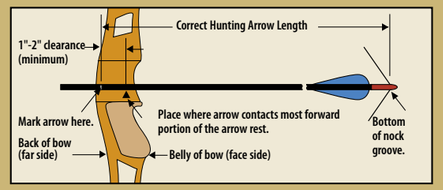
Selecting the Correct Hunting Shaft Size

For expert bow weight, arrow selection, and bow analysis, visit an Easton dealer equipped with the Bow Force Mapping System. See page 30 for more information.

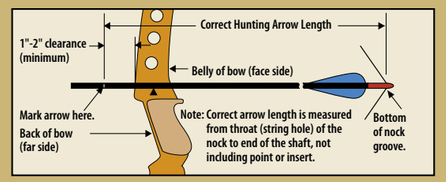
The Hunting Shaft Selection Chart will help you find the perfect shaft match for your bow—quickly and easily. Advanced, interactive Spine Weight Comparison and Hunting Shaft Selection Charts are now available online at www.eastonarchery.com.

1. Determining Correct Hunting Arrow Length

Bows with cut-out window. The Correct Hunting Arrow Length for bows with a broadhead cut-out sight window (including bows with overdraws) is determined by drawing back an extra-long arrow to full draw and having someone mark the arrow one-to-two inches in front of where the arrow contacts the most forward portion of the arrow rest.



Bows without cut-out window (which will not allow a fixed blade broadhead to be drawn past the back of the bow). The Correct Hunting Arrow Length for bows without a cut-out sight window is determined by drawing back an extra-long arrow to full draw and having someone mark



the arrow one-to-two inches in front of the handle.

Bow Draw Length. Draw length is measured at full draw from the bottom of the nock groove to the back (far side) of the bow. Actual arrow length and draw length are only the same if the end of the arrow shaft is even with the back of the bow (far side) at full draw.

2. Determining Actual Peak Bow Weight—Compound Bows

Compound bows must be measured at the peak bow weight as the bow is being drawn and not while letting the bow down.

The suggested shaft sizes in the charts were determined using a **"Standard" Setup** which includes:

- Use of a release aid
- Compound bow with brace height greater than 6½"

If your setup differs from the **"Standard" Setup**, use the **Variables** (following) to make adjustments to determine the Calculated Peak Bow Weight so the correct arrow size can be selected on the chart.

Variables to the "Standard" Setup for Compound Bows:

- Point weight over 100 grains – Add 3 lbs. for each 25 grains heavier than 100 grains.
- Bows with brace heights less than 6½" – Add 5 lbs.
- Finger release – Add 5 lbs.

Overdraw Compound Bows

If you are using an overdraw, make the variable calculations (if any), and then modify the Calculated Peak Bow Weight of your bow using the chart below.

Length of Overdraw

Bow Weight	*1"*	*2"*	*3"*	*4"*	*5"*
For 50#-70# Actual/Calculated Peak Bow Weight, add to bow weight—	1#	3#	6#	9#	12#

3. Determining Actual Peak Bow Weight—Recurve and Modern Longbows

Your local archery pro shop is the best place to determine the actual draw weight of your bow. Actual Peak Bow Weight for recurve bows should be measured at your draw length.

COMPOUND BOW - Release Aid
Calculated Peak Bow Weight - lbs.

Medium Cam / Single or Hard Cam

Point Weight (Medium Cam)				Point Weight (Single or Hard Cam)				Correct Hunting Arrow Length												RECURVE BOW Finger Release actual peak Bow Weight - Lbs.				MODERN LONGBOW Finger Release actual peak Bow Weight - Lbs.			
								22½ 23" 23½	23½ 24" 24½	24½ 25" 25½	25½ 26" 26½	26½ 27" 27½	27½ 28" 28½	28½ 29" 29½	29½ 30" 30½	30½ 31" 31½	31½ 32" 32½	32½ 33" 33½		Point Weight				Point Weight			
75 (grains) 65-85	100 (grains) 90-110	125 (grains) 115-135	150 (grains) 140-160	75 (grains) 65-85	100 (grains) 90-110	125 (grains) 115-135	150 (grains) 140-160												75 (grains) 65-85	100 (grains) 90-110	125 (grains) 115-135	150 (grains) 140-160	75 (grains) 65-85	100 (grains) 90-110	125 (grains) 115-135	150 (grains) 140-160
											A	B	B	C	C	D	E						41-46	38-43	35-40	32-37
										A	B	B	C	C	D	E	F						47-52	44-49	41-46	38-43
40-44	37-41	34-38	31-35	35-39	32-36	29-33	26-30		A	B	B	C	C	D	E	F	G	H	35-39	32-36	29-33	26-30	53-58	50-55	47-52	44-49
45-49	42-46	39-43	36-40	40-44	37-41	34-38	31-35	A	B	B	C	C	D	E	F	G	H	I	40-44	37-41	34-38	31-35	59-64	56-61	53-58	50-55
50-54	47-51	44-48	41-45	45-49	42-46	39-43	36-40	B	B	C	C	D	E	F	G	H	I	J	45-49	42-46	39-43	36-40	65-70	62-67	59-64	56-61
55-59	52-56	49-53	46-50	50-54	47-51	44-48	41-45	B	C	C	D	E	F	G	H	I	J	J	50-54	47-51	44-48	41-45	71-76	68-73	65-70	62-67
60-64	57-61	54-58	51-55	55-59	52-56	49-53	46-50	C	C	D	E	F	G	H	I	J	J	K	55-59	52-56	49-53	46-50	77-82	74-79	71-76	68-73
65-69	62-66	59-63	56-60	60-64	57-61	54-58	51-55	C	D	E	F	G	H	I	J	J	K	L	60-64	57-61	54-58	51-55	83-88	80-85	77-82	74-79
70-75	67-72	64-69	61-66	65-69	62-66	59-63	56-60	D	E	F	G	H	I	J	J	K	L	L	65-69	62-66	59-63	56-60	89-94	86-91	83-88	80-85
76-81	73-78	70-75	67-72	70-75	67-72	64-69	61-66	E	F	G	H	I	J	J	K	L	L	L	70-75	67-72	64-69	61-66	95-100	92-97	89-94	86-91
82-87	79-84	76-81	73-78	76-81	73-78	70-75	67-72	F	G	H	I	J	J	K	L	L	L		76-81	73-78	70-75	67-72	101-106	98-103	95-100	92-97
88-93	85-90	82-87	79-84	82-87	79-84	76-81	73-78	G	H	I	J	J	K	L	L	L			82-87	79-84	76-81	73-78	107-112	104-109	101-106	98-103
94-99	91-96	88-93	85-90	88-93	85-90	82-87	79-84	H	I	J	J	K	L	L	L				88-93	85-90	82-87	79-84	113-118	110-115	107-112	104-109

Go to www.eastonarchery.com for Improved Interactive Spine Weight Chart

Size	Spine @ 28" Span	Model	Weight Grs/Inch	Weight @29"
Group A				
1813	0.874	75	7.9	229
1716	0.880	75	9.0	261
780	0.780	Rdln	6.3	183
Group B				
1913	0.733	75	8.3	241
1816	0.756	75	9.3	270
690	0.690	Rdln	6.3	183
Group C				
2013	0.610	75	9.0	261
1916	0.623	75	10.0	290
3L-18	0.620	A/C/C	7.5	218
600	0.600	Rdln	6.9	200
600	0.600	Crbn	CAWT	CAWT
Group D				
2016	0.531	75	10.6	307
500	0.500	GG	10.6	307
500	0.500	AFMJ	9.1	264
3-18	0.560	A/C/C	7.8	226
500	0.500	Crbn	CAWT	CAWT
520	0.520	Rdln	7.1	206
Group E				
2212	0.505	SS	8.8	255
2114	0.510	SS, 75	9.9	287
2018	0.464	75	12.3	357
500	0.500	GG	10.6	307
500	0.500	AFMJ	9.1	264
3-28	0.500	A/C/C	8.1	235
500	0.500	Crbn	CAWT	CAWT
520	0.520	Rdln	7.1	206
Group F				
2212	0.505	SS	8.8	255
2213	0.460	SS, 75	9.8	284
2018	0.464	75	12.3	357
500	0.500	GG	10.6	307
500	0.500	AFMJ	9.1	264
3-28	0.500	A/C/C	8.1	235
500	0.500	Crbn	CAWT	CAWT
520	0.520	Rdln	7.1	206
Group G				
2312	0.423	SS	9.5	276
2215	0.420	SS, 75	10.7	310
2117	0.400	SS, 75	12.0	348
2020	0.426	75	13.5	392
400	0.400	GG	12.0	348
400	0.400	AFMJ	10.2	296
3-39	0.440	A/C/C	8.6	249
400	0.400	Crbn	CAWT	CAWT
460	0.460	Rdln	7.3	212
Group H				
2215	0.420	SS, 75	10.7	310
2314	0.390	SS, 75	10.7	310
2117	0.400	SS, 75	12.0	348
2216	0.375	SS, 75	12.0	348
400	0.400	GG	12.0	348
400	0.400	AFMJ	10.2	296
3-49	0.390	A/C/C	8.8	255
400	0.400	Crbn	CAWT	CAWT
410	0.410	Rdln	7.6	220
Group I				
2413	0.365	SS, 75	10.4	302
2314	0.390	SS, 75	10.7	310
2315	0.340	SS, 75	11.7	339
2216	0.375	SS, 75	12.0	348
400	0.400	GG	12.0	348
400	0.400	AFMJ	10.2	296
3-49	0.390	A/C/C	8.8	255
400	0.400	Crbn	CAWT	CAWT
410	0.410	Rdln	7.6	220
Group J				
2512	0.321	SS	10.3	299
2413	0.365	SS, 75	10.4	302
2315	0.340	SS, 75	11.7	339
2219	0.337	SS, 75	13.8	400
340	0.340	GG	11.7	339
340	0.340	AFMJ	11.3	328
3-60	0.340	A/C/C	9.5	276
340	0.340	Crbn	CAWT	CAWT
360	0.360	Rdln	8.3	241
Group K				
2512	0.321	SS	10.3	299
2514	0.305	SS, 75	11.3	328
2317	0.297	SS, 75	13.3	386
300	0.300	GG	13.3	386
300	0.300	AFMJ	12.0	348
3-71	0.300	A/C/C	9.9	287
300	0.300	Crbn	CAWT	CAWT
Group L				
2514	0.305	SS, 75	11.3	328
2613	0.265	SS	11.5	334
2317	0.297	SS, 75	13.3	386
2419	0.268	75	14.6	423
300	0.300	GG	13.3	386
300	0.300	AFMJ	12.0	348
3-71	0.300	A/C/C	9.9	287
300	0.300	Crbn	CAWT	CAWT

Carbon Shaft Weights (CAWT)

Size	Spine	ST Axis		ST Axis RT		ST Epic		ST Epic Realtree HD		LightSpeed		ST Excel		PowerFlight	
		Grs/In	@29"	Grs/In	@29"	Grs/In	@29"	Grs/In	@29"	Grs/In	@29"	Grs/In	@29"	Grs/In	@29"
600	0.600	—	—	—	—	6.4	186	—	—	—	—	—	—	—	—
500	0.500	8.1	235	8.9	258	7.3	212	8.0	232	6.5	189	7.3	212	7.3	212
400	0.400	9.0	261	9.8	284	8.6	249	9.3	270	7.4	215	8.6	249	8.9	244
340	0.340	9.5	276	10.3	299	9.5	276	10.2	296	8.2	238	9.5	276	9.3	270
300	0.300	10.7	310	11.5	334	10.0	290	10.7	310	—	—	10.0	290	9.5	276

USING THE HUNTING ARROW SELECTION CHART

1. Once you have determined your Correct Hunting Arrow Length and Calculated or Actual Peak Bow Weight, you are ready to select your correct shaft size:

1.A Compound bows. In the "Calculated Peak Bow Weight" column (left-hand side of the chart), select the column with the type cam on your bow, then the column with the point weight you use. Then locate your Calculated Peak Bow Weight in that column.

1.B Recurve bows and Modern Longbows. In the "Actual Peak Bow Weight" column (right-hand side of the chart), select the column with the bow type and then the point weight you use. Next, locate your Actual Peak Bow Weight in that column.

2. Move across that bow-weight row horizontally to the column indicating your Correct Arrow Length. Note the letter in the box where your Calculated or Actual Peak Bow Weight row and Correct Hunting Arrow Length column intersect. The "Shaft Size" box below the chart with the same letter contains your recommended shaft sizes. Select a shaft from the chart depending on the shaft material, shaft weight, and type of shooting you will be doing. For larger game, you should use heavier shafts.

Size – indicates suggested arrow size
Spine – spine of shaft size shown (static)
CAWT – refer to Carbon box (left) for specific model and weight

Color Designation for Aluminum Arrows – Within each box the aluminum arrows are color coded.

- = lightest and fastest
- = medium weight offering good speed and durability
- = heavier weights for excellent durability and penetration
- = aluminum/carbon and carbon

Note: Shaft Weight at 29" is shown on our Arrow Selection Charts. To determine weight at your shaft length, multiply your actual shaft length by the grains-per-inch (gpi), not including point, insert, or UNI Bushing.

AFMJ	Axis Full Metal Jacket & Axis Full Metal Jacket Camo
SS	Super Slam Digital (7178-T9 alloy)
75	XX75: Realtree HD Green, Legacy, Camo Hunter, (7075-T9 alloy)
GG	Game Getter
A/C/C	Aluminum/Carbon/Composite
Rdln	Redline
Crbn	ST Axis, ST AXIS RT, ST Excel, ST Epic, ST Epic RT HD, LightSpeed, PowerFlight

Suggested shaft sizes were determined using 100-grain points. See "Variables" on left side of page.