LEE
RELOADING DIES
90561

45-70 Government

HARDENED STEEL DIES
REQUIRE LUBRICATION
LEE PRECISION, INC.

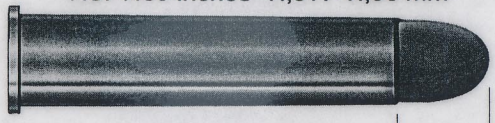
The 45-70 was the service round for the U.S. military for a relatively short period near the end of the19th century. The 1873 Model Trap Door Springfield was the first rifle chambered for this cartridge. In 1886, the Winchester lever action was adopted, which was not only faster, but also considerably stronger. Not until Ruger & Marlin recently introduced modern guns with quality steel could the real potential of this fine cartridge be realized. Be sure you are using load data for your gun. **DO NOT** use the high pressure loads in old guns.

GUARANTEE

LEE RELOADING PRODUCTS are guaranteed not to wear out or break from normal use for two full years or they will be repaired or replaced at no charge if returned to the factory. Any Lee product of current manufacture, regardless of age or condition, will be reconditioned to new, including a new guarantee, if returned to the factory with payment equal to half the current retail price.

45-70 Government

BULLET DIAMETER
.457-.459 inches 11,617-11,66 mm



Maximum Trim Length 2.105 inches 53,46mm

Maximum Overall Length 2.550 inches 64,77 mm

LARGE RIFLE PRIMERS

CB2556

THESE HIGH PRESSURE LOADS ARE ONLY FOR MODERN GUNS.
CHARGE TABLE FOR THE 45-70 MODERN RIFLES

POWDER TYPE	STARTING LOADS START GRAINS	VOLUME CC	AUTO-DISK	LEE DIPPER	NEVER EXCEED GRAINS	VEL. FPS	PRESS PSI	MINIMUM OAL
300 Grain Bullet								
H322	54.0	3.91	NA	3.7	60.0	1965	27999	2.475
H4227	36.0	2.77	DBLD	2.5	40.0	1942	27999	2.475
300 Grain Jacketed Bullet								
v-N133	54.0	4.16	NA	4.0	60.0	2187	28137	2.490
ACCUR 2495BR	66.0	4.94	NA	NA	66.0	2175	22100	2.550
ACCUR 2015BR	55.1	4.02	NA	4.0	59.0	2164	25100	2.550
v-N135	55.5	4.31	NA	4.3	61.7	2134	28137	2.490
v-N130	46.9	3.54	NA	3.4	52.1	2090	28137	2.490
v-N120	40.5	3.14	DBLD	3.1	45.0	2029	28137	2.490
ACCUR 2700	60.4	4.14	NA	4.0	65.0	1939	25200	2.550
ACCUR 4350	70.0	5.18	NA	NA	70.0	1815	20100	2.550
ACCUR 3100	70.0	5.24	NA	NA	70.0	1705	18300	2.550
330 Grain Lead Bullet								
ACCUR 2495BR	59.0	4.42	NA	4.3	59.0	1975	19200	2.520
ACCUR 2015BR	50.0	3.65	NA	3.4	50.0	1928	23200	2.520
ACCUR 2700	52.1	3.56	NA	3.4	58.0	1849	26100	2.520
ACCUR 4350	59.0	4.37	NA	4.3	59.0	1573	17900	2.520
350 Grain Bullet								
H4895	54.0	3.93	NA	3.7	60.0	1894	27999	2.475
H322	52.2	3.78	NA	3.7	58.0	1858	27999	2.475
H4198	41.4	3.11	DBLD	3.1	46.0	1841	27999	2.475
H4227	33.3	2.56	DBLD	2.5	37.0	1800	27999	2.475
350 Grain Jacketed Bullet								
ACCUR 2520	50.2	3.43	NA	3.4	60.0	2086	28000	2.550
ACCUR 2495BR	52.7	3.95	NA	3.7	61.0	2057	27100	2.550
ACCUR 2460	52.8	3.46	NA	3.4	59.0	1986	26200	2.550
ACCUR 2015BR	48.9	3.57	NA	3.4	53.0	1932	25400	2.550
ACCUR 2230	48.3	3.17	DBLD	3.1	54.0	1873	26200	2.550
ACCUR 2700	53.1	3.64	NA	3.4	61.0	1794	26900	2.550
ACCUR 4350	65.0	4.81	NA	4.3	65.0	1735	22700	2.550
ACCUR 3100	65.0	4.86	NA	4.3	65.0	1590	21600	2.550
378 Grain Lead Bullet								
ACCUR 2495BR	54.1	4.05	NA	4.0	55.0	1935	23800	2.565
ACCUR 2015BR	49.0	3.58	NA	3.4	49.0	1821	23400	2.565
ACCUR 2700	52.2	3.57	NA	3.4	57.0	1733	25600	2.565
ACCUR 4350	60.0	4.44	NA	4.3	60.0	1622	21500	2.565
ACCUR 3100	60.0	4.49	NA	4.3	60.0	1485	19800	2.565
400 Grain Jacketed Bullet								
ACCUR 2460	47.7	3.13	DBLD	3.1	57.0	1926	28000	2.560
v-N133	46.3	3.56	NA	3.4	51.4	1854	28137	2.490
ACCUR 2520	53.2	3.63	NA	3.4	54.0	1848	23800	2.560
ACCUR 2495BR	54.1	4.05	NA	4.0	55.0	1836	23800	2.560
v-N135	46.4	3.61	NA	3.4	51.6	1783	28137	2.490
ACCUR 2015BR	47.8	3.49	NA	3.4	49.0	1761	24000	2.560
ACCUR 2230	49.0	3.22	DBLD	3.1	49.0	1741	23100	2.560
ACCUR 2700	49.8	3.41	NA	3.4	55.0	1608	25900	2.560
v-N120	32.2	2.50	DBLD	2.5	35.8	1604	28137	2.490
ACCUR 4350	60.0	4.44	NA	4.3	60.0	1570	21300	2.560
ACCUR 3100	60.0	4.49	NA	4.3	60.0	1452	20100	2.560
405 Grain Bullet								
H322	48.6	3.52	NA	3.4	54.0	1852	27999	2.560
H4895	50.4	3.67	NA	3.4	56.0	1850	27999	2.560
H4198	39.6	2.97	DBLD	2.8	44.0	1788	27999	2.560
BL-C(2)	52.2	3.37	NA	3.1	58.0	1786	27999	2.560
H335	52.2	3.37	NA	3.1	58.0	1780	27999	2.560
H4227	32.4	2.49	DBLD	2.2	36.0	1631	27999	2.560

THESE HIGH PRESSURE LOADS ARE ONLY FOR MODERN GUNS.
CHARGE TABLE FOR THE 45-70 MODERN RIFLES

POWDER TYPE	STARTING LOADS START GRAINS	VOLUME CC	AUTO-DISK	LEE DIPPER	NEVER EXCEED GRAINS	VEL. FPS	PRESS PSI	MINIMUM OAL
405 Grain Lead Bullet								
ACCUR 2495BR	54.0	4.04	NA	4.0	54.0	1801	22200	2.550
ACCUR 2700	47.2	3.23	DBLD	3.1	54.0	1665	26800	2.550
ACCUR 2015BR	47.2	3.45	NA	3.4	54.0	1665	26800	2.550
ACCUR 4350	56.0	4.14	NA	4.0	56.0	1477	16200	2.550
ACCUR 3100	60.0	4.49	NA	4.3	60.0	1422	18200	2.550
475 Grain Lead Bullet								
ACCUR 2495BR	48.2	3.61	NA	3.4	50.0	1748	24300	2.725
ACCUR 2015BR	39.2	2.86	DBLD	2.8	44.0	1660	26300	2.725
ACCUR 4350	51.7	3.82	NA	3.7	58.0	1619	26300	2.725
ACCUR 3100	54.7	4.09	NA	4.0	60.0	1513	25700	2.725
ACCUR 2700	42.7	2.92	DBLD	2.8	49.0	1488	26900	2.725
500 Grain Bullet								
H4895	46.8	3.41	NA	3.4	52.0	1679	27999	2.700
H322	45.0	3.26	DBLD	3.1	50.0	1667	27999	2.700
H335	47.7	3.08	DBLD	2.8	53.0	1638	27999	2.700
BL-C(2)	47.7	3.08	DBLD	2.8	53.0	1623	27999	2.700
H4198	36.9	2.77	DBLD	2.5	41.0	1549	27999	2.700
H4227	30.6	2.35	DBLD	2.2	34.0	1468	27999	2.700
500 Grain Jacketed Bullet								
ACCUR 4350	53.7	3.97	NA	3.7	58.0	1602	25300	2.825
ACCUR 2495BR	40.8	3.06	DBLD	2.8	46.0	1538	26400	2.580
ACCUR 2460	40.6	2.66	DBLD	2.5	44.0	1509	25400	2.580
ACCUR 2230	37.8	2.49	DBLD	2.2	42.0	1462	26000	2.580
ACCUR 3100	53.2	3.98	NA	3.7	60.0	1441	26400	2.825
ACCUR 2520	36.8	2.51	DBLD	2.5	44.0	1434	28000	2.580
ACCUR 2015BR	39.4	2.87	DBLD	2.8	40.0	1422	23800	2.580
ACCUR 2700	45.7	3.13	DBLD	3.1	46.0	1327	23600	2.580
500 Grain Lead Bullet								
ACCUR 2495BR	47.0	3.52	NA	3.4	49.0	1670	24400	2.550
ACCUR 4350	56.2	4.16	NA	4.0	58.0	1582	24200	2.795
ACCUR 2015BR	38.0	2.77	DBLD	2.5	42.0	1567	25900	2.550
ACCUR 3100	56.2	4.21	NA	4.0	60.0	1493	25000	2.795
ACCUR 2700	42.5	2.91	DBLD	2.8	47.0	1414	25900	2.550

DBLD = Double Disk, see instruction with your Auto-Disk powder measure. NA = None Available

THESE LOADS ARE FOR ALL GUNS IN GOOD CONDITION.
CHARGE TABLE FOR THE 45-70 U.S. GOVERNMENT

POWDER TYPE	START GRAINS	VOLUME CC	AUTO-DISK	LEE DIPPER	NEVER EXCEED GRAINS	VEL. FPS	PRESS PSI	MINIMUM OAL
300 Grain Bullet								
H4198	30.4	2.28	DBLD	2.2	33.0	1542	16999	2.475
300 Grain Jacketed Bullet								
RELODER 7	29.4	2.14	DBLD	1.9	34.0	1450	16400	2.475
HERC 2400	21.5	1.60	DBLD	1.6	25.0	1410	16500	2.475
BLUE DOT	14.5	1.26	1.26	NA	16.5	1100	16100	2.475
350 Grain Bullet								
H4198	29.5	2.21	DBLD	2.2	32.0	1387	16999	2.475
385 Grain Lead Bullet								
RELODER 7	30.5	2.22	DBLD	2.2	35.0	1450	16300	2.575
HERC 2400	17.1	1.27	1.26	NA	19.0	1070	15770	2.575
BLUE DOT	15.0	1.30	1.26	1.3	15.0	1040	8200	2.575
405 Grain Bullet								
H4198	27.6	2.07	DBLD	1.9	30.0	1204	16999	2.560
BL-C(2)	31.1	2.01	DBLD	1.9	35.0	1191	17600	2.560
405 Grain Jacketed Bullet								
RELODER 7	30.5	2.22	DBLD	2.2	34.0	1395	15800	2.700
HERC 2400	18.6	1.38	1.36	1.3	20.0	1000	15300	2.700
500 Grain Bullet								
BL-C(2)	31.1	2.01	DBLD	1.9	35.0	1191	17600	2.700
H4198	25.8	1.93	DBLD	1.9	28.0	1082	16999	2.700

DBLD = Double Disk, see instruction with your Auto-Disk powder measure. NA = None Available

LEE SAFETY POWDER SCALE
90681

It is the easiest to use, most accurate and sensitive powder scale. Made exclusively to weigh gun powder. The Lee Safety Scale has magnetic dampening and an approach-to-weight lifter enclosed within its heavy metal base. The exclusive safety beam has a stainless steel razor edge for maximum sensitivity. You can be sure that the Lee Safety Scale will retain its original factory accuracy as long as it is not physically broken.

PERFECT POWDER MEASURE 90058

Versatile powder measure works well with charges as small as 2 grains, to charges over 100 grains. Soft elastomer wiper allows smooth operation even with extruded rifle powders. Micrometer adjustment graduated in cubic centimeters for quick set up. Includes heavy steel stand for bench mounting.

PARTS LIST

Sizing die, assembly SD2385	12.00
Decapper, pistol SD2167	2.00
Decapper clamp SD2151	1.50
Lock ring SD2152	1.00
Bullet seating die, assembly SB2391	12.00
Adjusting screw SB2154	1.50
Bullet seater punch SB2388	2.00
Expanding die, assembly SE1873	11.98
Expanding plug SE2051	3.00
Powder funnel adapter SE2168	2.50
Shell holder 90525	3.98
Powder dipper PM1410	1.00
Charge table, instructions CB2556	1.00
Die box 90535	2.50

When ordering parts, specify for 7/8x14 die sets and indicate caliber.

YOU ARE RESPONSIBLE FOR THE SAFETY OF YOUR LOADS

Be certain you completely understand the use of this data and your tools.

START GRAINS This is the maximum starting load.

VOLUME CC This is the volume per cubic centimeter of the START GRAIN charge for use with a Lee Perfect Powder Measure. Check with a scale to be sure the setting is correct.

AUTO-DISK This is the largest cavity to be used with the LEE AUTO-DISK POWDER MEASURE.

DIPPER This is the largest LEE DIPPER you can use. **Be sure you use the correct dipper.** The dipper must be filled and struck level.

NEVER EXCEED GRAINS These must be weighed. DO NOT exceed.

VELOCITY Listed velocity is for **NEVER EXCEED GRAINS.**

$$\text{VELOCITY FOR OTHER CHARGES} = \frac{\text{CHARGE IN GRAINS}}{\text{NEVER EXCEED GRAINS}} \times \text{VELOCITY}$$

PRESSURE The maximum pressure recommended by the powder manufacturer.

MINIMUM OAL This is the shortest, safe Over All Length with maximum charges.

If you cannot find a charge for the exact weight bullet you have selected, use the data for the next heavier bullet. The velocity will be about the same and the pressure will be less.
Except for Winchester 296 the powder manufacturer recommends that you start with a reduced load and work up to the max load. They also recommend using magnum primers with 296.

CAUTION

Ammunition reloading can be dangerous if done improperly and should not be attempted by persons not willing and able to read and follow instructions exactly. Children should not be permitted to reload ammunition without strict parental supervision. Always wear safety glasses when reloading and shooting. Ammunition loaded with these tools and data should only be used in modern guns in good condition. We do not accept responsibility for ammunition loaded with these tools or data as we have no control over the manufacture and storage of components or the loading procedure and techniques. Primers and gun powders, like gasoline and matches, can be dangerous if improperly handled or misused.

LEE RELOADING DIES

COMPLETE INSTRUCTIONS FOR LEE 3 - DIE SETS

1 PREPARE YOUR CASES

Discard cases with defects such as split necks, indications of head separation or anything that would make them unsuitable for reloading. If you don't have the carbide sizer, this is a good time to lube your cases. Use your fingers to wipe it on and wipe off any grit which may be on the case. Use the lube very sparingly. You can even thin LEE LUBE with four (4) parts of water for greater economy. If thinned with water, let dry before sizing. There is no need to remove LEE LUBE after reloading.

GUARANTEE

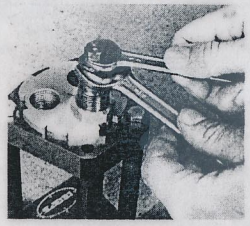
LEE RELOADING PRODUCTS are guaranteed not to wear out or break from normal use for two full years or they will be repaired or replaced at no charge if returned to the factory. Any Lee product of current manufacture, regardless of age or condition, will be reconditioned to new, including a new guarantee, if returned to the factory with payment equal to half the current retail price.

LEE PRECISION, INC.
4275 Highway U Hartford Wisconsin 53027

2 FULL LENGTH SIZER

Screw the full length sizer in until it touches the shell holder and tighten the lock ring finger tight. The decapper is retained by a collet. Should it be overstressed by an obstruction; it simply slides up without damage. To reset, loosen the decapper clamp and position the decapper flush with clamp end and retighten. **Considerable torque may be necessary.** A ½" and ¾" wrench are necessary.

CAUTION: If using a steel sizer, be sure to lubricate your cases. Without lubrication, your die will be damaged and the case may become stuck in the die.

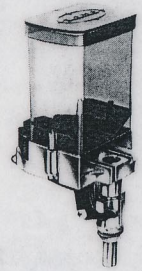


Carbide Sizing Dies Need No Lubrication

Because the carbide is so hard, no lubrication is required on the case.

SPEER advises that SPEER bullets not be used with certain Lee Dies. All other brands work great!

AUTO DISK POWDER MEASURE



The Auto Disk Powder Measure fits into the expanding die in place of the powder funnel adapter. While the case neck is being expanded, the charge is automatically and accurately dispensed. Comes complete with four (4) charge disks and 24 different cavities. More accurate than any other measure because of the built-in powder baffle and uniform actuation.

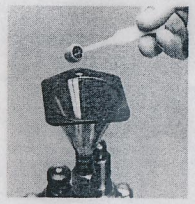
3 EXPANDER DIE

Screw the die in until it touches the shell holder. Finger tighten the lock ring. If flare is excessive, back die out until flare is to your liking. For maximum case life, flare only enough to easily accept a bullet. In use, the expander plug travels approximately ⅜" within the die and comes to an abrupt stop at extraction. This helps the shake the powder through. However, we recommend you check to be sure all the powder has cleared the funnel and expander plug.

Be sure to occasionally clean the bullet lube from the expander plug to prevent a powder clog.

4 CHARGE THE CASE

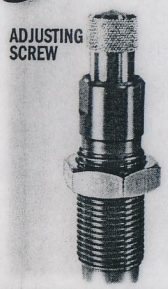
Select a load from the chart on the reverse side. This is the most critical decision you must make. An overcharge can blow up the gun and injure the shooter or persons nearby. It is dangerous to use a bullet of a greater weight with a charge for a lighter bullet.



Never select a load intended for a bullet lighter than you are using. Loads for a slightly heavier bullet are safe. Always start with the **STARTING LOADS.** You may work up to the **NEVER EXCEED LOADS** gradually, provided you know how to watch for pressure signs. The LEE DIPPER is the safest and easiest powder measure to use. For the ultimate in speed, convenience and versatility, consider the LEE AUTO-DISK POWDER MEASURE.

CAUTION: Never try to seat a primer deeper after powder has been added.

5 BULLET SEATING DIE



Screw the bullet seating die in until it touches the shell holder. **Then back it out one full turn.** Finger tighten the lock ring. Bullet depth is adjusted by screwing the adjusting screw in or out to suit. Bullets should be seated deep enough to work through the gun's action. See **MAXIMUM OVERALL LENGTH** on charge table. If a crimp is desired, screw the die in slightly and test until the proper crimp is formed. Cases must be trimmed to the same length to provide a uniform crimp. Excessive crimp will cause the bullet seater to deform soft nose bullets.

CAUTION: Seating bullets excessively deep will reduce the case capacity and increase the pressure. It is extremely important that full wadcuttter bullets be used with light loads only. You can select these by their reduced velocity.

The Bullet Seating die is equipped with a floating bullet seating punch for maximum accuracy. It is designed to seat all shapes of bullets with minimum deformation. If you attempt to compress the charge, it may deform the bullet an objectionable amount. It will be necessary to modify the bullet seating punch to fit the bullet. If unable to do it yourself or have it done locally, we can do it for you. Send $8.00 along with a sample bullet, and order "Custom Seater Plug for Sample Bullet — $8".

CARBIDE FACTORY CRIMP DIE

For Handgun Ammunition That Must Work

A carbide sizer sizes the cartridge while it is being crimped so every round will positively chamber freely with factory-like dependability.

The adjusting screw quickly and easily sets the desired amount of crimp. It is impossible to buckle the case as with a conventional bullet seating die. Trim length is not critical so this extra operation takes less time than it would if cases were trimmed and chamfered.

Revolver dies roll crimp with no limit as to the amount. A perfect taper crimp is applied to auto-loader rounds. The crimper cannot be misadjusted to make a case mouth too small to properly head-space.

A firm crimp is essential for dependable and accurate ammunition. It will eliminate the problems of poor ignition of slow burning magnum powders.

PARTS LIST

Sizing die, complete	$12.00
Carbide sizing die, complete	19.98
Decapper, pistol	2.00
Decapper clamp	1.50
Lock ring	1.00
Bullet seating die, complete	12.00
Adjusting screw	1.50
Bullet seater punch	2.00
Expanding die, complete	11.98
Expanding plug	3.00
Powder funnel adapter	2.50
Shell holder	3.98
Powder dipper	1.00
Charge table, instructions	1.00
Die box	2.50

When ordering parts, specify for 7/8x14 die sets and indicate caliber.