

## ACCURACY AND CHRONOGRAPH DATA

<b>Federal American Eagle 230-grain FMJ</b>	<b>Armscor Twin Pines</b>	<b>Armscor 1911-A1</b>	<b>Armscor Medallion</b>	<b>S&amp;W SW1911</b>
Average Velocity at 10 ft.	768 fps	749 fps	807 fps	794 fps
Standard Deviation	19 fps	26 fps	7 fps	8 fps
Muzzle Energy	301 ft.-lbs.	287 ft.-lbs.	333 ft.-lbs.	322 ft.-lbs.
Smallest Group at 25 yds.	1.3 in.	4.3 in.	3.8 in.	1.8 in.
Largest Group Size	3.4 in.	5.0 in.	4.0 in.	3.1 in.
Average Group Size	2.4 in.	4.7 in.	3.9 in.	2.5 in.
<b>Federal Premium 230-grain Hydra-Shok JHP</b>	<b>Armscor Twin Pines</b>	<b>Armscor 1911-A1</b>	<b>Armscor Medallion</b>	<b>S&amp;W SW1911</b>
Average Velocity at 10 ft.	836 fps	817 fps	846 fps	850 fps
Standard Deviation	23 fps	12 fps	4 fps	9 fps
Muzzle Energy	357 ft.-lbs.	341 ft.-lbs.	366 ft.-lbs.	369 ft.-lbs.
Smallest Group at 25 yds.	3.8 in.	2.4 in.	2.5 in.	2.8 in.
Largest Group Size	4.8 in.	3.4 in.	2.8 in.	3.0 in.
Average Group Size	4.3 in.	2.9 in.	2.7 in.	2.9 in.
<b>Handload: Zero 230-grain FMJ Hodgdon's Clays powder</b>	<b>Armscor Twin Pines</b>	<b>Armscor 1911-A1</b>	<b>Armscor Medallion</b>	<b>S&amp;W SW1911</b>
Average Velocity at 10 ft.	617 fps	556 fps	660 fps	647 fps
Standard Deviation	18 fps	21 fps	35 fps	21 fps
Muzzle Energy	195 ft.-lbs.	158 ft.-lbs.	223 ft.-lbs.	214 ft.-lbs.
Smallest Group at 25 yds.	2.0 in.	3.3 in.	2.6 in.	2.7 in.
Largest Group Size	2.7 in.	4.6 in.	2.8 in.	3.2 in.
Average Group Size	2.4 in.	4.0 in.	2.7 in.	3.0 in.

*Accuracy data was collected by firing five-shot groups from a sandbag rest. Velocities were recorded by a Oehler 35P chronograph. The handload consisted of twice-fired Remington cases, (headstamped R-P), Federal large-pistol primers, 3.6 grains of Hodgdon's Clays powder and the 230-grain FMJ bullet from Zero. Overall length was just less than 1.25 inches. The result is a pleasant training round with only moderate recoil. We felt comfortable shooting hand loaded ammunition because this is a widely used combination of components and we checked the uniformity of each individual round in a case-check gauge from Frankford Arsenal (\$9.66, Midway USA, 800-243-3220). A case-check gauge looks similar to a socket or spark-plug wrench. The interior is cut to the minimum inner dimensions of a rifle or pistol chamber. The .45 ACP case-check gauge we used was much less tolerant than the chambers found on any of our test guns, and each round moved easily in and out of the gauge. We have found Federal American Eagle 230-grain FMJ rounds offer a consistent representation of a prolific .45 ACP round with velocity registering in the middle to high range. Federal Premium Hydra-Shok ammunition is an expanding ammunition that is perhaps the most widely used and recommended round throughout federal and local law enforcement. It is designed to buffer recoil, deliver the energy of its flight and expand only after satisfactory penetration. Unlike our other two choices that are nearly as old as the caliber itself, this round is a product of modern technology. — Roger Eckstine*