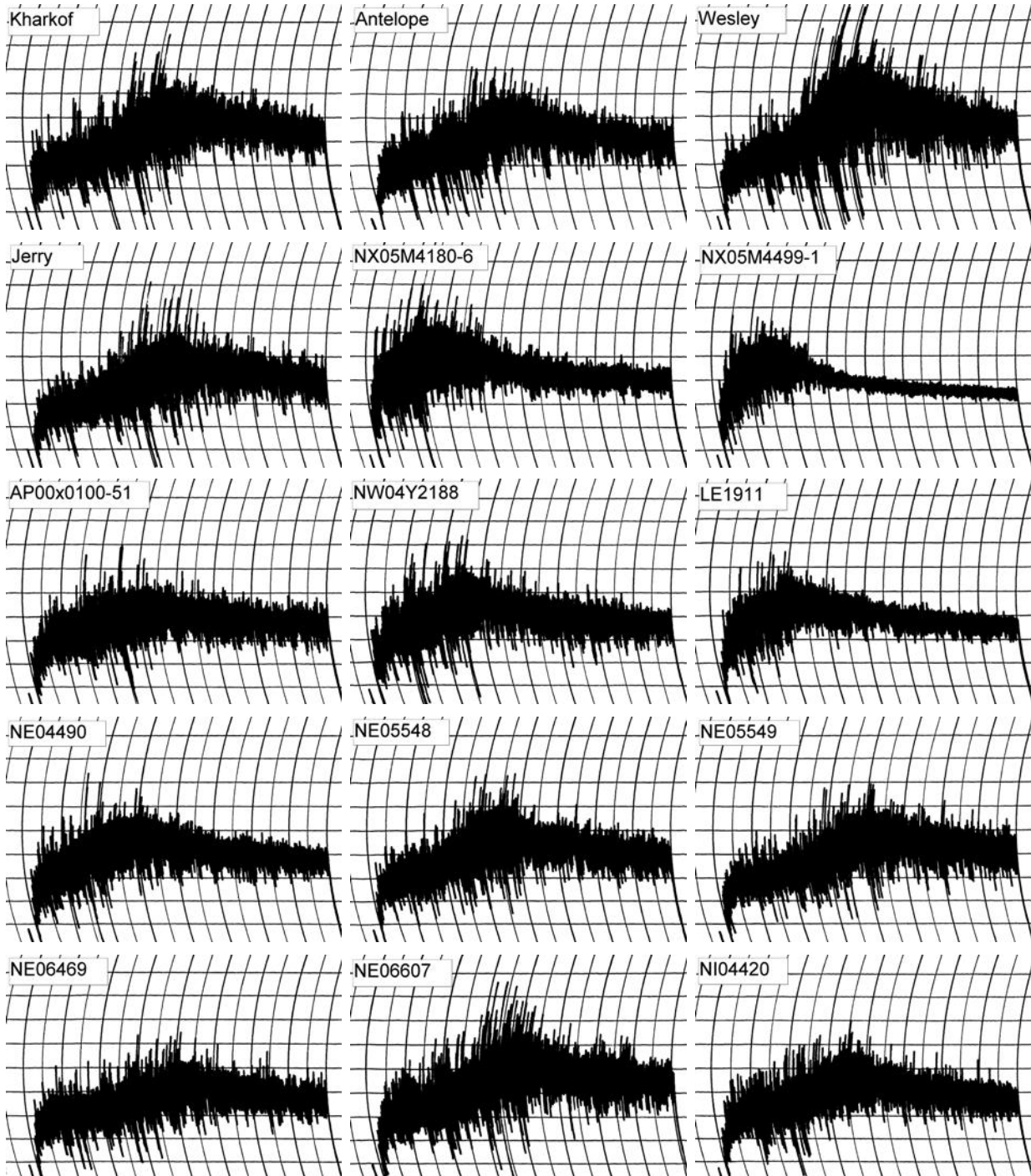
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	Flour Protein	Mixograph			
		Absorption	As-Is	Corrected	Tolerance
Line	(%)	(%)	(min)	(min)	
Kharkof	13.9	64.1	4.00	4.00	3
Antelope	11.7	62.5	3.63	3.51	3
Wesley	12.8	64.3	3.88	3.88	3
Jerry	12.3	63.4	4.00	4.00	3
NX05M4180-6	11.1	61.5	1.88	1.69	1
NX05M4499-1	11.6	62.4	1.38	1.32	0
AP00x0100-51	11.7	62.5	3.25	3.13	3
NW04Y2188	11.9	61.7	2.50	2.47	2
LE1911	11.8	61.6	2.00	1.95	1
NE04490	11.6	62.3	2.75	2.63	1
NE05548	12.2	63.3	3.50	3.50	3
NE05549	11.8	62.6	4.00	3.89	4
NE06469	12.0	62.0	4.00	4.00	3
NE06607	11.9	63.7	3.88	3.82	4
NI04420	11.9	62.8	3.50	3.47	2
NI04427	12.3	61.4	4.38	4.38	3
SD07W053	13.0	62.6	3.13	3.13	0
SD07126	12.8	62.4	3.25	3.25	1
SD07W084	12.5	63.8	3.88	3.88	3
SD07165	11.6	62.3	4.50	4.29	4
SD05118-1	11.4	62.8	6.00	5.54	5
CA9W07-817	12.4	63.7	4.00	4.00	4
CA9W07-818	12.4	63.6	3.50	3.50	3
CA9W07-819	11.8	62.7	3.75	3.67	3
NE06436	12.8	64.2	5.00	5.00	4

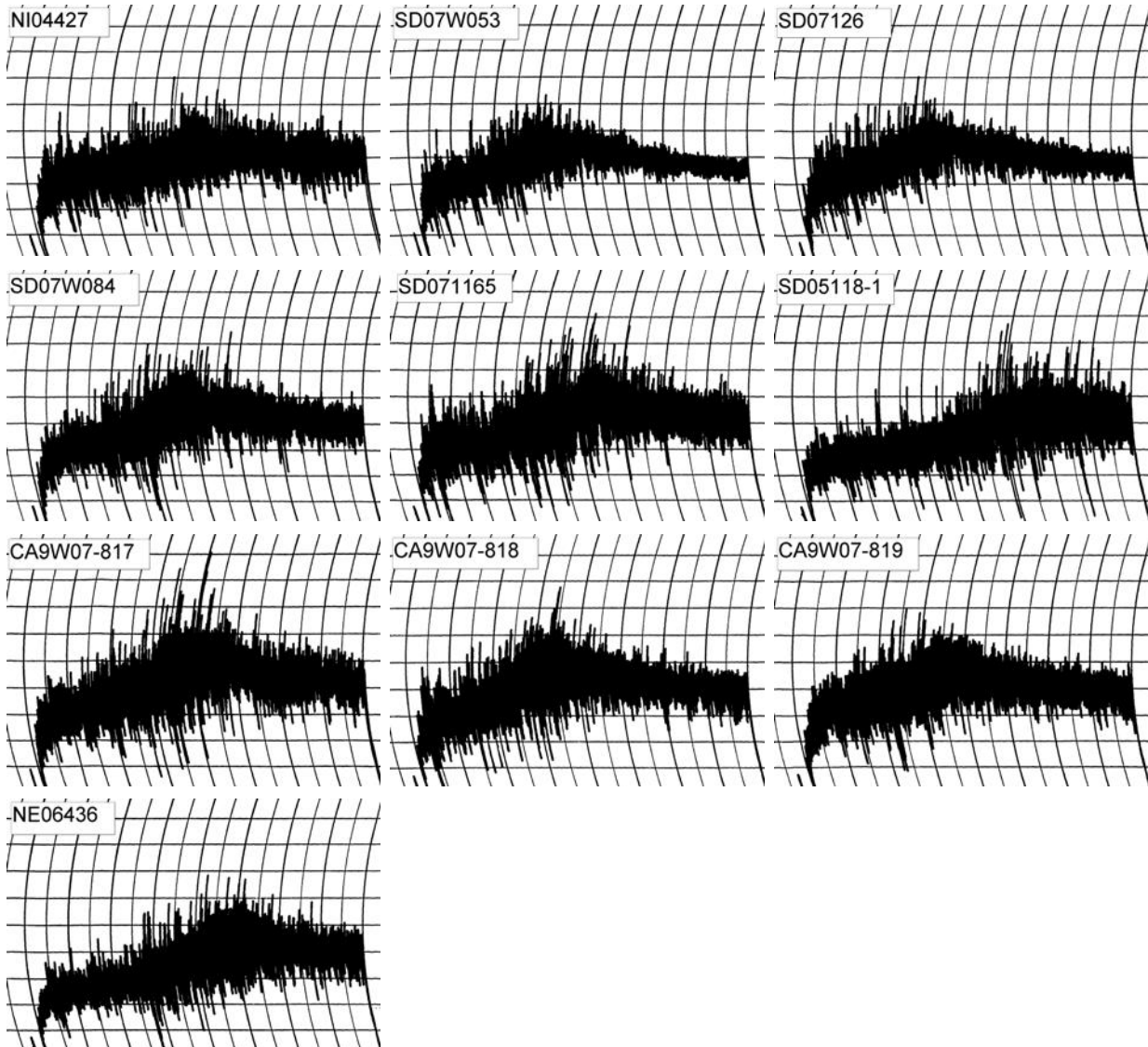
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Line	RVA							
	Stirring Number	Peak Viscosity	Trough Viscosity	Breakdown	Final Viscosity	Set back	Peak Time	Pasting Temp
	(RVU)	(RVU)	(RVU)	(RVU)	(RVU)	(RVU)	(min)	(Deg. C)
Kharkof	142.00	235.08	163.75	71.33	280.25	116.50	6.40	86.45
Antelope	131.92	206.75	140.83	65.92	247.92	107.08	6.27	86.40
Wesley	124.00	203.58	144.42	59.17	266.50	122.08	6.20	86.40
Jerry	126.17	204.92	147.33	57.58	269.42	122.08	6.20	85.70
NX05M4180-6	89.50	125.00	65.00	60.00	100.33	35.33	4.07	68.65
NX05M4499-1	88.58	216.83	122.50	94.33	210.67	88.17	6.33	70.25
AP00x0100-51	130.75	213.75	156.17	57.58	268.50	112.33	6.40	86.50
NW04Y2188	114.50	233.08	163.42	69.67	292.58	129.17	6.27	85.70
LE1911	116.17	254.92	170.17	84.75	293.92	123.75	6.27	86.60
NE04490	124.08	221.67	163.08	58.58	289.00	125.92	6.33	86.55
NE05548	133.92	231.17	171.17	60.00	295.17	124.00	6.40	86.45
NE05549	130.75	217.83	150.67	67.17	267.83	117.17	6.27	86.45
NE06469	125.67	216.50	143.08	73.42	258.92	115.83	6.20	86.45
NE06607	109.42	257.67	155.42	102.25	250.83	95.42	6.40	67.80
NI04420	116.33	191.42	134.17	57.25	242.83	108.67	6.20	67.75
NI04427	135.25	227.00	167.67	59.33	298.17	130.50	6.27	86.55
SD07W053	105.00	180.00	111.17	68.83	215.17	104.00	6.07	84.65
SD07126	132.08	243.50	168.25	75.25	292.33	124.08	6.40	86.50
SD07W084	132.42	254.75	174.67	80.08	297.42	122.75	6.40	68.60
SD07165	133.25	272.25	178.42	93.83	298.25	119.83	6.40	86.45
SD05118-1	118.33	217.00	152.58	64.42	282.42	129.83	6.20	85.65
CA9W07-817	132.75	212.17	156.75	55.42	276.92	120.17	6.27	87.40
CA9W07-818	121.42	234.17	167.50	66.67	293.25	125.75	6.27	86.40
CA9W07-819	129.75	245.00	167.42	77.58	288.33	120.92	6.33	67.80
NE06436	121.50	226.50	146.92	79.58	262.83	115.92	6.20	67.75

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Line	Flour		Mix Time		Dough					
	Protein	Water Abs.	As-is	Corrected	Weight	Proof Height	Crumb Grain	As-Rec'd.	Specific Volume	Loaf Volume Potential
	(%)	(%)	(min)	(min)	(g)	(cm)		(cc)	(cc/g)	(cc/%)
Kharkof	13.9	63.4	5.50	5.50	172.6	8.0	4.5	950	6.3	60
Antelope	11.7	63.5	4.63	4.48	172.8	7.6	4.5	880	5.8	66
Wesley	12.8	64.9	7.25	7.25	174.3	7.8	4.5	920	6.1	63
Jerry	12.3	63.4	5.25	5.25	172.4	7.6	4.0	895	5.9	64
NX05M4180-6	11.1	58.9	3.25	2.92	168.4	7.5	0.0	860	5.8	68
NX05M4499-1	11.6	58.3	2.00	1.91	163.7	7.2	0.5	805	5.5	58
AP00x0100-51	11.7	61.5	4.00	3.86	171.0	7.0	4.0	850	5.7	63
NW04Y2188	11.9	60.5	3.00	2.96	170.4	7.2	3.5	830	5.5	60
LE1911	11.8	59.3	2.50	2.44	168.7	7.0	2.5	820	5.6	59
NE04490	11.6	59.6	3.25	3.11	169.3	7.5	3.0	880	6.0	67
NE05548	12.2	61.5	4.25	4.25	170.9	7.7	4.0	905	6.1	66
NE05549	11.8	62.4	5.63	5.48	171.8	7.8	4.0	900	6.1	68
NE06469	12.0	63.6	5.75	5.74	172.5	7.2	4.0	825	5.4	58
NE06607	11.9	63.9	5.50	5.42	173.5	7.6	4.8	960	6.4	74
NI04420	11.9	63.6	4.13	4.09	173.1	7.7	3.8	940	6.2	72
NI04427	12.3	61.7	5.13	5.13	171.3	7.4	3.0	905	6.1	65
SD07W053	13.0	59.7	3.13	3.13	168.8	7.7	2.0	910	6.1	61
SD07126	12.8	61.8	4.25	4.25	170.5	7.5	2.0	910	6.0	62
SD07W084	12.5	63.5	5.00	5.00	173.0	7.7	4.0	965	6.4	70
SD07165	11.6	63.8	6.25	5.96	173.1	7.9	4.9	960	6.4	77
SD05118-1	11.4	62.6	9.00	8.31	170.6	7.5	4.0	905	6.0	72
CA9W07-817	12.4	64.6	6.00	6.00	173.5	7.5	4.5	895	5.9	63
CA9W07-818	12.4	63.5	4.88	4.88	175.3	7.9	3.8	925	6.1	67
CA9W07-819	11.8	63.6	5.00	4.89	173.0	7.7	3.2	945	6.3	73
NE06436	12.8	64.5	7.38	7.38	173.3	7.3	4.8	890	5.9	60