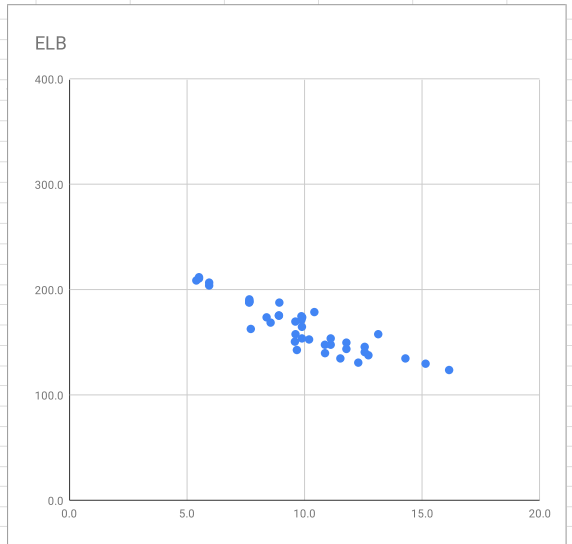


		lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %												
The Great Warbow	<a href="http://www">http://www</a>	150	1485	9.9	174.0	0.90														135.3326747	
The Great Warbow		140	1250	8.9	188.0	0.95														132.9852355	
The Great Warbow		120	1250	10.4	179.0	1.00														120.5573769	
																				0 gr	
The Great Warbow	<a href="http://www">http://www</a>	150	827	5.5	210.9	0.74														110.7727481	
	pg 409	150	827	5.5	212.1	0.75														112.0167936	
	The Great	150	892	5.9	204.2	0.75														111.9922162	
		150	892	5.9	207.0	0.77														115.0350491	
		150	1148	7.7	188.6	0.82														122.9101485	
		150	1148	7.7	189.5	0.83														124.1534978	
		150	1148	7.7	191.1	0.84														126.1818694	
		150	1336	8.9	175.8	0.83														124.3559859	
		150	1336	8.9	175.6	0.83														124.0313271	
		150	1480	9.9	175.1	0.91														136.5310839	
		150	1480	9.9	171.5	0.87														131.0602687	
65# yew ELB	<a href="http://www">http://www</a>	62	520	8.4	174.0	0.76														47.38921942	
oregon yew	<a href="http://www">http://www</a>	75	985	13.1	158.0	0.99														74.00199878	
128# yew ELB	<a href="http://www">http://www</a>	128	1230	9.6	170.0	0.84														106.9992342	
																				0	
Mark Stretton w/ 140lb@32"	A report of	140	1080	7.7	163.0	0.62	496.3	0.90	68.5%											86.383584	
		140	1343	9.6	150.9	0.66	496.3	0.90	73.0%												92.046
																					0
Joe Gibbs swiss yew	<a href="https://www">https://www</a>	180	972	5.4	209.0	0.71														127.8300772	
																					0
		200	1750	8.8																	0
																					0
Laminated English Longbow																					0
Aidrian Hayes 52#	<a href="http://www">http://www</a>	52	445	8.6	169.0	0.74	50.2	0.82	89.9%												38.25701976
Aidrian Hayes 52#		52	500	9.6	158.0	0.72	50.2	0.80	90.9%												37.57179061
Aidrian Hayes 52#		52	530	10.2	153.0	0.72	50.2	0.79	91.3%												37.34534246
Aidrian Hayes 52#		52	565	10.9	148.0	0.72	50.2	0.78	91.8%												37.25199995
																					0
bamboo backed	<a href="http://su.r">http://su.r</a>	85	650	7.6	188.0	0.81		0.81	100.0%												69.15232244
																					0
chris-boyton high perf	<a href="http://www">http://www</a>	45	445	9.9	165.0	0.81	12.1	0.83	97.3%												36.46746833
chris-boyton high perf		45	500	11.1	154.0	0.79	12.1	0.81	97.6%												35.69350208
chris-boyton high perf		45	530	11.8	150.0	0.80	12.1	0.82	97.8%												35.89517729
chris-boyton high perf		45	565	12.6	146.0	0.81	12.1	0.82	97.9%												36.25199191
																					0
bickerstaff 46#	<a href="http://www">http://www</a>	46	445	9.7	143.0	0.60	181.3	0.84	71.0%												27.39112066
bickerstaff 46#		46	500	10.9	140.0	0.64	181.3	0.87	73.4%												29.49876205
bickerstaff 46#		46	530	11.5	135.0	0.63	181.3	0.85	74.5%												29.07509361
bickerstaff 46#		46	565	12.3	131.0	0.63	181.3	0.84	75.7%												29.18560861
																					0
chris-boyton	<a href="http://www">http://www</a>	45	445	9.9	154.0	0.71	177.1	0.99	71.5%												31.76721685
chris-boyton		45	500	11.1	148.0	0.73	177.1	0.99	73.8%												32.96637163
chris-boyton		45	530	11.8	144.0	0.74	177.1	0.98	74.9%												33.08099539
chris-boyton		45	565	12.6	141.0	0.75	177.1	0.99	76.1%												33.81149612
																					0
Ron Palmer	<a href="http://www">http://www</a>	35	445	12.7	138.0	0.73	58.0	0.82	88.5%												25.50914479
Ron Palmer		35	500	14.3	135.0	0.78	58.0	0.87	89.6%												27.42933359
Ron Palmer		35	530	15.1	130.0	0.77	58.0	0.85	90.1%												26.9612665
Ron Palmer		35	565	16.1	124.0	0.75	58.0	0.82	90.7%												26.14986994
																					0
																					0
																					0
																					0
																					0



		lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %
AFB (FRP)	<a href="http://www.arc">http://www.arc</a>	40	445	11.1	166.0	0.92	58.7	1.04	88.3%
		40	500	12.5	162.0	0.99	58.7	1.10	89.5%
		40	530	13.3	151.0	0.91	58.7	1.01	90.0%
		40	565	14.1	145.0	0.89	58.7	0.99	90.6%
	<a href="https://www.yc">https://www.yc</a>	60	485	8.1	174.0	0.74		0.74	100.0%
	<a href="http://www.arc">http://www.arc</a>	47	445	9.5	182.0	0.94	12.7	0.97	97.2%
		47	500	10.6	170.0	0.93	12.7	0.95	97.5%
		47	530	11.3	164.0	0.91	12.7	0.94	97.6%
		47	565	12.0	162.0	0.95	12.7	0.97	97.8%
	<a href="http://www.arc">http://www.arc</a>	50	445	8.9	168.0	0.76	186.3	1.07	70.5%
		50	500	10.0	158.0	0.75	186.3	1.03	72.8%
		50	530	10.6	155.0	0.77	186.3	1.04	74.0%
		50	565	11.3	154.0	0.81	186.3	1.07	75.2%
	<a href="http://www.arc">http://www.arc</a>	46	445	9.7	164.0	0.78	13.4	0.81	97.1%
		46	500	10.9	158.0	0.82	13.4	0.84	97.4%
		46	530	11.5	151.0	0.79	13.4	0.81	97.5%
		46	565	12.3	146.0	0.79	13.4	0.81	97.7%
	<a href="http://www.arc">http://www.arc</a>	48	445	9.3	172.0	0.83	40.0	0.90	91.7%
		48	500	10.4	165.0	0.85	40.0	0.92	92.6%
		48	530	11.0	156.0	0.81	40.0	0.87	93.0%
		48	565	11.8	154.0	0.84	40.0	0.90	93.4%
	<a href="http://petewar">http://petewar</a>	38	424	11.2	145.0	0.71	476.0	1.50	47.1%
		38	524	13.8	141.0	0.83	476.0	1.58	52.4%
		38	610	16.1	132.0	0.84	476.0	1.50	56.2%
		41	424	10.3	157.0	0.77	135.1	1.01	75.8%
		41	524	12.8	152.0	0.89	135.1	1.12	79.5%
		41	610	14.9	136.0	0.83	135.1	1.01	81.9%
		43	424	9.9	163.0	0.79	128.9	1.03	76.7%
		43	524	12.2	152.0	0.85	128.9	1.06	80.2%
		43	610	14.2	141.0	0.85	128.9	1.03	82.5%
	<a href="http://petewar">http://petewar</a>	39	424	10.9	152.0	0.76	183.6	1.08	69.8%
		39	524	13.4	141.0	0.80	183.6	1.09	74.0%
		39	610	15.6	133.0	0.83	183.6	1.08	76.9%

		lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %
		41	424	10.3	159.0	0.79	179.0	1.12	70.3%
		41	524	12.8	148.0	0.84	179.0	1.13	74.5%
		41	610	14.9	139.0	0.87	179.0	1.12	77.3%
		44	424	9.6	165.0	0.79	170.4	1.11	71.3%
		44	524	11.9	154.0	0.85	170.4	1.13	75.5%
		44	610	13.9	144.0	0.87	170.4	1.11	78.2%
	<a href="https://m.prod">https://m.prod</a>	60	540	9.0	189.0	0.97			

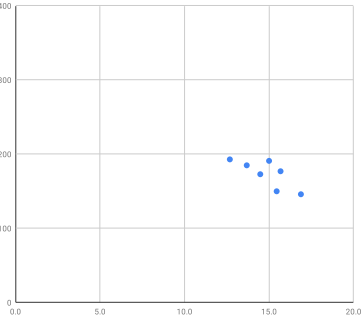




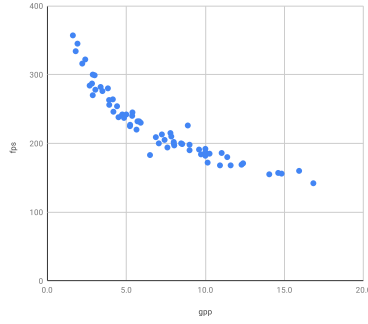
		lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %
82# Manchu Horn	<a href="http://">http://</a>	82	1230	15.0	191	1.65	67	1.7367774	94.84%
50#@32" Manchu Synthetic	<a href="http://">http://</a>	50	634	12.7	193	1.42			
50#@32" Manchu		50	684	13.7	185	1.41	20.7	1.4521508	97.1%
50#@32" Manchu		50	784	15.7	177	1.48	20.7	1.5179047	97.4%
50#@32" Manchu		50	724	14.5	173	1.30	20.7	1.3419537	97.2%
40# Tiger Tail II	<a href="https://">https://</a>	40	618	15.5	150	1.05			
52# laminated Manchu		52	878	16.9	146	1.08			

	lbs	gr	gpp	J/D	vMass	Jtot/lb	Eff %
Turkish Synthetic	http:	64	416	6.5	183	0.66	
	Tirer:	57	456	8.0			
		57	513	9.0			
		57	570	10.0			
	Tirer:	50	400	8.0			
		50	450	9.0			
		50	500	10.0			
	http:	45	400	8.9			
Francesco Turkish	http:	70	293	4.2			
Francesco Turkish		70	340	4.9			
Francesco Turkish		70	367	5.2			
Francesco Turkish		70	494	7.1			
Francesco Turkish		70	710	10.1			
Francesco Turkish	http:	65	255	3.9			
Francesco Turkish		65	293	4.5			
Francesco Turkish		65	340	5.2			
Francesco Turkish		65	367	5.6			
Francesco Turkish		65	494	7.6			
Francesco Turkish		65	710	10.9			
Lukasz Nawalny		75	216	2.9			
karpowicz test	http:	64	475	7.4			
		64	640	10.0			
Karpowicz 125# flight	http:	125	1548	12.4			
	http:	125	1067	8.5	199	1.02	197.5
		125	739	5.9	230	0.94	197.5
		125	552	4.4	254	0.86	197.5
		125	360	2.9	300	0.78	197.5
		125	203	1.6	357	0.62	197.5
							1.21
							84.4%
							1.19
							78.9%
							1.16
							73.6%
							1.21
							64.8%
							1.23
							50.7%
Karpowicz 106# flight		106	1548	14.6	157	1.08	148.3
		106	1067	10.1	185	1.04	148.3
		106	605	5.7	232	0.92	148.3
		106	440	4.2	264	0.87	148.3
		106	358	3.4	282	0.81	148.3
		106	255	2.4	322	0.75	148.3
		106	203	1.9	345	0.69	148.3
							1.19
							91.2%
							1.18
							87.8%
							1.15
							80.3%
							1.16
							74.8%
							1.14
							70.7%
							1.19
							63.2%
							1.19
							57.8%
Karpowicz 92# flight		92	1548	16.8	142	1.02	136.1
		92	1067	11.6	168	0.99	136.1
		92	739	8.0	197	0.94	136.1
		92	437	4.8	242	0.84	136.1
		92	360	3.9	263	0.81	136.1
		92	204	2.2	316	0.67	136.1
							1.11
							91.9%
							1.11
							88.7%
							1.11
							84.4%
							1.10
							76.2%
							1.12
							72.6%
							1.11
							60.0%
Karpowicz 126# hybrid		126	1548	12.3	169	1.06	227.6
		126	1067	8.5	200	1.02	227.6
		126	733	5.8	232	0.94	227.6
		126	440	3.5	276	0.80	227.6
		126	227	1.8	334	0.60	227.6
							1.21
							87.2%
							1.24
							82.4%
							1.24
							76.3%
							1.22
							65.9%
							1.21
							49.9%
Karpowicz 136# hybrid		136	1548	11.4	180	1.11	200.7
		136	1067	7.8	210	1.04	200.7
		136	733	5.4	245	0.97	200.7
		136	522	3.8	280	0.91	200.7
							1.25
							72.2%
Karpowicz 72# war		72	1548	21.5	131	1.11	149.7
		72	1067	14.8	156	1.09	149.7
		72	739	10.3	185	1.06	149.7
		72	522	7.3	213	0.99	149.7
		72	360	5.0	242	0.88	149.7
		72	204	2.8	287	0.70	149.7
							1.22
							57.7%
Karpowicz 76# war		76	1548	20.4	130	1.04	152.3
		76	1067	14.0	155	1.02	152.3
		76	739	9.7	184	0.99	152.3
		76	522	6.9	209	0.90	152.3
		76	360	4.7	241	0.83	152.3
		76	204	2.7	284	0.65	152.3
							1.14
							57.3%
Karpowicz 67# target		67	1548	23.1	135	1.27	210.7
		67	1067	15.9	160	1.23	210.7
		67	739	11.0	186	1.15	210.7
		67	522	7.8	215	1.08	210.7
		67	360	5.4	240	0.93	210.7
		67	204	3.0	278	0.71	210.7
							1.44
							88.0%
							1.47
							83.5%
							1.48
							77.8%
							1.52
							71.2%
							1.48
							63.1%
							1.44
							49.2%
Grozer Horn Turkish	http:	50	480	9.6	191	1.05	
turkish	http:	65	193	3.0	299	0.96	

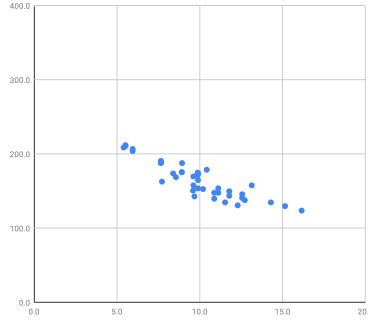
Manchu



Turkish



ELB



		lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %
Yumi nibe C	<a href="http://">http:</a>	54		0.0	158	0.00			
Yumi nibe D		91		0.0	163	0.00			
Yumi nibe E		33		0.0	142	0.00			
Yumi nibe F		61		0.0	151	0.00			
Japanese Yumi	<a href="http://">http:</a>	44	460	10.5	180	1.02			
C 4-sun	<a href="http://">http:</a>	35	436.7	12.5	179	1.20	238	1.86	64.8%
C 4-sun		35	433.7	12.4	187	1.30	238	2.02	64.6%
C 4-sun		35	379.6	10.8	192	1.20	238	1.96	61.5%
C 4-sun		35	481.5	13.8	181	1.36	238	2.03	67.0%
C 4-sun		35	513.9	14.7	174	1.34	238	1.96	68.4%
C 4-sun		40	436.7	10.9	186	1.14	256	1.80	63.0%
C 4-sun		40	433.7	10.8	189	1.17	256	1.85	62.9%
C 4-sun		40	379.6	9.5	197	1.11	256	1.86	59.7%
C 4-sun		40	481.5	12.0	182	1.20	256	1.84	65.3%
C 4-sun		40	513.9	12.8	179	1.24	256	1.86	66.7%
BC 4-sun		40	436.7	10.9	177	1.03			
BC 4-sun		40	379.6	9.5	187	1.00			
G 4-sun		34	436.7	12.8	176	1.20			
B 4-sun		42	436.7	10.4	184	1.06	643	2.62	40.4%
B 4-sun		42	944.5	22.5	154	1.61	643	2.70	59.5%
B 4-sun		42	433.7	10.3	187	1.09	643	2.70	40.3%
B 4-sun		42	481.5	11.5	180	1.12	643	2.61	42.8%
B 4-sun		42	513.9	12.2	166	1.01	643	2.28	44.4%
B nobi		49	436.7	8.9	187	0.94			
B 4-sun		39	433.7	11.1	176	1.04	172	1.45	71.6%
B 4-sun		39	379.6	9.7	184	0.99	172	1.44	68.8%
B 4-sun		39	481.5	12.3	165	1.01	172	1.37	73.7%
B 4-sun		39	513.9	13.2	166	1.09	172	1.46	74.9%
BC 4-sun		39	436.7	11.2	182	1.12	13	1.15	97.1%
BC 4-sun		39	433.7	11.1	183	1.12	13	1.15	97.1%
BC 4-sun		39	379.6	9.7	190	1.06	13	1.09	96.7%
BC 4-sun		39	481.5	12.3	175	1.14	13	1.17	97.4%
BC 4-sun		39	513.9	13.2	164	1.07	13	1.09	97.5%



	lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %
BC 4-sun	39	433.7	11.1	176	1.04	13	1.07	97.1%
BC 4-sun	39	379.6	9.7	177	0.92	13	0.95	96.7%
BC 4-sun	39	481.5	12.3	171	1.09	13	1.12	97.4%
BC 4-sun	39	513.9	13.2	164	1.07	13	1.09	97.5%
B 4-sun	36	436.7	12.1	173	1.09	113	1.38	79.4%
B 4-sun	36	433.7	12.0	172	1.07	113	1.35	79.3%
B 4-sun	36	379.6	10.5	185	1.09	113	1.41	77.0%
B 4-sun	36	481.5	13.4	172	1.19	113	1.47	80.9%
B 4-sun	36	513.9	14.3	164	1.16	113	1.41	81.9%
B 4-sun	35	436.7	12.5	178	1.19	113	1.50	79.4%
B 4-sun	35	433.7	12.4	179	1.20	113	1.51	79.3%
B 4-sun	35	379.6	10.8	185	1.12	113	1.45	77.0%
B 4-sun	35	481.5	13.8	166	1.14	113	1.41	80.9%
B 4-sun	35	513.9	14.7	167	1.23	113	1.50	81.9%
G 4-sun	33	402.8	12.2	177	1.15			
C 4-sun	40	436.7	10.9	175	1.01			
C 4-sun	40	402.8	10.1	187	1.06			
G 4-sun	32	354.9	11.1	179	1.07			
G 4-sun	32	771.6	24.1	141	1.44			
BC nobi	37	447.5	12.1	150	0.82			
BC nobi	37	478.4	12.9	151	0.89			
C nobi	39	447.5	11.5	162	0.91			
G nobi	26	447.5	17.2	108	0.60			
G nobi	26	447.5	17.2	107	0.59			
G nobi	22	447.5	20.3	105	0.68			
G nobi	22	293.2	13.3	153	0.94			
G nobi	25	447.5	17.9	139	1.04			
G nobi	29	447.5	15.4	144	0.96			
G nobi	27	447.5	16.6	140	0.98			
B nobi	32	447.5	14.0	152	0.97			
B nobi	42	447.5	10.7	166	0.88			
G 4-sun	35	402.8	11.5	192	1.28			
G 4-sun	35	632.7	18.1	171	1.59			
C 4-sun	42	436.7	10.4	190	1.13			
C 4-sun	42	436.7	10.4	184	1.06			
B 4-sun	44	436.7	9.9	190	1.08			
C 4-sun	37	402.8	10.9	191	1.20			
C 4-sun	37	436.7	11.8	187	1.24			

	lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %
BC 4-sun	40	436.7	10.9	195	1.25			
G nobi	29	387.4	13.4	160	1.03	144	1.41	72.8%
G nobi	29	387.4	13.4	164	1.08	144	1.48	72.8%
G nobi	29	472.2	16.3	152	1.13	144	1.48	76.6%
G nobi	29	472.2	16.3	151	1.12	144	1.46	76.6%
G nobi	29	640.4	22.1	136	1.23	144	1.51	81.6%
G nobi	29	640.4	22.1	135	1.21	144	1.48	81.6%
C nobi	37	418.2	11.3	178	1.08			
C nobi	37	354.9	9.6	176	0.89			
B nami	25	390.4	15.6	146	1.00			
B nami	25	771.6	30.9	89	0.74			
G nobi	29	463	16.0	112	0.60			
C nami	26	353.4	13.6	144	0.85			
G nobi	32	470.7	14.7	136	0.82			
B 4-sun	42	436.7	10.4	187	1.09			
B 4-sun	42	482	11.5	187	1.21			
C 4-sun	46	436.7	9.5	185	0.98			
C 4-sun	46	478.4	10.4	180	1.01			
C 4-sun	40	436.7	10.9	190	1.19			
C 4-sun	40	478.4	12.0	181	1.18			
G nobi	33	493.8	15.0	154	1.07	78	1.24	86.4%
G nobi	33	427.5	13.0	164	1.05	78	1.24	84.6%
G nobi	33	354.9	10.8	177	1.01	78	1.24	82.0%
G nobi	33	416.7	12.6	154	0.90	78	1.07	84.3%
B nobi	51	694.5	13.6	158	1.02			
G nobi	36	354.9	9.9	177	0.93	331	1.80	51.8%
G nobi	36	427.5	11.9	167	1.00	331	1.77	56.4%
G nobi	36	478.4	13.3	167	1.12	331	1.89	59.1%
G nobi	36	540.1	15.0	158	1.13	331	1.82	62.0%
G nobi	36	780.9	21.7	139	1.26	331	1.80	70.3%
B	36	478.4	13.3	161	1.04			
B	27	402	14.9	152	1.04			

		lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %
Grozer Biocom Turk	Tirendaz	57	456	8.0	200	0.96	22.57	1.01	95.3%
		57	513	9.0	190	0.98	22.57	1.02	95.8%
		57	570	10.0	187	1.05	22.57	1.09	96.2%
Grozer TRH Turk	Tirendaz	50	400	8.0	202	0.98	27.17	1.05	93.6%
		50	450	9.0	198	1.06	27.17	1.13	94.3%
		50	500	10.0	192	1.11	27.17	1.17	94.8%
Grozer L2 Crim tatar	Tirendaz	50	400	8.0	202	0.98	22.47	1.04	94.7%
		50	450	9.0	195	1.03	22.47	1.08	95.2%
		50.0	500.0	10.0	190.00	1.09	22.47	1.14	95.7%
Grozer L6 Sarmatian	<a href="https://ww">https://ww</a>	43	400	5.0	217	1.32			
Grozer L7 Turkish		45	400	5.0	226	1.37			
Grozer Bio Assyrian		56	400	4.2	237	1.21			
Grozer Bio Assyrian		61	400	4.0	243	1.17			
grozer biocomposite assyrian	<a href="http://leathe">http://leathe</a>	42	399	9.5	177	0.90			

		lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %
PVC Holmegaard	<a href="https://plus.google.com/114530781806612417411">https://plus.google.com/114530781806612417411</a>	50	250	5.0	185	0.52			
		50	300	6.0	175	0.55			
	<a href="http://www.holmegaard.com">http://www.holmegaard.com</a>	80	435	5.4	160	0.42			
	<a href="http://www.holmegaard.com">http://www.holmegaard.com</a>	35	503	14.4	108	0.50			
		35	503	14.4	112	0.54			
black long recurv	<a href="https://plus.google.com/114530781806612417411">https://plus.google.com/114530781806612417411</a>	45	450	10.0	145	0.63	214.4	0.93	67.7%
		45	550	12.2	138	0.70	214.4	0.97	71.9%
		45	630	14.0	128	0.69	214.4	0.93	74.6%
		45	360	8.0	149	0.53	214.4	0.85	62.7%
		45	270	6.0	169	0.52	214.4	0.93	55.7%
blue short recurv	<a href="https://plus.google.com/114530781806612417411">https://plus.google.com/114530781806612417411</a>	45	450	10.0	164	0.81	108.1	1.00	80.6%
		45	550	12.2	158	0.92	108.1	1.10	83.6%
		45	630	14.0	141	0.84	108.1	0.98	85.3%
		45	360	8.0	183	0.81	108.1	1.05	76.9%
		45	270	6.0	197	0.70	108.1	0.98	71.4%
backyard bowyer	<a href="http://www.backyardbowyer.com">http://www.backyardbowyer.com</a>	45	270	6.0	169	0.52	232.6	0.96	53.7%
		45	360	8.0	150	0.54	232.6	0.89	60.7%
		45	450	10.0	145	0.63	232.6	0.96	65.9%
		45	540	12.0	138	0.69	232.6	0.98	69.9%
		45	630	14.0	129	0.70	232.6	0.96	73.0%
holmegaard	<a href="https://plus.google.com/114530781806612417411">https://plus.google.com/114530781806612417411</a>	48	435	9.1		0.00			
snakeskin	<a href="https://plus.google.com/114530781806612417411">https://plus.google.com/114530781806612417411</a>	55	550	10.0	136	0.56			
	<a href="https://plus.google.com/114530781806612417411">https://plus.google.com/114530781806612417411</a>				197				

		lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %
Toth Mongol	<a href="https://ww">https://ww</a>	40	550	13.8	145	0.87			
Kassai Hungarian		110	1100	10.0	206	1.28			
hungarian	<a href="http://ata">http://ata</a>	57	617	10.8	172	0.96			
Saluki Crim Tatar	<a href="http://ww">http://ww</a>	70	416	5.9	222	0.88			
		70.2	416	5.9	238	1.01			
Saluki Damascus	<a href="http://ww">http://ww</a>	41.6	416	10.0	181	0.99			
Karpowicz CrimTatar	<a href="http://ata">http://ata</a>	144	1115	7.7	208	1.01			
Karpowicz KrimTatar	<a href="http://ata">http://ata</a>	159	969	6.1	248	1.13			
		165	969	5.9	243	1.04			
Karpowicz KrimTatar	<a href="http://ata">http://ata</a>	180	984.00	5.5	249	1.02	67.4	1.09	93.6%
		180	1777	9.9	188	1.05	67.4	1.09	96.3%
Crim Tatar monster finger loose	<a href="https://ww">https://ww</a>	180	976.8	5.4	211	0.73	574.7	1.16	62.9%
		180	463	2.6	258	0.52	574.7	1.16	44.6%
Mariner Han	<a href="http://ww">http://ww</a>	54	416	7.7	173	0.70			
Mariner Han	<a href="http://www">http://www</a>	54	500	9.3	175	0.86			
Kaiyuan	<a href="http://www">http://www</a>	40	341	8.5	192	0.95			
Samick Sage	<a href="http://cav">http://cav</a>	44	378	8.6	165	0.70	73.02	0.84	83.8%
		44	423	9.6	153	0.68	73.02	0.79	85.3%
		44	511	11.6	145	0.73	73.02	0.84	87.5%
Bearpaw Horsebow	<a href="http://pet">http://pet</a>	37	346	9.3	178	0.89			
		41	346	8.4	189	0.91			
		45	346	7.7	193	0.86			
bearpaw scythian	<a href="http://ww">http://ww</a>	40	445	11.1	160	0.86	266.2	1.37	62.6%
		40	500	12.5	154	0.89	266.2	1.37	65.3%
		40	530	13.3	150	0.90	266.2	1.35	66.6%
		40	565	14.1	148	0.93	266.2	1.37	68.0%



10	27.3	-50.5	57.4	-61.63	4.20	1.99	6.19
10.1	27.1	-51.1	57.8	-62.10	4.27	2.00	6.11
10.2	26.9	-51.7	58.3	-62.55	4.33	2.00	6.04
10.3	26.7	-52.3	58.7	-62.99	4.40	2.00	5.97
10.4	26.5	-52.9	59.1	-63.42	4.46	2.00	5.89
10.5	26.3	-53.5	59.6	-63.84	4.53	2.00	5.82
10.6	26.1	-54.0	60.0	-64.26	4.59	2.00	5.75
10.7	25.9	-54.6	60.4	-64.66	4.66	2.00	5.67
10.8	25.7	-55.2	60.8	-65.05	4.72	1.99	5.60
10.9	25.5	-55.7	61.3	-65.44	4.79	1.99	5.53
11	25.3	-56.3	61.7	-65.82	4.85	1.99	5.45
11.1	25.1	-56.8	62.1	-66.19	4.92	1.99	5.38
11.2	24.9	-57.3	62.5	-66.55	4.98	1.99	5.31
11.3	24.7	-57.9	62.9	-66.91	5.05	1.98	5.24
11.4	24.5	-58.4	63.3	-67.26	5.11	1.98	5.17
11.5	24.3	-58.9	63.7	-67.60	5.18	1.98	5.09
11.6	24.1	-59.4	64.1	-67.93	5.24	1.97	5.02
11.7	23.9	-59.9	64.5	-68.26	5.30	1.97	4.95
11.8	23.7	-60.4	64.8	-68.58	5.37	1.96	4.88
11.9	23.5	-60.9	65.2	-68.90	5.43	1.96	4.81
12	23.3	-61.3	65.6	-69.21	5.49	1.96	4.74
12.1	23.1	-61.8	66.0	-69.51	5.55	1.95	4.68
12.2	22.9	-62.3	66.3	-69.80	5.62	1.94	4.61
12.3	22.7	-62.7	66.7	-70.10	5.68	1.94	4.54
12.4	22.5	-63.2	67.0	-70.38	5.74	1.93	4.47
12.5	22.3	-63.6	67.4	-70.66	5.80	1.93	4.41
12.6	22.1	-64.0	67.7	-70.94	5.86	1.92	4.34
12.7	21.9	-64.5	68.1	-71.20	5.92	1.91	4.27
12.8	21.7	-64.9	68.4	-71.47	5.98	1.91	4.21
12.9	21.6	-65.3	68.8	-71.73	6.03	1.90	4.14
13	21.4	-65.7	69.1	-71.98	6.09	1.89	4.08
13.1	21.2	-66.1	69.4	-72.23	6.15	1.88	4.02
13.2	21.0	-66.5	69.7	-72.48	6.21	1.88	3.95
13.3	20.8	-66.9	70.0	-72.72	6.26	1.87	3.89
13.4	20.6	-67.3	70.4	-72.96	6.32	1.86	3.83
13.5	20.4	-67.6	70.7	-73.19	6.37	1.85	3.77
13.6	20.2	-68.0	71.0	-73.42	6.43	1.84	3.71
13.7	20.1	-68.4	71.3	-73.65	6.48	1.83	3.65
13.8	19.9	-68.7	71.6	-73.87	6.54	1.83	3.59
13.9	19.7	-69.1	71.8	-74.09	6.59	1.82	3.53
14	19.5	-69.4	72.1	-74.30	6.64	1.81	3.47
14.1	19.3	-69.8	72.4	-74.51	6.69	1.80	3.42
14.2	19.2	-70.1	72.7	-74.72	6.74	1.79	3.36
14.3	19.0	-70.5	73.0	-74.92	6.79	1.78	3.30
14.4	18.8	-70.8	73.2	-75.12	6.84	1.77	3.25
14.5	18.6	-71.1	73.5	-75.31	6.89	1.76	3.19
14.6	18.5	-71.4	73.8	-75.51	6.94	1.75	3.14
14.7	18.3	-71.7	74.0	-75.70	6.99	1.74	3.09
14.8	18.1	-72.0	74.3	-75.88	7.04	1.73	3.04
14.9	17.9	-72.3	74.5	-76.07	7.09	1.72	2.98
15	17.8	-72.6	74.8	-76.25	7.13	1.71	2.93
15.1	17.6	-72.9	75.0	-76.43	7.18	1.70	2.88
15.2	17.4	-73.2	75.2	-76.60	7.22	1.68	2.83
15.3	17.3	-73.5	75.5	-76.78	7.27	1.67	2.78
15.4	17.1	-73.7	75.7	-76.95	7.31	1.66	2.73
15.5	16.9	-74.0	75.9	-77.11	7.36	1.65	2.69
15.6	16.8	-74.3	76.1	-77.28	7.40	1.64	2.64
15.7	16.6	-74.5	76.4	-77.44	7.44	1.63	2.59
15.8	16.4	-74.8	76.6	-77.60	7.48	1.62	2.55
15.9	16.3	-75.0	76.8	-77.76	7.52	1.61	2.50
16	16.1	-75.3	77.0	-77.91	7.56	1.60	2.46
16.1	16.0	-75.5	77.2	-78.06	7.60	1.58	2.41
16.2	15.8	-75.8	77.4	-78.21	7.64	1.57	2.37
16.3	15.7	-76.0	77.6	-78.36	7.68	1.56	2.33
16.4	15.5	-76.2	77.8	-78.51	7.72	1.55	2.29
16.5	15.3	-76.4	78.0	-78.65	7.76	1.54	2.24
16.6	15.2	-76.7	78.2	-78.79	7.80	1.53	2.20
16.7	15.0	-76.9	78.3	-78.93	7.83	1.52	2.16
16.8	14.9	-77.1	78.5	-79.07	7.87	1.50	2.12
16.9	14.7	-77.3	78.7	-79.21	7.90	1.49	2.08
17	14.6	-77.5	78.9	-79.34	7.94	1.48	2.05
17.1	14.4	-77.7	79.0	-79.47	7.97	1.47	2.01
17.2	14.3	-77.9	79.2	-79.60	8.01	1.46	1.97
17.3	14.2	-78.1	79.4	-79.73	8.04	1.45	1.93
17.4	14.0	-78.3	79.5	-79.85	8.07	1.43	1.90
17.5	13.9	-78.5	79.7	-79.98	8.10	1.42	1.86
17.6	13.7	-78.7	79.8	-80.10	8.14	1.41	1.83
17.7	13.6	-78.8	80.0	-80.22	8.17	1.40	1.79
17.8	13.4	-79.0	80.1	-80.34	8.20	1.39	1.76
17.9	13.3	-79.2	80.3	-80.46	8.23	1.38	1.73
18	13.2	-79.4	80.4	-80.57	8.26	1.36	1.70
18.1	13.0	-79.5	80.6	-80.69	8.29	1.35	1.66
18.2	12.9	-79.7	80.7	-80.80	8.32	1.34	1.63
18.3	12.8	-79.8	80.9	-80.91	8.34	1.33	1.60
18.4	12.6	-80.0	81.0	-81.02	8.37	1.32	1.57
18.5	12.5	-80.2	81.1	-81.13	8.40	1.31	1.54
18.6	12.4	-80.3	81.3	-81.24	8.43	1.30	1.51
18.7	12.3	-80.5	81.4	-81.34	8.45	1.28	1.48
18.8	12.1	-80.6	81.5	-81.45	8.48	1.27	1.45
18.9	12.0	-80.7	81.6	-81.55	8.50	1.26	1.43
19	11.9	-80.9	81.7	-81.65	8.53	1.25	1.40
19.1	11.7	-81.0	81.9	-81.75	8.55	1.24	1.37
19.2	11.6	-81.2	82.0	-81.85	8.58	1.23	1.34
19.3	11.5	-81.3	82.1	-81.94	8.60	1.22	1.32
19.4	11.4	-81.4	82.2	-82.04	8.63	1.21	1.29
19.5	11.3	-81.5	82.3	-82.13	8.65	1.19	1.27
19.6	11.1	-81.7	82.4	-82.23	8.67	1.18	1.24
19.7	11.0	-81.8	82.5	-82.32	8.69	1.17	1.22
19.8	10.9	-81.9	82.6	-82.41	8.71	1.16	1.20
19.9	10.8	-82.0	82.7	-82.50	8.74	1.15	1.17
20	10.7	-82.1	82.8	-82.59	8.76	1.14	1.15
20.1	10.6	-82.3	82.9	-82.68	8.78	1.13	1.13
20.2	10.5	-82.4	83.0	-82.76	8.80	1.12	1.10
20.3	10.3	-82.5	83.1	-82.85	8.82	1.11	1.08
20.4	10.2	-82.6	83.2	-82.93	8.84	1.10	1.06
20.5	10.1	-82.7	83.3	-83.02	8.86	1.09	1.04
20.6	10.0	-82.8	83.4	-83.10	8.87	1.08	1.02
20.7	9.9	-82.9	83.5	-83.18	8.89	1.07	1.00
20.8	9.8	-83.0	83.6	-83.26	8.91	1.06	0.98
20.9	9.7	-83.1	83.6	-83.34	8.93	1.05	0.96
21	9.6	-83.2	83.7	-83.41	8.95	1.04	0.94
21.1	9.5	-83.3	83.8	-83.49	8.96	1.03	0.92
21.2	9.4	-83.4	83.9	-83.57	8.98	1.02	0.90
21.3	9.3	-83.4	84.0	-83.64	9.00	1.01	0.89
21.4	9.2	-83.5	84.0	-83.72	9.01	1.00	0.87
21.5	9.1	-83.6	84.1	-83.79	9.03	0.99	0.85
21.6	9.0	-83.7	84.2	-83.86	9.04	0.98	0.83
21.7	8.9	-83.8	84.3	-83.93	9.06	0.97	0.82
21.8	8.8	-83.9	84.3	-84.00	9.07	0.96	0.80

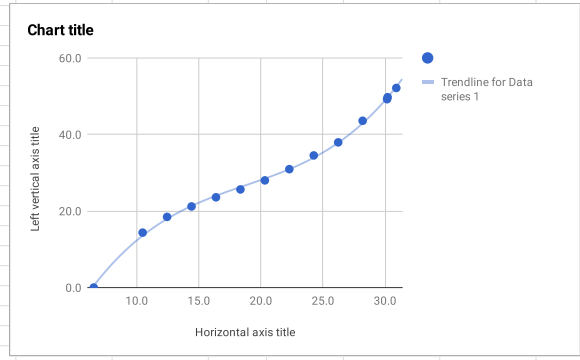




Ottoman Turkish Bows by Adam Karpowicz			all the way from some 40lb to 240lb. The average draw weight is 120lb!
			I do not believe bows below 70lb were made for grown men at the time, but probably for women, boys and the elderly or made exclusively for targetshooting.
	avg	112.0	Also three bows equal or below 70lb, as well as nine bows over 150lb could be removed from the group. Then the average draw weight of the remaining 26 bows is 112lb with the standard deviation of 18lb It means there is a very good chance the draw weight of most battlebows was between 90lb and 130lb at 28in draw.
Arab Archery 1 rotl = 0.9lbs			If you have a strong bow which weighs two hundred rotls [180lbs].. If your bow weighs a hundred rotls [90lbs] or more, but less than two hundred rotls.. if the bow were sixty rotls [54lbs] in weight, the arrow should be ten dirhams [470gr (8.8gpp)]
Manchu <a href="http://www.man">http://www.man</a>			Ability at strength of six (probably a pull of about 80 pounds) was considered minimal for a grown man, and strength of ten (about 133 pounds) was required for participation in hunts."
	avg	108.4	A 1736 report found that of 3,200 troops at the Hangzhou garrison about 2,200 were able to draw bows of strengths six to ten [80-133],pounds], 137 a seven strength [93 pounds], and 85 a ten-strength bow [133 pounds] and 80 could handle bow strengths of eleven to thirteen [147-173 pounds]...
	avg	90.6	...In comparison, the 500 troops at the small Dezhou garrison acquitted themselves with honor, all of them being able to take a five-strength bow [67 pounds], (which means 75 could only draw 67 pounds) 203 a six-strength [80 pounds], 137 a seven strength [93 pounds], and 85 a ten-strength bow [133 pounds].
Chinese Archery by Stephen Selby pg249 Song dynasty ~1064AD 1 dou = 14.9lbs			In archery infantry shooting required a draw-weight of one stone and one dou [161lbs] and for mounted shooting, eight dou [119lbs]  For mounted archery, they had three chances to hit the target mounted. A draw-weight of nine dou was worth five points [134lbs], eight dou was worth four points and seven dou [104lbs] three points
Mary Rose <a href="https://www.acad">https://www.acad</a> 1545 England	avg	113.5	12x90lbs, 15x100lbs, 23x110lbs,16x120lbs, 10x130lbs, 5x140lbs, 3x150lbs, 1x170lbs

				-0.00017516"x^4+0.02015				-1988.393071				-1987.6711339"x 0.2691 x + 429.82 x^2 - 908.252 x^3 + 1091.53 x^4 - 397.534 x^5			
BH				in	lb	lb calc J/lb	#DIV/0!	m	N	Jtot					
2	14	14	14	10.5	14.4	14.4	0.2453411689	0.1660	0.00	0.0000	0	0	76.158	Jtot	
3	18	18	18	12.4	18.5	18.4	0.3883758809	0.2660	63.86	0.1000	63.85715668	3.52203566	1.410333333	J/lb	
4	21	20	21	14.4	21.2	21.2	0.5473767202	0.3160	82.10	0.1500	82.10205859	7.168363824			
5	23	23	23	16.4	23.6	23.4	0.7045006572	0.3660	94.27	0.2000	94.26532653	11.59984112			
6	25	25	25	18.3	25.6	25.5	0.8627661813	0.4160	104.91	0.2500	104.908186	16.61515977			
7	26	26	26	20.3	28.0	27.7	1.003488552	0.4660	114.03	0.3000	114.0306369	22.11711138			
8	30	30	30.5	22.3	30.9	30.4	1.119292882	0.5160	124.55	0.3500	124.55016	28.09767946			
9	33	34	34	24.3	34.5	33.9	1.21137726	0.5660	137.60	0.4000	137.5969686	34.62313184			
10	37	37	37	26.2	37.9	38.3	1.314068903	0.6160	153.56	0.4500	153.5612577	41.8191132			
11	42	42.5	43	28.2	43.6	43.5	1.35229668	0.6660	168.77	0.5000	168.7653427	49.8557375			
12	48	48	48	30.2	49.2	49.6	1.407254851	0.7160	193.85	0.5500	193.8520828	58.93268049			
12.6				30.2	49.7	49.8	1.397320978	0.7660	218.94	0.6000	218.9388229	69.26427216			
				30.9	52.2	52.2	1.409827063	0.7849		221.25491	0.6011	221.25491	69.50288593		
				31.3	54.0	53.7	1.41027725	0.7960	240.20	232.0035147	0.6189	232.0035147	73.5316225		
				31.9	55.9	55.8	1.427328318	0.8110	248.7332731	239.0010918	0.6300	240.20388	76.15497149		
										248.7332731	0.6450	248.7332731	79.81260919		

actual reading			
kg	lb		
10	21.5	22.0462	1.025404651
15	32.7	33.0693	



		lbs	gr	gpp	fps	J/lb	vMass	Jtot/lb	Eff %
Kestrel	<a href="http://www.">http://www.</a>	70	385	5.5	274	1.24	73.6	1.48	83.9%
		70	500	7.1	245	1.29	73.6	1.48	87.2%
		60	385	6.4	252	1.23	67.0	1.44	85.2%
		60	500	8.3	225	1.27	67.0	1.44	88.2%
Diamond Infinite E	<a href="http://bestcor">http://bestcor</a>	70	350	5.0					
		70	425	6.1					
	<a href="https://www.r">https://www.r</a>	65	363	5.6	319	1.71			
		65	401	6.2	306	1.74			
		65	453	7.0	289	1.75			
		65	510	7.8	274	1.77			