



FEDERAL
PREMIUM
AMMUNITION

SHOTSHELL RELOADING DATA



Featuring Alliant Powders



2008

Federal® No. 209A Primers...

The No. 209A Champion™ Primer is particularly adaptable to a variety of powders. The basic lead styphnate mixture, a Federal exclusive, is non-mercuric, non-corrosive, and stable over extreme ranges of temperature and humidity. The 209A provides instant, full, and dependable ignition with uniform ballistics.

The close manufacturing control of primer pellet weight and all primer dimensions assures consistent sensitivity and performance.

The package for Federal No. 209A Primers features a deep-plastic tray for added safety and easier handling.



Federal Number	Type	Use	Nominal Diameter In Inches
209A	Shotshell	Target & Hunting Loads in 12, 16, 20, 28, & .410 Gauge	.243

Federal® Plastic Wad Columns

One-Piece Wad Columns U.S. Patent No. 3,622,683

The spring action design of the cushion section provides multiple gas sealing and no-tilt, controlled compression on firing. The protective segments of the shot container reduce shot pellet deformation for truer flight and improved patterns without barrel leading. The over powder section provides a primary seal of the powder gas.

12 Gauge: (paper & plastic)

- 12S0 — ¾ and 1 oz. loads in Gold Medal® target shells.
- 12S3 — 1½ oz. loads in Gold Medal® target and hunting shells.
- 12S4 — 1½ oz. loads in Gold Medal® target and hunting shells.

20 Gauge:

- 20SI — ¾ and 1 oz. in all Federal® shells.

28 Gauge:

- 28SI — ¾ oz. loads in all Federal® shells.

Shotcups, Complete one-piece plastic wad column.

.410 Gauge:

- 410SC — ½ oz. loads in all Federal® shells.



12 Gauge 2¾" Gold Medal Paper Case

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
¾	3¼	1325	209A	12S0	Red Dot	20½	8,200
¾	3¼	1325	209A	12S0	American Select	21½	7,700
¾	3¼	1325	209A	12S0	Solo 1000	22	7,400
¾	3¼	1325	209A	12S0	Titewad	21	7,200
¾	3	1300	209A	12S0	e3	18½	7,400
1	2¾	1180	209A	12S0	Red Dot	18	7,800
1	2¾	1180	209A	12S0	American Select	19	7,200
1	2¾	1180	209A	12S0	700-X	18	8,100
1	2¾	1180	209A	12S0	Clays	18	7,700
1	2¾	1180	209A	12S0	Nitro 100	17½	8,200
1	2½	1200	209A	12S0	e3	17½	8,500
1	2½	1200	209A	12S0	Green Dot	20½	6,850
1½	Extra-Lite®	1120	209A	12S3	PB	21	7,400
1½	Extra-Lite®	1120	209A	12S3	Royal Scot D	19	7,400
1½	Extra-Lite®	1120	209A	12S3	Titewad	17	8,100
1½	2¾	1145	209A	12S3	E3	17	9,640
1½	2¾	1145	209A	12S3	Red Dot	18	8,700
1½	2¾	1145	209A	12S3	Green Dot	18½	7,400
1½	2¾	1145	209A	12S3	American Select	19	8,200
1½	2¾	1145	209A	12S3	700-X	18	9,400
1½	2¾	1145	209A	12S3	International	20	7,600
1½	2¾	1145	209A	12S3	Clays	18½	8,800
1½	2¾	1145	209A	12S3	Solo 1000	19½	7,800
1½	2¾	1145	209A	12S3	Nitro 100	17½	9,300
1½	2¾	1145	209A	12S3	WST	20	9,100
1½	3	1200	209A	12S3	Red Dot	19	10,100
1½	3	1200	209A	12S3	Green Dot	21	7,800
1½	3	1200	209A	12S3	American Select	20½	10,400
1½	3	1200	209A	12S3	700-X	19	10,100
1½	3	1200	209A	12S3	International	21	8,500
1½	3	1200	209A	12S3	Clays	19½	10,000
1½	3	1200	209A	12S3	Solo 1000	20½	8,900
1½	3	1200	209A	12S3	Nitro 100	18½	10,000
1¼	3¼	1220	209A	12S4	Unique	24	9,800
1¼	3¼	1220	209A	12S4	800-X	24	9,400
1¼	3¼	1220	209A	12S4	WSF	26	9,500
1¼	3¼	1330	209A	12S4	Blue Dot	37	10,500
1¼	3¼	1330	209A	12S4	HS7	35	10,300

The charges shown apply only to the specific components listed. Do not exceed these powder charges. Check the weight of the charge from your bar. All data is for lead shot. Do not use this data with steel shot.

12 Gauge 2³/₄" Gold Medal Plastic Case

(Data applies to both ribbed or smooth case)

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
7/8	3/4	1325	209A	12S0	Red Dot	20	9,100
7/8	3/4	1325	209A	12S0	Green Dot	22½	7,300
7/8	3/4	1325	209A	12S0	American Select	20½	7,700
7/8	3/4	1325	209A	12S0	Solo 1000	21½	7,700
7/8	3/4	1325	209A	12S0	International	23	7,300
7/8	3/4	1325	209A	12S0	Titewad	21	8,100
7/8	3	1300	209A	12S0	e3	18½	8,855
1	2¾	1200	209A	12S0	e3	17½	9,000
1	2¾	1200	209A	12S0	Green Dot	20½	7,600
1	2¾	1180	209A	12S0	Red Dot	17½	8,800
1	2¾	1180	209A	12S0	American Select	18½	7,100
1	2¾	1180	209A	12S0	700-X	17½	7,700
1	2¾	1180	209A	12S0	Clays	18	7,100
1	2¾	1180	209A	12S0	Nitro 100	17½	8,000
1	2¾	1180	209A	12S0	WST	20	7,200
1½	Extra-Lite	1120	209A	12S3	PB	20	7,700
1½	Extra-Lite	1120	209A	12S3	Titewad	17	8,600
1½	2¾	1145	209A	12S3	E3	17½	9,260
1½	2¾	1145	209A	12S3	Red Dot	18	8,800
1½	2¾	1145	209A	12S3	Green Dot	19½	8,100
1½	2¾	1145	209A	12S3	American Select	19	7,600
1½	2¾	1145	209A	12S3	700-X	17½	9,100
1½	2¾	1145	209A	12S3	International	19½	7,900
1½	2¾	1145	209A	12S3	Clays	18	9,500
1½	2¾	1145	209A	12S3	Solo 1000	19	8,800
1½	2¾	1145	209A	12S3	WST	20	9,400
1½	3	1200	209A	12S3	Red Dot	19½	10,000
1½	3	1200	209A	12S3	Green Dot	20	9,000
1½	3	1200	209A	12S3	Unique	22½	7,300
1½	3	1200	209A	12S3	American Select	20½	9,200
1½	3	1200	209A	12S3	700-X	18½	10,200
1½	3	1200	209A	12S3	PB	22	9,000
1½	3	1200	209A	12S3	International	20½	10,200
1½	3	1200	209A	12S3	Clays	19	10,800
1½	3	1200	209A	12S3	Universal	23½	8,300
1½	3	1200	209A	12S3	Solo 1000	20	10,100
1½	3	1200	209A	12S3	WST	21	9,800
1½	3¾	1255	209A	12S3	Green Dot	21½	9,500
1½	3¾	1255	209A	12S3	Unique	23½	8,100
1½	3¾	1255	209A	12S3	American Select	22	10,100
1½	3¾	1255	209A	12S3	700-X	19½	11,000
1½	3¾	1255	209A	12S3	SR 7625	26	8,000
1½	3¾	1255	209A	12S3	PB	23	10,000
1¼	3¾	1220	209A	12S4	Unique	24	10,500
1¼	3¾	1220	209A	12S4	800-X	24	10,100
1¼	3¾	1220	209A	12S4	SR 7625	26	10,400
1¼	3¾	1220	209A	12S4	SR 4756	28½	8,600
1¼	3¾	1330	209A	12S4	Blue Dot	33½	9,900
1¼	3¾	1295	209A	12S4	Blue Dot	30	10,600

The charges shown apply only to the specific components listed. Do not exceed these powder charges. Check the weight of the charge from your bar. All data is for lead shot. Do not use this data with steel shot.

12 Gauge 2³/₄" One-Piece Hunting-Type Plastic Case

(Federal 2¾" with Integral Plastic Basewad)

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
1¼	3¾	1220	209A	12S3	SR 7625	27	8,400
1¼	3¾	1220	209A	12S3	SR 4756	29½	8,200
1¼	3¾	1330	209A	12S3	800-X	28	10,000
1¼	3¾	1330	209A	12S3	Blue Dot	38½	8,500
1¼	3¾	1330	209A	12S3	SR 7625	30½	10,400
1¼	3¾	1330	209A	12S3	SR 4756	32	9,000
1¼	3¾	1330	209A	12S3	HS6	35½	9,400
1¼	3¾	1330	209A	12S3	WSF	31	9,500
1½	3¾	1295	209A	12S3	800-X	27½	10,800
1½	3¾	1295	209A	12S3	Blue Dot	35½	9,800
1½	3¾	1295	209A	12S3	HS6	34½	10,800
1½	3¾	1295	209A	12S3	WSF	30	10,500
1¼	3¾	1330	209A	12S4	SR 4756	32	10,300
1½	3¾	1295	209A	12S4	Blue Dot	34½	9,700
1½	3¾	1295	209A	12S4	SR 4756	31	10,800
1½	3¾	1295	209A	12S4	HS6	33	10,700
1½	3¾	1260	209A	12S4	Blue Dot	32½	10,700
1½	3¾	1225	209A	12S4	Blue Dot	32	10,300

12 Gauge 2³/₄" Hunting-Type Plastic Case

(Top Gun, Field and Target Loads; Federal Premium Wing-Shok, and Federal Game-Shok Shells with Paper Basewad)

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
1½	3	1200	209A	12S3	Red Dot	19	9,300
1½	3	1200	209A	12S3	Green Dot	21	8,000
1½	3	1200	209A	12S3	Unique	23	7,700
1½	3	1200	209A	12S3	700-X	18½	10,300
1½	3	1200	209A	12S3	PB	22	9,100
1½	3	1200	209A	12S3	WST	21	10,600
1½	3¾	1255	209A	12S3	Green Dot	22	9,000
1½	3¾	1255	209A	12S3	Unique	24	8,100
1½	3¾	1255	209A	12S3	700-X	19½	10,800
1½	3¾	1255	209A	12S3	PB	23½	9,500
1½	3¾	1255	209A	12S3	SR 7625	26	8,300
1½	3¾	1255	209A	12S3	Tite Group	19½	10,300
1½	3¾	1255	209A	12S3	WST	22	10,800
1¼	3¾	1220	209A	12S4	Green Dot	23	9,800
1¼	3¾	1220	209A	12S4	Unique	23	9,500
1¼	3¾	1220	209A	12S4	800-X	24	9,800
1¼	3¾	1220	209A	12S4	SR 7625	25½	10,100
1¼	3¾	1220	209A	12S4	SR 4756	29	8,700
1¼	3¾	1220	209A	12S4	WSF	26½	9,300
1¼	3¾	1330	209A	12S4	Herco	29	10,200
1¼	3¾	1330	209A	12S4	800-X	26½	10,200
1¼	3¾	1330	209A	12S4	Blue Dot	34	9,600
1¼	3¾	1330	209A	12S4	SR 4756	31½	10,100
1¼	3¾	1330	209A	12S4	HS6	32½	10,900
1¼	3¾	1330	209A	12S4	HS7	35½	10,700
1¼	3¾	1295	209A	12S4	Blue Dot	32	10,500

The charges shown apply only to the specific components listed. Do not exceed these powder charges. Check the weight of the charge from your bar. All data is for lead shot. Do not use this data with steel shot.

12 Gauge 3" One-Piece Plastic Case

(Federal Premium® 3" 2oz., with integral Plastic Basewad)

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
1½	¾	1225	209A	12S3	SR 4756	32	10,800
1¾	¾	1190	209A	12S4	Blue Dot	32	10,500

20 Gauge 3" Plastic Case

(Federal Premium® Wing•Shok® and Federal® Game•Shok® Hunting Shells)

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
1½	¾	1285	209A	20S1	Blue Dot	25	11,400
1¾	3	1185	209A	20S1	Blue Dot	23½	11,300

12 Gauge 3" Plastic Hunting Case

(Federal Premium® Wing•Shok® and Federal® Game•Shok® Hunting Shells with Paper Basewad)

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
1½	¾	1225	209A	12S4	Blue Dot	33	10,900

28 Gauge 2¾" Plastic Case

(Federal Premium® Gold Medal® Target Load and Premium® Hunting Shells)

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
¾	2	1200	209A	28S1	Blue Dot	17½	9,700
¾	2	1200	209A	28S1	SR 4756	15½	10,800
¾	2	1200	209A	28S1	Long Shot	14	9,800

12 Gauge 3½" One-Piece Plastic Case

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
2	4¼	1220	209A	12S0	Blue Dot	38	12,200
2½	4¼	1150	209A	12S3	Blue Dot	35	12,400

.410 Bore 2½" Plastic Case

(Federal Premium® Gold Medal® Target Load — Federal® Game•Shok® Hunting Shells)

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
½	-	1200	209A	410SC	410	11½	10,500
½	-	1200	209A	410SC	H110	14½	10,500
½	-	1200	209A	410SC	Lil Gun	12	10,300

20 Gauge 2¾" Hunting -Type Plastic Case

(Federal Premium® Gold Medal® Top Gun®, Field and Target Load — and Premium® Hunting Shells)

Shot Weight Oz.	Drams Equiv.	Velocity f.p.s. (approx.)	Primer	Wad	Powder	Charge Weight Grains	Pressure P.S.I.
¾	2½	1200	209A	20S1	Green Dot	15	10,500
¾	2½	1200	209A	20S1	Unique	16½	10,900
¾	2½	1200	209A	20S1	Herco	16½	10,400
¾	2½	1200	209A	20S1	PB	16	10,700
¾	2½	1200	209A	20S1	SR 7625	18	10,200
¾	2½	1200	209A	20S1	SR 4756	20	8,900
¾	2½	1200	209A	20S1	Universal	16½	9,400
1	2½	1165	209A	20S1	Unique	16	11,300
1	2½	1165	209A	20S1	Long Shot	17	8,900



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CAUTION: Careless or incorrect handloading procedures can cause hazardous conditions resulting in gun damage and/or serious personal injury.

- Handloading should be done only by competent adults after proper instruction.
- Always wear safety glasses when handloading.
- Follow the instructions given by the handloading tool manufacturer.
- Follow handling and storage instructions provided by powder and primer manufacturers.
- The charges shown apply only to the specific components listed. Do not exceed these charges. Check the weight of charge from your bar for both powder and shot.
- Do not use buffering materials of any type with the loads listed in this booklet.
- The loading data in this booklet has been developed for lead shot only. Do not use this data with steel or other non-toxic shot pellets.
- Since handloading practices are beyond our control, we disclaim all liability for any damages which may result.

LEAD WARNING: Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead and other substances known to cause birth defects, reproductive harm, and other serious physical injury. Have adequate ventilation at all times. Wash hands thoroughly after exposure.



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