

2009 SRPN Intraregional Production Zone

Entry	Selection No.	Pedigree	Source
1	Kharkof	Kharkof	check
2	Scout 66	Scout 66	check
3	TAM-107	TAM-107	check
4	Trego	Trego	check
5	KS05HW136-3	KS98HW518(93HW91/93HW255)//KS98H245(IKE/TA2460//*3T200)/TREG	KSU-HAYS
6	KS06HW46-3	KS98HW220-5-1(ARLIN/YUMA)/KS01HW162(TGO/BTY SIB)	KSU-HAYS
7	T163	93WGRC27/T811	Trio
8	T164	93WGRC27/T811	Trio
9	T165	TAM-107/T21	Trio
10	T166	T81/KS93U206	Trio
11	KS970093-8-9-#1-1	HBK1064-3/KS84063-9-39-3-4W//X960103	KSU-Man
12	KS06O3A~57-1	OVERLEY*3/AMADINA	KSU-Man
13	KS06O3A~58-1	OVERLEY*3/AMADINA	KSU-Man
14	KS020056TM~4-1	KS920709-B-5-2-2/TX00C5008	KSU-Man
15	OK05128	KS94U275/OK94P549 F4:11	OSU
16	OK04525	FFR525W/Hickok//Coronado F4:12	OSU
17	OK04111	2174*2/Jagger F4:12	OSU
18	OK04315	N563/OK94P597 F4:12	OSU
19	OK05212	OK95616-1/Hickok//Betty F4:11	OSU
20	NE05403	IN92823A1-1-4-5/NE92458	UNL
21	NE05426	W95-091 (=KS85-663-8-9//WI81-133/THUNDERBIRD)/AKRON	UNL
22	NE05496	KS95HW62-6 (=KS87H325/RIO BLANCO)/Hallam	UNL
23	NE06545	KS92-946-B-15-1=(ABI86*3414/JAG//K92)/Alliance	UNL
24	NE05430	IN92823A1-1-4-5/NE92458	UNL
25	CO03W054-2	KS96HW94//Trego/CO960293	CSU
26	CO03064-2	CO970547/Prowers 99	CSU
27	TX01V5134RC-3	TAM-200/JAGGER	Texas A&M
28	TX04V075080	JAGGER/TX93V5722//TX95D8905	Texas A&M
29	TX05A001614	X96V057/TX95V6214	Texas A&M
30	TX05A001639	X96V079/KS84W063-9-39	Texas A&M
31	TX05A001828	TX99U8618/Cutter	Texas A&M
32	TX05A001822	2145/X940786-6-7	Texas A&M
33	TX06A001263	TX97V3006/TX98V6239	Texas A&M
34	TX05A001398	NE93407/TX86V1115/4/T107//TX78V3620/Ctk78/3/TX87V1233	Texas A&M
35	CO04393	Stanton/CO950043	CSU
36	CO04499	Above/Stanton	CSU
37	AP00x0100-51	W95-301/W98-151	AgriPro North
38	Jackpot	W98-232/KS96WGRC38	AgriPro South
39	AP05T2413	(KS95U522/TX95VA0011)F1/Jagger	AgriPro South
40	AP06TA4520	Mason /Jagger	AgriPro South
41	AP06T3832	HBK0935-29-15/KS90W077-2-2/VBF0589-1	AgriPro South
42	NW04Y2188	MO8/REDLAND//KS91H184/3*RIO BLANCO	ARS-LNK
43	HV9W04-1186W	XH1881/98HW423	Westbred, Haven
44	HV9W04-1594R	KS89180B-2-1-1/CMBW91M02959T//JGR	Westbred, Haven
45	HV9W03-1596R	B1397-1/WGRC33	Westbred, Haven
46	HV9W05-1125R	00KSULR-73/G980039	Westbred, Haven



Hard Winter Wheat Quality Report 2009 SRPN-NHP

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	47.4	Very Poor	73.9	57.7	Very Good	94.1		4,8,16,20,
Scout66	57.8	Good	90.1	57.7	Very Good	94.2		16,
TAM 107	56.5	Very Good	88.1	37.8	Poor	61.7	1AL	16,
Trego	60.5	Good	94.3	29.3	Very Poor	47.8		16,
Tiger	57.8	Average	90.1	58.4	Very Good	95.4		
KS06HW46-3	57.8	Average	90.2	39.5	Average	64.5		3,16,
T163	57.2	Average	89.1	33.4	Very Poor	54.5		
T164	55.3	Poor	86.2	39.3	Poor	64.1	1AL	
T165	58.0	Good	90.4	49.4	Good	80.7	1AL	16,
T166	60.6	Very Good	94.4	29.4	Very Poor	48.0	1AL	16,18,
KS970093-8-9-#1-1	58.1	Good	90.5	37.8	Average	61.6		12,15,16,17,
KS06O3A~57-1	61.6	Very Good	96.1	61.3	Very Good	100.0		16,
KS06O3A~58-1	54.6	Poor	85.2	46.7	Good	76.3	1BL	3,16,20,
KS020056TM~4-1	53.6	Very Poor	83.6	45.0	Average	73.4		1,2,16,
OK05128	54.3	Very Poor	84.6	36.7	Poor	59.8		
OK04525	53.8	Very Poor	83.9	27.8	Very Poor	45.4		9,10,12,16,17,20,
OK04111	53.7	Very Poor	83.7	35.5	Poor	58.0		9,10,16,
OK04315	54.9	Poor	85.6	45.9	Good	74.9		16,20,
OK05212	56.8	Average	88.5	44.9	Good	73.3		4,15,16,18,
NE05403	52.0	Very Poor	81.1	51.7	Very Good	84.3		2,4,16,
NE05426	58.0	Good	90.4	44.9	Good	73.3		14,15,
NE05496	57.2	Average	89.2	36.6	Poor	59.7		
NE06545	52.9	Very Poor	82.5	53.6	Very Good	87.4		5,
NE05430	57.5	Average	89.6	37.4	Poor	61.0		16,
Snowmass	58.2	Good	90.7	34.6	Very Poor	56.5		5,11,14,15,
CO03064-2	56.4	Average	88.0	20.0	Very Poor	32.6		11,13,14,15,17,18,19,
TX01V5134RC-3	59.9	Good	93.4	50.3	Very Good	82.0	1AL	10,16,
TX04V075080	52.7	Very Poor	82.1	43.5	Average	71.0		3,8,
TX05A001614	55.0	Poor	85.7	34.8	Poor	56.8	1BL	16,
TX05A001639	56.1	Poor	87.5	44.7	Average	72.9		

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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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
TX05A001828	61.2	Very Good	95.3	50.0	Good	81.5		19,
TX05A001822	58.0	Good	90.5	61.2	Very Good	99.9		
TX06A001263	56.9	Average	88.7	45.2	Good	73.7	1AL	
TX05A001398	61.1	Very Good	95.2	54.9	Very Good	89.7		16,
CO04393	61.9	Very Good	96.5	32.0	Very Poor	52.2		
CO04499	63.9	Very Good	99.6	40.2	Average	65.5		
SY Gold	62.9	Very Good	98.1	47.1	Good	76.9		16,
Jackpot	64.2	Very Good	100.0	34.0	Very Poor	55.4		16,
AP05T2413	55.8	Poor	87.0	45.8	Good	74.8	1AL	15,16,
AP06TA4520	54.5	Very Poor	85.0	35.4	Poor	57.8		5,
Greer	55.4	Poor	86.4	41.2	Average	67.3		9,
NW04Y2188	55.1	Poor	85.9	30.5	Very Poor	49.8		1,16,
HV9W04-1186W	60.8	Very Good	94.8	36.2	Poor	59.1		10,16,
HV9W04-1594R	53.9	Very Poor	83.9	43.7	Average	71.4	1BL	9,10,16,
HV9W03-1596R	58.6	Good	91.4	43.3	Average	70.7		13,16,
HV9W05-1125R	56.3	Poor	87.8	32.4	Very Poor	52.8		4,16,

2009 SRPN Intraregional Production Zone

Northern High Plains

LINE	Wt/Bu (lb)	SKCS Average Kernel						Hardness			
		Moisture		Weight		Diameter		SKCS	Class	Distribution	
		(%)	(sd)	(mg)	(sd)	(mm)	(sd)				
								(sd)			
Kharkof	60.0	11.8	0.5	30.3	7.2	2.61	0.26	47 18	MIXED	24--31--21--24--03	
Scout 66	60.1	11.4	0.5	34.0	8.4	2.74	0.32	60 16	HARD	06--16--26--52--02	
TAM-107	60.7	11.3	0.6	34.5	8.9	2.74	0.35	67 18	HARD	03--11--16--70--01	
Trego	62.2	11.4	0.6	34.2	8.9	2.78	0.33	68 16	HARD	02--07--17--74--01	
KS05HW136-3	60.9	11.3	0.6	34.1	8.8	2.74	0.32	64 16	HARD	03--10--22--65--01	
KS06HW46-3	62.8	11.3	0.5	33.4	9.9	2.75	0.35	74 16	HARD	00--04--15--81--01	
T163	60.3	11.1	0.5	34.8	7.9	2.84	0.30	60 17	HARD	04--17--28--51--01	
T164	59.8	11.2	0.6	34.9	9.0	2.82	0.32	61 16	HARD	04--11--28--57--01	
T165	61.7	11.1	0.5	32.8	8.8	2.74	0.35	72 19	HARD	03--04--16--77--01	
T166	61.6	10.9	0.6	35.4	8.8	2.78	0.36	72 15	HARD	00--02--16--82--01	
KS970093-8-9-#1-1	61.1	11.0	0.5	31.4	8.8	2.68	0.33	65 17	HARD	02--08--25--65--01	
KS06O3A-57-1	60.4	11.0	0.5	35.2	8.2	2.88	0.31	58 16	HARD	05--18--32--45--01	
KS06O3A-58-1	60.1	10.9	0.5	35.0	9.5	2.83	0.36	74 16	HARD	00--03--13--84--01	
KS020056TM-4-1	59.4	10.5	0.6	28.9	7.9	2.63	0.32	74 16	HARD	00--03--15--82--01	
OK05128	61.3	10.7	0.5	31.3	8.8	2.71	0.35	67 17	HARD	03--06--25--66--01	
OK04525	60.9	11.4	0.5	31.8	8.6	2.74	0.37	74 19	HARD	02--05--13--80--01	
OK04111	60.0	11.7	0.5	31.5	8.4	2.78	0.34	76 17	HARD	00--04--12--84--01	
OK04315	61.4	11.4	0.5	33.2	8.6	2.74	0.34	72 18	HARD	02--05--15--78--01	
OK05212	60.2	11.5	0.5	31.1	8.3	2.62	0.34	63 16	HARD	03--10--24--63--01	
NE05403	60.0	11.8	0.5	27.1	7.7	2.56	0.32	63 17	HARD	04--13--25--58--01	
NE05426	60.8	10.1	0.6	32.4	8.4	2.74	0.34	70 16	HARD	00--08--19--73--01	
NE05496	60.4	10.4	0.6	32.6	9.1	2.75	0.35	68 16	HARD	02--06--21--71--01	
NE06545	60.1	10.9	0.7	32.9	9.3	2.73	0.38	50 19	MIXED	22--22--26--30--03	
NE05430	61.1	10.2	0.6	29.8	8.2	2.65	0.34	66 16	HARD	02--10--21--67--01	
CO03W054-2	61.4	10.5	0.4	34.6	9.4	2.85	0.40	77 16	HARD	01--03--10--86--01	
CO03064-2	60.1	10.9	0.4	32.7	8.6	2.68	0.33	69 16	HARD	02--08--19--71--01	
TX01V5134RC-3	62.2	10.7	0.5	31.5	8.2	2.76	0.35	82 15	HARD	00--02--04--94--01	
TX04V075080	60.4	10.5	0.6	34.5	9.6	2.77	0.33	64 16	HARD	02--11--25--62--01	
TX05A001614	60.9	11.0	0.5	33.1	8.6	2.78	0.37	70 18	HARD	02--06--18--74--01	
TX05A001639	59.8	10.9	0.6	32.6	8.8	2.77	0.35	73 17	HARD	02--04--16--78--01	
TX05A001828	61.8	11.7	0.5	35.2	8.8	2.83	0.33	68 16	HARD	02--09--14--75--01	
TX05A001822	61.5	11.3	0.5	33.1	8.9	2.75	0.34	57 17	HARD	07--19--30--44--02	
TX06A001263	60.8	12.0	0.5	31.9	8.9	2.74	0.35	75 15	HARD	00--03--13--84--01	
TX05A001398	61.5	11.3	0.5	31.7	7.7	2.75	0.29	67 16	HARD	01--09--22--68--01	
CO04393	61.2	11.5	0.5	35.0	8.8	2.84	0.37	59 18	HARD	07--17--25--51--02	
CO04499	61.6	11.4	0.6	37.6	8.4	2.88	0.36	64 17	HARD	03--11--22--64--01	
AP00x0100-51	61.5	11.2	0.5	33.2	8.0	2.74	0.30	73 17	HARD	00--05--14--81--01	
Jackpot	60.7	11.3	0.5	37.9	8.6	2.93	0.31	65 15	HARD	01--10--21--68--01	
AP05T2413	60.4	11.1	0.5	36.8	9.2	2.90	0.34	67 15	HARD	01--08--22--69--01	
AP06TA4520	60.1	11.2	0.6	34.4	9.4	2.76	0.38	73 19	HARD	04--05--13--78--01	
AP06T3832	59.6	11.7	0.5	32.7	9.2	2.68	0.35	63 18	HARD	06--11--23--60--02	
NW04Y2188	59.0	11.5	0.5	31.4	8.0	2.66	0.32	54 16	HARD	08--24--34--34--02	
HV9W04-1186W	60.4	11.3	0.5	31.8	8.1	2.68	0.32	55 17	HARD	10--17--35--38--02	
HV9W04-1594R	61.3	11.8	0.6	29.8	8.3	2.65	0.37	80 19	HARD	01--03--10--86--01	
HV9W03-1596R	60.9	11.5	0.5	34.3	8.4	2.84	0.36	68 16	HARD	01--07--20--72--01	

LINE	Wt/Bu (lb)	SKCS Average Kernel						Hardness			
		Moisture		Weight		Diameter		SKCS		Class	Distribution
		(%)	(sd)	(mg)	(sd)	(mm)	(sd)	(sd)			
HV9W05-1125R	61.0	11.7	0.6	30.2	8.1	2.62	0.30	67	19	HARD	02--13--21--64--01

2009 SRPN Intraregional Production Zone

Northern High Plains

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	14.1	64.1	0.40	12.8	0.494	80.71	-1.88	23.26	-11.29	2.33	-1.58
Scout 66	13.6	67.5	0.34	12.3	0.505	80.77	-1.45	21.08	-10.92	1.95	-0.88
TAM-107	12.7	67.4	0.38	11.4	0.593	79.91	-1.94	24.80	-10.88	2.13	-0.87
Trego	13.3	67.4	0.34	11.7	0.615	80.32	-2.00	23.04	-9.67	1.80	0.43
KS05HW136-3	12.7	67.4	0.38	11.5	0.221	81.44	-1.80	20.77	-9.85	1.37	2.63
KS06HW46-3	13.2	66.3	0.38	11.7	0.669	82.41	-1.93	21.48	-12.23	1.02	2.16
T163	12.3	66.8	0.37	11.1	0.533	80.99	-1.85	21.91	-10.53	1.63	1.58
T164	13.6	66.6	0.38	12.1	0.529	80.52	-1.80	22.57	-11.33	1.74	0.62
T165	12.0	67.7	0.37	11.0	0.500	80.82	-2.10	23.52	-10.20	1.24	1.42
T166	12.3	67.3	0.39	11.1	0.541	80.30	-1.99	24.02	-11.13	1.33	2.53
KS970093-8-9-#1-1	12.9	68.6	0.39	11.5	0.525	80.98	-2.04	24.22	-10.31	1.04	2.23
KS06O3A-57-1	13.8	69.1	0.37	12.8	0.494	81.36	-1.93	23.01	-11.33	1.31	2.26
KS06O3A-58-1	14.3	65.9	0.43	13.1	0.422	80.05	-1.78	24.57	-11.08	1.42	1.43
KS020056TM-4-1	13.8	65.8	0.40	12.6	0.470	80.34	-1.47	22.45	-11.27	1.33	2.52
OK05128	12.7	66.0	0.36	11.6	0.254	81.76	-1.60	21.47	-9.88	1.04	3.58
OK04525	13.3	67.0	0.45	11.8	0.195	79.53	-1.87	24.01	-8.80	1.71	1.24
OK04111	13.0	66.3	0.48	11.9	0.537	82.40	-1.84	21.41	-13.00	1.88	3.71
OK04315	13.8	65.7	0.40	12.5	0.467	81.34	-1.92	22.90	-11.59	1.72	1.33
OK05212	13.3	67.5	0.35	12.2	0.501	81.10	-1.80	22.25	-8.28	2.17	-1.73
NE05403	12.7	66.5	0.40	11.7	0.525	81.92	-2.12	22.64	-10.65	1.61	1.36
NE05426	13.2	66.9	0.36	12.0	0.467	81.21	-1.48	21.15	-11.29	0.73	3.26
NE05496	12.5	67.9	0.38	11.2	0.642	81.80	-1.85	21.93	-11.61	0.78	3.99
NE06545	12.4	68.2	0.33	10.8	0.507	82.40	-1.98	23.16	-11.95	0.81	3.41
NE05430	12.2	68.4	0.40	11.4	0.517	80.78	-2.39	24.48	-9.80	1.18	0.85
CO03W054-2	11.6	67.0	0.39	10.4	0.640	83.15	-2.58	23.19	-12.18	1.18	2.26
CO03064-2	11.6	66.9	0.37	9.9	0.521	83.65	-1.56	19.09	-11.35	0.91	4.61
TX01V5134RC-3	13.0	66.5	0.41	11.2	0.555	82.06	-1.86	21.78	-13.27	1.36	4.52
TX04V075080	13.7	64.9	0.37	12.4	0.623	81.90	-1.68	21.07	-14.00	1.51	2.92
TX05A001614	12.6	66.4	0.40	11.6	0.443	81.13	-2.17	24.40	-10.60	1.06	3.27
TX05A001639	12.9	67.6	0.42	11.6	0.557	81.51	-1.84	22.26	-12.62	0.72	4.99
TX05A001828	12.1	67.9	0.36	10.8	0.512	82.20	-2.06	21.57	-10.13	0.74	3.64
TX05A001822	12.4	68.4	0.36	11.0	0.461	81.87	-2.41	24.16	-9.32	0.91	2.58
TX06A001263	12.4	66.4	0.39	11.1	0.590	82.40	-1.75	20.79	-12.62	0.66	5.33
TX05A001398	12.1	68.0	0.36	10.8	0.491	81.24	-1.83	21.82	-10.16	0.63	3.48
CO04393	12.1	70.7	0.36	10.8	0.607	81.19	-2.13	23.26	-10.03	1.22	2.86
CO04499	12.0	69.6	0.37	10.5	0.541	81.42	-2.43	24.33	-9.28	0.97	2.57
AP00x0100-51	12.4	68.7	0.36	10.9	0.412	80.68	-1.58	22.61	-10.17	0.76	3.63
Jackpot	12.6	69.5	0.39	11.4	0.513	81.22	-1.48	21.17	-11.37	0.74	4.23
AP05T2413	13.8	65.4	0.40	12.4	0.434	79.96	-1.86	23.38	-11.86	1.37	3.33
AP06TA4520	12.8	67.5	0.40	11.2	0.474	80.98	-2.04	23.72	-11.15	1.17	3.32
AP06T3832	12.4	69.7	0.43	10.9	0.611	81.96	-1.74	20.70	-13.41	1.25	4.62
NW04Y2188	13.3	67.7	0.35	12.1	0.517	82.67	-1.93	21.61	-12.98	1.31	1.39

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
	(%)	(%)	(%)	(%)							
HV9W04-1186W	13.5	71.3	0.39	11.0	0.559	83.78	-2.60	21.85	-12.25	2.30	0.80
HV9W04-1594R	12.2	66.5	0.43	10.8	0.362	81.52	-2.02	23.28	-11.80	1.55	1.81
HV9W03-1596R	12.0	67.3	0.39	10.6	0.539	81.47	-1.84	22.68	-11.48	1.22	3.10
HV9W05-1125R	12.5	68.0	0.40	11.4	0.570	81.05	-2.25	23.77	-10.90	2.25	-0.30

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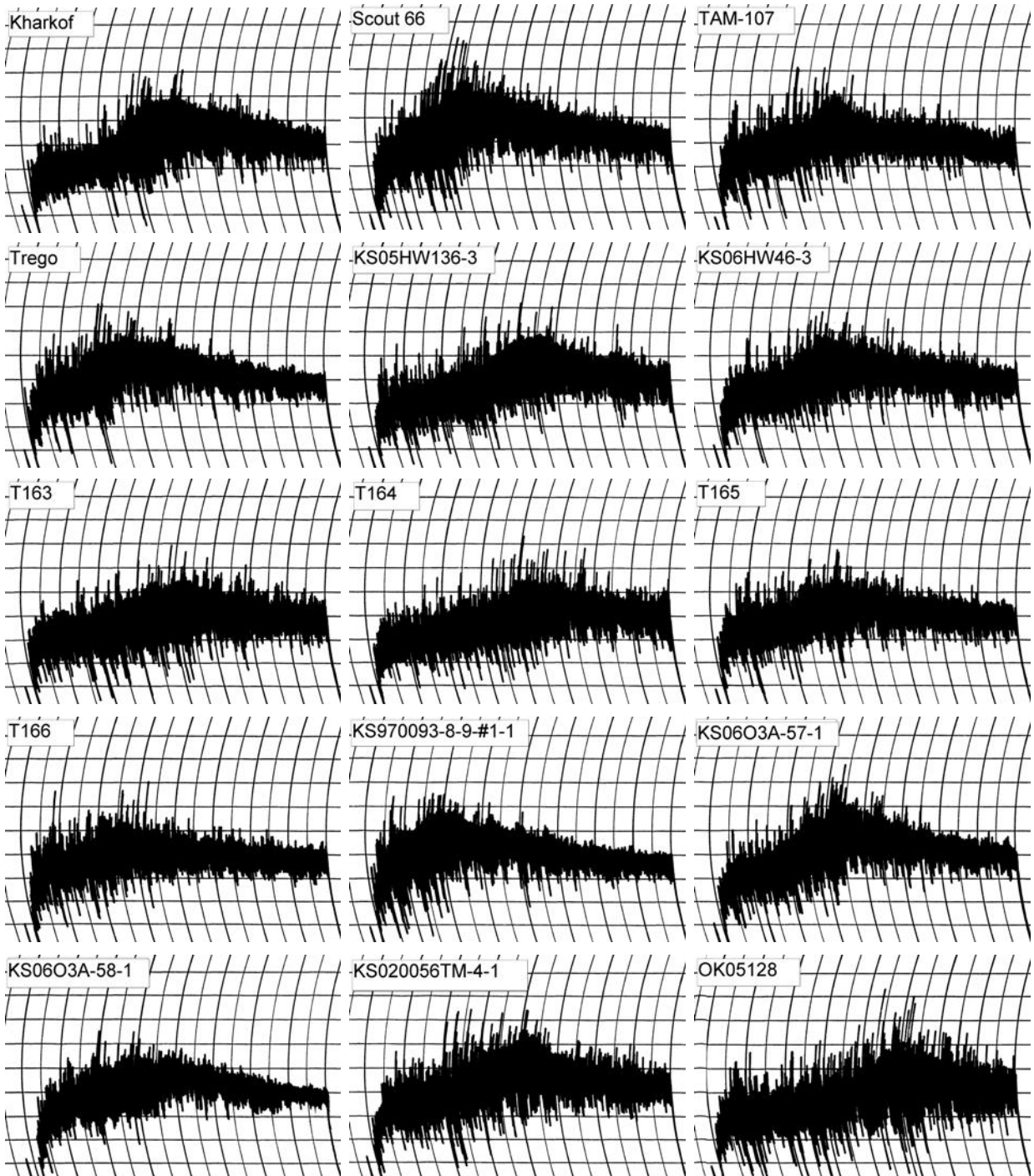
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	Flour Protein	Mixograph			
		Absorption	As-Is	Corrected	Tolerance
Line	(%)	(%)	(min)	(min)	
Kharkof	12.8	63.4	3.75	3.75	2
Scout 66	12.3	63.4	2.50	2.50	2
TAM-107	11.4	61.9	3.38	3.12	2
Trego	11.7	62.5	2.75	2.67	1
KS05HW136-3	11.5	62.1	4.50	4.22	4
KS06HW46-3	11.7	63.4	3.25	3.11	2
T163	11.1	61.3	4.38	3.89	4
T164	12.1	63.0	4.63	4.63	4
T165	11.0	61.3	3.38	2.99	2
T166	11.1	61.4	2.63	2.34	2
KS970093-8-9-#1-1	11.5	62.1	2.13	2.00	1
KS06O3A-57-1	12.8	64.2	3.38	3.38	1
KS06O3A-58-1	13.1	62.8	3.25	3.25	0
KS020056TM-4-1	12.6	63.8	4.38	4.38	2
OK05128	11.6	62.2	5.13	4.86	5
OK04525	11.8	62.7	2.38	2.33	2
OK04111	11.9	62.8	3.00	2.97	2
OK04315	12.5	63.7	2.50	2.50	2
OK05212	12.2	63.3	1.88	1.88	2
NE05403	11.7	61.5	3.13	3.03	2
NE05426	12.0	64.2	7.38	7.34	4
NE05496	11.2	61.6	4.75	4.29	4
NE06545	10.8	60.9	4.00	3.41	4
NE05430	11.4	62.0	3.38	3.15	2
CO03W054-2	10.4	61.7	7.25	5.83	4
CO03064-2	9.9	59.5	8.00	6.01	5
TX01V5134RC-3	11.2	61.7	3.50	3.18	2
TX04V075080	12.4	63.5	3.25	3.25	4
TX05A001614	11.6	60.8	3.25	3.11	2
TX05A001639	11.6	62.3	4.00	3.82	3
TX05A001828	10.8	60.9	4.13	3.52	4
TX05A001822	11.0	61.3	3.50	3.08	3
TX06A001263	11.1	61.5	3.63	3.25	3
TX05A001398	10.8	61.0	3.38	2.90	2
CO04393	10.8	60.9	4.88	4.16	4
CO04499	10.5	60.4	3.75	3.08	3
AP00x0100-51	10.9	61.2	3.38	2.95	2
Jackpot	11.4	62.0	3.13	2.91	2
AP05T2413	12.4	63.7	2.13	2.13	2
AP06TA4520	11.2	61.7	2.88	2.61	4
AP06T3832	10.9	61.0	4.00	3.45	3
NW04Y2188	12.1	63.1	2.63	2.63	2

	Flour Protein	Mixograph			
		Absorption	As-Is	Corrected	Tolerance
Line	(%)	(%)	(min)	(min)	
HV9W04-1186W	11.0	61.2	3.38	2.97	1
HV9W04-1594R	10.8	60.8	3.75	3.19	1
HV9W03-1596R	10.6	59.5	3.38	2.80	2
HV9W05-1125R	11.4	61.9	2.63	2.43	1

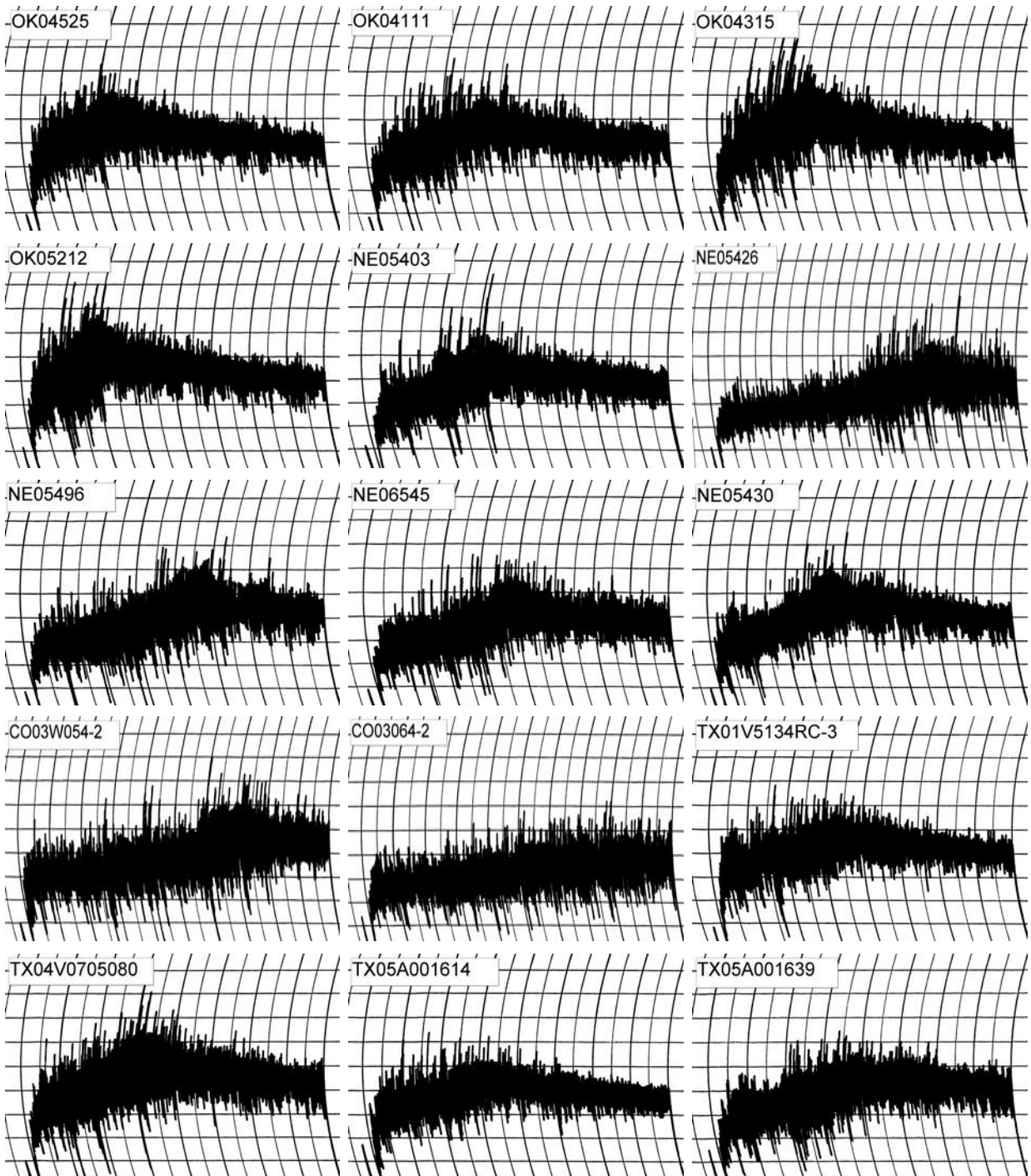
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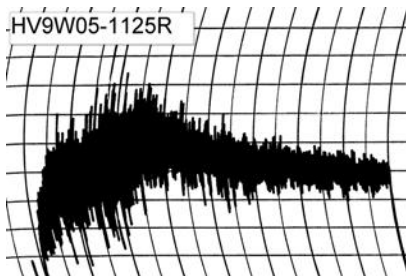
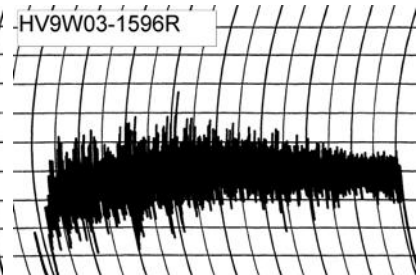
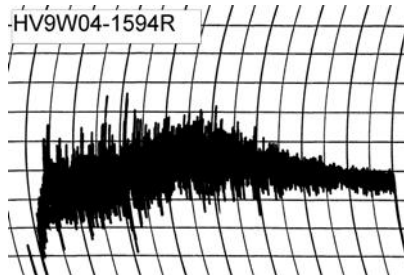
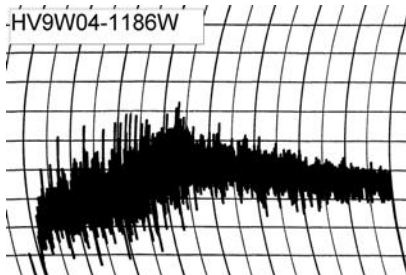
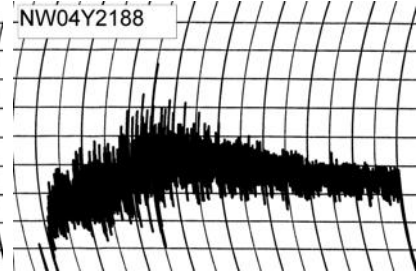
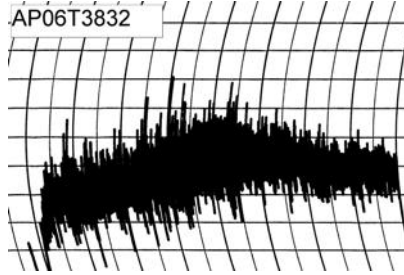
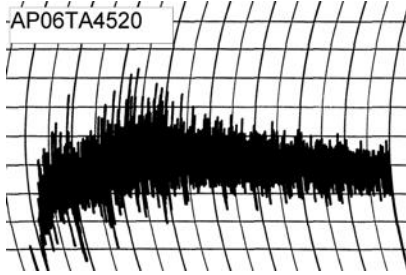
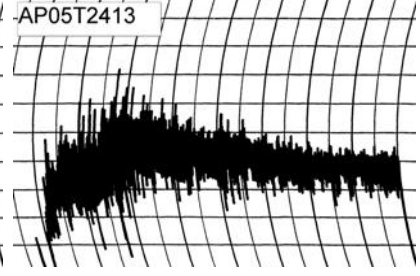
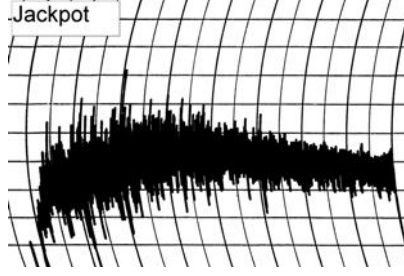
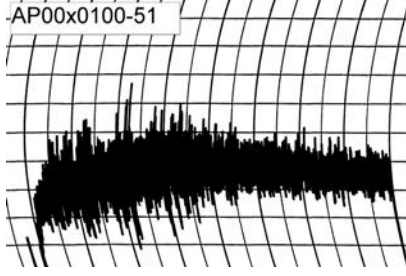
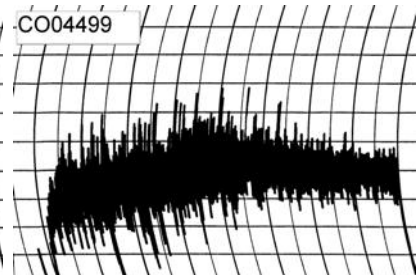
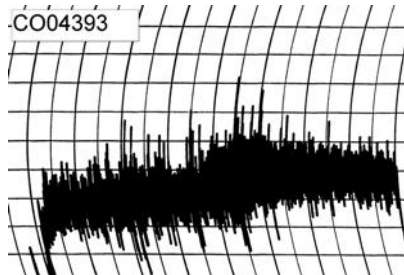
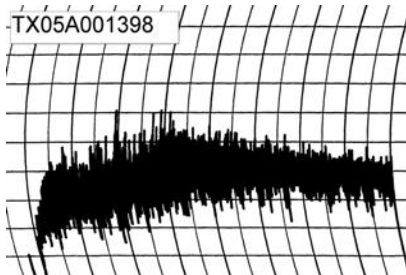
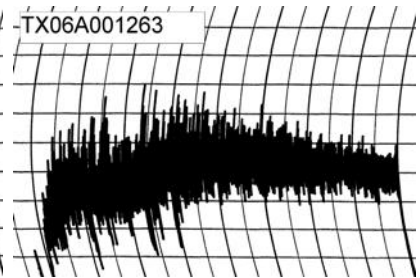
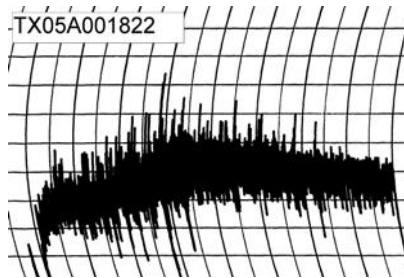
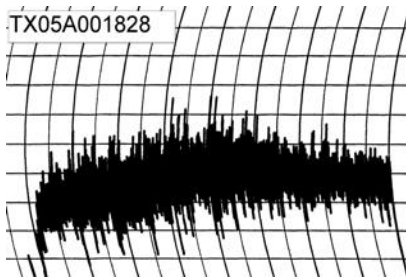
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Line	RVA							
	Stirring Number	Peak Viscosity	Trough Viscosity	Breakdown	Final Viscosity	Set back	Peak Time	Pasting Temp
	(RVU)	(RVU)	(RVU)	(RVU)	(RVU)	(RVU)	(min)	(Deg. C)
Kharkof	154.17	212.00	147.83	64.17	258.67	110.83	6.33	87.40
Scout 66	125.25	155.42	90.58	64.83	181.75	91.17	5.87	84.15
TAM-107	134.92	245.00	163.50	81.50	282.83	119.33	6.33	67.05
Trego	150.00	269.50	168.33	101.17	275.33	107.00	6.40	67.75
KS05HW136-3	108.00	188.67	81.25	107.42	160.92	79.67	5.87	66.90
KS06HW46-3	150.00	263.50	168.58	94.92	276.08	107.50	6.47	66.15
T163	161.17	266.00	181.83	84.17	310.50	128.67	6.47	85.75
T164	160.17	259.58	178.33	81.25	304.17	125.83	6.47	86.55
T165	135.00	241.92	165.92	76.00	298.00	132.08	6.27	67.70
T166	131.33	240.33	159.58	80.75	279.75	120.17	6.33	66.10
KS970093-8-9-#1-1	190.33	248.00	192.33	55.67	304.17	111.83	6.60	88.15
KS06O3A-57-1	158.08	235.58	169.33	66.25	288.33	119.00	6.47	86.50
KS06O3A-58-1	155.50	227.92	161.25	66.67	278.00	116.75	6.47	66.20
KS020056TM-4-1	157.25	219.42	162.17	57.25	277.00	114.83	6.47	88.25
OK05128	159.92	259.17	182.92	76.25	305.75	122.83	6.40	86.50
OK04525	149.50	237.25	159.33	77.92	268.50	109.17	6.40	67.00
OK04111	124.50	221.75	140.92	80.83	250.58	109.67	6.27	67.80
OK04315	135.33	241.17	135.42	105.75	287.17	151.75	5.47	64.35
OK05212	140.92	219.00	142.17	76.83	254.67	112.50	6.20	86.45
NE05403	153.08	263.08	172.42	90.67	284.42	112.00	6.40	68.55
NE05426	117.67	153.00	85.67	67.33	168.33	82.67	5.87	84.00
NE05496	137.67	264.08	153.83	110.25	259.42	105.58	6.33	67.80
NE06545	139.75	262.00	176.50	85.50	303.92	127.42	6.33	84.90
NE05430	167.33	253.58	183.25	70.33	296.58	113.33	6.53	87.30
CO03W054-2	150.50	230.92	163.50	67.42	282.42	118.92	6.33	86.45
CO03064-2	136.75	184.42	126.75	57.67	241.58	114.83	6.00	84.80
TX01V5134RC-3	129.67	208.67	147.08	61.58	266.08	119.00	6.27	86.40
TX04V075080	126.92	239.00	138.25	100.75	216.42	78.17	6.27	66.20
TX05A001614	160.08	269.25	175.83	93.42	278.17	102.33	6.40	66.95
TX05A001639	134.83	229.50	150.00	79.50	262.17	112.17	6.27	67.80
TX05A001828	145.42	278.00	177.50	100.50	284.33	106.83	6.40	67.75
TX05A001822	157.67	226.67	171.42	55.25	300.67	129.25	6.40	86.60
TX06A001263	131.75	275.00	167.67	107.33	270.33	102.67	6.33	66.95
TX05A001398	143.58	230.83	163.33	67.50	288.00	124.67	6.33	87.35
CO04393	133.33	250.42	149.25	101.17	255.67	106.42	6.27	67.70
CO04499	142.83	251.33	161.08	90.25	266.92	105.83	6.40	67.80
AP00x0100-51	154.33	211.42	149.50	61.92	271.92	122.42	6.27	86.50
Jackpot	155.50	239.00	171.17	67.83	289.17	118.00	6.47	67.75
AP05T2413	147.08	229.75	172.08	57.67	296.83	124.75	6.47	66.90
AP06TA4520	123.92	175.33	116.42	58.92	219.17	102.75	6.13	86.50
AP06T3832	132.08	233.92	159.83	74.08	274.42	114.58	6.33	86.45
NW04Y2188	149.33	224.75	165.42	59.33	290.25	124.83	6.40	86.45
HV9W04-1186W	120.67	215.67	141.92	73.75	255.25	113.33	6.20	86.50
HV9W04-1594R	141.25	172.58	107.00	65.58	199.33	92.33	6.13	86.55
HV9W03-1596R	150.17	216.08	149.75	66.33	260.58	110.83	6.33	86.55
HV9W05-1125R	148.42	223.50	162.00	61.50	289.17	127.17	6.33	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	12.8	62.0	5.00	5.00	170.9	7.9	4.0	905	6.1	61
Scout 66	12.3	62.4	4.25	4.25	172.4	7.9	5.0	905	6.1	65
TAM-107	11.4	61.6	4.00	3.69	171.0	7.7	3.5	915	6.2	73
Trego	11.7	61.4	2.75	2.67	171.4	7.5	3.5	870	5.8	65
KS05HW136-3	11.5	62.2	5.25	4.93	171.8	7.6	4.0	950	6.4	76
KS06HW46-3	11.7	62.4	4.00	3.83	171.8	7.6	3.8	925	6.3	72
T163	11.1	61.5	6.13	5.44	170.8	7.4	3.5	845	5.7	67
T164	12.1	63.4	6.00	6.00	172.8	7.6	3.5	900	6.0	66
T165	11.0	61.4	4.88	4.32	170.8	7.6	3.0	900	6.1	74
T166	11.1	60.5	3.75	3.34	169.9	7.1	3.5	845	5.7	67
KS970093-8-9-#1-1	11.5	59.4	3.75	3.52	168.9	7.5	3.0	850	5.8	65
KS06O3A~57-1	12.8	62.3	4.50	4.50	172.5	7.9	4.0	1005	6.7	72
KS06O3A~58-1	13.1	62.3	3.88	3.88	171.8	7.7	3.0	895	6.0	59
KS020056TM~4-1	12.6	63.4	4.75	4.75	173.1	7.8	3.8	960	6.4	69
OK05128	11.6	64.5	7.00	6.63	173.8	7.7	3.8	905	6.0	71
OK04525	11.8	59.2	3.38	3.32	167.8	7.3	3.2	850	5.8	62
OK04111	11.9	61.2	3.50	3.47	170.9	7.5	3.5	915	6.1	69
OK04315	12.5	63.4	3.88	3.88	173.3	7.5	3.0	880	5.8	61
OK05212	12.2	60.3	3.38	3.38	170.1	7.1	4.0	890	6.0	64
NE05403	11.7	61.2	4.13	4.00	169.9	7.4	4.0	905	6.1	69
NE05426	12.0	64.2	9.13	9.08	172.7	7.6	4.0	870	5.8	64
NE05496	11.2	62.3	6.25	5.65	171.1	7.4	3.5	905	6.1	73
NE06545	10.8	62.1	5.13	4.37	172.0	7.4	4.0	850	5.7	70
NE05430	11.4	60.4	4.13	3.85	169.3	7.7	3.5	915	6.2	73
CO03W054-2	10.4	61.0	9.88	7.95	169.5	7.5	3.0	850	5.7	74
CO03064-2	9.9	59.7	9.38	7.04	168.4	7.1	3.5	800	5.4	71
TX01V5134RC-3	11.2	60.2	4.00	3.63	171.7	7.6	4.0	885	6.0	71
TX04V075080	12.4	62.1	3.88	3.88	171.4	7.8	3.8	960	6.4	70
TX05A001614	11.6	60.1	4.13	3.96	169.7	7.6	3.2	885	6.0	68
TX05A001639	11.6	62.3	4.75	4.54	172.1	7.8	4.5	950	6.4	75
TX05A001828	10.8	61.3	5.38	4.59	170.6	7.3	4.0	825	5.6	67
TX05A001822	11.0	60.4	4.50	3.96	169.4	8.0	5.0	940	6.4	80
TX06A001263	11.1	63.3	4.38	3.92	172.1	7.5	3.8	960	6.5	81
TX05A001398	10.8	60.2	4.00	3.43	169.2	7.6	5.0	890	6.1	75
CO04393	10.8	61.3	6.88	5.86	170.5	7.5	3.8	885	6.0	75
CO04499	10.5	63.4	5.50	4.52	172.7	7.5	3.2	890	5.9	78
AP00x0100-51	10.9	63.3	4.63	4.04	173.3	7.5	3.0	845	5.6	68
Jackpot	11.4	61.3	3.25	3.02	172.0	7.7	3.5	900	6.0	71
AP05T2413	12.4	61.1	3.13	3.13	170.2	7.9	3.0	965	6.6	70
AP06TA4520	11.2	62.1	3.75	3.40	172.0	7.7	2.5	860	5.7	68
AP06T3832	10.9	61.1	5.25	4.53	170.6	7.7	3.2	930	6.2	80
NW04Y2188	12.1	60.3	3.13	3.13	170.1	7.6	3.5	875	5.8	63
HV9W04-1186W	11.0	60.2	4.13	3.63	169.2	7.7	4.2	910	6.1	76
HV9W04-1594R	10.8	62.5	3.75	3.19	171.5	7.7	3.0	845	5.7	70

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/%)
HV9W03-1596R	10.6	61.2	4.25	3.52	171.2	7.5	3.0	845	5.6	71
HV9W05-1125R	11.4	62.3	3.50	3.24	172.2	7.6	4.5	875	5.9	68