Test Specifications:

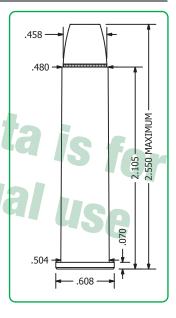
Twist: 1 x 22"

Components:

Trim-to Length: 2.095"

Remarks:

The .45-70 Government was one of the last big bore black powder cartridges adopted for U.S. military service. Originally designated the .45-70 500, this straight wall .45 caliber cartridge was loaded with 70 grains of black powder and a 500 grain lead bullet. Designed for the full size infantry model of the Springfield Model 1873 Trap door rifle, this load developed too much recoil when fired in the relatively light carbine issued to mounted troops. In response to complaints about this, Frankford Arsenal began loading the same case with a reduced charge of 55 grains of black powder



and a 405 grain lead bullet. Known as the .45-55 405, this load was completely interchangeable with the .45-70 and could be used in either the rifle or carbine.

Any cartridge adopted as our standard service round is virtually guaranteed to be a commercial success, and the .45-70 is no exception. Today, the .45-70 remains a popular sporting cartridge. At this time, at least four of our major U.S. arms manufacturers are still chambering rifles for the .45-70 Government cartridge. Lever actions and single shot falling block actions are among the most common, but there are several handguns being chambered for it as well! It would be very interesting to hear what the old cavalry troopers would think of this cartridge in a handgun, after objecting to the .45-70's recoil in a rifle.

Data for the .45-70 is presented in a slightly different format, due to the tremendous difference in action strength of various guns chambered for the cartridge. With the action types used with the .45-70, it might almost be thought of as three entirely different cartridges. Maximum loads for an original trapdoor 1873 Springfield will be fairly mild in a Marlin 1895 or Ruger Number One. Conversely, heavy loads for the Ruger will most likely destroy one of the less robust designs. In the middle, we have such actions as the Winchester Model 1886, Remington Lee Repeater, and the Navy Arms Rolling Block. Loads for the .45-70 must be appropriate for the action type used. If the handloader has several rifles chambered for the .45-70, especially if they are of differing levels of strength, extreme caution must be used to avoid using the wrong combination of rifle and ammunition. The .45-70 is an excellent cartridge and despite its age, is still one of our better cartridges for truly heavy game at moderate ranges.

Test Specifications:

Firearm Used: Model 1873 Trapdoor Springfield

Barrel Length: 32 1/2"

Components:

Case: R P

Primer: Remington 9 1/2

Remarks:

Loads for the Model 1873 Springfield, Remington Rolling Block, other old black powder rifles, replicas, and modern reproductions.

| Bullet Caliber Weight Type | | | | | | | |
|----------------------------|---------|------|------|----------|------|----------|--------|
| #8900 .458" 300gr. HP/FN | | | | | | | 2.525" |
| Powder ✓ Velocity > | 1450 | 1500 | 1550 | 1600 | 1650 | 1700 | |
| 2400 | 24.5 | 25.6 | 26.7 | 27.7 | 28.7 | 29.7 | |
| IMR 4227 | 26.8 | 28.1 | 29.4 | 30.7 | 32.0 | | |
| IMR 4198 | 31.1 | 32.4 | 33.6 | 34.8 | 36.0 | 01 | |
| IMR 3031 | 38.4 | 40.1 | 41.8 | 43.5 | 1 | | |
| Energy Ft. Ibs | 1400 | 1499 | 1600 | 1705 | 1813 | 1925 | |
| | | | | | | | |
| Special Load | owder | Grai | ns \ | Velocity | fps | Energy I | Ft. Ib |
| Accuracy Load | MR 4198 | 33.6 | 41 | 1550 | 1 1 | 1600 | |
| Hunting Load | MR 4198 | 36.0 | | 1650 | | 1813 | |
| WO. | 101 | | | | | | |



Test Specifications:

Firearm Used: Model 1886 Winchester

Barrel Length: 26"

Components:

Case: R P

Primer: Remington 9 1/2

Remarks:

Loads for the Model 1886 Winchester, Sharps Borchardt, Remington and Navy Arms Rolling Block designs.

| | Bullet Cali | ber We | ight Ty | ре | | | C.O.A.L. |
|-----------------|-------------|--------|---------|----------|------|----------|----------|
| | #8900 .45 | 8" 30 | Ogr. HI | P/FN | | | 2.525" |
| Powder ∨ Veloci | ty > 1550 | 1600 | 1650 | 1700 | 1750 | 1800 | 1850 |
| 2400 | | | 29.8 | 30.8 | 31.8 | 32.7 | 33.6 |
| IMR 4227 | | 31.8 | 32.9 | 34.0 | 35.0 | 36.0 | 37.0 |
| IMR 4198 | 36.3 | 37.3 | 38.3 | 39.2 | 40.1 | 41.0 | |
| IMR 3031 | 42.8 | 44.1 | 45.4 | 46.7 | 48.0 | 49.2 | |
| IMR 4895 | 47.5 | 48.4 | 49.3 | 50.2 | 51.1 | 52.0 | |
| IMR 4320 | 47.7 | 49.0 | 50.3 | 51.6 | 52.8 | 54.0 | |
| Energy Ft. Ibs | 1600 | 1705 | 1813 | 1925 | 2040 | 2158 | 2279 |
| | | | | | | | |
| Special Load | Powder | Gr | ains | Velocity | fps | Energy l | Ft. Ib |
| Accuracy Load | IMR 4198 | 39 |).2 | 1700 | | 1925 | |
| Hunting Load | IMR 4198 | 3 41 | .0 | 1800 | | 2158 | |
| | | | | | | | |

Test Specifications:

Firearm Used: Model 1895 Marlin

Barrel Length: 22"

Components:

Case: Federal

Primer: Fed 210

Remarks:

Loads for the Model 1895 Marlin and Ruger No. 1 and No. 3 rifles, and Siamese Mauser bolt action.

| Bullet Caliber Weight Type | | | | | | | C.O.A.L. |
|----------------------------|-----------|-------|--------|----------|-------|--------|----------|
| 7 | #8900 .45 | 8" 30 | Ogr. H | P/FN | | | 2.525" |
| Powder V Velocity | > 1900 | 1950 | 2000 | 2050 | 2100 | 2150 | 2200 |
| 2400 | 36.9 | 37.9 | 38.9 | 39.9 | 40.9 | | |
| Viht N120 | | | 46.5 | 47.5 | 48.5 | 49.5 | |
| IMR 4227 | 42.4 | 43.5 | 44.6 | | | | |
| H4198 | 48.9 | 49.8 | 50.7 | 51.6 | 52.5 | 53.4 | 54.3 |
| IMR 4198 | 45.5 | 46.6 | 47.7 | 48.8 | 49.9 | 51.0 | |
| XMR 2015 | | 54.9 | 56.2 | 57.5 | | | |
| RE 7 | | 48.8 | 50.3 | 51.8 | 53.3 | | |
| IMR 3031 | 56.1 | 57.4 | 58.7 | 60.0 | 11 | | |
| Benchmark | 55.5 | 56.5 | 57.5 | 58.5 | 59.5 | 60.5 | 61.5 |
| X Terminator | | 51.8 | 53.6 | 55.4 | 57.2 | 59.0 | |
| H335 | | | 57.6 | 59.1 | 60.6 | 62.1 | 63.6 |
| H4895 | 57.3 | 59.6 | 61.9 | | | | |
| IMR 4895 | 58.7 | 59.9 | 61.1 | | | | |
| Varget | 59.9 | 61.5 | 63.1 | | | | |
| Energy Ft. lbs | 2404 | 2533 | 2664 | 2799 | 2937 | 3079 | 3224 |
| | | | | | | | |
| Special Load | Powder | Gra | ins | Velocity | / fps | Energy | Ft. Ib |
| Accuracy Load | IMR 4198 | 49.9 | 9 | 2100 | | 2937 | |
| Hunting Load | H4198 | 54.3 | 3 | 2200 | | 3224 | |
| | | | | | | | |