Table E.1: Fracture test variables for Douglas-fir

Specimen ID	Cap (lbs)	P_Q (lbs)	Adjusted Specimen Stiffness (lbs/in)	Energy @ Cap (lb-in)	Energy @ P_Q (lb-in)	Fracture Energy (lb-in)	Specific Fracture Energy (lb-in/in^2)	Cap/P_Q
DF								
1	63.1	56.2	2295	1.34	0.84	2.82	0.794	1.12
2	64.7	62.2	8970	0.43	0.28	3.13	0.886	1.04
3	83.1	76.1	4189	1.89	0.86	6.93	1.949	1.09
4	65.6	63.5	3147	1.11	0.79	4.73	1.334	1.03
5	76.6	71.9	4181	1.04	0.75	5.44	1.540	1.07
6	73.6	71.7	2472	1.64	1.26	4.58	1.286	1.03
7	65.8	62.9	3251	1.15	0.74	3.94	1.115	1.05
8	68.3	62.7	3807	1.26	0.63	4.65	1.311	1.09
9	65.1	62.4	4688	0.61	0.50	3.79	1.067	1.04
10	73.1	67.9	4472	0.89	0.62	3.78	1.064	1.08
11	77.1	74.9	7266	1.22	0.58	5.87	1.665	1.03
12	62.3	59.0	4834	0.94	0.48	4.15	1.174	1.06
13	73.9	70.5	5385	0.83	0.66	5.37	1.518	1.05
14	81.3	74.1	8324	0.93	0.43	5.45	1.499	1.10
15	62.4	60.3	5652	0.69	0.46	3.71	1.047	1.03
16	72.5	62.8	3601	1.35	0.65	5.50	1.557	1.15
17	66.4	62.5	3878	0.87	0.64	5.05	1.422	1.06
18	59.9	59.7	4026	0.58	0.56	3.94	1.123	1.00
19	62.7	55.7	4841	0.82	0.43	4.07	1.149	1.13
20	58.1	50.2	3184	0.87	0.50	3.86	1.083	1.16
21	87.0	82.4	4977	1.52	0.83	7.52	2.057	1.06
22	58.2	56.1	4865	0.52	0.42	2.38	0.671	1.04
23	54.5	50.9	4112	0.78	0.45	3.08	0.868	1.07
24	52.2	50.4	4977	0.54	0.35	4.20	1.188	1.04
25	47.0	43.2	4512	0.49	0.28	2.80	0.799	1.09
26	72.2	71.6	2606	1.70	1.13	5.74	1.639	1.01
27	64.3	62.2	3098	1.22	0.82	5.47	1.542	1.03
28	48.9	47.3	4360	0.66	0.36	4.15	1.175	1.03
Mean	66.4	62.5	4499	1.00	0.62	4.50	1.268	1.06
Std Dev	9.9	9.4	1577	0.39	0.24	1.23	0.339	0.04
COV	0.15	0.15	0.35	0.39	0.38	0.27	0.27	0.04

Table E.2: Fracture test variables for spruce-pine-fir

Specimen ID	Cap (lbs)	P_Q (lbs)	Adjusted Specimen Stiffness (lbs/in)	Energy @ Cap (lb-in)	Energy @ P_Q (lb-in)	Fracture Energy (lb-in)	Specific Fracture Energy (lb-in/in^2)	Cap/P_Q
SPF								
1	78.9	71.3	9472	1.45	0.38	4.45	1.254	1.11
2	77.5	74.5	9618	0.87	0.42	5.11	1.439	1.04
3	70.2	69.2	4968	1.07	0.64	6.11	1.721	1.01
4	66.4	66.4	2501	1.04	1.04	3.50	0.991	1.00
5	53.6	51.6	2819	0.65	0.58	2.95	0.834	1.04
6	72.6	70.5	9740	0.94	0.41	4.74	1.333	1.03
7	62.8	59.6	4936	0.74	0.47	4.10	1.161	1.05
8	49.7	47.8	2388	0.76	0.60	2.58	0.731	1.04
9	82.2	75.1	4426	2.98	0.80	7.93	2.264	1.09
10	97.8	81.2	13531	1.48	0.35	8.06	2.283	1.20
11	66.7	61.5	3020	1.27	0.78	4.70	1.325	1.09
12	65.3	57.5	3650	1.17	0.56	4.40	1.245	1.14
13	77.5	76.9	4904	0.92	0.78	4.30	1.217	1.01
14	83.3	75.9	5745	1.28	0.67	6.93	1.963	1.10
15	77.8	73.5	6681	1.01	0.62	7.15	2.028	1.06
16	65.3	60.6	2926	1.08	0.76	4.76	1.342	1.08
17	57.0	56.2	6542	0.44	0.35	3.49	0.989	1.01
18	66.2	60.7	4708	1.06	0.52	5.15	1.458	1.09
19	80.3	72.9	14636	0.72	0.29	4.83	1.381	1.10
20	62.5	59.5	2335	1.45	0.90	4.45	1.261	1.05
21*	95.3	49.3	3344	3.79	0.50	11.20	3.188	1.93
22	72.8	63.6	3245	1.64	0.77	6.19	1.753	1.14
23	52.9	44.1	3376	0.99	0.37	5.16	1.465	1.20
24	69.6	65.6	5761	0.91	0.49	4.90	1.387	1.06
25	61.7	55.8	5507	0.88	0.39	4.16	1.192	1.11
26*	67.2	42.8	3827	2.30	0.41	6.73	1.905	1.57
27	52.6	46.1	3460	0.93	0.41	3.72	1.055	1.14
28	71.4	64.7	3089	1.55	0.83	5.52	1.554	1.10
Mean	69.0	63.9	5538	1.13	0.58	4.97	1.409	1.08
Std Dev	11.2	10.0	3320	0.48	0.20	1.39	0.397	0.05
COV	0.16	0.16	0.60	0.43	0.34	0.28	0.28	0.05

*** indicates test does not qualify as valid fracture test as capacity/P_Q > 1.20**