

MB

Surveying Instruments, Optical Goods

Drawing Instruments, Artists' Materials, Transits, Levels, Tapes, Mirroscopes, Conversation Tubes, Hearing Horns, Flash Lights, Batteries and Lamps, Opera Glasses, Reading Glasses, Magnifying Glasses, Telescopes, Binoculars, Thermometers, Compasses.

Express, Freight and Parcel Post Rates Are on Pages 11, 12 and 13.

Have You Our Big General Catalog? Be Sure to Read Page 1.



We Guarantee

That each and every article in this catalog is exactly as described and illustrated.

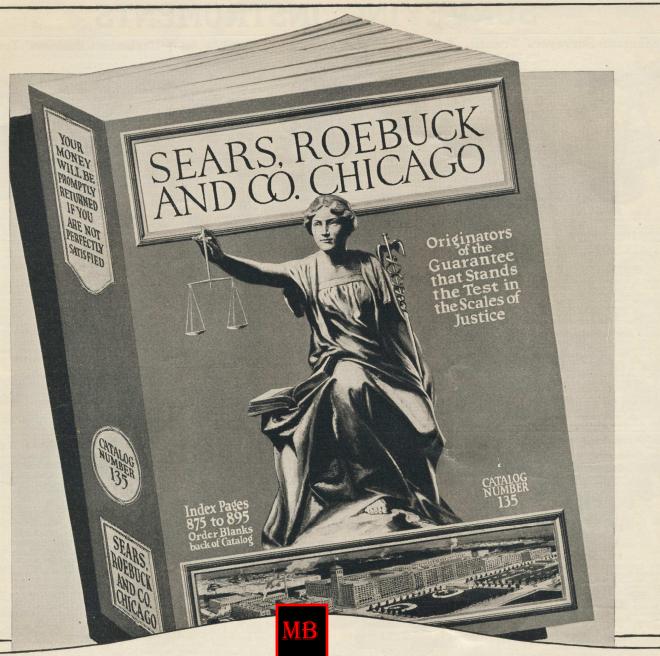
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Sears, Roebuck and Co., Chicago

MB



THE Pages of This Special Catalog of Surveying Instruments and Optical Goods Are a Part of Our Big 1630-Page General Catalog Here Illustrated.

For your convenience we have printed and bound the Surveying Instruments and Optical Goods section of our big General Catalog separate from the other pages of the Big Book. This explains why certain lines at the bottom of some of the pages or elsewhere in the catalog refer to pages not found in this special catalog.

The pages which precede and the pages which follow the Surveying Instruments and Optical Goods section in our big General Catalog comprise a great many other lines of merchandise—dry goods, wearing apparel, home furnishings, jewelry, musical instruments, toys, household supplies, hardware and farm supplies. If you have not a copy of our big General Catalog be sure to write for one and make it a rule to consult its pages whenever you need supplies of any kind.

 $\mathbb C$ We offer you vastly greater buying opportunities than you can have through any other method of merchandising. From

our big General Catalog you can build a home and furnish it; clothe every member of your family and supply them with reading, music and physical recreation; equip and maintain a farm, an office, a factory, an automobile or a motor boat; in fact, supply almost every daily need of whatsoever kind—all at bedrock prices based on the most economical selling methods.

© But just as the farm yields most bountifully by intensive cultivation, so this catalog offers its greatest benefits when constantly referred to as each need arises. This is YOUR OPPORTUNITY TO SAVE MONEY.

Our Terms

We require cash with order. The best ways to send money are in the form of an express money order, postoffice money order, a bank draft, your personal check, or currency in a registered letter. Parcel post, express and freight rates are shown on pages 11, 12 and 13 of this book.



SURVEYING INSTRUMENTS

Beckmann Surveyors' Transit.



No. 20K3942
This instrument is designed for general land surveying and on account of its low price, makes an admirable instrument where extreme accuracy is not required, has a long sensitive needle and therefore very popular with land surveyors.

with land surveyors.

SPECIFICATIONS.

Telescone — Achromatic

therefore very popular with land surveyors. SPECIFICATIONS.
Telescope—Achromatic erecting, Length, 9 inches; magnifying power, 28 diameters; good definition, reverses at both ends. Clamp and tangent movement to telescope axle. Object glass has 1½-inch aperture, with dust protector and cap. Rack and pinion movement to telescope axle. Object glass has 1½-inch aperture, with dust protector and cap. Rack and pinion movement to telescope axle. Object glass has 1½-inch aperture, with dust protector and cap. Rack and pinion movement to telescope axle. Object glass has 1½-inch aperture, with dust protector and cap. Rack and pinion movement to telescope axle. Object glass has 1½-inch aperture, with dust protector and cap. Rack and pinion movement to telescope axle. Object glass has 1½-inch aperture, with dust protect graduated to degrees and numbered in quadrants, 0 to 90 each way. Needle is 5 inches long, of hardened and tempered steel. Variation plate is set by capstan head pinion; compass box silver plated. Horizontal Limb—6½ inches in diameter, silver plated. Horizontal Limb—6½ inches in diameter, silver plated. Horizontal Limb—6½ inches in diameter, silver plated is set by capstan head pinion; compass box silver plated. Horizontal Limb—6½ inches in diameter, silver plated is set by capstan head pinion; compass box silver plated. Horizontal Limb—6½ directions from to with two rows of figures reading in opposite directions from to with two rows of figures reading in opposite directions from to with two rows of figures reading in opposite directions from to with two rows of figures. The provided with shade for illuminating vernier. Clamp and tangent movement. Two sensitive plated, with the shade for illuminating vernier. Clamp and tangent movement. Two sensitive plated, with the shade for illuminating vernier. Solid and gummetal, lacquered.

Instrument is packed whole, in an upright position in amhogany box. Sun shade, plumb bob, magnifying glass, wrench and adjusting pins are furnished with each instrument. Shipping

Beckmann Locating Transit.

No. 20K3945
The ideal instrument for railroad and city work. May be used in all kinds of railroad contractions in a structure of the contraction o of railroad c on-struction, mining and tunnel work, as well as munici-pal engineering. Its accuracy, combined accuracy, combined with its convenient size and weight, makes it an ex-cellent instrument where a large tran-sit is not desired. SPECIFICATIONS



Instrument is packed whole, and lies in a horizontal position in low mahogany box. Sun shade, plumb bob, magnifying glass, wrench a n d adjusting plus are furnished with each instrument. Shipinstrument. Shipping weight, 30 lbs.

SPECIFICATIONS
Telescope—Achromatic terrestrial.
Length, 9½ inches;
magnifying power,
30 diameters good definition. Reverses at both ends. Stadia wires
have a clamp and tangent movement to telescope axie. Object
glass has 1½-inch aperture, with dust protector and cap. Rack and
pinion movement to telescope side. Eyepiece has improved screw
motion for focusing of cross hairs and stadia wire. Level to telescope
is graduated on the glass.
Vertical Circle—4½ inches in diameter, silver plated, graduated to
½ degrees, and numbered in quadrants, 0 to 90 each way, reading
by one double vernier to one minute
Compass—Needle circle graduated to
10 50 each way. Needle is 3% inches long, of hardened and tempered steel. Variation plate is set by capstan head plnion, compass
box silver plated.

oto 90 each way. Needle is 3% inches long, of hardened and tempered steel. Variation plate is set by capstan head pinion, compass box silver plated.

Horizontal Limb—5¼ inches in diameter, silver plated, graduated to ½ degrees and numbered with two rows of figures reading in opposite directions from 0 to 360. Two opposite double verniers, reading to single minutes, verniers located 30 degrees from line of sight, covered with polished glass and provided with shades for illuminating verniers. Clamp and tangent movement. Two sensitive spirit levels, Center—Independent, extending from vernier plate to the bottom of leveling head. Composition, spindle metal.

Leveling Head is of phosphor bronze. Solid construction, four substantial leveling screws, with ball and socket cups. Shifting plate, %-inch shift.

Finish—Gunmetal, lacquered.

No. 20K3945 Locating Transit with split leg tripod.

Price

EXTRAS FOR TRANSITS.

Extension Leg Tripod in place of regular hardwood tripod furnished with instrument.

Synon.

Stadia Wires.

Shifting Plate, %-inch shift.

For inch shift.

Finish—Gunmetal, lacquered.

No. 20K3945 Locating Transit with split leg tripod.

Stadia Wires.

Shifting plate, %-inch shift.

Finish—Gunmetal, lacquered.

No. 20K3945 Locating Transit with split leg tripod.

Stadia Wires.

Shifting plate, %-inch shift.

Shifting plate, %-inch shift.

Finish—Gunmetal, lacquered.

No. 20K3945 Locating Transit with split leg tripod.

Stadia Wires.

Shifting plate, %-inch shift.

Shifting plate to \$2 degrees from line of sight, once do

Beckmann Builders' Transit.

No. 20K3937
This instrument is designed especially for the builder, architect, contractor, etc., who wishes to do more accurate work than can be done with the Architects' Level, but who does not wish to Level, but Who does not wish to go to the expense of purchasing a regular Surveyors' Transit. It may be used in taking angles, leveling foundations, giving lines and elevations for buildings and in all kinds of structural work. Especially valuable in reinforced concrete work and in bridge con-struction where a compass is not needed. not needed.



SPECIFICATIONS.

Telescope—Achromatic terrestrial. Length, 9 inches; magnifying power, 25 diameters; good definition, reverses at both ends. Clamp and tangent movement to telescope axle. The object glass has 1½-inch aperture, with dust protector and cap. Rack and pinion movement to tele-scope slide. Experiece has improved screw motion for focusing of cross hairs. Level to telescope is grad-uated on the glass.

Horizontal Limb—5½-inch diameter, silver plated, graduated to ½ degrees, and numbered with two rows of figures reading in opposite directions from 0 to 360. One double vernier reading to single minutes, vernier located 30 degrees from line of sight, covered with polished glass and provided with vernier shade. Clamp and tangent movement. Two sensitive plate levels.

Beckmann Railroad Wye Level.

No. 20K3933

SPECIFICATIONS.

Beckmann Architects' Level.



No. 20K3927

These instruments are especially designed for architects and contractors and may be used in leveling walls, laying out angles, giving lines and levels for buildings, grading streets, drains, etc. The lens system is exceptionally fine for this style of instrument, so that it may be used in all kinds of leveling work where the stations are not too far apart. Constructed throughout of the best quality phosphor bronze and bell metal.

No. 20K3926 Architects' Level. Equipped with 12-inch telescope with magnifying power of 22 diameters and objective with 1½-inch aperture and rack and pinion movement. Dust guard, sun shade and dust cap to telescope. Improved spiral motion to eyepiece for focusing cross wires. Level vial graduated on the glass. Horizontal circle divided to degrees and reading to five minutes by veruler attached to spindle. This circle is reversible for setting it to zero at any point. In schedox with plumb bob, metal trivet for foundation work), adjusting plus and hardwood tripod. Shipping weight, 25 pounds.

Price

No. 20K3927 Architects' Level, same as No. 20K3926, but fitted with improved clamp and tangent serew. Shipping wit, 28 by.

Price

No. 20K3928 Architects' Level, same as No. 20K3926, but with special lever bar holding 3%-inch compass reading to half degrees (compass needle 3 inches) and improved clamp and tangent serew. Shipping wit, 28 bys. 50

Folding Sight Compass at \$8.90.



Architects' Convertible Level



Beckmann Drainage Level. No. 20K3922 For use of landscape gardeners, farmers and ditchers. Well made and accurate for rough leveling work. Equipped with a 12-inch telescope; magnifying power, 18 diameters, Level variation of ¼ inch in 100 feet distance. Instrument revolves on spindle. Bronze metal. Complete with tripod. Shipping weight, 19 pounds. view of the property of t

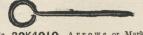
Plumb Bob, \$1.20. Ros 20K4015 Plumb Bob.
Brass finish. Very carefully made and absolutely accurate. Weight, a ounces. Length, 3¾ inches. Shipping wt., 12 oz. Price.....\$1.20

20K3923

Leveling Rods and Poles.

Price, 6 feet (Shpg. wt., 6 lbs.)..\$2.12 Price, 6 feet (Shpg. wt., 6 lbs.).. 1.92

Marking Pins, 95 Cents per Set.



No. 20K4010 Arrows or Marking ins, steel, best grade, 14 inches long, in ts of eleven. Shipping wt., 1½ lbs. Price, per set......95c sets of eleven. Shi Price, per set...



Fulton Quick Reading Steel Tapes. \$2.15 to \$3.90. \$3.90.

High grade we 11 in finished tapes No. 20K4001 and No. 20K4001 in solid leather, metal lined case; No. 20K4004 in solid st e el nickel plated case. Automatic handles. Quick reading scale marked in feet, tenths and hundred ths of a foot.

a foot.

No. 20K4001

-Foot Tape. Shipping weight, 12 ounces.
\$2.65 Price \$2.65
No. 20K4002 100-Foot Tape. Shipping eight, 1½ pounds. Price \$3.90
No. 20K4003 50-Foot Tape, Shipg, wt.,

Price\$2.15 No. 20K4004 100-oot Tape. Shpg. wt., % pounds. Price

SPECIFICATIONS.

Telescope—Achromatic terrestrial. Length, 18 inches; magnifying power, 30 diameters; provided with stop to insure true horizontal and vertical position of the cross hairs. The object glass is 1% inches in diameter, focused with rack and pinion movement. Object slide is provided with dust protector, sun shade and cap. Eyepiece has improved screw motion for accurate focusing of cross hairs. Level to telescope is graduated on the glass, adjustable horizontally and vertically.

Crossbar is of phosphor bronze, designed to combine strength with least weight. The telescope resis in two strong wyes, one of which is content—Extends from the crossbar to the bottom of the leveling head, and is made of bell metal.

Tangent Movement—Attached to bar and revolves with it, always keeps same relative position to the telescope on right hand side of operator.

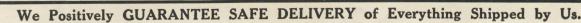
Leveling Head of solid construction. Four Leveling Head of solid construction. Four leveling screws, provided with ball and socket

Hand Level, \$3.50

No. 20K3940 Surveyors' H and Level for preliminary or estimate leveling. Can also be used for drainage work. Made of fine grade materials and fitted with an accurately ground level bubble. Length, 5 inches. Shipping weight, 5 ounces. Price...\$3.50

Fulton Engineers' Steel Tape Chain.

No. 20K4008 For general engineering, mining and railroad work, Polished blued steel tape, ¼ inch wide. Graduated every foot by brass rivets. Every 5 feet marked by numbers, with each end foot in tenths. Easily detached from reel.





Richardson's Direct Reading Slide Rule,

The Only Rule That Will Add and Subtract, as Well as Multiply and Divide.

Richardson's Direct Reading Slide Rule is made with the sine, log and tangent scales all on one face. It is constructed entirely of metal, no wood whatever being used, and is therefore unaffected by moisture or atmospheric changes. The scales are of aluminum with pure white celluloid faces, black lines and plain figures, very easily read and will stand washing. It is provided with a square celluloid runner which permits unobstructed vision of the scales. Length, 11 inches; width, 194 inches, This slide rule is one of the most easily operated calculators ever problems. What to solve the most intricate multiply and the scales of the most intricate multiply and the scale interest or percentage.

With each of these rules is included Richardson's 64-mage book of instructions, "The Slide Rule Simplified." The book is a complete guide, It contains over 100 illustrations and more than 100 actual settings of the scale.

No. 20K4252 Richardson's Direct Reading Slide

No. 20K4252 Richardson's Direct Reading Slide Rule, with ordinary case. Shpg. wt., 14 oz. Price. \$2.50

No. 20K4254 Richardson's Direct Reading Slide Rule, with flexible genuine leather case. Shipping weight, 12 ounces. Price. \$3.00

Union Slide Rule.

No. 20K4256 The Union is a smooth working slide rule, durably made of mahogany with white ivorine facings and frameless indicator (all figures always visible). For anyone whose work involves problems in multiplication, division, powers and roots, it is a time and labor saving device, 10 inches long. Shipping weight, 10 oz. Price, in cloth covered case, with instructions. \$2.48

Mannheim Slide Rule, \$3.90.

No. 20K4257 This well known slide rule is very accurately made from mahogany, divisions on white ivorine, glass indicator and improved automatic adjustment. It is applicable to nearly all forms of calculation and is in very general use by engineers and professional men as well as students. 10 inches long. Shipping weight, 10 ounces.

Price, in case, with complete instructions......\$3.90

Multiplex Slide Rule.

The state of the s

No. 20K4258 The principles upon which the Multiplex Rule is based are identical to those underlying the
action of the ordinary Mannheim Rule. It solves all problems possible with the Mannheim Rule and further possesses
the following advantages:

It multiplies three numbers in one setting. Divides one
number by two numbers in one setting. Solves inverse proportion more conveniently. Solves in a single setting a
series of divisions having a constant dividend. Gives cube
and cube roots directly. Gives three-halves and two-thirds
powers directly. Solves in a single setting many combined
operations which require the shifting of the slide of a
Mannheim rule.

Made from mahogany with divisions on white ivorine, glass
frameless indicator, and improved automatic adjustment. 10
inches long. Shipping weight, 10 oz,

Price with morocco case and book of instructions..\$4.45

Triangular Boxwood Scales.

long.

Shipping weight, any scale, 6 ounces.

India Ink.

No. 20K4390 Lion Head India Ink, first quality, black, Shpg. wt., 1 oz. Price, small size, 13c; large. 19c

Protractors.

Used for dividing circles into any number of equal parts and determining an-gles. Shipping weight, any protracto

protractor, 3 ounces.

No. 20K4261 Brass
Protractor. Diameter, 3%
gree graduations. A high grade instrument. Price. 21c
No. 20K4264 Celluioid Protractor. Transparent half
circle; diameter, 6 inches; ½ degree graduations.

Irregular Curves. No. 20K4370 Irregular Curve, accurately made of black Ambro and invaluable for drawn irregular curves. Ship-weight, 4 ounces.

Wooden Triangle.

\(\) No. 20K4301 Ch Cherry Triangles, 45 de-ts. State size.

Transparent Celluloid Triangles.

These triangles allow more rapid and accurate work owing to their transparency, do not collect dust, and keep their edges almost like metal tools.

No. 20K4305 Transparent Celluloid Triangles, 30 No. 20K4305 60 degrees, open es, open center. State size.

Size, inches..... 4 Shipping wt., oz... 2 pping wt., oz... 12c 20c 30c 41c 59c 85c 20K4306 Transparent Celluloid Triangles, 45 es, open center. State size. Size, inches... 4 6 8 10 12 14 Shpg. wt., oz., 2 3 4 5 8 8 Price 19c 30c 41c 59c 86c \$1.20

T Squares.

| No. 20K43|5 T Square, with cherry blade and fixed head, State length, Length, inches. 15 18 24 30 36 42 Price 15 17 c 22 c 30c 37c 45c Weight of 15, 18 and 24-inch, packed, 14, 15 and 33 oz. No. 20K43|8 T Square, maple blade and black wallut fixed head. State length. Length, inches. 24 30 36 42 Price 32c 38c 48c 5cc Weight of 24-inch, packed, 33 ounces. No. 20K432| T Square, cherry blade and movable lead, with improved clamping swivel. State length. Length, inches. 24 30 36 42 Price 606 68c 74c 80c Weight of 24-inch, packed, 33 ounces. No. 20K432| T Square, mahogany, chony lined dade and fixed head. A very fine square. State length, inches. 24 30 36 42 Price 15 Square, mahogany, chony lined dade and fixed head. A very fine square. State length, inches. 24 30 36 42 Price 15 Square, mahogany, chony lined dade and fixed head. A very fine square. State length, inches. 24 30 36 42 Price 25 Square, mahogany, chony lined dade and fixed head. A very fine square. State length, inches. 24 30 36 42 48 Price 15 Square, mahogany, chony lined dade and fixed head. A very fine square. State length, length, inches. 26 68c 78c 86c 94c Weight of 24-inch, packed, 33 ounces.

Drawing Boards.

No. 20K4335 Drawing Board, made of pine with two drawing surfaces and side ledges, State size.

Size, inches. 12x17 16x22 20x24½ 23x31 Shipping weight. 334 lbs. 836 \$1.00 \$1.45 No. 20K4337 Drawing Board, made of the board to allow contraction and expansion. State size.

Size, inches. 20x24½ 23x31 31x42 Size, inches. 20x24½ 20x

Cannot Be Shipped by Parcel Post.

Thumb Tacks.

Brass or German Silver Thumb Tacks. No. 20K4362 First quality Tacks made with either German silver or brass heads. Cannot push through nor pull out. Put up in cork. State kind and size. Shipping weight, one dozen, 2 ounces.

1/8 80 110

Liquid Drawing Inks.

No. 20K4385 Dietzgen's Black Vaterproof Ink. Meets all requirements f the most particular draftsmen. Price, per bottle (¾ oz. bottle).\$0.20

Shipping wt., 7 oz. Doz, bottles. (Shpg. wt., 4½ lbs.). 2.30 No. 20K4386 Dietzgen's Colored Drawing Inks. Indelible, put up in the same style bottles as No. 20K4385, with quill for filling pen; yellow, orange, scarlet, carmine, blue, green or brown. Be sure to state color wanted. Price, per bottles....(Shpg. wt., 7 oz.)....\$0.20 Per doz. bottles, assorted colors, Shpg. wt., 4½ lbs. 2.30

HHH VENUS - DROWING - AMERICAN PENCIL CO, NEW YORK 1 1 No. 20K4405 Venus Pencils, furnished in twelve degrees of hardness: 1-B, HB, F, 1-H, 2-H, 3-H, 4-H, 5-H, 6-H, 7-H, 8-H and 9-H. State kind wanted. Shipping weight, 1 dozen, 5 ounces.

Price, each, 3c; per dozen, 90c; per gross....\$9.80

Dixon's Eldorado Pencil.

TODIXON'S 'ELDORADO'-the master drawing pencil-4H

No. 20K4470 Dixon's Eldorado Pencil. Called "the aster drawing pencil." Has a perfect balance of smooth master drawing pencil." Has a perfect balance of smoothness, strength and wearing quality in relation to each degree of hardness or softness. Wood is soft, straight grained cedar, easy to cut in sharpening. Furnished in twelve degrees of hardness; B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H and 9H. State kind wanted. Slpg. wt., 1 doz., 5 oz. Price, each, 8c; per dozen, 90c; per gross....\$9.80

No. 20K4403 Palette Drawing Pencil, 4 Cents.
No. 20K4403 Palette Drawing Pencil, hexagon shape.
This pencil is of superior quality, correctly and uniformly graded, free from grit, does not smear, and holds its point well. Furnished in seven degrees of hardness: 2B, 1B, HB, F, HH, 2H, 3H. State kind wanted. Shpg. wt. 1 dozen, 5 oz, Price, each, 4c; per dozen, 46c; per gross....\$5.35

No. 20K4472 Dixon's White Pencil.

No. 20K4472 Dixon's White Pencil. Standard length, 7½ inches. Writes in white on all dark rough surfaces, including blue prints, photo albums, photo mounts, black, brown or gray drawing paper or dark cloth. Shipping wh., 1 dozen, 5 ounces. Price, each, 8c; per dozen...85c

Genuine Gillott's Crow Quill Pens.

No. 20K4410 Crow Quill
Pens, very fine and stiff, put up
on cards of one dozen, with hard
on Pens, with one holder.

Price, per dozen pens, with one holder.

52c



weight, 2 oz. Price.

Sponge Rubber,

No. 20K4415 Sponge Rubber, extra fine rade very soft and pure, with solid rubber ack. Very useful in cleaning drawings and rasing pencil lines without disturbing ink ines. Size, 24x18x5 inch. Shipping wt., ounces. Price



Erasing Shield, 12 Cents.

No. 20K4417 Metal Erasing Shields, 2%x3% inches, fourteen openings of various shapes. Shpg. wt., 2 oz. Price. | 2c

For Other Pencils and Erasers See Pages 929 and 930.

Union Drawing Paper.

No. 20K4425 This Union Drawing Paper is an excellent white paper with a slightly grained surface. It is strong, stands pencil erasing well and is suttable for work in pencil, ink or color. State size.

Size, 10x13½ inches, Shipping wt., per quire, 2 lbs. 5 oz. Price, per quire (24 sheets). 246.

Size, 13x20 inches. Shipping weight, per quire, 4½ lbs. Price, per quire, (24 sheets). 486.

Royal 19x24 in 2 bbs. 15 oz. Per quire (24 sheets). 1.85
Imperial 22x30 in. 4 lbs. 6 oz. Per quire (24 sheets). 3.10

"Saxon" Cream Drawing Paper.
No. 20K4435 Saxon Cream Drawing Paper is of a light cream color with a smooth and hard drawings, both penell and ink. Stands rough handling well. State width. Width, inches. 30

Shipping wt., per yard. 11b. 5 oz. 1 lb. 10 oz. 2 lbs. Price, per yard. 10 lb. 70 oz. 1 lb. 10 oz. 2 lbs. Price, per yard. 10 lb. 36

"Lion" Tracing Cloth.
No. 20K4440 Lion Brand Vellum Tracing Cloth is a fine imported cloth made under the Dowse patent, one side glazed and the other side dull. State width. Width, inches. 30

Shipping wt., per yard. 1 lb. 2 oz. 1 lb. 7 oz. 1 lb. 9 oz. Price, per yard. 40c 45c 60c
Shog, wt., per y4-yd. roll. 4 lbs. 15 oz. 5 lbs. 11 oz. 6 lbs. 7 oz. Price, per y4-yd. roll. 4 lbs. 15 oz. 5 lbs. 11 oz. 6 lbs. 7 oz. Price, per 24-yard roll. \$8.00 \$9.20 \$11.50

"Bond" Tracing Paper.
No. 20K4445 Bond Tracing Paper is pure white, very thim, tough and transparent with dull finish. It takes either penell or ink well and stands erasing. Put up only in this penell of the penell or ink well and stands erasing. Put up only in this penell of the penell or ink well and stands erasing. Put up only in this penell or ink well and stands erasing. Put up only in this penell or ink well and stands erasing. Put up only in this penell or ink well and stands erasing well. 50 company tracings from blue prints. Takes either ink or pencil and stands erasing well. Comes only in 20-yard rolls, 39 inches wide. Shipping welght. 3 pounds. Price, per roll. 98c

"Uriuno Satin" Blue Print Paper.
No. 20K4455 Union Satin Blue Print Paper is of medium thickness and especially suited to architects' use. It

BLACK

POPULAR PRICED FIELD, OPERA AND SPORT GLASSES



JOCKEY SIZE FIELD GLASS

Non-Achromatic

17-ligne size with 11/2" objective lenses. Reinforced light weight metal body. Bars, eyecups and mountings in smooth black Japanned finish. Body covered with standard grain leather. Magnifying power 3 diameters. Complete with velvet draw string bag in assorted colors.

No. 57B—Black Japanned tubes.

No. 57N—Nickeled tubes. Price per dozen \$10.80





13-LIGNE OPERA GLASS

Non-Achromatic

I-inch objective lens, all metal body covered with cowhide leather, vici kid finish. Eyecups, bars and mountings black Japanned, nickel plated tubes. Hard rubber center screw focusing. 4-inches width, height opened 21/2 inches, closed 13/4 inches. Complete with draw string velvet bag.

No. 321—Opera Glass.

Price per dozen \$4.50





ALL SPORT FIELD GLASS

Non-Achromatic

17-ligne size with 11/2" objective lenses. All metal body covered with cowhide leather. Bars and mountings black Japanned finish. Reinforced center screw adjustment. Fine medium power and wide view; glass complete with pouch type leatherette case and long cowhide shoulder straps.

No. 42B—Black Japanned tubes.

No. 42N—Nickel Plated tubes.

Price per dozen

\$10.80



MODEL 44 — SPORT AND OPERA GLASS

Tubular shaped body of light weight metal, 33/4 inches wide; 21/2 inches height opened; closed 2 inches. Grained leather covered body. Metal parts and eyecups black Japanned. Complete with velvet draw string bag.

No. 44B—Black Japanned tubes.

No. 44N—Nickel plated tubes.

Price per dozen \$8.40

Reading Glasses and Burning Glasses.



READING GLASSES make it easy to type and are very desirable when looking at pictures. They add greatly to the beauty of photographs, bringing out the details in a wonderful manner. They are also very convenient for examining any small object small object for which a

magnifying magnifying glass is ordinarily used. The smaller sizes have the highest magnifying power, but with the large sizes a greater area can be seen at one time at one time.

AS BURNING GLASSES these instru-very powerful, readily setting fire to glass the more powerful it is as a burning glass.

The larger the

EXTRA QUALITY. We are handling only one grade of reading glasses this season, the best quality we can secure. They are finely made and beautifully finished throughout. The extra powerful lenses are ground from a high quality of colorless optical glass. The rims are extra strong and heavily nickel plated. The handles are of black ebony finish wood.

Catalog No.	Diameter	Shipping Wt.	Price
20K3301	2 in.	5 oz.	\$0.75
20K3302	$2\frac{1}{2}$ in.	7 oz. 10 oz.	.83
20K3303	3 in. 4 in.	10 02. 1 lb.	1.33
20K3304 20K3305	5 in.	1% lbs.	1.98
20.0000			

Conversation Tubes.

While many new and unusual forms of hearing instruments have been introduced within recent years, the familiar conversation tube still remains the most widely used instrument for the aid of hearing. The tubes here listed are extra high grade instrument, made with metallic spiral spring lining, which insures a free opening throughout the tube in any position, and complete flexibility. The mouthpiece and earpiece are made of polished hard rubber. The covering is a good grade of black mohair or silk, as specified. The hard rubber ear piece or tip at the smaller end of the tube fits the ear closely. The person with whom you are talking speaks directly into the large end of the tube, as though talking into a telephone. All our conversation tubes are 40 inches in length over all, and with the exception of the Midget tube. Are tapered from one end to the other, gradually decreasing in diameter from the mouthpiece to the earpiece.

Midget Conversation Tubes.

The small size of these tubes makes them very convenient to carry. For that reason

Midget Conversation Tubes.

The small size of these tubes makes then very convenient to carry. For that reason they are popular even with those who may prefer a larger tube for home use. Length, 40 inches. Diameter of mouthpiece, 2 inches. Diameter of tube throughout, ½6 inch. Weight, only 3½ ounces.

ght, only 3½ ounces. No. 20K3240 Black mohair covered. Shipping weight, 9 ounces. Price...\$1.15 No. 20K3241 Black silk covered. Shipping weight, 9 ounces. Price.... 1.35

Three

Large Conversation Tubes.

Magnifying Glasses.

All of these magnifiers are made by Bausch & Lomb, the leading manufacturers of magnifiers, and practically every kind of optical goods, in this country.

Magnifiers of high power are necessarily made with lenses of small diameters and short focal lengths. This gives a narrow field of view and close working distance. The purchaser must choose between a low power with wide field and short working distance or a high power with narrow field and short working distance. The choice will usually be

Triple Lens Rubber Case

Magnifiers.

Three elenses of different foci mounted in hard pocket cases. The lenses may be used singly or in various combinations, thus affording seven different magnifications. Shipping weight any size, 3 oz.

Shipping weight, any size, 3 oz. Catalog No. Inch Magnifying Power, Times Price 20K3375 %, % and % 4 to 20 85c 20K3377 %, % and 1 4 to 20 95c

Single Lens Rubber Case Magnifiers.



These Magnifiers a remounted in folding pocket cases. Very powerful. Shipping weight, any size, 2 ounces.

Catalog Diam. Magnifying No. Of Lens Power Price 20K3366 34 in. 7 times. 38c 20K3367 75 in. 4 times. 42c 20K3368 1 in. 4 times. 48c

Double Lens Rubber Case Magnifiers.

Two lenses of different f o c i mounted



mounted in rubber oval folding pocket cases. The lenses may be used separately or combined, thus affording three degrees of magnifying power. Shipping weight, any size, 3 oz.

Catalog of Lenses, No. Inch Times

20 K3369 5% and 34 5 to 12 20K3370 % and 1 4 to 9 70c 20K3371 1½ and 1¼ 3½ to 8 85c



Coddington Magnifiers.

Consist of a lass with the e n d s glass with the e n d s glass with the end surfaces. A deep groove is cut adiaphragm. They give extra good definition and a wide field and 5 ounces, according to size.

Catalog Diameter Focal Working Magnifishs.

Diameter Focal Working Magnifishs.

	TT 1.1	C . T	. D	-4: Dooni	mata#
No. 0K3390 0K3391 0K3392 0K3393	Lens, In. 1/2 5/8 13/16 1	Length, In. 1/2 3/4 1 11/2	5/16 9/16 3/4 1 1/8	20 14 10 7	\$1.60 1.65 1.70 1.75
Catalog	Diameter	Focal	Working Distance, In.	Power, Times	Price

Double Lens Tripod



Compound Microscopes. No. 20K3397 This is an Imported Microscope, made in Paris and substantially constructed of brass throughout. It stands 6½ inches high when focused and is provided with swinging mirror for the illumination of transparent objects. It is provided with single lens objective giving a magnifying power of 30 times. Packed in polished wood case, couplete with brass tweezers plete with brass tweezers oplain glass slips and one prepared object. \$2.40

Dr. Fossgate's Vibro-Phones, \$2.50 and \$2.98



Dr. Fossgate's Vibro-Phone is an improved form of conversation tube which is provided with an internal diaphragm for dividing and intensifying the sound wave. We know of no other conversation tube that magnifies sound to such a degree. These Vibro-Phone Conversation Tubes are very finely made throughout, fitted with spiral spring lining, hard rubber earpiece and special metallic mouthpiece finished in black enamel. Length over all, 40 inches. Diameter of tubing at large end, 50 inch, tapering to ½ inch at the smaller end. Diameter of mouthpiece, 2½ inches. Weight, 9 ounces. 9 ounces

No. 20K3246 Vibro-Phone Conversation Tube, covered with black mohair. Shipping weight, 114 pounds. Price. \$2.50
No. 20K3247 Vibro-Phone Conversation Tube, covered with black silk. Shipping weight, 114 pounds. Price. . . \$2.98

Triple Lens Metal Case Magnifiers.

Three lenses, each of the same diameter but of different magnifying powers, mounted in a nickel plated case. By using the lenses singly or in various combinations, seven different magnifications may be obtained. Shipping weight, any size, 4

Catalog of Lenses, Power, No. Inches 120 K3384 14 to 20 20 K3385 14 2½ to 9

Doublet Magnifiers.

These Magnifiers consist of two separate lenses mounted in a nickel plated metal case of the Coddington style. No. 20K338 has folding case like No. 20K3390. No. 20K3387 has straight handle. Very efficient instruments. Shipping weight, either style, 4 ounces.

London Hearing Horns, \$1.35 and \$1.45



The London Horn is made throughout of metal and finished in dead black. The peculiar shape and special design is such that even sounds coming from a distance may be heard and understood. These instruments are small, and while in use may be concealed in the hand, making them particularly desirable for use in public places. It is one of the few he ar in g instruments with hear public speaking, and is used a great deal in church, public meetings, concerts and theaters. The London Hearing Horn is particularly adapted to those who are only moderately deaf, but to those who are very deaf we recommend the conversation tubes.

tubes.

No. 20K3265 London Hearing Horn, small size, black finish, weight, 6 ounces. Price. \$1.35

Acme Health Saving Lung Protecting Respirator



No. 20K3202 No foundryman, thresherman, tobacco worker, miller or farmer should be without one of these respirators. Filters and cleans the air you breathe. Keeps dust, smoke and poisonous gases out of the throat and lungs. Light and comfortable in use, makes breathing no harder. Made of high grade white rubber. Complete with sponge and elastic band to hold it on. Weight, about 6 ounces. Price......65c

Dust Protector, 85 Cents.

No. 20K3201 Against dust it is one of the greatest protectors ever made. For threshers, grain men, millers, farmers and everyone whose duties call him into dusty places. It is a protection to the lungs, to the general health and comfort. The use of this protector is one of the means of preventing consumption. It protects the nose and mouth from the intrusion of dust which is so injurious to the head and lungs. No miller, grain byer, thresher or farmer should be without one. It affords perfect protection with perfect ventilation. Made of fine metal, handsomely nickel platted, bound with sheepskin chamois, adjustable to anyone by strong elastic band, practically indestructible and worth many times its cost as a safeguard to health. Each protector comes packed in a neat box with full instructions for use. Shipping weight, 5 oz. Price... 85e



House Thermometers and

No. 20 K3865

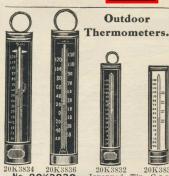
Hygrometer.

No. 20K3856 Cabinet Thermometer. Red spirit. Wood back, birch finish. Black oxidized scale with white figures and lines. Length, 7 inches. Shipping weight, 13 oz.

No. 20K3858 Cabinet Thermometer. Mercury. Oak back. Black oxidized scale with white figures and lines. Length, 8% inches. Shipping wt., 15 oz. Price....69c

No. 20K3866 Extra Silk Wicks for hygrometer. Shipping wt., 1 oz. Each. Oc

No. 20K3856



20K3834 20K3836 Japanned Tin C as se Thermometer. Spirit. Ordinary grade. Hength C as seen than No. 20K3832 Japanned Tin C as seen than No. 20K3832 Japanned Tin C as seen than No. 20K3832 Japanned Tin C as seen than No. 20K3833. Seasoned tubes of standard size. White figures and graduations en black oxidized scale. Length, 7½ inches. Shipping wt., 13 oz. Price. .420 No. 20K3834 Japanned Tin C as seen the control of the con

20K3837 20K3840 m o m - 20K3838 eter. Same as No. 20K3837, but larger, essily read at a distance of 25 feet. Length, 9½ inches. Shipping weight, 12 oncess Price

No. 20K3887 Incubator Ther-nometer. Same quality as No. 0K3885, without legs. Length, 4 nches. Shipping weight, 9 oz. Price. 46c

Jeweled Compass, \$1.08.

No. 20K3885

TELAWAY. Our 45-Cent Special Compass. No. 20 K3790 This Pock-



No. 20K3791 This Compass is made with non-magnetic nickel plated dustproof case, and high grade jewel mounted blued steel needle. Full circle divisions are engraved on a silver finish metal dial. The needle is regulated by turning screw stop at the top of case. Diameter 19/16 inches. Made in U. S. Shipping weight, 4 oz. Price. 85c

Dairy Thermometers.

The glass dairy thermometers which we have mometers which we have always carried were made in Germany. It is impossible for us to get them at this time. The flange dairy thermometers a re taking their place and are giving very satisfactory results. We recommend any of those listed below, particularly No. 20K3881, which is one of the finest instruments made for this purpose. pose.

No. 20K3876 Flange Dairy Thermometer. Spirit. Nickel plated brass scale with stamped figures and lines. Sliding guard for bulb. Length, 8 inches. Shipping weight,

No. 20K3879 Flange Dairy
Thermometer. Mercury tube. Black
oxidized brass scale. Stamped
white figures and lines; easily read.
Sliding guard for bulb. This thermometer is warranted to be correct and carries Taylor's guarante
of accuracy. Length, 10 inches.
Shipping weight, 1 pound.

Price 80c

No. 20K3881 Flange Dairy Thermometer. Mercury tube. Aluminum finish scale, with figures and lines plainly stamped in black. May be read at a glance. The sliding guard for the bulb is of bright polished copper. Fully guaranteed by Taylor, the maker, as well as ourselves. An accurate, reliable and durable instrument. Shipping weight, 1 lb. Price.\$1.15

Storm Glass Thermometers. Storm Glass
No. 20K3852
Storm Glass
and Thermometer. Polished
copper case.
Black oxidized
scale with
white figures.
Good grade
mercury thermometer and
medium size
storm glass.
Very serviceable for outdoor
use. Length, use. Length, 7% inches. Shipping weight, 20K385

No. 20K3852 20K3854

Candy Thermometer.

No. 20K3880 H o m e Candy Making Thermometer.
Mercury. The most important feature of candy making is the boiling of the syrup, one degree more or less makone degree more or less making or spoiling it. Book of latest candy recipes with each thermometer. Copper case. Black figures on silver plated brass scale. Scale range, approximately, 80 degrees to 350 degrees. Length, 8 inches. Shipping weight, 8 inches. Shipping weight,
14 ounces.
Price98c

Oven Thermometer.

No. 20K3882 Good

Shipping weight, 10 ounces.

Price

No. 20K3892

Incubator Hygrometer. A wet bulb thermometer, and the scientification of the scientifica

No. 20K3892 High Grade Compass, \$2.35.

rade Compass, \$2.35.

No. 20(3816 This is a very fine compact compass, very convenient for carrying in pocket, made like a watch with nickel plated dustproof case, spring hinged cover, opened by pressing on stem, best grade jewel mounted English bar needle, automatic stop and heavy beveled glass. The full circle divisions are engraved on a silver finish metal dial. Diameter, 1¾ inches. Shipping weight, 4 ounces.

Price \$2.35



Certified Fever Thermometers

Maker's certificate of accuracy with each one,

A fever thermometer to have any practical value must be accurate and thoroughly dependable. It must register quickly and exactly. It must be easily read. The mercury should shake down readily. These thermometers are certified by the makers and further guaranteed by us to be of this high quality.



No. 20K3896 Fever Thermometer. Same as No. 20K3895, but registers in one minute. Price.....\$1.10



Shipping weight, any fever thermometer, ounces. Incubator Thermometers and Hygrometer.

No. 20K3890 No. 20K3887

Competitor Compass,

60 Cents.

No. 20K3803

silver finish metal dial protected by heavy bevel e d g e glass, s u b s t a ntial

brass case and provided with sliding stop. Diam-eter, 1¾ in.

Price ... 60c

This Pocket Compass is made with

Shpg. wt., 3 oz. Leedawl Compass, 85 Cents.

No. 20K3813 An extra high grade pocket compass, made throughout in the most careful and a accurate way. Strongly made lacquered brass case, 2% inches in diameter with cap cover, extra heavy beveled glass, automatic stop and best grade je wel mounted English bar needle. Bottom of compass is oxidized in black, with white lettering, and the full circle divisions are engraved on a silver finish metal dial raised to level of needle. Shipping weight, 6 ounces.

Fine Jeweled Compass, \$1.80.

The Mirroscope A Wonderful Entertainer for the Entire Family

electric models, to be used with the electric models, to be used with any regular 105 to 115-volt lighting current. A reinforced insulated lamp cord and standard plug furnish the connection with any standard electric light socket. These lamps are standard type. New ones may be purchased, if necessary, from any dealer in electrical supplies. The acetylene machines are equipped with an improved generator and connecting hose, and fitted with acetylene burners of high candle power.

The Mirroscope is the latest improved form of the familiar post card projector, and is a most delightful entertainer for young and old alike. It throws on a screen, greatly enlarged, pictures of any kind, such as post cards, photographs, newspaper or magazine illustrations, your own drawings; or any small flat object, such as butterflies, pressed flowers, leaves, stamps or coins. All colors are brightly reproduced and every detail is clear and distinct. You can give regular entertainments for your friends with a Mirroscope, play games with it, and educate the children as well as amuse them. Suggestions for its many uses go with each machine.

Scientifically Correct.

Scientifically Correct.

Scientifically Correct.

Mirroscopes are designed and built on absolutely scientific principles. The boxes are of metal, die formed, machine made, rigid and substantial. They are well ventilated. All seams are curled to avoid the use of solder.

The arrangement of lights and reflectors is such as to give the greatest possible amount of illumination. Highly polished reflectors concentrate every ray of light upon the object, whence it is reflected through powerful lenses. In every way the results are more satisfying than those given by any similar machine we have ever seen.

The adjustable card holders, with

machine we have ever seen.

The adjustable card holders, with which all but Model I are equipped, will take in objects up to 5% inches wide by 6 inches high. A slight turn of a milled knob on the back shifts the top and bottom guides.



Size of Picture.

The size of the picture thrown on the screen varies from 2 feet in diameter to 7 feet, according to the distance between the instrument and the screen. This may be regulated at will to suit conditions and the objects to be shown.

Electric or Acetylene.

Mirroscopes are made to be used with electric light or with acetylene gas light, are not convertible from electricity to gas, or the reverse. High candle power

Model IV Mirroscope, \$9.00.

Length, 12 inches; width, 13 inches; height, 10 in. Oxidized copper finish. Two direct draft top ventilators and bottom vents.

2 plano-convex lenses, 3½ in. in diameter, mounted in gunmetal plated ad-justable tube.

justable tube.

Illumination: Electric, two high efficiency lamps, with cord and plug; acetylene, high power burners. Two parabolic reflectors, brass, heavily nickel plated and polished, giving strong concentration of the light.

Two adjustable card holders are attached to self closing doors mounted on a double compartment, sliding carriage. While one subject is being shown another may be inserted without detaching the carriage from the instrument.

Shipping weight, 12½ pounds.

No. 20K2866 For electricity, 105-115 volts. Price.

\$9.00

Model V Mirroscope, \$13.50.



We recommend the electric machine wherever it is possible to use it, because it is more convenient than the gas. But the acetylene gives just as good a picture and it takes but a moment to prepare it for use. Insurance regulations prevent us from handling carbide, but this may be obtained at small cost from any dealer in automobile or bicycle accessories.

As a Gift. We believe no gift for birthday or holiday occasion can be more highly appreciated and enjoyed than a Mirro-scope, because it pleases every member of the family; because it is novel and

of the laimity, because it is novel amusual; because it gives a new interest to thousands of things which ordinarily seem, perhaps, commonplace and uninteresting; because it is highly educational, not only for the youngsters, but for their elders as well.



Model I Mirroscope, \$2.25.

Length, 101/2 in.; width, 10 in.; height, 8 in. Matt black enamel finish. Two direct draft top ventilators and bottom vents.

Single plane-convex lens, 3¼ inches in diameter, mounted in matt black enamel adjustable tube.

Illumination: Electric, two carbon lamps, with cord and plug; acetylene, special generator and two burners. Two curved, polished metal reflectors.

Hinged door in back carries rigid card holder, 5½x5½ in. Shipping weight, 5 pounds.

No. 20K2860 For electricity, 105-115 volts.

.....\$2.25 No. 20K2861 For acetylene gas. Price..... 2.25



Model II Mirroscope, \$4.50.

Model II Mirroscope, \$4.50.

Length, 11½ inches; width, 11½ inches; height, 9 inches. Oxidized copper finish. Two direct draft top ventilators and bottom vents.

2 plano-convex lenses, 3½ inches in diameter, mounted in gummetal plated adjustable tube.

Illumination: Electric, two special incandescent lamps, with cord and plug; acetylene, special generator and two burners. Two parabolic reflectors, brass, nickel plated and buffed.

Self closing hinged door in back carries single adjustable card holder.

Shipping weight, 8½ pounds.

Model III Mirroscope, \$0.75.

Length, 12 inches; width, 13 inches; height, 10 inches. Oxidized copper finish. Two direct draft top ventilators and bottom vents.

2 plano-convex lenses, 3½ inches in diameter, mounted in gummetal plated adjustable tube.

Illumination: Electric, two high power lamps, with cord and plug; acetylene, special generator and two powerful burners. Two parabolic reflectors, brass, heavily nickel plated and buffed.

Self closing hinged door in back carries single adjustable card holder.

Shipping weight, 8½ pounds.

Shipping weight, 8½ pounds.

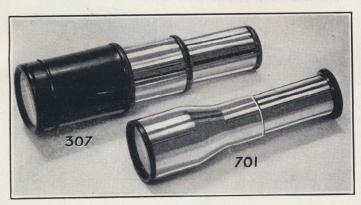
No. 20K2862 For electricity, 105-115 volts.

Price

No. 20K2863 For acetylene gas.



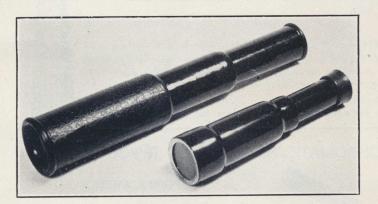
LOW PRICED TELESCOPES



No. 307—Trooper 6X-3 section pocket telescope. Length open $4\frac{1}{2}$ inches, closed $2\frac{1}{2}$ inches. All brass, tubes nickel plated. $1\frac{1}{8}$ inch objective lens.

No. 701—2 section 6X telescope. Heavy brass construction. All chromium plated. I inch highly polished objective lens; lens mounted in screw-on caps.

Price per dozen \$3.00



No. 905

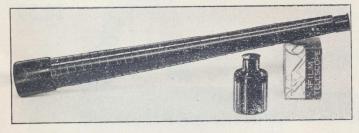
No. 360

No. 905—3 section fibre telescope. Length open $8\frac{1}{4}$ inches, closed 5 inches. Leatherette paper covered, lens in rubber mountings.

Price per dozen \$1.80

No. 360—2 section fibre telescope, length open 51/2 inches, closed 4 inches. I inch objective; lens in metal holders. Lacquered a glossy black.

Price per dozen \$1.50



KING FILM TELESCOPE

18 inches when extended, closed 2 inches. Latest novelty telescope 6X. A practical pocket telescope. I inch objective; lenses set in rubber mounting; body of rolled surplus motion picture film.

No. 907—Film telescope.
Price per dozen

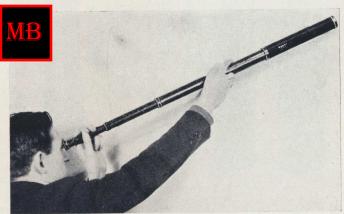
\$1.00



No. 306—26 power Marine Spy Glass. For all outdoor uses. Metal body; black crystalline finish; 14 inches closed; 16 inches opened. 4 polished lenses in nickel plated draw tube; I inch objective lens in turned wood mountings.

Price per dozen

\$10.80



No. 58—5 tube Brass Telescope; outer section heavy fibre, 10X, objective lens— $1\frac{1}{2}$ inches; 5 polished lenses. Tubes finished all brass and all nickel plated.

Price each

\$1.50

No. 906—5 tubes cardboard tube telescope. Over 36 inches length; 10 power; 5 polished lenses; 1½ inch objective in brass mounting; first section covered with leatherette cloth.

Price per dozen

\$7.20

MONOX

A practical monocular for field work and bird study. 19 ligne, 11/2 inch objective lens set in brass mounting. Heavy metal body with leather design. Single draw tube nickel plated. Smooth draw. Eyecups and mountings black Japanned finish. Complete in velvet draw string bag.

No. 308—Monox Price per dozen

\$5.00





Miners' Type SHURLIF Flash Light.

Black fiber case with nickel plated trimmings. Large reflector and good lens, measuring 2½ inches in diameter. Gives excellent light and spreads it over a large area. Two lengths. Shipping weights, 1 pound 9 ounces and 1½ pounds, respectively.

Catalog No.	Diam., In.	Lgth., In.	Bat- tery	Price	Extra Battery No.	Extra Lamp No.
57 K 6568 57 K 6570	1½ 1½	63/4	2-cell 3-cell	1.10	57K6890 57K6805	57K6907 57K6905

Fiber Case SHURLIE Flash Light



pourrub, re	opecer.er,					
Catalog No.	Diam.,	Lgth., In.	Bat- tery	Price	Extra Battery No.	Extra Lamp No.
57 K 65 60 57 K 65 62	1 1/4 1 1/2	5 1/4 6 3/4	2-cell 2-cell	59c 75c	57K6891 57K6890	

Our own brand of high grade tubular flash lights. Non-short circuiting fiber and nickel plated cases. High grade material and workmanship throughout. Satisfaction guaranteed. Besides these we also carry a line of GENUINE EVEREADY DAYLOS, a widely advertised line.

Extra Large Lens SHURLE Flash Light.



No. 57K6590 A large flash light giving a powerful light. Nickel plated polished case, with lens 3 inches in diameter. Case, 1½ inches in diameter by 9 inches long. Triple cell battery. Shipping weight, about 3 bs. Price, complete with Shurlite battery. \$2.25 No. 57K6592 Same as above, but made with black fiber case and nickel plated trimmings. Price, complete with Shurlite battery. \$1.95 For extra batteries and lamps see Nos. 57K6805 and 57K6905 on page 1154.

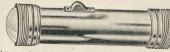
Large Lens SHURIF Flash Light.

Same as No. 5716578 below, but made with extra large reflector and lens measuring 2½ inches in diameter, which spreads the light over a greater area. Two lengths, Shipping weights, 2 pounds and 2½ pounds, respectively.

Catalog No.	Diam., In.	Lgth., In.	Bat- tery	Price	Extra Battery No.	Extra Lamp No.
57 K 6586 57 K 6588 Extra ba	1½ 1½ tteries an	634 9	2-cell 3-cell	1.43	57K6890 57K6805	

Nickel Plated SHURUTE Flash Light.

Non-Short Circuit Tu-bular Light, made with brass case, nickel plated and polished.



and poilshed.

A very hand,

A very hand,

some flash light, much used around motor cars, motor boats

and shops where the hands of the user are likely to be oily

or wet. Three sizes. Shipping weights, 14 ounces, 13/

pounds and 13/2 pounds, respectively.

Catalog No.	Diam., In.	Lgth., In.	Bat- tery	Price	Extra Battery No.	
57 K 6576 57 K 6578 57 K 6580	1½ 1½ 1½	5½ 6¾ 9	2-cell 2-cell 3-cell	.89	57K6891 57K6890	57K 6907
Extra ba	tteries an	d lamp		ige 1154.	57K6805	57K6905

High Grade Electric Lanterns, Vehicle Lights, Flash Lights, Attachments and Clocks Metal Case Flash Lights.

Electric Vehicle Light.

When driving at night see the road ahead and warn those behind. Outfit consists of steel battery case and high grade lamp, having 3½-inch reflector, 1½-inch deep, red lens in rear. Black enamel finish, nickel plated trimmings. Switch eontrols light. Brackets for mounting. Case, 7 x 5% x 2¾ inches, will hold two No. 6 dry cells. Ten feet of wire furnished.

No. 57K66991 Vehicle

batteries. Shipping weight,
5 pounds. Price....\$1.80
No. 57K66781 Vehicle Light. Complete, with two
No. 57K66781 Vehicle Light. Price...\$2.38
Stand-By dry batteries. Slpg. wt., 9 lbs. Price...\$2.38
For extra batteries see No. 57K6986 on page 1154.
For extra lamps see No. 57K6915 on page 1154.



The "Utility" Light.

Black enameled metal case, non-short circuit flash light, nickel plated trimmings. Well made and gives good light. Diameter, 1½ inches; length over all, 6 inches. Large lens measures 2 inches in diameter. Shipping weight, about 1½ pounds.



Pistol Flash Light. Great Gift for Boys.

The "Utility" Light.

No. 57K6690 Strong
metal case, black japanned,
with metal case, black japanned,
with metal case, black japanned,
with metal switch enables you to use
this lantern as flash light, or
if switch is lumred to one side
lantern will give continuous
light. Flat steel strip on one
side of lanterr when inserted
into steel slip turben inserted
you to secure lantern barn
convenient place in barn
outbuilding, or on the side
your wagon or bugsy. Height,
7¼ inches; diameter, 3¼ inches;
diameter of lens, 2 inches.
Shipping weight, 1¾ pounds.
Price, without battery. ... 80c
For extra batteries see No.
57K6086 on page 1154.
For extra lamps see No. 57K6910
on page 1154. No. 57K6681 Looks like a pistol. When contact is made a bright beam of light is thrown from the muzzle. Strongly made of brass, black enamel finish. Barrel is 5½ inches long. Double cell battery. Shipping weight, about 8 oz. Price with Tungsten battery ... 50c

For extra batteries see No. 57K6706 on page 1154. For extra lamps see No. 57K6900 on page 1154.

Tungsten Cap Lights.



Especially adapted for hunters, miners, inspectors and all who need a strong

No. 57K6606

Popular Double Cell Lantern.



No. 57K66931 Popular Double Cell Lantern, complete, thout batteries. Shipping weight, 24 pounds.

No. 57K66941 Popular Double Cell Lantern, complete, ith two dry cells. Shipping weight, 7 pounds.

with two dry cells. Shipping weight, 7 pounds.

Price
Price
For extra batteries see No. 57K6986 on page 1154.

No. 57K6698 Black Enameled
Attachment to use with Lantern No.
57K66931 for testing eggs. A very
convenient device. We have sold
hundreds. Two eggs may be tested
at one time. Shipping weight, about
8 ounces. Price. 10c



Standard Hand Lantern.

No. 57K6696 An extra insurance against fire in your barn and outbuildings. No smoke, no dirt, no wicks to trim. Switch lever turns light on or off. Battery easily replaced. Height, 9½ inches; diameter of base, 5 in. Shipping weight, 5 pounds.

Price, complete with triple cell Tungsten battery.....\$1.75.

For extra batteries see No. 57K6998 on page 1154.

For extra la mp s see No. 57K6998 on page 1154.

For extra batteries see No. 57K6998 on page 1154.

For extra batteries see No. 57K6919 on page 1154.

For extra batteries see No. 57K6919 on page 1154.

For extra lamps see No. 57K6919 on page 1154.

Coat Lapel Light.

Standard Hand Lantern.

Coat Lapel Light.

Coat Lapel I

No. 57K6608 Similar to the
cap light listed at left, but smaller
and does not have a lens. About
3 feet of flexible cord is furnished
which connects to the battery, and
current. General size to carry in pocket. Shipping wt.,
about 1 pound.
Price, complete with three-cell
Tungsten battery.\$1.60
For extra batteries see No.
57K6752 on page 1154.
For extra lamps see No. 57K6909
on page 1154.





Electric Alarm Clock.

No. 57K6077 Good clock on metal base containing ordinary dry cell battery. Alarm set usual way, rings till switched off. Push button at end of long cord lights small electric lamp in front of clock. Copper oxidized finish. Shipping weight, 6 pounds.

Price, complete with battery. 33.64
For extra batteries see No. 57K6986 on page 1154.
For extra lamps see No. 57K6910 on page 1154.

Electric Alarm Clock. No. 57K6078

No. 57 K6078
Compartment to right contains battery. Left side is savings bank with combination lock, Push button for light like clock No. 57 K6077. Folished nickel plated case, 12½ inches wide by 7¾ in. high. Shipping wt., 11 pounds.

RED LABEL

6)110 III

Batteries and amps

Flash Light Batteries.

You will find listed below genuine EVEREADY TUNGSTEN batteries. These are high grade batteries, which are widely advertised. We also call your attention to the Shurlite batteries listed at the bottom of this page. These are our own brand, high grade batteries. Satisfactory service guaranteed. For flash lights see pages 1152 and 1153.

No. 57H6635 No. 57K6668 No. 57K6590 No. 57K6662 No. 57K6570 No. 57K6592 No. 57K6656 No. 57K6592 No. 57K6580 Shipping weight, 12 oz. Price....30c

No. 57K6705 Tungsten Three-Cell Tubular Battery. Diameter, 1% inches; length. 7 inches. Fits the following flash lights:

No. 57K6655 No. 57K6653 No. 57K6646 No. 57K6588

No. 57K6706 Tungsten Double Cell Diameter, % inch; length, 4 inches, Fits Flash Lights: No. 57H6682 No. 57K6681 Shipping weight, 3 oz. Price.....20c

No. 57K6753 Tungsten Three-Cell Tubular Battery. Diameter, 1 inch; length, 7 inches. Fits Flash Light Candle No. 57K6614.
Shipping weight, 9 ounces. Price......34c

EVERFADY TUNGSTEN BATTERY

No. 57K6700 Tungsten Double Cell Battery, % inch thick, 1% inches wide, 1% inches high. Fits the following

flash lights

flash lights:

No. 57K6601
Shipping wt., 2 oz. Price...23c

No. 57K66703 Tungsten Triple
Cell Battery, 34 inch thick, 2½6
inches wide, 2½ inches high. Fits
the following flash lights:

No. 57K6685
No. 57K6628
Shipping weight, 6 ounces. Price.

No. 57K6715 Tungsten Five-Cell Battery.
Diameter, 1% inches; length, 11% inches. Fits
Flash Light No. 57K6657.
Shipping weight, 11% pounds. Price......60c

No. 57K6731 Tungsten Five-Cell Battery, % inches thick, 3 inches high, 6% inches wide. to be used with Cap Light No. 57K6606. Shipping weight, 1% pounds. Price......65c

No. 57K6734 Tungsten Triple Cell Battery, % inches thick, 4 inches wide, 3 inches high. Fits antern No. 57K6696 and Cap Light No. 57K6607. Shipping weight, 1 pound. Price......34c

No. 57K6751 Tungsten Triple Cell Battery, 11/16 inch thick, 2 inches wide, 21/4 inches high. Fits the following flash lights:
No. 57K6617 No. 57K6603

Shipping weight 4 opposes Price.

No. 57K6719 Tungsten Five - Cell Battery, 4 inches thick, 3 inches high, 4 inches wide. Fits

No. 57K6775 Tungsten Three-Cell Battery, 2½ inches thick, 3 inches high, 2¾ inches wide. Fits Flash Light No. 57K6676. Shipping weight, about 2 pounds. Price...40c

No. 57K6093 Stand-By Dry Battery. Fits the following lanterns, flash lights, battery attachments and clocks:

No. 57K6693 No. 57K6678 No. 57H6688 No. 57K6694 No. 57H6683 No. 57H6684 No. 57K6699 No. 57H6689 No. 57K6690 No. 57K6077 No. 57K6078 Shipping weight, 2¾ pounds. Price, each...31c No. 57H6688 No. 57H6684 No. 57K6690

Flash Light Lamps.

We offer genuine MAZDA Flash Light Lamps, which are very high grade. Mazda lamps give a white light and consume far less current than a carbon lamp, giving a greater amount of light from one battery. If your flash light does not work, do not lay all the blame on the battery, as the lamp may be broken or burned out. The actual candle power of the lamp, as stated below, is greatly magnified by the reflector and lens when used in the flash light. It is advisable to have an extra lamp available.

No. 57K6900 Mazda Lamp, 5 volts. %-candle power. Fits 2.5 volts, %-candle power. the following flash lights: No. 57 K6601 No. 57 K6615 No. 57 K6681 No. 57H6682 Shipping weight, 2 ounces.

No. 57K6902 Mazda Lamp, 5.8 volts, 1½-candle power. Fits the following flash lights: No. 57K6603 No. 57K6617 Price. | Oc

No. 57K6904 Mazda Lamp, 3.8 volts, 1½-candle power. Fits the following flash lights: No. 57K6628 No. 57K6685 Shipping weight, 2 ounces. Price. . . . | Oc No. 57 K690 5 Mazda Lamp, 3.8 volts, 1½
candle power. Fits the following flash lights:
No. 57 K6830 No. 57 K6662 No. 57 K6650
No. 57 K6590 No. 57 K6662 No. 57 K6650
No. 57 K656 No. 57 K6590 No. 57 K6580
No. 57 K6570 No. 57 K6580
No. 57 K6580 No. 57 K6580
No. 57 K6580 No. 57 K6580
No. 57 K6580 No. 57 K6580

No. 57K6909 Mazda Lamp, 4 volts, 1½-candle power. Fits the following flash lights and lantern:

lantern:
 No. 57 K6607
 No. 57 K6608
 No. 57 K6608
 No. 57 K6696
 Price......10c



No. 57K6910 Mazda Lamp, 1½ volts, ¾-candle power. Fits the following flash lights and clocks.

No. 57 K6077 No. 57 K6078 No. 57 H6689 No. 57 F6692 No. 57H6688 No. 57H6683 No. 57 H 6684 No. 57 K6690

Shipping wt., 2 oz. Price... 1 Oc

No. 57K6915 Mazda Lamp, 3 volts. For lantern and vehicle light:

No. 57K66931 No. 57K66991 No. 57K66781 Shipping weight, 3 ounces. 1 Oc

No. 57K6916 Mazda Lamp, 6.2 volts. Fits untern and flash light: No. 57 K6679 No. 57 K6606 g weight, 3 ounces.

No. 57K6917 Mazda Lamp, 4 volts, 1½-candle power. Fits Tungsten Candle No. 57K6614. Shipping weight, 3 ounces. Price......35c .35c

Standard Dry Cells, Multiple, Wet and Gravity Batteries.

Red Label Dry Battery.

Our Red Label Dry Battery is suitable for telephone use, door bell, annunciators, burglar alarms, medical batteries, small motors or other similar work. It is made with high internal resistance and low amperage, averaging from 10 to 13 amperes, Owing to its high internal resistance it has unusual lasting qualities. Size, 2½ inches diameter by 6 inches high.

No. 57K6086

Price, each. (Shipping wt., 2½ lbs.)...\$ 0.29
Per dozen.....(Shipping wt., 32½ lbs.)...\$ 3.36
Per barrel (125 batteries). (Shpg. wt., 265 lbs.) 32.38

Stand-By Dry Battery. STAND-BY DRY CELL

A battery of medium internal resistance, Suitable for all work to which the Red Label Dry Battery is adapted and may also be used for ignition purposes, although for this work it is not equal to the Stand-By "Special" described below. The amperage of the Stand-By battery averages from 16 to 20 amperes. Size, 2½ inches in diameter, 6 inches high.

No. 57K6093

Price, each..... (Shipping wt., 2¾ lbs.).....\$ 0.31 Per barrel (125 batteries). (Shpg. wt., 300 lbs.) 37.50

Stand-By "Special" Dry Batteries.

Stand-By "Special" is a dry battery of low internal resistance and is designed especially low internal resistance and is des

amperes. Size, In. Shipping Wt., Lbs. Bach Special Prices in Barrel Lots. Quantity Size, In. Barrel Lots. Quantity Size, In. Barrel Wt., Lbs. Barrel No. 57K6094 3½x8 50 315 43.25

Stand-By Multiple Batteries.



For Automobile or Stationary Engine Ignition.

ATIMAL CARBON CO

No. 57K6089 Stand-By Multiple Battery, consisting of fif-teen cells, connected five in series, three multiples. Suitable for any ignition system now using five cells in series. Oimensions over all: 8% inches wide, 14% inches long, 9% inches high. Net weight, 42 pounds. Price. 36.50

Gravity Battery.

The Gravity Battery is a closed circuit battery used almost entirely for telegraph work. The 5x7 battery requires 1½ pounds bluvitricl for a charge, the 6x8 battery requires 3 pounds. High grade batteries, satisfactory service guaranteed.

service guaranteed.

No. 57K6060 Gravity Battery. Size, 5x7 inches, consisting of jar, copper and zinc. Shipping weight, 6 pounds. Price, without blue vitriol.

No. 57K6061 Gravity Battery. Size, 6x8 inches, consisting of jar, copper and zinc. Shipping weight, 9% pounds. Price, without blue vitriol. \$1.30 NOTE—Blue Vitriol is not furnished with these batteries. It is always sold extra. See statement above regarding quantity of blue vitriol required.

blue vitriol required.

No. 57K6062 Battery Jar, glass, 5x7 in. Shpg. wt., 4 lbs. 30c
No. 57K6063 Battery Jar, glass, 6x8 in. Shpg. wt., 6½ lbs. 32c
No. 57K6064 Zinc, for 5x7 battery. Shpg. wt., 2½ lbs., 78c
No. 57K6065 Zinc, for 6x8 battery. Shpg. wt., 4½ lbs. \$1.10
No. 57K6066 Copper, for 5x7 battery. Shpg. wt., 4 oz... 16c
No. 57K6067 Copper, for 6x8 battery. Shpg. wt., 4 oz... 18c
No. 57K6068 Blue Vitriol. Price subject to market changes
Shpg. wt. of 1 pound, 1½ lbs. (Not mailable.) Per lb....20c

SHURLITE FLASH LIGHT BATTERIES.

.....100



From Chicago to

Express, per 100 Pounds.

EXPRESS RATES

Tables showing the Express Rates per 100 pounds on goods shipped from Chicago to a number of cities in each state, these cities being used as a basis for figuring rates for all the towns in the immediate vicinity of each city. Your express agent will tell you the exact rates from Chicago to your home town and give you full information in reference to their delivery service. If there is no express agent at your shipping point you must send money to prepay express charges. If there is an agent at your shipping the propagation of the propagat can pay the express charges when shipment reaches you. It is necessary to prepay only when there is no agent at your station.

HOW TO FIGURE EXPRESS CHARGES First estimate the you are ordering; then find the rate per 100 pounds by express to your nearest city in the Table of Rates below; then consult the Scale of Express Charges, following the line for the weight of your goods to the

Expr

From Chicago to

From Chicago to

column headed by your express rate per 100 pounds, and the amount shown will be the express charges.

If the exact rate per 100 pounds is not shown in any of the headings of this scale, take the next highest rate shown and the express charges will be about the same as to your town.

From Chicago to

EXPRESS RATES PER 100 POUNDS TO CITIES IN EACH STATE.

From Chicago to

Express. per 100 Pounds.

										m 2 r				Mer				mgg
ALABAMA— Birmingham Brewton Mobile	2.85	Atla Mac	on		2.8	85 MAS	RYLAND- altimore SSACHUS	ETTS-		\$2.25	Trenton	City		\$2.40 2.40	Aberde Bellefo	urche.		3.80
Montgomery	2.60	Way	veross .		3.1	MIC	HIGAN-			2.50	Gallup . Santa F	e		6.25 4.75	Watert	OWII	• • • • • • • • • • • • • • • • • • • •	2.45 2.75
Phoenix Tucson	8.00 7.15	Poc	atemo		7.8	5 D B	essemer etroit	ida		2.25 1.25 1.00	NEW YOR	K—		6.50 2.30	Jackson Knoxvi	lle		1.95 2.40
ARKANSAS— Arkansas City	2.50	Cair	0		1.5	0 MIN	NESOTA	<u> </u>		1.60	New Yor	k		1.80 2.40	Nashvil TEXAS-	lle		2.10 1.75
Fort Smith	2.90 2.90	Jolie Rock Spri	k Island.		10	0 Cr	ookston			2.65	NORTH CA	ROLINA	-	2.00	El Pas Fort V	o Vorth		5.95 3.85
Little Rock Texarkana	2.65 3.15	Evan	NA-		1.0	Gi M	aluth and Rap inneapolis	ids	• • • • • •	2.40 2.75 2.00	Asheville Raleigh Wilmingt			$\begin{bmatrix} 2.60 \\ 2.95 \\ 3.20 \end{bmatrix}$	Housto UTAH— Marysv		• • • • • • • • • • • • • • • • • • • •	4.10 7.30
Bakersfield	8.90	Indi	Wayne.	• • • • • • • • • • • • • • • • • • • •	1.0	MIS	SISSIPPI			1.70	NORTH D	KOTA-		3.65	Salt L	ake City.		6.60
Los Angeles	8.90 9.30	IOWA	Bend.			o Ja	attiesburg ckson atchez			2.75 2.65 2.90	Grand F	orks		2.90 3.25			•••••	2.50 2.45
Denver Durango	4.20 5.90	Des Fort	Moines. Dodge.		1.9	UMIS	SOURI— ansas Ci Louis			2.10	Williston			3.80 4.10				2.60 2.60
Grand Junction Julesburg	5.50 3.70	Dod	AS— ge City		3.5	SI	ringfield			1.40 2.25	Cincinnat Columbus	i		1.25 1.50	Seattle	GION-		8.60 7.75
CONNECTICUT—	5.00	Kan	sas City	7	$\begin{array}{c} \dots \\ 2.1 \end{array}$	5 Bi	llings asgow			5.40 4.75	OKLAHON	A-		1.15	Charles	ton		1.85
Hartford DELAWARE—	2.55	KENT	lick v—		3.1		elena			5.55 6.55 6.80	Oklahoma OREGON— Portland			3.45 8.85	Elkins			$\frac{2.20}{1.60}$
Dover	2.30	Hopi	kfort		1.4	0 NEB	RASKA-			4.70	PENNSYL' Harrisbur	ANIA-		2.15	La Cro	sse		2.25 1.35
COLUMBIA— Washington FLORIDA—	2.25	More	Sville		1.2	0 No	rth Platt	e		2.45 3.40 2.25	Philadelp Pittsburg RHODE IS	nia		2.30 1.70	Madisor	tte		1.15 1.75
Jacksonville	3.45 4.55	Lake New	Charles Orleans		3.1	5 NFV	ADA_			8.15	Providence SOUTH CA	ROLINA		2.55	Cheveni	ne		.90 4.15
Pensacola Tallahassee Tampa	3.10 3.20 4.00	MAIN! Bang	veport .		3.2	5 Ca	stin rson City HAMPS	HIRE-		8.65 2.55	Greenville	n		3.40 2.95	Green .	River		5.80 5.35
Tampa							SES BA			-	Sumter RATE I			UNDS		n	••••••	4.70
Rate per 100 lbs S CHARGES ON	\$0.60	\$0.75	\$0.90	\$1.00	\$1.15	\$1.25	\$1.35	\$1.40	\$1.50	\$1.6	0 \$1.70	\$1.75	\$1.80	\$1.85	\$1.95	\$2.00	\$2.10	\$2.15
Package of 1 lb Package of 2 lbs	.26	.26	.26	.26	.26	.26	.26	.26	.26	.2	6 .26	.26	.27	.27	.27	.27	.27	.27
Package of 5 lbs Package of 10 lbs	.27	.26 .27 .30 .32	.26 .28 .31	.26 .29 .32	.26 .27 .29 .34	.27 .30 .35	.27 .30 .36	.26 .27 .31	.27 .31 .37	.3		.28	.27 .28 .33	.28	.28	.28	.29	.29
Package of 15 lbs Package of 20 lbs	.30	.32	.35	36 40	.38	.40 .45	.30 .41 .47	.36 .42 .48	.50	.3 .4 .5	5 .47	.40 .47 .55	.40 .48 .56	.41 .49 .57	.42 .50 .59	.42 .51 .60	.53	.53
Package of 25 lbs Package of 30 lbs	.34	.37	.41	.44	.47	.50	.52	.54 .59	.56	.5	9 .61	.62	.64	.65	.67	.69	.62	.63
Package of 35 lbs Package of 40 lbs	.37	.42	.48	.51	.56	.60	.63	.65 .71	.69 .75	7.7	2 .76	.77	.79 .87	.81	.84	.86	.80 .90 .99	.82 .91 1.01
Rate per 100 lbs	.41	.47 \$2.25	\$2.30	\$2.40	\$2.45 ₁	\$2.50	\$2.55	\$2.60	\$2.65	\$2.73	.90	\$2.90	\$2.95	\$3.05	\$3.10	\$3.15	1.08	1.10
CHARGES ON Package of 1 lb	.27																\$3.20	\$3.25
Package of 2 lbs Package of 5 lbs	.29	.27 .29 .35	.27 .29 .35	.27 .29 .36	.27 .29 .36	.27 .29 .36	.27 .30 .36	.27 .30 .37	.27 .30 .37	.30	.30	.28	.28	.28	.28	.28	.28	.28
Package of 10 lbs Package of 15 lbs	.44	.45	.45	.46	.47	.47 .59	.48	.48	.49	.50	.51	.38 .51 .65	.38 .52 .65	.39 .53 .67	.39 .53 .68	.39 .54 .68	.40 .54 .69	.55
Package of 20 lbs	.64	.65	.66	.68	.69	.70 .81	.71 .82	.72 .84	.73 .85	.78	.77	.78 .91	.65 .79 .92	.81 .95	.82	.83 .97	.84	.70 .85 1.00
Package of 25 lbs Package of 30 lbs Package of 35 lbs	.83	.85 .95	.86	1.00	.91 1.02	.92 1.04	1.05	.95 1.07	.97 1.09	1.00	1.03	1.04 1.18	1.06 1.19	1.09 1.23	$1.10 \\ 1.25$	1.12 1.26	1.13 1.28	1.15 1.30
Package of 40 lbs	1.03 1.13	1.05 1.15	1.07 1.17	$\begin{array}{c c} 1.11 \\ 1.22 \end{array}$	1.13 1.24	$\frac{1.15}{1.26}$	1.17 1.28	1.19	1.21 1.33	1.25	1.29	1.31 1.44	1.33 1.46	1.37 1.51	1.39 1.53	1.41 1.55	1.43 1.58	1.45 1.60
Rate per 100 lbs \$ CHARGES ON	3.40 \$	33.45	\$3.55	\$3.65	\$3,70	\$3.80	\$3.85	\$4.10	\$4.15	\$4.20		\$4.70	\$4.75	\$5.00	\$5.35	\$5.50	\$5.80	\$5.90
Package of 1 lb	.28	.28	.28	.28	.28 .32 .42	.29	.29	.29	.29	.29	.29	.29 .34	.29 .34	.30	.30	.30	.31	.31
Package of 2 lbs Package of 5 lbs Package of 10 lbs	.56	.57	.58	.52	.42	.32 .43 .60	.32 .43 .61	.63	.64 .64	.33 .45 .64	.46	.69	.34 .47 .70	.34 .49 .72	.35 .50	.35 .51	.36	.53
Package of 15 lbs	.72	.73	.74	.76	.59 .77 .94	.78	.79	.83	.83	.84	.89	.92 1.14	.92	.96	.76 1.01	1.04 1.20	1.08	1.10
	1.04	1.05 1.21	1.07 1.24	1.10 1.27	1.11 1.28	1.14 1.31	1.15	1.02 1.21 1.40	1.03 1.22 1.42	1.04 1.24 1.43	1.11 1.32 1.54	1.36 1.58	1.15 1.37 1.60	1.20 1.44 1.67	1.27 1.52 1.78	1.30 1.56 1.82	1.36 1.64 1.91	1.38 1.66 1.94
Package of 35 lbs	1.35	1.37 1.53	$\begin{bmatrix} 1.40 \\ 1.57 \end{bmatrix}$	1.44	1.46 1.63	1.49 1.67	1.51	1.60	1.61	1.63	1.75	1.81 2.03	1.82	1.91	1.78 2.03 2.29 2.54	2.09 2.35	2.19 2.47	2.23 2.51
	1.67	1.69	\$6.50	1.78	1.80	\$6.80	\$7.00	1.98 \$7.15	1.81 2.00 \$7.30	1.83 2.03		\$8.00	\$8.15	2.15 2.39 \$8.60		\$8.85	2.75	2.79
CHARGES ON Package of 1 lb										\$7.75					\$8.65		\$8.90	\$9.30
Package of 2 lbs Package of 5 lbs	.31 .36 .53	.31 .37 .55	.31 .37 .56	.31 .38 .56	.31 .38 .57	.32 .38 .58	.32 .38 .59	.32 .39 .59	.32	.32	.40	.33	.33	.33 .42 .67	.33	.34	.34	.34 .43 .70
Package of 10 lbs	.82	.85 1.15	.87 1.19	.88 1.19	.88 1.20	.98 .90 1.23	.99 .92 1.26	.94 1.28	.60 .95 1.31	1.00 1.37	1.01	.64 1.02 1.41	.64 1.04 1.43	1.08 1.50	.67 1.09 1.51	.68 1.11 1.54	.68 1.11 1.55	1.15
Package of 20 lbs	1.39	1.45 1.75	1.50 1.81	1.51	1.52 1.84	1.56	1.60 1.94	1.63 1.97	1.66 2.01	$\frac{1.5}{2.12}$	1.77	1.80 2.19	1.83 2.22	1.92 2.34	1.93 2.35	1.94 1.97 2.40	1.55 1.98 2.41	1.61 2.06 2.51
Package of 30 lbs	$\begin{bmatrix} 1.96 \\ 2.24 \end{bmatrix}$	2.05 2.35	2.12	2.14	2.15	2.21	2.27	2.32	$\begin{bmatrix} 2.36 \\ 2.72 \end{bmatrix}$	$\frac{2.12}{2.50}$	2.53	2.37	2.62 3.01	2.75 3.17	2:77 3.19	2.83 3.26	2.84 3.28	2.96 3.42
Package of 40 lbs	2.53	2.65 2.95	2.75	2.14 2.45 2.77 3.08	2.79 3.11	1.89 2.21 2.54 2.87 3.20	2.95	3.01	3.07 3.42	3.25 3.62	3.29 3.67	3.35 3.74	3.41 3.80	3.59	3.61 4.03	3.69 4.12	3.71 4.14	.43 .70 1.15 1.61 2.06 2.51 2.96 3.42 3.87 4.32

FREIGHT RAT

Tables showing the freight rates per 100 pounds on goods shipped from Chicago to a number of cities in each state, these cities being used by the railroads as a basis for figuring rates for all the towns in the immediate vicinity of each city.

RAILROAD COMPANIES FIGURE FREIGHT RATES WITH THE LARGER CITIES IN EACH STATE AS A BASIS. All other towns located in the same part of the state as any one of these cities take practically the same rate or only a few cents per 100 pounds more or less than the rate to the larger city.

Please consult the following Table of Rates, considering it in connection with the Please consult the following Table of Rates, considering it in connection with the resident of merchandise, and you will be able to determine easily, almost exactly what the freight will amount to on any goods. If your station is not named in these tables, the rate to your station will be very nearly the same as the rate to the nearest city named, or you may ask your freight agent.

HOW TO SAVE ON FREIGHT CHARGES. In having goods shipped by freight, it pays you to make up an order of 100 pounds or more, because railroad companies usually charge as much for a shipment weighing less than 100 pounds as they do for one weighing 100 pounds.

If there is no freight agent at your shipping point you must send money to prepay freight charges. If there is an agent you can pay the freight charges when shipment reaches you. It is necessary to prepay only when there is no agent at your station.

WHEN YOU LEAVE THE METHOD OF SHIPMENT TO US we always choose the cheapest method.

CLASSIFICATION OF MERCHANDISE FOR FREIGHT SHIPMENTS.

You will notice in the Freight Rate Tables below there are four different rates quoted to each city, first class, second class, third class and fourth class. This is because the railroad companies base their rates on the kind of merchandise to be carried. In order, therefore, to give you an idea as to the rate which any kind of merchandise will take to your nearest city, we tell you here the kind of merchandise which takes the different classes of rates.

FOUR TIMES FIRST CLASS

FOUR TIMES FIRST CLASS
Row Boats
THREE TIMES FIRST
CLASS
Drums (musical)
Reed Chairs (East and West)
DOUBLE FIRST CLASS
Buggies (54-in. crates) (East)
Cameras (West)
Dress Forms
Reed Chairs (South)
Road Carts
Sleds, Children's (West)
1½ TIMES FIRST CLASS
Baby Carriages (East and
West)
Bleycles

West)
Bluggles (34-in. crates)
(East and West)
Buggles (54-in. crates)
(West and South)
Desks (East)
Milk Cans (East)
Motorcycles
Sleds, Children's (East and
South)
Trunks (East)

FIRST CLASS
Ammunition (South)
Automobile Repairs
Awnings
Baby Carriages (South)
Bathtubs
Bob Sleds
Books
Boots and Shoes
Brooders
Buggles (34-in coates) (South) Brooders Buggies (34-in. crates) (South) Cameras (East and South) Camera Supplies Camera Supplies
Chinaware
Cigars
Clocks
Clothing
Concrete Block Machines (East)
Couches Curtains Desks (West and South) Drugs
Dry Goods
Electrical Goods
Fire Arms
Forges (West)

FIRST CLASS
Gasoline Engines (West)
Graphophones
Harness and Saddlery
Horse Clipping Machines
(South)
Ladders (West and South)
Ladded Gun Shells (South)
Marting

Loaded Gun Sneils (South)
Matting
Milk Cans (West and South)
Morris Chairs
Notions
Oil Stoves (East and West)
Pianos and Organs
Pictures
Rubber Goods
Rugs
Sewing Machines (West and
East)
Sporting Goods Sporting Goods
Stationery Tinware Toys Trunks (West and South) Valises

FIRST CLASS
Warons, Children's (East and South)
South Wagons, Farm (East and West)
Wagons, Wheels (East and West)
Washing Machines
SECOND CLASS
Ammunition (West and East)
Animal Traps
Bedsteads
Concrete Block Machines (West)
Crockery (West)
Extension Tables
Ext THIRD CLASS
Iron Pots and Kettles
Iron Safes
Oils (West and South)
Paints (East)
Stoves and Ranges (Cast Iron)
Stump Pullers (East R25)
Tools (East)
Vises (East R26)
Windmills (East R25)
Wire Fencing (East R26) FOURTH CLASS

Anvils
Concrete Block Machines
(South)
Crockery (South)
Grindstones with Frames
(South)
Paints (West and South)
Poultry Food
Prepared Roofing (East R26)
Steel Roofing
Steel Sidings
Stock Food
Wagons, Farm (South)
Wagon Wheels (South)
Wire, Plain or Barbed

HERE ARE THE RATES PER 100 POUNDS TO DIFFERENT TOWNS IN EACH STATE.

HERE ARE THE RATES PER 100 POUNDS TO DIFFERENT TOWNS IN THE WAS ASSESSED.														
From Chicago to		0		Freight, per 100 Pounds.	From Chicago to	Ist Class Freight, per 100 Pounds.	2d Class Freight, per 100 Pounds.	3d Class Freight, per 100 Pounds.	4th Class Freight, per 100 Pounds.	From Chicago to		Freight, per	ght,	4th Cla Freight, 1 100 Poun
ALABAMA— Birmingham Brewton Mobile Montgomery				-	KENTUCKY— Frankfort	\$0.63 .80 .43 .81	\$0.54 .65 .37 .68	\$0.42 .55 .27 .53	\$0.32 .46 .19 .37	Bismarck Fargo Grand Forks Minot Williston	\$1.60 1.17 1.24 1.75 1.99	\$1.35 .99 1.04 1.49 1.66	\$1.07 .77 .83 1.20 1.36	\$0.76 .54 .58 .87 .99
ARIZONA— Phoenix Tucson	2.90 2.90	2.51 2.51	2.09 2.09	1.75 1.75	Lake Charles New Orleans Shreveport	1.56 1.10 1.45	1.32 .90 1.22	1.07 .75 1.00	.92 .58 .85	OHIO— Cincinnati Columbus Toledo	.42 .43 .39	.36 .37 .34	.26 .27 .25	.18 .19 .17
ARKANSAS— Arkansas City Fort Smith Hot Springs	1.20 1.30 1.55	1.01 1.11 1.32	.77 .87 1.05	.59 .69 .81	MAINE— Bangor MARYLAND— Baltimore	.97	.85	.65 .57	.46	OKLAHOMA— Oklahoma City OREGON—	1.50 3.40	1.29 2.95	1.07 2.45	.87
Little Rock Texarkana	1.20 1.47	1.01	.77 1.08 2.45	.59 .96	MASSACHUSETTS— Boston MICHIGAN— Bessemer	.97	.85 .55	.65	.46	Portland PENNSYLVANIA— Harrisburg Philadelphia	.87	.76 .77	.57 .58 .32	.39 .40 .22
Bakersfield Los Angeles San Francisco	3.40 3.40 3.40		2.45 2.45 2.45	2.07 2.07 2.07	Detroit	.39 .35 .52	.34 .30 .44	.25 .23 .34		Pittsburgh	97	.41	.65	.46
COLORADO— Denver Durango Grand Junction Julesburg	1.80 3.20 2.65 1.68	2.70 2.23 1.41	1.10 2.15 1.85 1.07 1.85	.85 1.60 1.49 .85 1.49	MINNESOTA— Aitkin Crookston Duluth Grand Rapids	.93 1.19 .65 .98	.55	.66	.55 .28 .44	Charleston Greenville Sumter SOUTH DAKOTA—	No. of the last of	1.24	.97 1.06 1.06	.85 .83 .83
Leadville CONNECTICUT— Hartford DELAWARE—	2.65	.85	.65	.46	Minneapolis Winona MISSISSIPPI— Hattiesburg	1.29 1.29	1.09	.33	.23	Aberdeen Bellefourche Sioux Falls Watertown	83	1.62	.67 1.35 .47 .64	1.10 .34 .45
Dover	.01	.76	.61	.43	Jackson Natchez MISSOURI— Kansas City	1.10	.90	.75	5 .58	TENNESSEE— Jackson Knoxville Memphis	1.06	.95	.55	.58 .62 .43 .43
Jacksonville	1.10 1.85	1.97 .90 1.57	.97 1.74 .75 1.35 1.31	.85 1.55 .58 1.08 1.17	St. Louis Springfield MONTANA— Billings Glasgow	2.5	$\begin{bmatrix} 2 & .72 \\ 0 & 2.09 \end{bmatrix}$	2 .50 2 1.69 2 1.55	1.36	Nashville TEXAS— El Paso Fort Worth	2.20	1.86	1.52 1.16	1.30 1.06
Tampa	1.4	2 1.22 2 1.22	1.03 1.03	.83 .83 .85	Havre Helena Kalispell Miles City.	$\begin{array}{c c} 2.5 \\ 2.6 \\ 2.7 \end{array}$	$\begin{bmatrix} 5 & 2.20 \\ 5 & 2.3 \end{bmatrix}$	$\begin{bmatrix} 1.8 \\ 5 \end{bmatrix}$	$\begin{bmatrix} 1.49 \\ 3 \end{bmatrix}$	Houston UTAH— Marysvale Salt Lake City	3.13	5 2.71	2.31	1.93
Savannah Waycross IDAHO— Boise	2.8	$\begin{bmatrix} 0 & 1.46 \\ 1 & 2.41 \end{bmatrix}$	2.00	1.07	NEBRASKA— Lincoln North Platte	. 1.4	6 1.3	0 .9	9 .78	VERMONT— Montpelier	99	.86	65	.45
Pocatello	4	7 .38	.31	.24	NEVADA— Austin Carson City NEW HAMPSHIRE—	3.6	5 2.7		2.00	Richmond	1.03	$\begin{bmatrix} 3 \\ 0 \end{bmatrix} \begin{bmatrix} .86 \\ 2.95 \end{bmatrix}$	6 .67 5 2.45	.48 2.07
Rock Island Springfield INDIANA— Evansville	3	2 .36	.26	.18	Concord		96 .8	35 .0	35 .46 36 .48 30 .49	Spokane	· 2.9 · 4 · .7	7 .4:	3 .48	2 .22 .34
Fort Wayne Indianapolis Richmond South Bend	3	3 .28	3 .24	1 .15	NEW MEXICO— Gallup Santa Fe	2.5	90 2.5 20 1.8	51 2.6 86 1.	09 1.7 50 1.2	Wheeling	4	$\begin{bmatrix} 7 & .4 \\ 5 & .5 \\ 0 & .4 \end{bmatrix}$	5 .4	4 .28 3 .23
Des Moines		30 .48 35 .59 30 .6	2 .39	9 .29	Buffalo		87 .	76	58 .4 32 .2 60 .4	Madison	3	39 .3 25 .2	$\begin{vmatrix} 4 & .2 \\ .2 & .2 \\ .0 & .1 \end{vmatrix}$	9 .23 .14
KANSAS— Dodge City Great Bend Kansas City	1.0	32 1.3 45 1.2 80 .6	$\begin{bmatrix} 2 & .9 \\ 5 & .4 \end{bmatrix}$	$\begin{bmatrix} 5 & .77 \\ 5 & .32 \end{bmatrix}$		1.	72 29 1.	63 .	48 .3 97 .7	Cheyenne Green River Lander Showiden	2.8	$\begin{array}{c c} 55 & 2.1 \\ 80 & 2.3 \end{array}$	5 1.7 3 1.8	8 1.43 5 1.48
Topeka	1.	00 .8 30 1.1		9 .43	Raleigh	1.	17 .	98	.75 .5	Sheridan		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		by I

Rates for Parcel Post Shipments

MB

Your postmaster will tell you the parcel post zone in which your postoffice is located, measuring from Chicago

All merchandise shipped by mail takes parcel post rates. Packages up to 4 ounces in weight are carried at the rate of 1 cent an ounce, regardless of distance. Packages over 4 ounces are charged for by the pound. The rate per pound varies according to the distance, which is measured by the Government zone system, each zone covering a certain number

of miles from point of shipment. Distances and rates are shown in the table below. Packages carried by parcel post are handled just like any other mail matter. They are delivered to your box by your rural mail carrier if you live on a rural route, or delivered to your door if you live in a city where there is carrier service, or delivered to your local postoffice if you live where there is no carrier service.

RATE TABLE FOR PARCEL POST SHIPMENTS

	NATE TABLE	
This table shows the charges when shipping by parcel pest, according to the weight of the package and according to distance by zones.	For Shipments From Our Store in Chicago to Cus- tomers Within Chicago	Not Over 150 Miles From CHICAGO
Weight of Package	Charges Required	Charges Required
		5c
Over 4 oz. up to 1 lb Over 1 lb. up to 2 lbs	5c	6c
Over 1 lb. up to 2 lbs Over 2 lbs. up to 3 lbs	6c 6c	76
Over 3 lbs. up to 4 lbs	7c	8c
Over 4 lbs. up to 5 lbs	7c	9c
Over 5 lbs. up to 6 lbs	8c 8c	10c
Over 6 lbs. up to 7 lbs	8c	11c
Over 7 lbs. up to 8 lbs	9c	12c
Over 8 lbs. up to 9 lbs	9c	13c
Over 9 lbs. up to 10 lbs	10c	14c
Over 10 lbs. up to 11 lbs	10c	15c
Over 11 lbs. up to 12 lbs	11c	16c
Over 12 lbs. up to 13 lbs	11c	17c
Over 13 lbs. up to 14 lbs	12c	18c
Over 14 lbs. up to 15 lbs	12c	19c
Over 15 lbs. up to 16 lbs	13c	20c
Over 16 ibs. up to 17 lbs	13c	2lc
Over 17 lbs. up to 18 lbs	14c	22c
Over 18 lbs. up to 19 lbs	14c	23c
Over 19 lbs. up to 20 lbs	15c	24c
Over 20 lbs. up to 21 lbs	15c	25c
Over 21 lbs. up to 22 lbs	16c	26c 27c
Over 22 lbs. up to 23 lbs	16c	28c
Over 23 lbs. up to 24 lbs	17c	29c
Over 24 lbs. up to 25 lbs	17c 18c	30c
Over 25 lbs. up to 26 lbs	18c	31c
Over 26 lbs. up to 27 lbs Over 27 lbs. up to 28 lbs	19c	32c
Over 28 lbs. up to 29 lbs	19c	33c
Over 29 lbs. up to 30 lbs	20c	34c
Over 30 lbs. up to 31 lbs	20c	35c
Over 31 lbs. up to 32 lbs	21c	36c
Over 32 lbs. up to 33 lbs	21c	37c
Over 33 lbs. up to 34 lbs	22c	38c
Over 34 lbs. up to 35 lbs	22c	39c
Over 35 lbs. up to 36 lbs	23c	40c
Over 36 lbs. up to 37 lbs	23c	41c
Over 37 lbs. up to 38 lbs	24c	42c
Over 38 lbs. up to 39 lbs	24c	43c
Over 39 lbs. up to 40 lbs	25c	44c
Over 40 lbs. up to 41 lbs	25c	45c
Over 41 lbs. up to 42 lbs	26c	46c
Over 42 lbs. up to 43 lbs	26c	47c 48c
Over 43 lbs. up to 44 lbs	27c 27c	49c
Over 44 lbs. up to 45 lbs	28c	50c
Over 45 lbs. up to 46 lbs	28c	51c
Over 46 lbs. up to 47 lbs Over 47 lbs. up to 48 lbs	29c	52c
Over 48 lbs. up to 49 lbs	29c	53c
Over 49 lbs. up to 50 lbs	30c	54c
		Control of the Contro

2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8
	151 to 300 Miles From	301 to 600 Miles From	601 to 1,000 Miles From	1,001 to 1,400 Miles From	1,401 to 1,800 Miles From	Over 1,800 Miles From
	CHICAGO	CHICAGO	Miles From CHICAGO	Miles From CHICAGO	CHICAGO	CHICAGO
	Charges Required	Charges Required	Charges Required	Charges Required	Charges Required	Charges Required
	6c	7c	\$0.08	\$0.09	\$0.11	\$0.12
	8c	11c	.14	.17	.21	.24
	10c	15c	.20	.25	.31	.36
	12c	19c	.26	.33	.41	.48
	14c	23c	.32	.41	.51	.60
	16c	27c	.38	.49	.61	.73
	18c	31c	.44	.57	.71	.84
	20c	35c	.50	.65	.81	.96
	22c	39c	.56	.73	.91	1.08
	24c	43c	.62	.81	1.01	1.20
	26c	47c	.68	.89	1.11	1.32
	28c	51c	.74	.97	1.21	1.44
	30c	55c	.80	1.05	1.31	1.56
	32c	59c	.86	1.13	1.41	1.68
	34c	63c	.92	1.21	1.51	1.80
	36c	67c	.98	1.29	1.61	1.92
	38c	71c	1.04	1.37	1.71	2.04 2.16
	40c	75c	1.10	1.45	1.81	2.16
	42c	79c	1.16	1.53	1.91 2.01	2.40
	44c	83c	1.22	S. S. LOT.	8.01	8.90

About Transportation Charges.

When goods are to be shipped by parcel post, it is not necessary to send stamps to pay the postage for shipping package. Simply add the amount for charges to the amount of the merchandise and include in the money order, check or currency you send us. This charge for mailing must be paid in advance, as no provision has been made for the collection of mailing charge on delivery.

When goods are to be shipped by freight or express and there is no freight or express agent at your shipping point, you must send money to prepay the transportation charges. If there is an agent you can pay the transportation charges when shipment reaches you. It is only necessary to prepay freight or express charges when there is no agent at your station. Read pages 897 and 898 for complete information about freight and express rates and charges.

Throughout our catalogs you will find the shipping weight is given in the description of merchandise. Occasionally, according to the nature of the merchandise, we are obliged to give the actual weight. In such cases a few ounces extra in weight must be allowed for wrapping and packing, according to the nature of the goods.

Books. Parcel post rates apply to books as follows: All books up to and including 8 ounces in weight will be carried at the rate of 1 cent for 2 ounces to any part of the United States, regardless of distance, and all books over 8 ounces in weight will take the regular parcel post rates according to weight and zone.

How to Return Goods to Us by Parcel Post



When you return goods by parcel post, put the letter you write and the bills for the goods (if you have the bills) in an envelope and paste or tie the en-

SILVERTONE THE DOMINANT PHONOGRAPH DIANG PROPERTY OF THE DOMINANT PHONOGRAPH

PLAYS EVERY DISC RECORD MADE VICTOR, EDISON, COLUMBIA, PATHE, SILVERTONE AND ALL OTHERS.





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