

GUNS[®]

MAGAZINE

X-FITTED FOR SURVIVAL

These Two S&W Revolvers Are The Ultimate Big-Bore Snubbies.

Story By Hamilton Bowen

Photos By Ichiro Nagata

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Editor's Note: The following two charts were far too long to be included in Hamilton Bowen's article "Survivors" in March, yet the information was too good to leave out entirely and we include it here on our Web site for your enjoyment.

This table records the advertised velocities of the various ammo tested through the X-Frame ES .460 and .500 and the actual recorded velocities of the tested ammo. Some ammo had much less of a drop off in velocity between the advertised (tested in a 8 3/8" barrel) and the actual than anticipated due to the short barrels of the Survivor revolvers. Velocity is the average of three shots at 15'.

AMMUNITION MUZZLE VELOCITIES TABLE

CORBON

.454 CASULL 250 GR. DPX:

- * Listed velocity: 1,650 fps (1,512 ft-lbs energy)
- * Recorded avg. velocity: 1,460 fps (1,383 ft-lbs energy)

.460 S&W MAG. 200 GR. PDX SPITZ:

- * Listed velocity: 2,300 fps (2,350 ft-lbs. energy)
- * Recorded avg. velocity: 1,878 fps (1,566 ft-lbs energy)

.460 S&W MAG. 300 GR. JSP:

- * Listed velocity: 1,750 fps (2,041 ft-lbs. energy)
- * Recorded avg. velocity: 1,592 fps (1,689 ft-lbs energy); showed sticky extraction in the test gun.

.460 S&W MAG. 395 GR. HARD CAST:

- * Listed velocity: 1,525 fps (2,040 ft-lbs energy)
- * Recorded avg. velocity: 1,381 fps (1,673 ft-lbs energy)

.500 S&W SPECIAL 275 GR. BARNES X:

- * Listed velocity: 1,350 fps (1,113 ft-lbs energy)
- * Recorded avg. velocity: 1,115 fps (759 ft-lbs energy)

.500 S&W SPECIAL 350 GR. FMJ :

- * Listed velocity: 1,200 fps (1,119 ft-lbs energy)
- * Recorded avg. velocity: 1,118 fps (971 ft-lbs energy)

.500 S&W MAG. 400 GR. JSP:

- * Listed velocity: 1,675 fps (2,491 ft-lbs energy)
- * Recorded velocity: 1,413 fps (1,774 ft-lbs energy);

.500 S&W MAG. 440 GR. HARD CAST:

- * Listed velocity: 1,625 fps (2,580 ft-lbs energy)
- * Recorded avg. velocity: 1,360 fps (1,807 ft-lbs energy)

GRIZZLY CARTRIDGE CO.

.500 S&W MAG. 350 GR. HAWK BCFP:

- * Listed velocity: 1,350 fps (1,416 ft-lbs energy)
- * Recorded avg. velocity: 1,092 fps (926 ft-lbs energy)

.500 S&W MAG. 360 GR. LFNGC:

- * Listed velocity: 1,200 fps (1,151, ft-lbs energy)
- * Recorded velocity: 1,115 fps (994 ft-lbs energy)

.500 S&W MAG. 370 HC CAST PERFORMANCE:

- * Listed velocity: 1,700 fps (2374 ft-lbs energy)
- * Recorded avg. velocity: 1,436 (1,694 ft-lbs energy)

.500 S&W MAG. 400 GR. BCFP:

- * Listed velocity: 1,450 fps (1,868 ft-lbs energy)
- * No velocities recorded but we did score a one-shot kill on the PACT chronograph sky screens

.500 S&W MAG. 440 GR. WFNGC:

- * Listed velocity: 1,550 fps (2,347 ft-lbs energy)
- * Recorded avg. velocity: 1,329 fps (1,726 ft-lbs energy)

.500 S&W MAG. 450 GR. HAWK BCFP:

- * Listed velocity: 1,350 fps (1,821 ft-lbs energy)
- * Recorded avg. velocity: 1,174 fps (1,377 ft-lbs energy)

.500 S&W MAG. 500 GR. LFNGC:

- * Listed velocity: 1,550 fps (2,668 ft-lbs energy)
- * Recorded avg. velocity: 1,238 fps (1,702 ft-lbs energy)

Taylor was an African hunter with vast experience who devised a formula called the "Taylor Knockout Values" to measure the relative effectiveness of cartridges on big game animals. Based on bullet weight, velocity and diameter, Taylor's scale has over the years proven a fairly accurate indicator of a cartridge's performance in stopping game even though it does not take into account bullet design and construction. The .460 shooting a 395-grain bullet scores 35 while the .500 loaded with a 500-grain bullet scores 44, a significant difference. I thought it might be illustrative to show you the various TKO Values for various handguns.

I've also included another useful tidbit: The gun's recoil energy when firing specific loads. — Hamilton Bowen

KEY TO THE ABBREVIATIONS:

Gun Model, Barrel Length, Bullet Weight, Velocity

- * Gun recoil velocity (GRV)
- * Gun Recoil Energy (GRE)
- * Ammo Muzzle Energy (AME)
- * Power-to-weight Ratio (PWR)
- * Taylor Knockout value (TKOV)

GUN BEHAVIOR TABLE

ASSORTED MODELS FOR COMPARISON

S&W

K22, 6", 39 ozs., .22LR, 40 gr., 1,250 fps

- * GRV: 2.9 fps
- * GRE: .32 ft-lbs
- * AME: 140 ft-lbs
- * PWR: 3.6 ft-lbs/oz.
- * TKOV: 1

M360PD, 2½", 12ozs., .357 Mag., 158 gr., 1,100 fps:

- * GRV: 33 fps
- * GRE: 12 ft-lbs
- * AME: 434 ft-lbs
- * PWR: 35 ft-lbs/oz.
- * TKOV: 8

M19, 4", 36 ozs., .357 Mag., 158 gr., 1,250 fps

- * GRV: 12.5 fps
- * GRE: 5.46 ft-lbs
- * AME: 548 ft-lbs
- * PWR: 15 ft-lbs/oz.
- * TKOV: 10

M629 Mtn, 4", 42 ozs., .44 Magnum, .240 gr., 1,200 fps

- * GRV: 15.7 fps
- * GRE: 10 ft-lbs
- * AME: 767
- * PWR: 18 ft-lbs/oz.
- * TKOV: 17

M629 Mtn, 4", 42 ozs., .44 Magnum, 310 gr. 1,200 fps

- * GRV: 20.4 fps
- * GRE: 17 ft-lbs
- * AME: 991 ft-lbs
- * PWR: 23 ft-lbs/oz.
- * TKOV: 22

M329 PD, 4", 26 ozs., .44 Magnum, 240 gr., 1,200 fps

- * GRV: 25.3 fps
- * GRE: 16 fps
- * AME: 767
- * PWR: 29.5 ft-lbs/ozs.
- * TKOV: 17

M329 PD, 4", 26 ozs., .44 Magnum, 310 gr., 1,200 fps

- * GRV: 32.7 fps
- * GRE: 27 ft-lbs
- * AME: 991 ft-lbs
- * PWR: 38/ft-lbs/oz.
- * TKOV: 22

X500, 8¾" 72 ozs., .500 S&W Mag., 440 gr., 1,600 fps

- * GRV: 22.3 fps
- * GRE: 34.8 ft-lbs
- * AME: 2501 ft-lbs
- * PWR: 34.7 ft-lbs/oz.
- * TKOV: 50

ES 460, 2¾", 55 ozs., .454 Casull, 250 gr., 1,460 fps

- * GRV: 15 fps
- * GRE: 11 ft-lbs
- * AME: 1183
- * PWR: 21 ft-lbs/oz.
- * TKOV: 23

ES 460, 2¾", 55 ozs., .460 Mag., 200 gr., 1,878 fps

- * GRV: 15.6 fps
- * GRE: 13 ft-lbs
- * AME: 1567 ft-lbs
- * PWR: 28 ft-lbs/oz.
- * TKOV: 24

ES 460, 2¾", 55 ozs., .460 Mag., 300 gr., 1,592 fps

- * GRV: 19.89 fps
- * GRE: 21 ft-lbs
- * AME: 1689 ft-lbs
- * PWR: 30.77 ft-lbs/oz.
- * TKOV: 30

ES 460, 2¾", 55 ozs., .460 Mag., 395 gr., 1,379 fps

- * GRV: 22.7 fps
- * GRE: 27.5 ft-lbs
- * AME: 1668 ft-lbs
- * PWR: 30 ft-lbs/oz.
- * TKOV: 39

ES 500, 2¾", 52 ozs., .500 Special, 275 gr., 1,115 fps

- * GRV: 13.5
- * GRE: 9.2 ft-lbs
- * AME: 759 ft-lbs
- * PWR: 14.6 ft-lbs/oz.
- * TKOV: 21

ES 500, 2¾", 52 ozs., .500 Special, 350 gr., 1,118 fps

- * GRV: 17.2 fps
- * GRE: 14.95 ft-lbs
- * AME: 971 ft-lbs
- * PWR: 18.67 ft-lbs/oz.
- * TKOV: 27

ES 500, 2¾", 52 ozs., .500 S&W Mag., 360 gr., 1,115 fps

- * GRV: 17.46 fps
- * GRE: 15.72 ft-lbs
- * AME: 994 ft-lbs
- * PWR: 19.1 ft-lbs/oz.
- * TKOV: 28

ES 500, 2¾", 52 ozs., .500 S&W Mag., 370 gr., 1,436 fps

- * GRV: 22 fps
- * GRE: 24.5 ft-lbs
- * AME: 1695 ft-lbs
- * PWR: 32 ft-lbs/oz.
- * TKOV: 37

ES 500, 2¾", 52 ozs., .500 S&W Mag., 400 gr., 1,413 fps

- * GRV: 24.8 fps
- * GRE: 31.1 ft-lbs
- * AME: 1774 ft-lbs
- * PWR: 34 ft-lbs/oz.
- * TKOV: 40

ES 500, 2¾", 52 ozs., .500 S&W Mag., 440 gr., 1,360 fps

- * GRV: 25 fps
- * GRE: 31.3 ft-lbs
- * AME: 1808 ft-lbs
- * PWR: 32 ft-lbs/oz.
- * TKOV: 42

ES 500, 2¾", 52 ozs., .500 S&W Mag., 500 gr., 1,238 fps

- * GRV: 26 fps
- * GRE: 34 ft-lbs
- * AME: 1702 ft-lbs
- * PWR: 32 ft-lbs/oz.
- * TKOV: 44

FREEDOM ARMS

M83, 7½", 50 ozs., .454 Casull, 300 gr., 1,600 fps

- * GRV: 21 fps
- * GRE: 21.4 ft-lbs
- * AME: 1705 ft-lbs
- * PRW: 34 ft-lbs/oz.
- * TKOV: 30

M83, 7½", 50 ozs., .475 Linebaugh, 400 gr., 1,350 fps

- * GRV: 24.7 fps
- * GRE: 29.6 ft-lbs
- * AME: 1619 ft-lbs
- * PWR: 32 ft-lbs/oz.
- * TKOV: 36