

# 2015 Dakota Fall Ram Test

Hettinger Research Extension Center

Dr. Christopher Schauer, Alison Crane, and Dave Pearson, NDSU and Dave Ollila, SDSU

701-567-4323

Comfort Factor = % of fibers in the sample less than 30 microns

Curvature = crimp per inch (bigger is better)

Adjustments - core

Source	Producer	TID	Sample	Lab scoured yield, %	Mean fiber diameter, microns	SD, microns	CV, %	Comfort factor, %	Mean fiber curvature, deg/mm	Standard deviation of curvature, deg/mm	Adjustments - core				
											Fiber Dia equation	Fiber Dia	Variability	Variability	
HREC	Annika Bobb	W-1	Core	52.11	24.50	4.62	18.90	90.5	105.5	67		-7.5	-6.00	3.88	3.88
HREC	Annika Bobb	W-2	Core	54.07	25.71	5.08	19.80	86.0	92.5	58		-11.13	-6.00	2.75	2.75
HREC	Lynn Frey	W-3	Core	52.29	28.45	6.11	21.50	69.2	93.3	60		-19.35	-6.00	0.63	0.63
HREC	Estelle Cook	W-4	Core	60.88	22.54	4.35	19.30	97.2	89.9	52		-1.62	-1.62	3.38	3.38
HREC	Estelle Cook	W-5	Core	47.31	23.88	5.25	22.00	91.6	99.3	62		-5.64	-5.64	0.00	0.00
HREC	Estelle Cook	W-6	Core	56.30	23.40	4.99	21.30	92.7	105.6	67		-4.2	-4.20	0.87	0.87
HREC	Estelle Cook	W-7	Core	56.17	24.93	5.86	23.50	85.7	97.1	58		-8.79	-6.00	-1.88	-1.88
HREC	Estelle Cook	W-8	Core	55.64	22.10	4.51	20.40	96.8	107.2	62		-0.3	-0.30	2.00	2.00
HREC	Burton Anderson	W-9	Core	45.74	22.39	4.30	19.20	96.9	118.3	66		-1.17	-1.17	3.50	3.50
HREC	Burton Anderson	W-10	Core	49.75	24.24	5.03	20.80	90.4	111.9	68		-6.72	-6.00	1.50	1.50
HREC	Burton Anderson	W-11	Core	56.01	22.02	3.76	17.10	98.5	108.1	63		-0.06	-0.06	6.13	5.00
HREC	Burton Anderson	W-12	Core	46.10	23.16	4.46	19.30	94.7	122.8	74		-3.48	-3.48	3.38	3.38
HREC	Jim & Teena Lynn	W-13	Core	58.60	21.62	4.20	19.40	97.8	89.8	55		1.14	1.14	3.25	3.25
HREC	Jim & Teena Lynn	W-14	Core	56.47	22.92	5.46	23.80	91.6	96.0	58		-2.76	-2.76	-2.25	-2.25
HREC	Jim & Teena Lynn	W-15	Core	48.27	21.61	4.39	20.30	97.3	109.7	62		1.17	1.17	2.13	2.13
HREC	Jim & Teena Lynn	W-16	Core	52.86	24.10	4.68	19.40	91.7	80.8	50		-6.3	-6.00	3.25	3.25
HREC	Jim & Teena Lynn	W-17	Core	44.83	23.10	5.11	22.10	93.0	104.0	64		-3.3	-3.30	-0.13	-0.13
HREC	Clyde Peterson	W-18	Core	53.74	23.84	4.76	20.00	92.1	85.8	54		-5.52	-5.52	2.50	2.50
HREC	Clyde Peterson	W-19	Core	58.75	21.69	4.38	20.20	97.2	96.9	60		0.93	0.93	2.25	2.25
HREC	Clyde Peterson	W-20	Core	60.04	22.42	5.04	22.50	94.8	90.3	56		-1.26	-1.26	-0.63	-0.63
HREC	Clyde Peterson	W-22	Core	66.44	23.37	5.07	21.70	93.4	82.4	53		-4.11	-4.11	0.38	0.38
HREC	Burton Anderson	W-26	Core	47.03	24.33	4.85	19.90	90.4	101.5	60		-6.99	-6.00	2.63	2.63
HREC	Ian McGivney	W-27	Core	52.57	23.57	4.47	19.00	93.6	100.0	59		-4.71	-4.71	3.75	3.75
HREC	Jim Forbes	W-28	Core	56.87	21.82	4.62	21.20	96.9	93.4	55		0.54	0.54	1.00	1.00
HREC	Jim Forbes	W-29	Core	57.27	24.70	5.98	24.20	87.5	91.2	58		-8.1	-6.00	-2.75	-2.75
HREC	Jim Forbes	W-30	Core	61.38	22.26	4.67	21.00	96.5	88.4	57		-0.78	-0.78	1.25	1.25
HREC	Jim Forbes	W-31	Core	49.67	21.66	4.93	22.80	96.1	99.3	63		1.02	1.02	-1.00	-1.00
HREC	Jim Forbes	W-32	Core	50.99	22.47	5.12	22.80	93.9	102.7	62		-1.41	-1.41	-1.00	-1.00
HREC	Matt Rabel	W-33	Core	51.39	21.53	5.07	23.50	95.2	92.2	57		1.41	1.41	-1.88	-1.88
HREC	Matt Rabel	W-34	Core	58.13	22.43	4.86	21.70	94.5	96.8	60		-1.29	-1.29	0.38	0.38
HREC	Matt Rabel	W-35	Core	47.48	23.72	5.11	21.50	91.2	108.0	66		-5.16	-5.16	0.63	0.63
HREC	Lance Rabel	W-36	Core	51.71	23.04	5.30	23.00	93.5	98.5	64		-3.12	-3.12	-1.25	-1.25
HREC	Matt Rabel	W-37	Core	46.07	21.79	5.74	26.30	95.9	104.7	63		0.63	0.63	-5.38	-5.00
HREC	Matt Rabel	W-38	Core	51.63	22.67	5.13	22.60	94.5	94.7	60		-2.01	-2.01	-0.75	-0.75
HREC	Tate Ollila	W-39	Core	55.45	20.15	4.11	20.40	99.1	101.6	63		5.55	5.55	2.00	2.00
HREC	Ben Pearson	W-40	Core	56.60	22.06	4.87	22.10	95.8	88.5	54		-0.18	-0.18	-0.13	-0.13
HREC	Ryan Stark	W-41	Core	47.10	21.35	4.00	18.70	98.2	108.0	64		1.95	1.95	4.13	4.13
HREC	Ryan Stark	W-42	Core	54.43	25.08	5.92	23.60	84.3	91.8	56		-9.24	-6.00	-2.00	-2.00
HREC	Beau Chapman	W-43	Core	53.18	23.36	4.63	19.80	94.2	97.1	60		-4.08	-4.08	2.75	2.75
HREC	Beau Chapman	W-44	Core	52.58	22.81	4.89	21.40	94.7	114.5	69		-2.43	-2.43	0.75	0.75
HREC	Beau Chapman	W-45	Core	52.44	21.92	4.66	21.30	97.5	111.4	64		0.24	0.24	0.87	0.87
HREC	Beau Chapman	W-46	Core	51.07	23.71	5.39	22.70	90.9	97.4	62		-5.13	-5.13	-0.87	-0.87
HREC	Beau Chapman	W-47	Core	53.21	21.17	4.38	20.70	98.4	100.6	61		2.49	2.49	1.63	1.63
HREC	Rocky Hill	W-48	Core	38.25	24.28	5.03	20.70	90.2	118.0	73		-6.84	-6.00	1.63	1.63
HREC	Rocky Hill	W-49	Core	52.20	23.16	4.96	21.40	93.5	109.5	65		-3.48	-3.48	0.75	0.75
HREC	Paul Erk	W-50	Core	51.92	22.21	4.32	19.50	96.5	106.6	65		-0.63	-0.63	3.13	3.13
HREC	Paul Erk	W-51	Core	54.13	21.35	4.36	20.40	98.1	102.8	61		1.95	1.95	2.00	2.00
HREC	Paul Erk	W-52	Core	59.60	20.44	3.95	19.30	99.1	97.2	57		4.68	4.68	3.38	3.38
HREC	Paul Erk	W-53	Core	50.72	21.80	4.18	19.20	97.4	121.8	70		0.6	0.60	3.50	3.50
HREC	Paul Erk	W-54	Core	47.98	22.64	4.08	18.00	96.7	95.0	59		-1.92	-1.92	5.00	5.00
HREC	Paul Erk	W-55	Core	50.74	20.57	4.25	20.70	98.3	111.4	65		4.29	4.29	1.63	1.63
HREC	Paul Erk	W-56	Core	50.67	20.22	4.19	20.70	98.9	101.6	63		5.34	5.34	1.63	1.63
HREC	Paul Erk	W-57	Core	47.84	20.23	4.18	20.70	98.4	104.0	63		5.31	5.31	1.63	1.63
HREC	Paul Erk	W-58	Core	47.80	20.54	4.21	20.50	98.7	100.8	64		4.38	4.38	1.88	1.88
HREC	Paul Erk	W-59	Core	48.97	25.16	5.37	21.30	84.9	100.5	64		-9.48	-6.00	0.87	0.87
HREC	Paul Erk	W-60	Core	46.37	22.25	4.87	21.90	95.7	107.6	68		-0.75	-0.75	0.13	0.13
HREC	Paul Erk	W-61	Core	51.51	21.30	4.17	19.60	98.2	98.7	64		2.1	2.10	3.00	3.00
	<b>Average</b>			<b>52.44</b>	<b>22.73</b>	<b>4.78</b>	<b>20.99</b>	<b>94.0</b>	<b>100.8</b>	<b>61</b>		<b>-2.20</b>	<b>-1.59</b>	<b>1.26</b>	<b>1.25</b>
	<b>Min.</b>			<b>38.25</b>	<b>20.15</b>	<b>3.76</b>	<b>17.10</b>	<b>69.2</b>	<b>80.8</b>	<b>50</b>		<b>-19.35</b>	<b>-6.00</b>	<b>-5.38</b>	<b>-5.00</b>
	<b>Max.</b>			<b>66.44</b>	<b>28.45</b>	<b>6.11</b>	<b>26.30</b>	<b>99.1</b>	<b>122.8</b>	<b>74</b>		<b>5.55</b>	<b>5.55</b>	<b>6.13</b>	<b>5.00</b>
HREC	Curt Stanley	Y-1	Core	50.73	28.80	6.29	21.80	64.7	93.6	55					
HREC	Billy Estridge	Y-2	Core	47.17	27.48	5.20	18.90	75.5	88.1	55					
HREC	Sheila Fullerton	Y-3	Core	51.31	29.65	6.49	21.90	58.4	73.4	49					
HREC	Sheila Fullerton	Y-4	Core	55.15	33.51	7.64	22.80	33.5	74.5	51					
HREC	David Brown	Y-5	Core	50.86	31.73	6.13	19.30	42.0	82.1	51					
HREC	David Brown	Y-6	Core	37.55	33.20	7.55	22.70	36.9	84.3	54					
HREC	HREC	Y-7	Core	52.96	29.19	5.63	19.30	62.1	85.8	57					
HREC	HREC	Y-8	Core	53.62	30.76	5.92	19.20	50.0	87.1	58					
HREC	Scott Brehdahl	Y-9	Core	44.94	28.53	7.13	25.00	65.8	89.2	60					
HREC	Lynn Frey	Y-10	Core	49.23	25.68	4.57	17.80	87.4	101.4	62					
HREC	TJ Swan	W-23	Core	50.26	25.76	4.43	17.20	86.4	96.0	59					
HREC	TJ Swan	W-24	Core	49.61	26.56	5.89	22.20	78.3	94.7	60					
HREC	TJ Swan	W-25	Core	57.02	24.06	4.43	18.40	93.7	106.8	64					
	<b>Average</b>			<b>50.03</b>	<b>28.84</b>	<b>5.95</b>	<b>20.50</b>	<b>64.2</b>	<b>89.0</b>	<b>57</b>					
	<b>Min.</b>			<b>37.55</b>	<b>24.06</b>	<b>4.43</b>	<b>17.20</b>	<b>33.5</b>	<b>73.4</b>	<b>49</b>					
	<b>Max.</b>			<b>57.02</b>	<b>33.51</b>	<b>7.64</b>	<b>25.00</b>	<b>93.7</b>	<b>106.8</b>	<b>64</b>					