

deflection

Rose City Spine vs Deflection Chart						21st Century Longbows chart					
		AMO									
deflection	spine #	deflection	spine #	deflection	spine #	deflection	spine #	deflection	spine #	deflection	spine #
1.300	20	0.566	46	0.366	71	0.866	30	0.553	47	0.406	64
1.248	21	0.555	47	0.361	72	0.852	30.5	0.547	47.5	0.403	64.5
1.196	22	0.543	48	0.357	73	0.838	31	0.541	48	0.400	65
1.144	23	0.532	49	0.352	74	0.825	31.5	0.536	48.5	0.397	65.5
1.092	24	0.520	50	0.347	75	0.812	32	0.531	49	0.394	66
1.040	25	0.511	51	0.343	76	0.800	32.5	0.525	49.5	0.391	66.5
1.005	26	0.501	52	0.338	77	0.788	33	0.520	50	0.388	67
0.971	27	0.492	53	0.334	78	0.776	33.5	0.515	50.5	0.385	67.5
0.936	28	0.482	54	0.329	79	0.765	34	0.510	51	0.382	68
0.902	29	0.473	55	0.325	80	0.753	34.5	0.505	51.5	0.380	68.5
0.867	30	0.465	56	0.321	81	0.743	35	0.500	52	0.377	69
0.842	31	0.457	57	0.317	82	0.732	35.5	0.495	52.5	0.374	69.5
0.817	32	0.449	58	0.314	83	0.722	36	0.491	53	0.371	70
0.793	33	0.441	59	0.310	84	0.712	36.5	0.486	53.5		70.5
0.768	34	0.433	60	0.306	85	0.703	37	0.481	54	0.366	71
0.743	35	0.426	61	0.303	86	0.693	37.5	0.477	54.5		71.5
0.724	36	0.420	62	0.299	87	0.684	38	0.473	55	0.361	72
0.706	37	0.413	63	0.296	88	0.675	38.5	0.468	55.5		72.5
0.688	38	0.407	64	0.292	89	0.667	39	0.464	56	0.356	73
0.669	39	0.400	65	0.289	90	0.658	39.5	0.460	56.5		73.5
0.650	40	0.394	66	0.286	91	0.650	40	0.456	57	0.351	74
0.636	41	0.388	67	0.283	92	0.642	40.5	0.452	57.5		74.5
0.621	42	0.383	68	0.280	93	0.634	41	0.448	58	0.347	75
0.607	43	0.377	69	0.277	94	0.626	41.5	0.444	58.5		75.5
0.592	44	0.371	70	0.274	95	0.619	42	0.441	59	0.342	76
0.578	45					0.612	42.5	0.437	59.5		76.5
						0.605	43	0.433	60	0.338	77
						0.598	43.5	0.430	60.5		77.5
						0.591	44	0.426	61	0.333	78
						0.584	44.5	0.423	61.5		78.5
						0.578	45	0.419	62	0.329	79
						0.571	45.5	0.416	62.5		79.5
						0.565	46	0.413	63	0.325	80
						0.559	46.5	0.409	63.5		

.500 is deflection in thousands of an inch with a 2 lb weight.

spine is calculated by dividing 26 by deflection.

Thus an arrow with .500 deflection is 52 pounds in spine.