



Reloading Data for Sabots

Our sabots allow .30 caliber firearms to shoot .224 caliber bullets at substantially increased velocities. The sabot nylon resin material is extremely heat resistant and offers less wear on the barrel. The barrel does not experience a buildup of copper or lead residues and any sabot material is easily cleaned. Upon exiting the barrel, the sabot flowers away allowing the .224 rifle bullet to fly normally.



Big Accuracy Requirement - Before firing sabots in any gun, clean the copper and lead fouling out of that barrel. If you don't accuracy will suffer.

Big Safety Requirement - Never fire sabots in barrels that have muzzle brakes. Premature flowering in the brake could act as a barrel obstruction.

Use 50-60 Grain Bullets - The rifling twist rate on most .30 calibers is 1:12 or 1:10. For .224 caliber bullets, this twist rate is best suited to bullets in the 50-60 gr. weight range.

A General Approach to Loading Saboted Cartridges...

Always start with light loads and "work up" your loads to find what functions and shoots best in your firearm. **NEVER USE LOAD DATA AS THOUGH IT WERE AN EXACT RECIPE.** Every barrel and chamber is different and pressures peak at different levels. Load data is merely a reference or a hint of where to start, what powders to use, and what the potential results might be. Here is the best way to proceed...

First, check below to see if the cartridge you want to load with sabots is listed in our computer generated loading reference/data. If it is, use that data.

Second, check in loading manuals to find .224 caliber cartridges that may have the same or close case capacity to the .30 caliber cartridge you are working with. For example, 22-250 is close to our 300 Bench Rest Magnum in case capacity. So if you wanted to load sabots in the 300 BRM, you could reference some possible starting load data from 22-250... get an idea of what powders to use and the potential velocities to achieve.

077-SABKIT Sabot Loader's Starter Kit

Kit Includes: 100 Sabots Plus Bullet Seater Die

077-SAB .224/.30 Sabots (100)

077-SAB5 .224/.30 Sabots (500)

077-SNBS Bullet Seater Die

077-90798 Sabot Neck Flaring Die

Sabot Loading Reference Data is listed on the following pages.

CASE CAPACITY CALCULATIONS

CAUTION-CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE= .308 WIN
 BULLET TYPE= .22/Sabot
 BULLET WT. = 55
 BULLET DIAMETER (IN)= .308
 OVERALL CARTRIDGE LENGTH (IN) - 2.5
 CASE LENGTH (IN)= 2.005
 FULL CASE CAPACITY (GR WATER) - 56
 BULLET LENGTH (IN) .72
 BARREL LENGTH (IN) 22

BULLET SEATING DEPTH (IN) .225
 DISPLACED WATER (GR) 4.231
 EFFECTIVE WATER CAPACITY OF CASE (GR) - 51.769
 EFFECTIVE BARREL LENGTH (IN) 20.22

** LPDI CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .308 WIN
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 20.22 IN
 CASE CAPACITY = 51.769 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 8.2
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: FAST POWDERS
 POWDER TYPE: IMR-4198/RX7/S-4197 *CK MANUAL*
 CHARGE/BULLET WT = 0.753
 CALC. POWDER CHARGE = 41.4 GR LOAD DEN = 79.9 %
 EST. MUZZLE VELOCITY = 3800 FT/SEC
 EST. PEAK PRESSURE = 38900 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .308 WIN			
POWDER TYPE -	IMR-4198/RX7/S-4197	*CK	MANUAL*
LOAD DENSITY	CHARGE WT.	VELOCITY	PRESSURE
\$	GR	FPS	PSI
75	38.8	3600	34200
80	41.4	3800	38900
85	44.0	4000	43900
90	46.6	4300	49300 *
95	49.2	4500	54900 *
100	51.8	4800	60900 *

* - WARNING -- HIGH PRESSURE - REFERENCE ONLY!

Load data developed with "Load From A Disk I" software by Wayne Blackwell. Since the author has no control over components, equipment and methods used, no responsibility is implied or assumed for results obtained through its use. Data is for informational, non-commercial use only.

CASE CAPACITY CALCULATIONS

CAUTION-CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE= .30-06
 BULLET TYPE= .22/Sabot
 BULLET WT. = 55
 BULLET DIAMETER (IN)= .308
 OVERALL CARTRIDGE LENGTH (IN) - 2.9
 CASE LENGTH (IN)= 2.484
 FULL CASE CAPACITY (GR WATER) - 69
 BULLET LENGTH (IN) .72
 BARREL LENGTH (IN) 22

BULLET SEATING DEPTH (IN) .304
 DISPLACED WATER (GR) 5.717
 EFFECTIVE WATER CAPACITY OF CASE (GR) - 63.283
 EFFECTIVE BARREL LENGTH (IN) 19.82

** LPDI CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .30-06
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 19.82 IN
 CASE CAPACITY = 63.283 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 6.8
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: MEDIUM FAST POWDERS
 POWDER TYPE: IMR-3031, RX11, H-335, AA-2230, S-3032, WW-748, N-201
 CHARGE/BULLET WT = 1.038
 CALC. POWDER CHARGE = 57.1 GR LOAD DEN = 90.2 %
 EST. MUZZLE VELOCITY = 4200 FT/SEC
 EST. PEAK PRESSURE = 44400 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .30-06			
POWDER TYPE -	IMR-3031, RX11, H-335, AA-2230, S-3032, WW-748, N-201		
LOAD DENSITY	CHARGE WT.	VELOCITY	PRESSURE
\$	GR	FPS	PSI
75	47.5	3500	30700
80	50.6	3700	34900
85	53.8	4000	39400
90	57.0	4200	44200
95	60.1	4400	49200 *
100	63.3	4700	54600 *

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CASE CAPACITY CALCULATIONS

CAUTION--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE= .30 CARBINE
 BULLET TYPE= .22/Sabot
 BULLET WT. = 55
 BULLET DIAMETER (IN)= .308
 OVERALL CARTRIDGE LENGTH (IN) - 1.7
 CASE LENGTH (IN) = 1.28
 FULL CASE CAPACITY (GR WATER) - 20
 BULLET LENGTH (IN) - .72
 BARREL LENGTH (IN) - 10

BULLET SEATING DEPTH (IN) ----- .3
 DISPLACED WATER (GR) ----- 5.641
 EFFECTIVE WATER CAPACITY OF CASE (GR) - 14.359
 EFFECTIVE BARREL LENGTH (IN) ----- 9.02

** LPD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .30 CARBINE
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 9.02 IN
 CASE CAPACITY = 14.359 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 12.6
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: VERY FAST POWDERS
 POWDER TYPE: 2400, H-110, AA-#9
 CHARGE/BULLET WT = 0.209
 CALC. POWDER CHARGE = 11.5 GR LOAD DEN = 80 %
 EST. MUZZLE VELOCITY = 2300 FT/SEC
 EST. PEAK PRESSURE = 38500 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .30 CARBINE	POWDER TYPE - 2400, H-110, AA-#9	LOAD DENSITY %	CHARGE WT. GR	VELOCITY FPS	PRESSURE PSI
75	10.8	2200	34000		
80	11.5	2300	38500		
85	12.2	2400	43300		
90	12.9	2600	48500	*	
95	13.6	2700	53900	*	
100	14.4	2900	60400	*	

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CASE CAPACITY CALCULATIONS

CAUTION--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE= .30 HERRETT
 BULLET TYPE= .22/Sabot
 BULLET WT. = 55
 BULLET DIAMETER (IN)= .308
 OVERALL CARTRIDGE LENGTH (IN) - 2.1
 CASE LENGTH (IN) = 1.604
 FULL CASE CAPACITY (GR WATER) - 35
 BULLET LENGTH (IN) - .72
 BARREL LENGTH (IN) - 14

BULLET SEATING DEPTH (IN) ----- .224
 DISPLACED WATER (GR) ----- 4.212
 EFFECTIVE WATER CAPACITY OF CASE (GR) - 30.788
 EFFECTIVE BARREL LENGTH (IN) ----- 12.62

** LPD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .30 HERRETT
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 12.62 IN
 CASE CAPACITY = 30.788 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 8.6
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: VERY FAST POWDERS
 POWDER TYPE: 2400, H-110, AA-#9
 CHARGE/BULLET WT = 0.447
 CALC. POWDER CHARGE = 24.6 GR LOAD DEN = 79.9 %
 EST. MUZZLE VELOCITY = 3100 FT/SEC
 EST. PEAK PRESSURE = 39500 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .30 HERRETT	POWDER TYPE - 2400, H-110, AA-#9	LOAD DENSITY %	CHARGE WT. GR	VELOCITY FPS	PRESSURE PSI
75	23.1	2900	34800		
80	24.6	3100	39500		
85	26.2	3300	44800		
90	27.7	3500	50100	*	
95	29.2	3700	55700	*	
100	30.8	3900	61900	*	

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CASE CAPACITY CALCULATIONS

CAUTION--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE= .30-30 WIN
 BULLET TYPE= .22/Sabot
 BULLET WT. ----- 55
 BULLET DIAMETER (IN)= .308
 OVERALL CARTRIDGE LENGTH (IN) - 2.5
 CASE LENGTH (IN) = 2.03
 FULL CASE CAPACITY (GR WATER) - 45
 BULLET LENGTH (IN) .72
 BARREL LENGTH (IN) ----- 18
 BULLET SEATING DEPTH (IN) ----- .25
 DISPLACED WATER (GR) ----- 4.701
 EFFECTIVE WATER CAPACITY OF CASE (GR) - 40.299
 EFFECTIVE BARREL LENGTH (IN) ----- 16.22

** LFD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .30-30 WIN
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 16.22 IN
 CASE CAPACITY = 40.299 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 8.4
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: FAST POWDERS
 POWDER TYPE: IMR-4198/RX7/S-4197 *CK MANUAL*
 CHARGE/BULLET WT = 0.585
 CALC. POWDER CHARGE = 32.2 GR LOAD DEN = 79.9 %
 EST. MUZZLE VELOCITY = 3500 FT/SEC
 EST. PEAK PRESSURE = 40300 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .30-30 WIN			
POWDER TYPE - IMR-4198/RX7/S-4197 *CK MANUAL*			
LOAD DENSITY	CHARGE WT.	VELOCITY	PRESSURE
%	GR	PPS	PSI
75	30.2	3300	35500
80	32.2	3500	40300
85	34.3	3700	45700 *
90	36.3	3900	51200 *
95	38.3	4200	57000 *
100	40.3	4400	63100 *

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CASE CAPACITY CALCULATIONS

CAUTION--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE= .30-40 KRAG
 BULLET TYPE= .22/Sabot
 BULLET WT.-----55
 BULLET DIAMETER (IN)= .308
 OVERALL CARTRIDGE LENGTH (IN) - 2.8
 CASE LENGTH (IN)= 2.304
 FULL CASE CAPACITY (GR WATER) - 52.2
 BULLET LENGTH (IN) .72
 BARREL LENGTH (IN) -----22

BULLET SEATING DEPTH (IN) ----- .224
 DISPLACED WATER (GR) -----4.212
 EFFECTIVE WATER CAPACITY OF CASE (GR) - 47.988
 EFFECTIVE BARREL LENGTH (IN) -----19.92

** LFD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .30-40 KRAG
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 19.92 IN
 CASE CAPACITY = 47.988 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 8.7
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: FAST POWDERS
 POWDER TYPE: IMR-4198/RX7/S-4197 *CK MANUAL*
 CHARGE/BULLET WT = 0.698
 CALC. POWDER CHARGE = 38.4 GR LOAD DEN = 80 %
 EST. MUZZLE VELOCITY = 3700 FT/SEC
 EST. PEAK PRESSURE = 38500 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .30-40 KRAG
 POWDER TYPE - IMR-4198/RX7/S-4197 *CK MANUAL*

LOAD DENSITY	CHARGE WT. GR	VELOCITY FPS	PRESSURE PSI
75	36.0	3500	33800
80	38.4	3700	38500
85	40.8	3900	43500
90	43.2	4200	48700
95	45.6	4400	54300
100	48.0	4600	60200

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CASE CAPACITY CALCULATIONS

CAUTION--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE= .300 SAV
 BULLET TYPE= .22/Sabot
 BULLET WT.-----55
 BULLET DIAMETER (IN)= .308
 OVERALL CARTRIDGE LENGTH (IN) - 2.33
 CASE LENGTH (IN)= 1.861
 FULL CASE CAPACITY (GR WATER) - 52
 BULLET LENGTH (IN) .72
 BARREL LENGTH (IN) -----22

BULLET SEATING DEPTH (IN) ----- .251
 DISPLACED WATER (GR) -----4.72
 EFFECTIVE WATER CAPACITY OF CASE (GR) - 47.28
 EFFECTIVE BARREL LENGTH (IN) -----20.39

** LFD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .300 SAV
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 20.39 IN
 CASE CAPACITY = 47.28 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 9
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: FAST POWDERS
 POWDER TYPE: IMR-4198/RX7/S-4197 *CK MANUAL*
 CHARGE/BULLET WT = 0.687
 CALC. POWDER CHARGE = 37.8 GR LOAD DEN = 79.9 %
 EST. MUZZLE VELOCITY = 3700 FT/SEC
 EST. PEAK PRESSURE = 38600 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .300 SAV
 POWDER TYPE - IMR-4198/RX7/S-4197 *CK MANUAL*

LOAD DENSITY	CHARGE WT. GR	VELOCITY FPS	PRESSURE PSI
75	35.5	3500	34000
80	37.8	3700	38600
85	40.2	3900	43700
90	42.6	4200	49000
95	44.9	4400	54500
100	47.3	4600	60400

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CASE CAPACITY CALCULATIONS

*****CAUTION*---CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE = .300 WEATH MAG
 BULLET TYPE = .22/Sabot
 BULLET WT. = 55
 BULLET DIAMETER (IN) = .308
 OVERALL CARTRIDGE LENGTH (IN) = 3.2
 CASE LENGTH (IN) = 2.815
 FULL CASE CAPACITY (GR WATER) = 98
 BULLET LENGTH (IN) = .72
 BARREL LENGTH (IN) = 24
 BULLET SEATING DEPTH (IN) = .335
 DISPLACED WATER (GR) = 6.3
 EFFECTIVE WATER CAPACITY OF CASE (GR) = 91.7
 EFFECTIVE BARREL LENGTH (IN) = 21.52

** LFD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .300 WEATH MAG
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 21.52 IN
 CASE CAPACITY = 91.7 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 5.3
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: MEDIUM POWDERS
 POWDER TYPE: IMR-4895, H-4895, S-4065, AA-2495
 CHARGE/BULLET WT = 1.435
 CALC. POWDER CHARGE = 78.9 GR LOAD DEN = 86 %
 EST. MUZZLE VELOCITY = 4400 FT/SEC
 EST. PEAK PRESSURE = 40200 PSI
 ALT POWDER TYPE: IMR-4064, H-380, AA-2520
 POWDER CLASS: MEDIUM POWDERS
 CHARGE/BULLET WT = 1.362
 CALC. POWDER CHARGE = 74.9 GR LOAD DEN = 81.6 %
 EST. MUZZLE VELOCITY = 4300 FT/SEC
 EST. PEAK PRESSURE = 38000 PSI
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .300 WEATH MAG	POWDER TYPE - IMR-4895, H-4895, S-4065, AA-2495	LOAD DENSITY	CHARGE WT. GR	VELOCITY FPS	PRESSURE PSI
75	68.8	3800	30600		
80	73.4	4100	34800		
85	77.9	4300	39200		
90	82.5	4600	44000		
95	87.1	4900	49000 *		
100	91.7	5100	54300 *		
ALT POWDER TYPE - IMR-4064, H-380, AA-2520					
75	68.8	3900	32100		
80	73.4	4200	36500		
85	77.9	4500	41100		
90	82.5	4700	46100 *		
95	87.1	5000	51400 *		
100	91.7	5300	57000 *		

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CASE CAPACITY CALCULATIONS

CAUTION---CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE= .300 H&H MAG
 BULLET TYPE= .22/Sabot
 BULLET WT. = 55
 BULLET DIAMETER (IN)= .308
 OVERALL CARTRIDGE LENGTH (IN) = 3.28
 CASE LENGTH (IN)= 2.835
 FULL CASE CAPACITY (GR WATER) = 86
 BULLET LENGTH (IN) = .72
 BARREL LENGTH (IN) = 24
 BULLET SEATING DEPTH (IN) = .275
 DISPLACED WATER (GR) = 5.171
 EFFECTIVE WATER CAPACITY OF CASE (GR) = 80.829
 EFFECTIVE BARREL LENGTH (IN) = 21.44

** LPD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .300 H&H MAG
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 21.44 IN
 CASE CAPACITY = 80.829 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 5.9
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: MEDIUM FAST POWDERS
 POWDER TYPE: IMR-3031, RX11, H-335, AA-2230, S-3032, WW-748, N-201
 CHARGE/BULLET WT = 1.264
 CALC. POWDER CHARGE = 69.5 GR LOAD DEN = 85.9 %
 EST. MUZZLE VELOCITY = 4300 FT/SEC
 EST. PEAK PRESSURE = 40400 PSI
 ALT POWDER TYPE: BLC-2, H-322, RX12, AA-2460, N-203
 POWDER CLASS: MEDIUM FAST POWDERS
 CHARGE/BULLET WT= 1.327
 CALC. POWDER CHARGE = 73 GR LOAD DEN = 90.3 %
 EST. MUZZLE VELOCITY = 4400 FT/SEC
 EST. PEAK PRESSURE = 42700 PSI
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

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** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .300 H&H MAG	CHARGE WT.	VELOCITY	PRESSURE
POWDER TYPE - IMR-3031, RX11, H-335, AA-2230, S-3032, WW-748, N-201	GR	FPS	PSI
LOAD DENSITY %			
75	60.6	3700	30700
80	64.7	4000	35000
85	68.7	4300	39500
90	72.7	4500	44200
95	76.8	4800	49300 *
100	80.8	5000	54600 *

ALT POWDER TYPE - BLC-2, H-322, RX12, AA-2460, N-203	CHARGE WT.	VELOCITY	PRESSURE
	GR	FPS	PSI
75	60.6	3700	29400
80	64.7	3900	33500
85	68.7	4100	37800
90	72.7	4400	42400
95	76.8	4600	47300 *
100	80.8	4900	52300 *

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CASE CAPACITY CALCULATIONS

CAUTION--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE= .308 NORMA MAG
 BULLET TYPE= .22/Sabot
 BULLET WT. ----- 55
 BULLET DIAMETER (IN)= ----- .308
 OVERALL CARTRIDGE LENGTH (IN) - 2.97
 CASE LENGTH (IN)= ----- 2.55
 FULL CASE CAPACITY (GR WATER) - 87
 BULLET LENGTH (IN) ----- .72
 BARREL LENGTH (IN) ----- 24
 BULLET SEATING DEPTH (IN) ----- .3
 DISPLACED WATER (GR) ----- 5.641
 EFFECTIVE WATER CAPACITY OF CASE (GR) - 81.359
 EFFECTIVE BARREL LENGTH (IN) ----- 21.75

** LPD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .308 NORMA MAG
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 21.75 IN
 CASE CAPACITY = 81.359 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 5.9
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: MEDIUM FAST POWDERS
 POWDER TYPE: IMR-3031, RX11, H-335, AA-2230, S-3032, WW-748, N-201
 CHARGE/BULLET WT = 1.273
 CALC. POWDER CHARGE = 70 GR LOAD DEN = 86 %
 EST. MUZZLE VELOCITY = 4300 FT/SEC
 EST. PEAK PRESSURE = 40200 PSI
 ALT POWDER TYPE: BLC-2, H-322, RX12, AA-2460, N-203
 POWDER CLASS: MEDIUM FAST POWDERS
 CHARGE/BULLET WT= 1.336
 CALC. POWDER CHARGE = 73.5 GR LOAD DEN = 90.3 %
 EST. MUZZLE VELOCITY = 4400 FT/SEC
 EST. PEAK PRESSURE = 42500 PSI
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .308 NORMA MAG	POWDER TYPE - IMR-3031, RX11, H-335, AA-2230, S-3032, WW-748, N-201	LOAD DENSITY %	CHARGE WT. GR	VELOCITY FPS	PRESSURE PSI
75	61.0	3700	30500		
80	65.1	4000	34800		
85	69.2	4300	39300		
90	73.2	4500	44000		
95	77.3	4700	49000 *		
100	81.4	5000	54400 *		
ALT POWDER TYPE - BLC-2, H-322, RX12, AA-2460, N-203					
75	61.0	3700	29300		
80	65.1	3900	33300		
85	69.2	4100	37700		
90	73.2	4400	42200		
95	77.3	4600	47000 *		
100	81.4	4900	52100 *		

* - WARNING -- HIGH PRESSURE - REFERENCE ONLY!

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CASE CAPACITY CALCULATIONS

CAUTION--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE= .300 WIN MAG
 BULLET TYPE= .22/Sabot
 BULLET WT. ----- 55
 BULLET DIAMETER (IN)= ----- .308
 OVERALL CARTRIDGE LENGTH (IN) - 3
 CASE LENGTH (IN)= ----- 2.61
 FULL CASE CAPACITY (GR WATER) - 88
 BULLET LENGTH (IN) ----- .72
 BARREL LENGTH (IN) ----- 24

BULLET SEATING DEPTH (IN) ----- .33
 DISPLACED WATER (GR) ----- 6.206
 EFFECTIVE WATER CAPACITY OF CASE (GR) - 81.794
 EFFECTIVE BARREL LENGTH (IN) ----- 21.72

** LPD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .300 WIN MAG
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 21.72 IN
 CASE CAPACITY = 81.794 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 5.9
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: MEDIUM FAST POWDERS
 POWDER TYPE: IMR-3031, RX11, H-335, AA-2230, S-3032, WW-748, N-201
 CHARGE/BULLET WT = 1.278
 CALC. POWDER CHARGE = 70.3 GR LOAD DEN = 85.9 %
 EST. MUZZLE VELOCITY = 4400 FT/SEC
 EST. PEAK PRESSURE = 41900 PSI
 ALT POWDER TYPE: BLC-2, H-322, RX12, AA-2460, N-203
 POWDER CLASS: MEDIUM FAST POWDERS
 CHARGE/BULLET WT= 1.344
 CALC. POWDER CHARGE = 73.9 GR LOAD DEN = 90.3 %
 EST. MUZZLE VELOCITY = 4400 FT/SEC
 EST. PEAK PRESSURE = 42400 PSI
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

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** ALTERNATE LOAD INFORMATION ** 04-26-1993

CARTRIDGE DATA - .300 WIN MAG				
POWDER TYPE - IMR-3031, RX11, H-335, AA-2230, S-3032, WW-748, N-201	LOAD DENSITY	CHARGE WT. GR	VELOCITY FPS	REFERENCE PRESSURE PSI
75	61.3	3800	31900	
80	65.4	4100	36300	
85	69.5	4300	41000	
90	73.6	4600	45900 *	
95	77.7	4900	51200 *	
100	81.8	5100	56700 *	

ALT POWDER TYPE - BLC-2, H-322, RX12, AA-2460, N-203			
LOAD DENSITY	CHARGE WT. GR	VELOCITY FPS	REFERENCE PRESSURE PSI
75	61.3	3600	29200
80	65.4	3900	33200
85	69.5	4100	37500
90	73.6	4400	42100
95	77.7	4600	46900 *
100	81.8	4900	52000 *

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