

2016 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	Fiber Dia equation	Fiber Dia	Variability	Variability
HREC	Annika Bobb	W-1	Core	52.88	22.07	3.92	17.8	97.57	115.8	68	2.49	2.49	5.25	5.00
HREC	Annika Bobb	W-2	Core	59.27	25.46	4.57	17.9	88.31	107.7	64	-7.68	-6.00	5.13	5.00
HREC	Lynn Frey	W-3	Core	51.42	25.75	4.59	17.8	87.61	101.8	64	-8.55	-6.00	5.25	5.00
HREC	Lynn Frey	W-4	Core	47.11	25.13	4.86	19.3	88.19	96.6	64	-6.69	-6.00	3.38	3.38
HREC	Estelle Cook	W-5	Core	60.31	22.43	4.82	21.5	94.77	113.2	70	1.41	1.41	0.63	0.63
HREC	Estelle Cook	W-6	Core	64.96	22.10	4.22	19.1	97.54	102.8	61	2.4	2.40	3.63	3.63
HREC	Estelle Cook	W-7	Core	63.46	23.39	4.69	20.1	93.52	103.4	65	-1.47	-1.47	2.38	2.38
HREC	Estelle Cook	W-8	Core	61.42	25.22	6.04	23.9	83.13	101.9	62	-6.96	-6.00	-2.38	-2.38
HREC	Estelle Cook	W-9	Core	58.01	22.54	4.66	20.7	95.06	116.3	67	1.08	1.08	1.63	1.63
HREC	Estelle Cook	W-10	Core	55.17	20.79	4.86	23.4	97.68	97.4	61	6.33	6.33	-1.75	-1.75
HREC	Burton Anderson	W-11	Core	59.04	20.79	4.11	19.8	98.53	111.7	65	6.33	6.33	2.75	2.75
HREC	Burton Anderson	W-12	Core	43.38	19.79	4.58	23.1	98.28	120.0	71	9.33	9.00	-1.38	-1.38
HREC	Burton Anderson	W-13	Core	50.83	22.78	5.77	25.3	91.31	110.3	70	0.36	0.36	-4.13	-4.13
HREC	Burton Anderson	W-14	Core	49.93	20.26	3.61	17.8	99.61	98.8	63	7.92	7.92	5.25	5.00
HREC	Jim & Teena Lynn	W-15	Core	58.47	20.38	4.30	21.1	98.43	93.9	59	7.56	7.56	1.13	1.13
HREC	Jim & Teena Lynn	W-16	Core	59.16	21.52	4.45	20.7	97.38	94.5	57	4.14	4.14	1.63	1.63
HREC	Jim & Teena Lynn	W-17	Core	49.45	22.63	6.01	26.6	91.6	105.0	67	0.81	0.81	-5.75	-5.00
HREC	Jim & Teena Lynn	W-18	Core	58.50	22.18	3.89	17.5	98.24	100.8	61	2.16	2.16	5.63	5.00
HREC	Jim & Teena Lynn	W-19	Core	60.86	22.73	4.67	20.5	95.08	102.0	63	0.51	0.51	1.88	1.88
HREC	Clyde Peterson	W-20	Core	47.59	22.36	4.38	19.6	96.66	102.4	60	1.62	1.62	3.00	3.00
HREC	Clyde Peterson	W-21	Core	65.12	22.94	4.79	20.9	93.69	82.3	54	-0.12	-0.12	1.38	1.38
HREC	Clyde Peterson	W-22	Core	64.45	22.07	4.30	19.5	97.25	90.7	54	2.49	2.49	3.13	3.13
HREC	Clyde Peterson	W-23	Core	65.01	22.18	4.79	21.6	95.31	81.1	54	2.16	2.16	0.50	0.50
HREC	Clyde Peterson	W-24	Core	55.32	21.23	3.86	18.2	98.47	107.4	65	5.01	5.01	4.75	4.75
HREC	Clyde Peterson	W-25	Core	64.68	23.53	4.38	18.6	94.75	98.7	58	-1.89	-1.89	4.25	4.25
HREC	Ian McGivney	W-26	Core	54.11	23.15	4.83	20.9	92.98	98.2	59	-0.75	-0.75	1.38	1.38
HREC	Ian McGivney	W-27	Core	52.71	20.34	3.96	19.5	98.56	100.7	56	7.68	7.68	3.13	3.13
HREC	Ian McGivney	W-28	Core	49.36	22.67	5.05	22.3	94.23	111.3	70	0.69	0.69	-0.38	-0.38
HREC	Ian McGivney	W-29	Core	55.25	20.73	4.62	22.3	97.44	104.0	64	6.51	6.51	-0.38	-0.38
HREC	Jim Forbes	W-30	Core	49.32	21.68	4.27	19.7	97.04	99.4	62	3.66	3.66	2.88	2.88
HREC	Jim Forbes	W-31	Core	61.83	23.34	4.38	18.8	94.76	96.5	59	-1.32	-1.32	4.00	4.00
HREC	Jim Forbes	W-32	Core	58.22	23.72	5.08	21.4	91.11	98.6	60	-2.46	-2.46	0.75	0.75
HREC	Jim Forbes	W-33	Core	59.12	23.13	4.90	21.2	93.59	100.4	60	-0.69	-0.69	1.00	1.00
HREC	Jim Forbes	W-34	Core	57.95	20.51	4.12	20.1	98.25	107.0	64	7.17	7.17	2.38	2.38
HREC	Matt Rabel	W-35	Core	51.22	21.21	3.82	18.0	98.59	98.6	60	5.07	5.07	5.00	5.00
HREC	Matt Rabel	W-36	Core	56.71	22.95	4.71	20.5	94.42	107.7	60	-0.15	-0.15	1.88	1.88
HREC	Matt Rabel	W-37	Core	47.74	20.66	3.67	17.8	99.15	98.5	57	6.72	6.72	5.25	5.00
HREC	Matt Rabel	W-38	Core	50.41	21.17	4.23	20.0	98.25	126.8	67	5.19	5.19	2.50	2.50
HREC	Matt Rabel	W-39	Core	56.84	21.70	4.51	20.8	96.66	97.8	63	3.6	3.60	1.50	1.50
HREC	Matt Rabel	W-40	Core											
HREC	Tate Ollila	W-41	Core	57.31	24.07	4.26	17.7	93.8	87.9	53	-3.51	-3.51	5.38	5.00
HREC	Tate Ollila	W-42	Core	55.44	21.98	4.32	19.7	96.75	93.8	56	2.76	2.76	2.88	2.88
HREC	Ben Pearson	W-43	Core	45.09	23.99	4.58	19.1	92.63	110.3	63	-3.27	-3.27	3.63	3.63
HREC	Ryan Stark	W-44	Core	51.40	25.39	5.32	21.0	84.9	88.9	60	-7.47	-6.00	1.25	1.25
HREC	Ryan Stark	W-45	Core	54.70	21.43	4.48	20.9	96.86	96.1	63	4.41	4.41	1.38	1.38
HREC	Beau Chapman	W-46	Core	53.57	24.01	4.24	17.7	93.48	95.9	58	-3.33	-3.33	5.38	5.00
HREC	Beau Chapman	W-47	Core	57.14	24.23	5.21	21.5	88.98	86.0	53	-3.99	-3.99	0.63	0.63
HREC	Beau Chapman	W-48	Core	58.49	22.06	3.72	16.9	98.11	109.4	65	2.52	2.52	6.38	5.00
HREC	Beau Chapman	W-49	Core	55.53	21.66	4.57	21.1	96.37	101.2	58	3.72	3.72	1.13	1.13
HREC	Beau Chapman	W-50	Core	58.69	25.63	4.76	18.6	86.87	99.4	58	-8.19	-6.00	4.25	4.25
HREC	Paul Erk	W-51	Core	56.79	20.32	4.54	22.3	98.1	110.4	68	7.74	7.74	-0.38	-0.38
HREC	Paul Erk	W-52	Core	52.06	19.74	3.64	18.4	99.14	102.9	64	9.48	9.00	4.50	4.50
HREC	Paul Erk	W-53	Core	52.21	23.59	4.22	17.9	94.74	106.7	63	-2.07	-2.07	5.13	5.00
HREC	Paul Erk	W-54	Core	52.90	21.81	4.71	21.6	95.63	104.2	66	3.27	3.27	0.50	0.50
HREC	Paul Erk	W-55	Core	56.56	23.75	5.07	21.3	90.46	101.6	64	-2.55	-2.55	0.87	0.87
HREC	Paul Erk	W-56	Core	54.73	23.06	4.53	19.6	94.75	91.5	58	-0.48	-0.48	3.00	3.00
HREC	Paul Erk	W-57	Core	51.53	22.01	4.27	19.4	96.72	103.6	66	2.67	2.67	3.25	3.25
HREC	Paul Erk	W-58	Core	49.87	22.60	4.26	18.8	95.87	111.2	66	0.9	0.90	4.00	4.00
HREC	Paul Erk	W-59	Core	56.61	21.32	4.07	19.1	98.29	112.3	65	4.74	4.74	3.63	3.63
HREC	Paul Erk	W-60	Core	61.89	20.86	3.93	18.8	98.78	93.6	58	6.12	6.12	4.00	4.00
HREC	Rocky Hill	W-61	Core	56.97	20.51	4.32	21.1	98.32	106.0	66	7.17	7.17	1.13	1.13
HREC	Rocky Hill	W-62	Core	59.85	23.43	4.45	19.0	94.92	93.5	58	-1.59	-1.59	3.75	3.75
HREC	Braden Kopren	W-63	Core	51.20	20.55	4.09	19.9	98.64	107.8	65	7.05	7.05	2.63	2.63
HREC	Braden Kopren	W-64	Core	44.68	22.71	4.15	18.3	96.18	117.9	73	0.57	0.57	4.63	4.63
HREC	TW Schalesky	W-65	Core	57.83	23.50	4.37	18.6	94.45	100.5	59	-1.8	-1.80	4.25	4.25
HREC	TW Schalesky	W-66	Core	54.39	24.71	4.56	18.5	90.77	100.6	63	-5.43	-5.43	4.38	4.38
HREC	Craig Pitt	W-67	Core	37.84	29.58	6.41	21.7	59.28	107.8	70	-20.04	-6.00	0.38	0.38
	Average			55.18	22.54	4.52	20.06	94.50	102.17	62.21	1.08	1.42	2.42	2.37
	Min.			37.84	19.74	3.61	16.90	59.28	81.10	52.50	-20.04	-6.00	-5.75	-5.00
	Max.			65.12	29.58	6.41	26.60	99.61	126.80	73.30	9.48	9.00	6.38	5.00
HREC	Curt Stanley	Y-1	Core	58.06	30.43	6.11	20.1	53.72	86.0	51				
HREC	Curt Stanley	Y-2	Core	39.66	32.81	7.62	23.2	39.59	89.8	56				
HREC	Curt Stanley	Y-3	Core	47.11	31.46	6.94	22.1	48.6	86.3	54				
HREC	David Brown	Y-4	Core	42.68	25.75	5.53	21.5	82.56	111.8	71				
HREC	David Brown	Y-5	Core	45.58	30.80	6.20	20.1	49.24	94.2	59				
HREC	HREC	Y-6	Core	48.46	31.24	5.87	18.8	46.68	77.7	53				
HREC	HREC	Y-7	Core	46.65	28.63	5.43	19.0	67.51	87.7	60				
HREC	Lynn Frey	Y-8	Core	46.93	26.23	4.70	17.9	83.61	107.8	67				
HREC	Lynn Frey	Y-9	Core											
HREC	Matt Jarvis	Y-10	Core											
HREC	Matt Jarvis	Y-11	Core	51.16	23.30	4.98	21.4	92.42	105.2	68				
HREC	Matt Jarvis	Y-12	Core											
HREC	Matt Jarvis	Y-13	Core	48.66	24.81	5.35	21.6	86.8	96.0	61				
HREC	Matt Jarvis	Y-14	Core											
HREC	Matt Jarvis	Y-15	Core											
HREC	Craig Pitt	Y-16	Core	44.69	27.58	6.47	23.5	70.52	95.3	64				
HREC	Craig Pitt	Y-17	Core	43.36	25.22	5.03	19.9	86.7	106.1	67				
HREC	Craig Pitt	Y-18	Core											
	Average			46.92	28.19	5.85	20.76	67.33	95.33	60.96				
	Min.			39.66	23.30	4.70	17.90	39.59	77.70	51.40				
	Max.			58.06	32.81	7.62	23.50	92.42	111.80	71.20				