## Council Bluffs

# MUST USE SANITARY SEWERS

### Council Orders Connections Made with All Houses

### COVERS RESIDENCE DISTRICT

**Ordinance of Far Reaching Effect and Pushed Through to Safeguard Health of ReWsidentsof the City.**

An ordinance that will probably create more commotion than any that has ever been passed by the city council was approved last night under suspension of the rules and unless it is vetoed by Mayor Maloney will become operative at once. It compels residence and business property in all parts of the city where such connections are possible to make connections with sanitary sewers. A fine of not less than $5 or more than $100 is provided as the penalty and every outside closet maintained is defined as a separate offense.

It is estimated that it will entail a cost of somewhere between $25,000 and $100,000. The time limit when all such connections must be made was fixed at December 1. It was first suggested by some of the aldermen to make it June 1, but when Mayor Maloney pointed out that it would take more than a year to do the work, the longer limit was fixed. Mayor Maloney also intimated that he would not sign the ordinance until he had given it most careful consideration, expressing his conviction that it was a bigger thing than the aldermen apparently believed it to be. There are several hundred houses, perhaps 1,000, that are affected. Bath rooms will cost from $150 to $500 each, and the total cost may thus reach large figures.

In the face of the report made by Chairman Flood of the streets and alleys committee, supported by Aldermen Beebe and Boyer, the majority of the council refused to permit $1,000 to be paid for the St. Louis make of street flusher when a very much superior machine made at Shenandoah was available at less than $800. Alderman Fisher, Harding, Huber, Stone and Evans voted to buy the machine at the lower price. A competitive test was given by the two machines on the streets yesterday and the home product appeared to be about 25 per cent superior in all respects.

A little additional information was desired concerning the bill of E. A. Wickham for refilling Harrison street after the filling had been cut out by storm floods, and his claim was laid over for one week. The amount was $380.25 for 768 loads of approximately a yard and a half each. An itemized bill was rendered showing that the work had been done at cost with 15 per cent for profit and use of tools.

**Appeal from Appraisal.**

Notice was served upon the council by F. A. Spencer that he had appealed from the appraisement of $200 for the fractional part of the lot in the rear of the city building. The cost of the appraisement was $25.25. City Solicitor Stuart reported the appraisers' report of the damages to the Langstrom property on account of the changing of the Damon street grade. The total was $554. The owner of the property agreed to accept the award if permitted to extend cement steps four feet beyond the property line. The report was approved.

In a communication the East Omaha Land Trust company announced that it had paid $860 taxes in Council Bluffs and urged that some work be done to improve the streets, stating the Carter Lake club was doing the principal part of the street improving and would co-operate with the city. It was referred to the streets and alleys committee.

The city engineer reported that it would cost $700 to grade Pomona street, but that the north half of it could be graded for $50, and this was done at the request of Park Commissioner Graham.

The plat of Grandview addition, a small tract lying northeast of Fairmount park and adjoining it, was approved, together with the request for closing part of Commercial street. Thomas street, extending 200 feet between East Broadway and Pierce street, was ordered reduced in width to twenty-four feet at the request of the property owners. The street has been ordered paved and the reduced width will materially lighten the cost. A new Indian 1913 model motorcycle was ordered bought for the police department at a cost of $350, less $60 for the wheel bought last year.

**The Winner!**

There is no substitute for the genuine "Porosknit" Underwear. It leads all its imitators.

CHALMERS

Porosknit

GUARANTEED

"Porosknit" Union Suits *fit* comfortably; have closed crotch; elastic fitting back which prevents binding at crotch; no bulging flaps; taped and cover-seamed; well-made; feel cool; backed with signed guarantee—saying, "Satisfaction or money back." Try "Porosknit" in any style you prefer—any length sleeve or leg. Ask dealers.

For MEN 50c Any Style Shirts and Drawers per garment 25c For BOYS

For Men $1.00 Union Suits For Boys 50c

Men's Mercerized "Porosknit" (looks like silk) sells for $1.00 garment. Union Suit $2.00.

CHALMERS KNITTING COMPANY
Washington Street Amsterdam, N. Y.

DON'T make your car pay for your tire experiments. Increase your car's efficiency, and reduce the upkeep expense by equipping with

**Firestone**

**NON-SKID TIRES**

Car owners of experience have proved the car-protecting resiliency, the mileage and security value of the Firestone tough, pliable tread.

H. S. Firestone's book, "What's What in Tires" tells how and why.

The Firestone Tire & Rubber Co. "America's largest exclusive tire and rim makers." 3220 Farnam St., Omaha, Neb. Home office and factory: Akron, O. Branches in all large cities.



A Swell Affair

DENT'S Toothache Gum STOPS TOOTHACHE Instantly

Has given perfect satisfaction for 25 years. All drug stores or by mail, 15c

C. B. DENT & CO., DETROIT, MICH.


## Detention Home Wants Permanency

A committee representing the Associated Charities appeared before the Board of County Supervisors yesterday and urged that steps be taken at once to buy the building and grounds on East Pierce street, now used for a detention home, or select a suitable location elsewhere.

It was pointed out that the permanent character of the home demands a permanent location where needed conditions may be slowly brought about. The present quarters are simply leased. It is understood that the property may be bought for $4,500. It has been appraised at $5,000.

The matter was turned over to Supervisors Coe, True and Ingram to make the proper investigation and report at an early meeting of the board.

## POLICE SORT OUT LIST OF OFFENSES FOR MONTH

The completion of the monthly report of the police department yesterday showed that there were 135 arrests made during the month. Weakness for strong drink was responsible for fifty-seven of them, twenty-one were charged with vagrancy and twenty were held for investigation. The remainder of the offenses charged went all the way down the line of human frailty. There were only three arrests for exceeding the speed limit. This is said to be due chiefly to the decrepit condition of the police motorcycle which is only able to develop an utmost speed of twenty-five miles an hour, and automobilists going forty to sixty miles an hour gleefully disappear in the dim distance. Ten nationalities were represented in which America was forced to bear the shame of 110 of the total. This did not include, for some reason nine negroes and three Indians, who are supposed by some people to belong to the same Columbian family. There were 148 lodgers accommodated and they were divided into twelve nationalities, with Americans leading the list with 114. The police suppressed thirty-three disturbances without arrests besides doing an enormous amount of other work.

The following real estate transfers were reported to The Bee Monday by the Pottawattamie County Abstract company:

| | |
|---|---|
| George Bick to J. Katelman, lot 5, bloc' 15, Riddle's subdivision to Council Bluffs, Ia.; w. d. | $1,500.00 |
| J. C. Bridget and wife to Agnes Folsom, lot 15, block 19, Mullin's subdivision to Council Bluffs, Ia.; w. d. | 146.50 |
| J. G. Bone to George W. West, west half of lot 5, block 28, Everett's addition to Council Bluffs, w. d. | 1.00 |
| Agnes Folsom et al. to J. C. Bridget, lot 16, block 19, Mullin's subdivision to Council Bluffs, Ia.; s. w. d. | 75.00 |
| M. M. McCue and wife to W. M. Kinnison, lots 7 and 8, block 7, Grimes' addition to Council Bluffs, Ia.; q. c. d. | 1.00 |
| W. M. Tallman and wife to Jennie L. Long, lot 6, block 3, Fisher's first addition to Underwood; w. d. | 1,500.00 |
| William Dye and wife to Harry A. Smith, part of nw¼, sw¼ of 23-74-40; w. d. | 250.00 |
| Grover & Layman Realty company to Howard Yerks, lot 142, Belmont addition to Council Bluffs; w. d. | 140.00 |
| Interstate Realty company to Anna Emerine, lots 5 and 6, block 18, Evans Second Bridge addition to Council Bluffs; w. d. | 350.00 |
| E. H. Lougee and wife to C. A. Morgan, lot 8, block 4, Hillcrest addition to Council Bluffs; w. d. | 1.00 |
| George H. Mayne and wife to Martha A. McWilliams, lot 10, block 15, Mullin's subdivision to Council Bluffs; w. d. | 550.00 |
| Treasurer of Pottawattamie county, Ia., to F. F. Everest, lot 14, Aud's subdivision of out lot Turley, in Council Bluffs; tax d. | 56.16 |
| Twelve transfers; total | $4,770.66 |

**Purity Paint is the Best.**

It is manufactured from strictly pure lead, linseed oil and zinc. It will cover 800 square feet, two coats. C. Hafer Lumber company.

## Council Bluffs

## Minor Mention

**Council Bluffs Office of The Bee is at 14 NORTH Main St. Telephone 48.**

Davis, drugs.

Victrola, $15. A. Hospe Co.

Bradley Electric Company—Wiring.

Carrigans, undertakers. Phone 143.

Woodring Undertaking Co., Tel. 339.

Blank book work, Morehouse & Co.

FAUST BEER AT ROGERS' BUFFET.

Lewis Cutler, funeral director. Phone 97.

The highest grade optical work in the city is done at Leffert's.

Celebrated pale Bohemian beer. Phone 248. Delivered to any part of city.

See Borwick for wall paper and painting. 209 and 211 South Main street.

Scientific watch repair work, the kind that is appreciated, at Leffert's.

TO SAVE OR TO BORROW, SEE C. B. Mutual Bldg. & Loan Ass'n, 123 Pearl.

BUDWEISER on draught—The Grand. Budweiser in bottles at all first-class bars.

Ladies take notice, have your straw hat cleaned and reshaped. Cook's cleaning Works, 236 Broadway.

The Royal circle of Oakleaf camp, Royal Neighbors of America, meets Wednesday afternoon with Mrs. Mary Ingles, 750 Washington avenue.

Regular convocation of Star Royal Arch chapter No. 47 at Masonic temple at 8 o'clock Tuesday evening, May 6. All members are requested to be present. Visitors invited.

The public knows that when they get a piano from A. Hospe Co., 407 Broadway, Council Bluffs, they get more value for their money than they could get at any other place, and at the same time run no chances in buying a poor instrument.

Dr. R. O. Williams left yesterday for Davenport to attend the annual meeting of the Iowa State Dentists' association. He will return on Thursday night. Mrs. Williams is spending the week at Logan visiting her parents, Mr. and Mrs. W. B. Crewdson. Mr. Crewdson was formerly pastor of the First Christian church of this city.

Mrs. Kittie Angood yesterday began a suit for divorce from her husband, Fred C. Angood. They were married at Fremont, Neb., on September 27, 1888, and separated on June 23, 1909. She alleges that the acquisition of the drink habit rendered it impossible for her longer to live with him and also prevented him from providing for her.

The funeral of Albert L. Smith was held at 4 o'clock yesterday afternoon at the residence of H. A. Searles, 227 Bluff street. Mr. Searles is the head of the Monarch Manufacturing company, where Mr. Smith had been employed. The funeral was largely attended. Burial was in Walnut Hill cemetery. The services were conducted by Rev. Dr. Jones, pastor of the First Congregational church.

Homer Howard, 13 years old, and Joseph Pollick, aged 16, who say they live at 509 and 515 Southeast Fourth street, Des Moines, were picked up yesterday afternoon at the Milwaukee depot and turned over to Probation Officer Herner. The boys admitted that they had ran away from their homes for no other purpose than to get more intimately acquainted with the world. They will be held until their parents are communicated with. Both were exceedingly hungry and homesick.

LAWN MOWERS—We carry the best line made. Prices, $2.50 to $15.00. P. C. Devol Hardware Co., 504 Broadway.

## Golf Experts Meet in Four-Ball Match

NEW YORK, May 6.—A golf match of unusual interest is being arranged for next week, when Jerome D. Travers and Oswald Kirkby will meet Fred Herreschoff and Walter J. Travis in a four-ball event at Garden City. They will play thirty-six holes. These four were to have met a few weeks ago, but partisans prevailed upon the players to wait until all had had a chance to reach top form through practice. Travis is naturally at home at Garden City and is always hard to beat there or elsewhere. Herreschoff makes an efficient partner. Travis is one of the best match golf players in the country, however, and Kirkby is a good man i na four-ball match. The contest promises fine golf.

## GOLDTHWAITE AWARDED TO NEBRASKA CITY TEAM

AUBURN, N. Y., May 6.—The following decisions were handed down by the National Board of Arbitration governing minor base ball leagues today:

Awards: Services—Goldthwaite to Nebraska City, Roy Blausser to Keokuk, Ellis Woodruff to Talladega, Ala.; Billings to Benham, Tex.

Applications to be free agent granted: R. J. Lattimore, from Nashville; L. V. Hamilton, from Albany, Ga.; Herbert Martin, from Newport News.

Applications disallowed: J. B. Harbison and William Schwartz against Talladega, Ala.; M. Richardson against Grand Rapids, J. J. Higgins against Selma, R. Baxter against Kansas City, Dell Fullen against Seward, Neb.

Player Hardy is declared a free agent.

Claims granted: Arthur Anderson against Kankakee, Herbert Martin against Newport News for salary.

## M'CARTHY AND PELKEY WILL FIGHT SATURDAY

CALGARY, Alberta, May 6.—Luther McCarty will meet Arthur Pelkey in a ten-round bout here Saturday, May 24. Tommy Burns received a wire today from Mcarty accepting conditions and agreeing to a match with Pelkey.

**Central City High Wins.**

CENTRAL CITY, Neb., May 6.—(Special.)—In a fast and well played game on the local grounds yesterday the Central City High school team defeated the team from Grand Island, 3 to 1. It was the first game of eight played that Grand Island has lost this season. The local team is one of the strongest high school teams in this part of the state and shows excellent team work for a young team. Hits: Grand Island, 2; Central City, 4. Struck out: By Martin, 10; by Mench, 7. Batteries: Central City, Martin and Lehr; Grand Island, Mench and Solwell.

**Chance's Judgment Confirmed.**

Pittsburgh relalzes that it was stung on Pitcher Paddy Green, claimed from the New York Yankees. Frank Chance's judgment that Paddy wouldn't do is confirmed in the announcement that Manager Clarke will send him back to Holyoke and let him develop. Connie Mack, who was said to want him, can now lay off.

**Asleep at the Switch.**

Some major league managers appear to be sleeping at the switch. Clark Griffith says he did not waive on Catcher Ben Egan, or if he did he didn't mean to, and George Stallings says he didn't mean to ask waivers on Bill McKechnie, but that his name got on the wrong list and he had to go through with it.

**Paddock Hotel to Close.**

BEATRICE, Neb., May 6.—(Special Telegram.)—It was announced today that the Paddock hotel, the leading hostelry of this city, would close this week. Lack of business is assigned as the cause. The building was erected by the late Senator Paddock at a cost of $125,000 and is at present the property of General Colby.

## MOTHER'S DAY SET APART

### Governor Morehead Asks Sons to Honor Them.

### NEXT SUNDAY IS THE DAY

**Sets It Apart as Time for Sending Token of Affection or Doing Something to Recall Her Loving Kindness.**

LINCOLN, Neb., May 6.—(Special.)—LINCOLN, Neb., May 5.—(Special.)—Governor Morehead has appended his signature to a tribute to the mothers of the state in the proclamation setting the day apart, which is as follows:

"By force of precedent the second Sunday in May of each year has come to be known as Mother's day in many states of the union.

"Being in full sympathy with the sentiment which sets aside one day in the year to do honor to motherhood, I hereby designate Sunday, May 11, 1913, as Mother's day.

"To every true man every day in the year is Mother's day, but it is well to set aside one day from all the rest to give public expression to the loftiest of all human sentiments, the love and affection that is due to motherhood. To this end, I ask that every adult in Nebraska perform some act of kindness on that day. If your mother be living, visit her; if you cannot do this, send her flowers with a word of affection and appreciation.

"I recommend that this day be so observed that it will bring hope and cheer to the unfortunate and peace and joy to all, and that your charity be as broad and tender as a mother's love.

"Given under my hand this 5th day of May, 1913.

"JOHN H. MOREHEAD,
"Governor."

## PHONE LINEMEN HURT WHEN POLE BREAKS

OSCEOLA, Neb., May 6.—(Special Telegram.)—Two young men who have been in the employ of the Polk County Telephone company at this place for some time met with a severe accident today. A pole upon which both were at work fell and broke the leg of Elmo Potts and the arm of Holly Mills besides bruising them quite severely in other ways. They were taken to a neighbor's and doctors called, who reduced the fractures.

The Persistent and Judicious Use of Newspapper Advertising is the Road to Business Success.

Strictly efficient optical work at Lefferts'.


**FOOD FOR MUSCLES, BONES AND FLESH**

Now's the time to make sure that your children get all the food necessary to build up their muscles and bones and put on flesh. Their physical future depends largely on what they eat *now*. There's more *real nutrition* in a 10c package of Faust Spaghetti *than in 4 lbs. of beef*—prove it by your doctor.

**FAUST SPAGHETTI**

is extremely rich in gluten, being made from Durum wheat, the cereal that ranks high in protein. Very easily digested is Faust Spaghetti. Savory, too—write for free recipe book and see how many different ways this strength-building food can be served.

*At all grocers,—*
*5c and 10c packages*

MAULL BROS. ST. LOUIS, MO.



**A little Bee want ad does the business. Everybody reads Bee want ads**



Luxus REG. U.S. PAT. OFF.

THE BEER YOU LIKE

One or two "right off the ice" will do much towards making life more endurable a hot evening.

You may serve it on any occasion confident it will please the most critical.

Luxus is made of the best of materials regardless of price. It is a most refreshing drink.

You should always have a case of small or large bottles at home.

Brewed and bottled by

FRED KRUG BREWING CO.

Phone your order today.

Consumers' Distributors,

Luxus Mercantile Co.
109-11 No. 16th St
Douglas 1889.



COLD IN HEAD CATARRH
INSTANTLY RELIEVED BY THE OLD
DR. MARSHALL'S CATARRH SNUFF
25¢ AT ALL DRUG STORES OR ENTIRE PAID BY C. H. KEITH CLEVELAND OHIO



STEAMSHIPS.

HAMBURG-AMERICAN
Largest SS. Co. in the WORLD — Over 400 Ships 1,306,819 TONS

World's Largest Ship "IMPERATOR" will make her first trip from Hamburg May 24, arriving at New York May 31. Sailing June 7, 11 A. M. Enabling passengers to arrive in LONDON and PARIS on sixth and in HAMBURG on seventh day. Books now open for season.

LONDON, PARIS, HAMBURG
*Patricia, May 14, 1 p. m.
Amerika, May 22, 10 a. m.
*Pretoria, May 26, 1 p. m.
Kais'n Aug. Vic, May 29, 1 p.m.
Pres. Grant, June 5, 9 a. m.
‡Imperator, June 7, 11 a. m.
††Vic. Louise, June 10, 10 a.m.
Pres. Lincoln, June 14, 3 p. m.
*Pennsylvania, June 17, 9 a.m.
‡New. ††1st cabin only. *Will call at Boulogne. ‡Hamburg direct. ‡‡2d cabin only.

MEDITERRANEAN
Gibraltar, Naples and Genoa.
S. S. Hamburg (11,000 tons) May 20, 9 a. m.
S. S. Moltke (15,000 tons) June 5, 8:30 a. m.
S. S. Hamburg, July 1, 3 p.m.
S. S. Moltke, July 15, 5 p. m.

—CRUISE—
AROUND THE WORLD
—and—
THROUGH THE PANAMA CANAL
by Twin Screw Steamship "CLEVELAND" (17,000 TONS)
Leaving NEW YORK JANUARY 27, 1915
135 DAYS—$900 and up.
Register your engagement NOW. Good rooms will soon be taken.
For Complete Information, Hamburg-American LINE
150 W. Randolph St., Chicago, Ill.
or local agt.



FRENCH LINE
Compagnie Generale Transatlantique
The 5½ Day Route
NEW YORK — HAVRE — PARIS
Direct Route to Continent
New, large, fast, turbine, quadruple and twin screw mail steamers
From New York, Thursdays
France (New)—My 15, Jn 5, Jn 26, Jul 24
La Provence—My 22, Jn 17, Jul 17, Aug 11
La Lorraine—May 29, Jul 10, Aug 7, Oct 9
La Savoie—June 12, July 3, July 31, Aug 28
New, large, quadruple and twin screw, one class (II), cabin steamers. Superior service. Popular prices.
From New York, Saturdays
Niagara—May 24, June 21, Sep 13, Oct 11
Rochambeau—My 31, Jul 5, Aug 16, Sep 20
Chicago—June 28, Aug 2, Aug 30, Sept 27
CANADIAN SERVICE
Montreal Quebec Havre
One Class (II) Cabin Steamers
Fastest steamers in Canadian transatlantic service.
LEAVE QUEBEC
La Touraine—May 24, June 21
Niagara—July 19, Aug. 16
Two captains on each steamer of this line. Wireless telegraph, submarine bell signals and every modern safety appliance.
Maurice W. Korninski Gen. Western Agt., 139 N. Dearborn St., Chicago, or any local Agent.

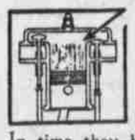


## What happens when your lubricating oil is incorrect

**Carbon deposit** (excepting that due to faulty carburetion and gasoline combustion) is commonly attributed to the *quality* of the lubricating oil. Quite as often the fault lies with the oil's "*body*."

In some motors, a light-bodied oil will work too freely past the piston rings, into the combustion chamber. Lubricating oil itself is a hydro-carbon product. Carbon can never be wholly filtered out. When the oil works freely into the closed combustion chamber carbon deposit is bound to occur.

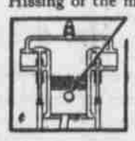
An unnecessary quantity of the oil is consumed. Ignition trouble and, in time, "knocking" of the motor results.



Another common result of faulty lubrication **is scored cylinder walls.**

The scoring is generally caused by the oil's low lubricating *quality*.

Or it may be caused by too-light a "*body*." In that case the oil fails to carry-through to the end of the piston stroke. The piston rings then rub directly against the walls. In time they break. Scoring and scratching of the cylinders will result. Hissing of the motor follows.



A third result of wrong "*body*" or low lubricating *quality* is **worn wrist-pins.** This trouble causes a dull, metallic knock. In extreme cases the wrist-pins break.

A fourth result is **worn connecting rod or main bearings.** The unnecessary wear is caused either by the low lubricating *quality* of the oil, or by an oil whose "*body*" is unadapted to the fit of the bearings.

The bearings in different motors differ widely. For proper lubrication they require oils of different "*body*."

A fifth common result is **loss of compression and escape of the explosion.**

The oil's actual lubricating *quality* plays no part in this loss. The escape is attributable wholly to the oil's incorrect "*body*."

With certain types of piston rings a light-bodied oil forms too thin a film around the ring. Loss of compression, escaping explosion and reduced power result.

There is no plain symptom by which this escape can be discovered—other than the lessened power of the motor.

To avoid these troubles you *must* use an oil of the highest lubricating *quality*, and of correct "*body*."

There is only one way to determine the correct "*body*." That is, to carefully analyze the construction of the motor.

Any less-thorough method can only be a hazardous guess.

To meet this problem, each season we carefully analyze the motor-construction of every make of automobile.

Based on this analysis, and on practical experience, we determine the correct oil for each car.

The results of these conclusions are compiled in a lubricating chart—printed in part on the right. This chart specifies the correct grade of Gargoyle Mobiloil for your car.

The efficiency of the oils recommended has been thoroughly demonstrated in practical use.

In sheer lubricating *quality* they stand alone.

Oil of the *quality* and "*body*" recommended is an absolutely necessary step toward:

(1) The greatest horse-power efficiency. (2) The smoothest operation. (3) The fewest repair troubles. (4) The lowest operating cost per mile. (5) The longest life to your motor. (6) The greatest second-hand value.

*If you use an oil of less-correct* "body" *or of lower lubricating* quality *than that recommended, unnecessary friction, unnecessary carbon deposit, loss of power, and ultimate serious damage must result.*

GARGOYLE
**Mobiloil**
*A grade for each type of motor*

The various grades, refined and filtered to remove free carbon, are: **Gargoyle Mobiloil "A," Gargoyle Mobiloil "B," Gargoyle Mobiloil "D," Gargoyle Mobiloil "E," Gargoyle Mobiloil "Arctic."**

They are put up in 1 and 5 gallon **sealed** cans, in half-barrels and barrels. They are sold throughout the world. **All are branded with the Gargoyle, which is our mark of manufacture.**

The dealers listed below carry ample stocks of Gargoyle Mobiloils and are provided with our complete chart of recommendations. This will enable them to select the correct grade for your car.

VACUUM OIL CO., Rochester, U. S. A.

*Distributing warehouses in the principal cities of the world.*

*Explanation:* In the schedule, the letter opposite the car indicates the grade of Gargoyle Mobiloil that should be used. For example: "A" means "Gargoyle Mobiloil A." "Arc." means "Gargoyle Mobiloil Arctic." For all electric vehicles use Gargoyle Mobiloil A. The recommendations cover both pleasure and commercial vehicles unless otherwise noted.

| MODEL OF CARS | 1909 Summer | 1909 Winter | 1910 Summer | 1910 Winter | 1911 Summer | 1911 Winter | 1912 Summer | 1912 Winter | 1913 Summer | 1913 Winter |
|---|---|---|---|---|---|---|---|---|---|---|
| Abbott Detroit | | | A | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Alco | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| American | A | Arc. | A | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Apperson | A | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Autocar (2 cyl.) | A | Arc. | A | Arc. | A | Arc. | A | Arc. | A | Arc. |
| " (4 cyl.) | A | E | A | E | A | Arc. | A | Arc. | | |
| Avery | | | A | E | A | E | A | A | | |
| Benz | A | A | A | A | A | A | A | A | A | A |
| Buick (2 cyl.) | A | A | A | A | A | A | A | A | A | A |
| " (4 cyl.) | A | Arc. | Arc. | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Cadillac (1 cyl.) | B | A | | | | | | | | |
| " (4 cyl.) | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Carter car | A | A | A | E | A | E | A | E | A | E |
| " Con't | A | A | A | E | A | Arc. | A | Arc. | A | Arc. |
| Case | | | | | A | A | A | Arc. | A | Arc. |
| Chalmers | Arc. | Arc. | Arc. | | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Chase | B | B | B | B | B | B | B | B | B | B |
| Cole | | | Arc. | Arc. | A | Arc. | Arc. | Arc. | Arc. | Arc. |
| Columbia | A | E | E | E | A | A | A | A | | |
| " "Knight" | | | | | | | A | A | A | A |
| Couple Gear | A | A | A | A | A | A | A | Arc. | A | Arc. |
| Daimler | A | E | A | E | A | E | A | A | A | Arc. |
| " "Knight" | | | | | A | A | A | A | A | A |
| Darrocq | A | E | A | E | A | E | Arc. | Arc. | Arc. | Arc. |
| De Dion | B | A | B | E | B | A | B | A | B | A |
| Delaunay-Belleville | B | A | B | A | B | A | B | A | B | A |
| Elmore | A | A | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | | |
| E. M. F. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | | |
| Fiat | B | A | B | A | B | A | B | A | B | A |
| Flanders | | E | E | E | E | Arc. | Arc. | | | |
| " (6 cyl.) | | | | | | | | Arc. | Arc. | |
| Ford | E | E | A | Arc. | E | E | E | E | E | E |
| Franklin | B | E | B | Arc. | A | Arc. | A | Arc. | A | Arc. |
| " Con't | B | E | B | A | B | A | Arc. | Arc. | A | Arc. |
| G. M. C. | | | | | | | Arc. | Arc. | A | Arc. |
| Grames | | | | | A | Arc. | A | Arc. | A | Arc. |
| Grant-Logan | A | Arc. | A | Arc. | | | | | | |
| Hartford | A | A | Arc. | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Hewitt (2 cyl.) | A | A | A | A | A | Arc. | | | | |
| " (4 cyl.) | A | E | A | E | A | Arc. | E | E | E | E |
| Hudson | | | Arc. | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Hupmobile "20" | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| " "32" | | | | | | | | | A | Arc. |
| I. H. C. (air) | | | | | | | | | A | A |
| " (water) | | | | | | | | | A | A |
| International | B | A | B | A | B | B | B | A | | |
| Interstate | A | E | A | E | A | Arc. | A | Arc. | A | Arc. |
| Isotta | A | A | A | A | A | A | A | A | A | A |
| Italia | A | A | A | A | A | A | A | A | A | A |
| Jackson (2 cyl.) | A | A | A | A | | | | | | |
| " (4 cyl.) | A | E | A | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Kelly | | | | Arc. | Arc. | Arc. | Arc. | Arc. | | Arc. |
| Kelly Springfield | | | | | | | | | Arc. | Arc. |
| Kissel-Kar | A | E | A | E | A | Arc. | A | Arc. | A | Arc. |
| " Con't | | | | | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Kline Kar | | | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Knox | B | A | B | A | B | A | B | A | B | A |
| Krit | | | A | A | A | A | A | A | A | A |
| Lancia | B | A | B | A | B | Arc. | B | Arc. | B | Arc. |
| Locomobile | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Lozier | A | A | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Mack | A | E | A | E | A | E | E | E | E | E |
| Marion | A | E | A | E | A | E | A | Arc. | A | Arc. |
| Marmon | Arc. | Arc. | A | E | A | Arc. | A | Arc. | A | Arc. |
| Mathewson | Arc. | Arc. | Arc. | A | A | A | A | A | A | Arc. |
| Maxwell (2 cyl.) | E | E | E | E | E | E | E | | | |
| " (4 cyl.) | E | E | E | E | | | | | | |
| " (6 cyl.) | | | | | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Mercedes | A | E | A | E | A | E | A | E | A | E |
| " "Knight" | | | | | A | A | A | A | A | A |
| Mercer | | | A | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Michigan | | | Arc. | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Minerva "Knight" | | | | | A | A | A | A | A | A |
| Mitchell | A | A | Arc. | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Moon | A | E | A | E | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| National | A | Arc. | A | A | A | A | A | A | A | A |
| Oakland | A | E | A | B | A | Arc. | A | Arc. | A | Arc. |
| Oldsmobile | A | E | A | E | A | Arc. | A | Arc. | A | Arc. |
| Overland | A | E | A | E | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Packard | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Paige Detroit | | | E | E | A | Arc. | A | E | A | E |
| Pierce-Arrow | A | E | A | E | A | E | A | Arc. | A | Arc. |
| " "Knight" | | | | | A | A | A | A | A | A |
| Pathfinder | | | | | | | | | | Arc. |
| Peerless | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Pierce Arrow | A | Arc. | Arc. | Arc. | A | Arc. | A | Arc. | Arc. | Arc. |
| " " Con't | | | | | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Pope Hartford | A | E | | | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Premier | A | Arc. | A | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Pullman | A | E | A | E | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Rambler | A | A | A | A | A | Arc. | Arc. | Arc. | Arc. | Arc. |
| Rapid | A | A | A | A | A | Arc. | Arc. | Arc. | | |
| Rayfield | | | | | A | | A | A | A | A |
| Regal | A | E | A | E | A | Arc. | Arc. | Arc. | Arc. | Arc. |
| Renault | A | Arc. | A | Arc. | A | Arc. | A | Arc. | A | Arc. |
| Reo | A | A | A | E | A | Arc. | A | Arc. | A | Arc. |
| S. G. V. | | | | | B | Arc. | B | Arc. | B | Arc. |
| Selden | A | E | A | E | A | E | Arc. | Arc. | Arc. | Arc. |
| Service | | | | | A | A | A | Arc. | A | Arc. |
| Simplex | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Speedwell | A | Arc. | Arc. | Arc. | A | Arc. | A | Arc. | Arc. | Arc. |
| " "Mead" | | | | | | | | | A | Arc. |
| Stanley | D | D | D | D | D | D | D | D | D | D |
| Stearns | A | A | Arc. | Arc. | A | Arc. | A | Arc. | | |
| " "Knight" | | | | | | | A | A | A | A |
| Stevens Duryea | Arc. | Arc. | Arc. | Arc. | A | Arc. | | | | |
| Stoddard-Dayton | E | E | Arc. | Arc. | A | A | A | A | A | A |
| " "Knight" | | | | | | | A | A | A | A |
| Studebaker | A | E | E | E | A | Arc. | A | Arc. | A | Arc. |
| Stutz | | | | | | | Arc. | Arc. | Arc. | Arc. |
| Thomas | E | E | E | E | E | E | E | | | |
| Walter | A | E | A | E | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |
| Warren Detroit | | | Arc. | Arc. | A | A | A | A | A | Arc. |
| White (Gas) | | | A | E | A | E | A | Arc. | Arc. | Arc. |
| " (Steam) | D | D | D | D | D | D | D | D | D | D |
| Winton | E | E | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. | Arc. |

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