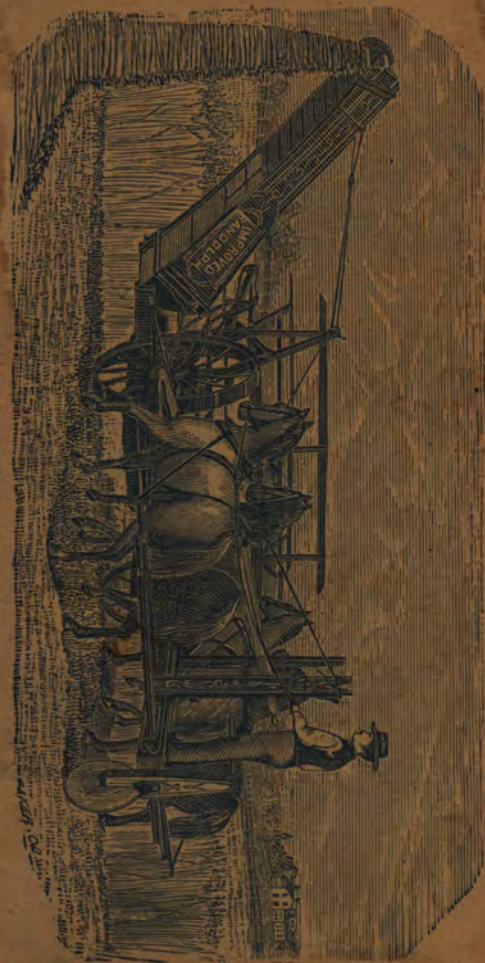


THE BEST IN USE



THE RANDOLPH HEADER

The Randolph Header

FARMERS'

POCKET DIARY

OF
Useful Information



PRESENTED BY

CRAVER & STEELE

GRINNELL, IOWA.

KENNEDY-PR.

MOLINE, ILL.



THE BEST IS THE CHEAPEST

TRY A

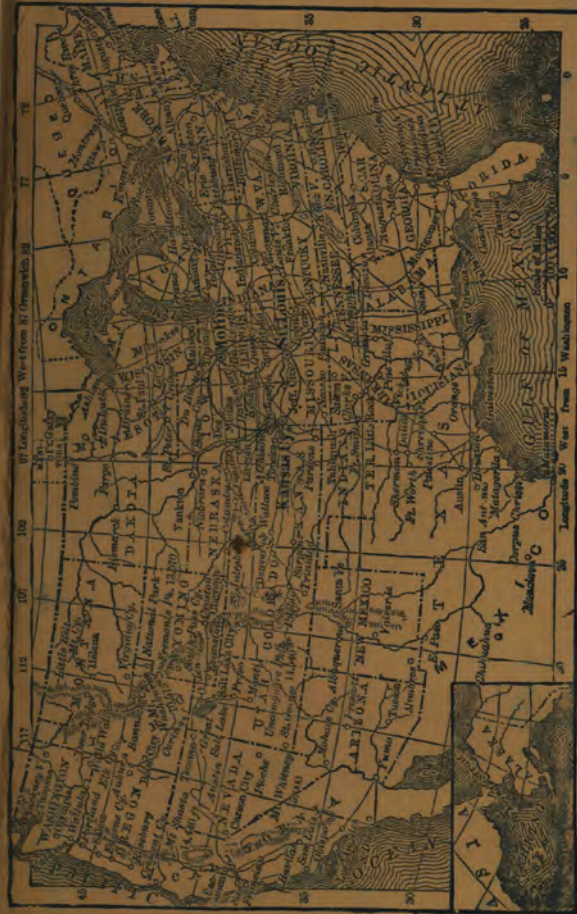
RANDOLPH

*Lightest Draft,
Best Elevation,
Simplicity of
Construction,
And Durability.*

IN FACT

IT HAS NO EQUAL!



ERASABLE MEMORANDUM.**ERASABLE MEMORANDUM.**

CRAVER & STEELE,
GRINNELL, IOWA.

ERASABLE MEMORANDUM.

1881.

FARMERS'

POCKET DIARY

ISSUED BY

CRAVER & STEELE

MANUFACTURERS OF

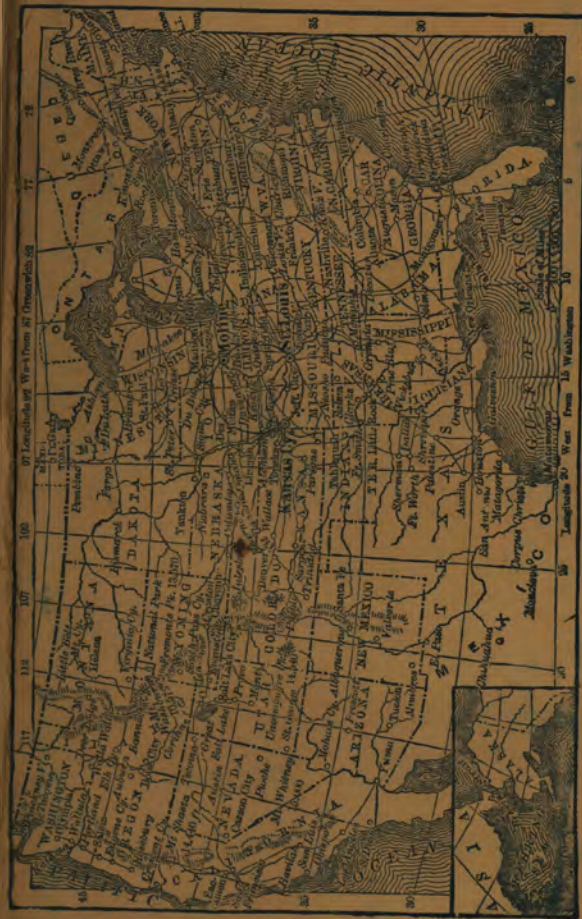
THE RANDOLPH HEADER

THE MOST ECONOMICAL HARVESTER

KNOWN.

GRINNELL, IOWA.

Kennedy-Pr. Mohne.



TO OUR PATRONS.

IN PRESENTING you with this, our Annual Diary for 1881, we tender our congratulations to all who have sold or used the RANDOLPH HEADER in the past, and are pleased to announce that we have added many new and valuable improvements to the machine, which we feel sure will meet with much favor from all who sell or use the HEADER. As an evidence of this fact, you will notice that other manufacturers are trying to bring their machines to imitate ours in many respects, thus virtually admitting that we have the best.

In calling your attention to the products of our factory, the claim for them of UNUSUAL MERIT is supported by the substantial evidence of a constantly increasing demand in every part of the country wherever they have been introduced, the unbounded satisfaction they afforded to every one having them in use, and a supremacy maintained second to none.

We ask your attention to detailed description, and a careful examination and comparison of merits; and renewing our thanks for past generous patronage, we are,

Very respectfully yours,

CRAVER & STEELE.

ADVANTAGES OF A HEADER.

IT IS the most rapid way of harvesting known, and the labor is very light as compared with binding and the old methods of cutting grain. Headed wheat is of the finest quality when handled as it should be. *The expense is not half as much as in any other way.* The horses do most of the work. When night comes your grain is in the stack, safe from storms.

When you have done cutting, the grain is out of the way, and quite a large amount of plowing can be done while those who bind are stacking.

You save more of the grain than in any other way, as it does not touch the ground.

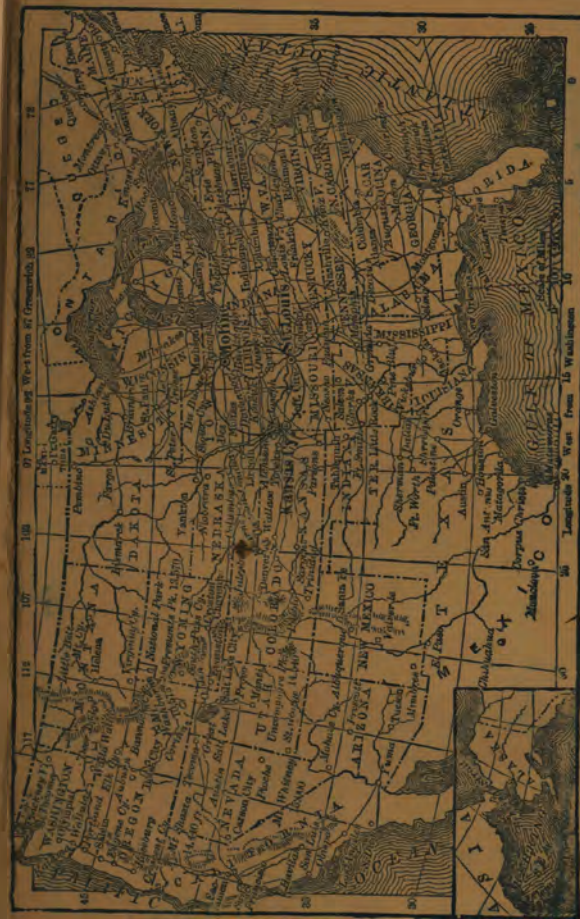
It will save down grain better than ordinary machines.

You can get the grain threshed for less.

The most complete machine for cutting timothy and flax.

These are only a part of the numerous advantages of a Header. Your wife and daughters will find a great saving of time and hard work during harvest if you use a Header, as only a few men are to be fed, and they only for a short time, as the work is soon done.

Suppose you try one and satisfy yourself fully as to the correctness of these statements.



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DRAFT OF THE RANDOLPH.

We are frequently asked how many horses are required to operate one of our machines successfully. We have this to say: that two fair-sized horses are sufficient to run our 8-foot cut, and the work will be as light as on any two-horse harvesting machine made.

For the 10-foot cut, four light horses are sufficient anywhere, and they will do as much as four heavy ones can with any other Header made.

The 12 and 14-foot cut only require four medium-sized horses to do the work easy and well. We have tested the draft of ours and all of the principal self-binders, and our 10-foot cut runs lighter than most of them, and as light as any, and *we warrant our machines to be lighter in draft than any other Header made in the country.*

Expense of Harvesting about the same as stacking from the shock.

AUBURN, ILL., Sept. 5, 1880,
Crayer & Steele:—Gentlemen:—I bought a Randolph Header of your agents, Workman & Landon, and am glad to say that I am well pleased with it. It is the lightest draft Header I ever used, and the Dropper is a success. I cut and dropped my oats and let them cure two days, and then stacked them. When threshed they were in good order. In regard to saving grain with a Header, I will say I have used a Header for twenty-four years, and have cut 25 acres of wheat with a Header to five with a Reaper, and have had ten bushels damaged cut with a Reaper to one with a Header. The secret of saving grain with a Header is to let it get ripe and then procure a good stacker and you are all right. I would say to the farmers that the expense of cutting and stacking wheat with a Header is about the same as stacking from the shock.

Yours truly,

J. B. WOOLSEY.



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SIZE OF HEADERS.

We manufacture the following sizes: 8, 10, 12, and 14-foot cut. The 8-foot can be run easily by two common horses; and with two Header-boxes, requiring a team to each, a large harvest can be done with very little outlay. Parties having a large harvest can use larger machines. Our 12 and 14-foot cut machines will run as easily as the 10-foot cut of any other Header made.

Won \$75.00 in a Field Trial with Weyhrich and Hodges Headers, with Four Small Mules against Six Horses:

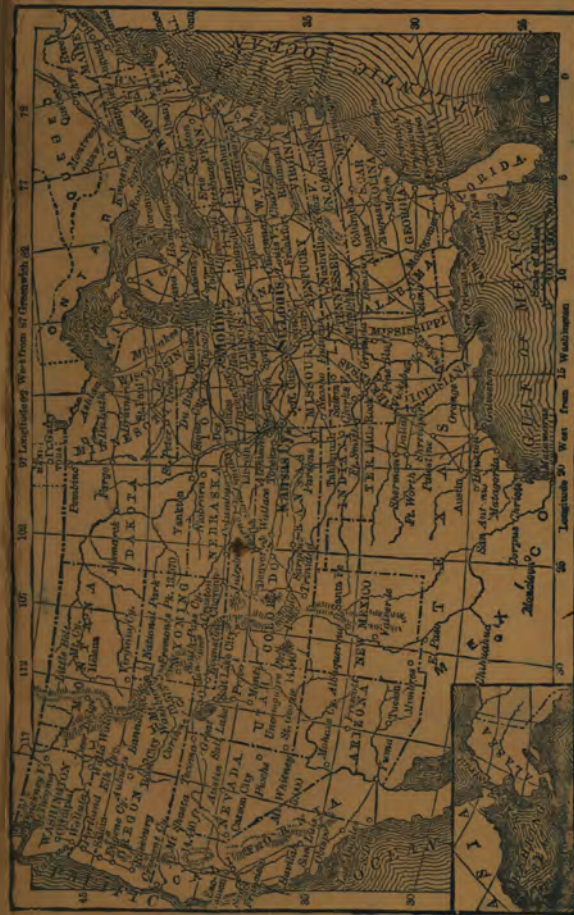
SUTTON, NEB., Aug. 16, 1880.
Craver & Steele, Grinnell, Iowa—Gentlemen:—We bought one of your 10-foot Randolph Headers from your agents, Hoerger & Way. We gave it a fair trial, and after knowing what it was we went into a field trial with the Weyhrich and the Hodges Headers, on a purse of \$75.00 for the best and most work. The other Headers had six horses apiece and we only had four small mules on the Randolph. When the trial was over the judges awarded the prize to the Randolph. We cut over 300 acres with our machine and won enough to make our first payment besides. We are well pleased and think you will sell a number in this vicinity next year.

Yours respectfully,

JOHN B. WEBER.
PETER WEIS.

HAVANA, ILL., Sept. 10, 1880.
Messrs. Craver & Steele:—I bought one of your Randolph Headers, in partnership with a neighbor of mine, who is a good, practical farmer. I left the matter of buying entirely to him (I myself being engaged in the milling business). He chose a Randolph as an experiment, having used two others of different make. We had 300 acres of grain, which he cut at the rate of 25 acres a day average. He says it "whacks" anything he ever run, and the farmers who saw it run concede it to be the lightest draft, most easily managed machine they ever saw by far. Any man of good mechanical ideas ought to know that by simple comparison it is the boss machine for saving grain. I say to any and all farmers this much: It runs light, saves the grain, no bother with drapers, don't lose shatterings, and in regard to durability, can only say my machine seems to be as good as new.

Respectfully,
McHARRY & ATWATER.



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Force Required to Operate a Header.

To work a 10, 12 or 14-foot Randolph Header to the best advantage, it requires four horses to propel it; one man to operate it; three teams with a driver to each (boys can drive as well) to haul the grain as fast as cut to the stack; one man to load; one man to stack, and one man to rake down the stack and pitch up the scatterings from the ground to prevent any waste of grain—making in all seven men and ten horses. This force ought to cut and put in stack, every fair day, from 25 to 40 acres.

To operate our 8-foot machine, *only two horses* are required on the machine; a man to operate the machine; two teams and drivers to haul grain to the stack; one loader and stacker; making a force of five men and six horses, and 20 acres is a fair day's work.

JOSEPH WASSON writes us Dec. 16, 1880, from Hanford, Tulare county, Cal.:

I run your Header this year, and found it the lightest draft Header that I ever run, and I have run a Header for eleven years.

RISEING CITY, NEB., Sept. 3, 1880.

Craver & Steele:—I bought one of your 10-foot Headers with my neighbor this year. We cut three hundred and two acres of wheat and oats in twelve days, and did it with four horses; and we did not change them from Header to Header wagon like a great many had to do, or put on six horses. Your Header is the lightest running Header in Nebraska. Our repairs for this year cost only \$1.65 for reel arms and blades, which we broke cutting through weeds that were in the grain. We like your Header, and every one that saw it run said it beat all the rest.

Yours, &c.,
S. B. HARRIS AND G. HANES.



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CRAYER & STEELE, GRINNELL, IOWA.

DROPPING ATTACHMENT.

We make a Dropping Attachment that is quite simple, to be used when parties desire to cut oats or barley and let it lie in the gravel until cured. It is easily attached and operated by the driver. We do not send these unless especially ordered, and they are charged extra.

YOU CAN cut "down grain" and *save it* with our machine, when no other will do the work, as we can bring scores of men to testify who have used them and seen them work.

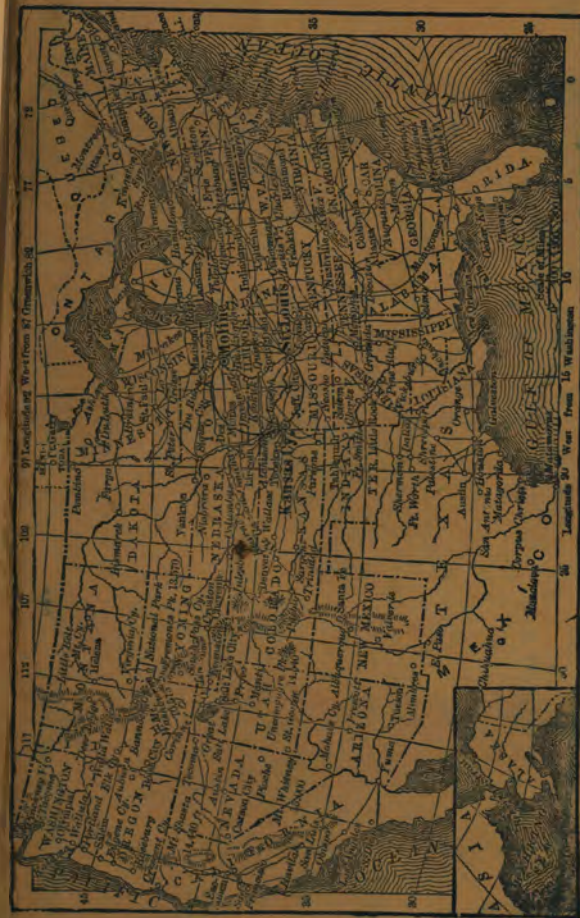
MESSRS. JOHN DAVIS and GREENE SEAGRAVES, of Jerseyville, Ill., write us, August 30, 1880, as follows:

We like your Header very much, and cut over 200 acres with it. It does the work well, is easily managed and light on the team. We have run the Halmes Header more or less for 25 years, and think the Randolph beats it altogether, and it cannot be beat for elevating the grain. It is our opinion that the Randolph Header can't be beat.

HAVANA, ILL., Sept. 3, 1880.

Crayer & Steele Gents:—I purchased one of your Randolph Headers of J. W. Rhodes last harvest, and like it better than any Header I ever saw. Having run the Hodges Headers, I know it beats them all out in every particular. It is lighter draft, easier managed, and can get all the grain out of the corners of the field cleaner than any other machine. I cut 50 acres for one man, of the heaviest wheat I ever saw, and it elevated without any trouble; it is the best elevation I ever saw. It is the simplest and most durable machine in this part of the country. All of my neighbors for whom I cut were delighted with the clean work I did for them. We cut nearly 300 acres of grain, and cut bushes as thick as a man's thumb, and never harmed the sickle in the least. I would advise every farmer to purchase the Randolph Header.

Yours truly, E. DRAKE & COFFEE.



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Craver & Steele, Grinnell, Iowa.

A FAIR PROPOSITION.

We feel confident the Randolph Header, as now made, is the most simple, lightest draft, and easiest managed Header in use; and we are perfectly willing for any man who wishes to buy a Header, to take ours and any other, or all other kinds he may wish to, and give them an equal chance, and if he does not say the Randolph does the work *as well* and *much easier*, and does not prefer it to all others, we will be at the expense of removing ours without cost to him in any way.

In harvesting three hundred acres, a RANDOLPH HEADER will pay for itself, with all the boxes and fixtures, over and above the ordinary reapers and self-binders in use. An investigation of the matter will satisfy any candid man of the above.

MR. PUTNAM ARCHIBALD, of Galt, Sacramento county, Cal., says, in a letter of Dec. 14, 1880:

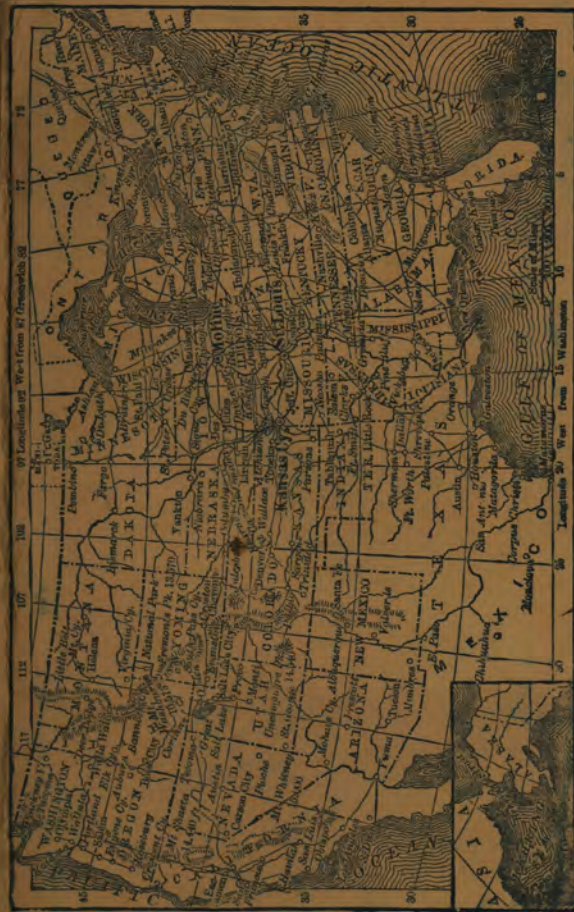
I bought one of your Headers, and like it very much; better than any Header I have seen. The principle is good.

MILTON, CAL., Sept. 14, 1880.

Messrs. Craver & Steele—Dear Sirs:—I have cut over one thousand acres with one of your twelve-foot Headers; some of the land the roughest I ever headed, the hills being so steep that one can scarcely drive a common wagon over them. It is also very rocky. Owing to a defect in the casting of the hub in the master wheel, it broke and detained me one day, which was all the stoppage I had. I think it is decidedly the best Header I ever saw, and if I were to buy another, I would have none but the Randolph. Wishing your firm success,

I am very truly,

DANIEL HUNT.



[illegible]

ARENZVILLE, CASS COUNTY, ILL., Nov. 24, 1880.

Yours, &c.,

This is a detailed historical map of the United States, showing state boundaries, major cities, and geographical features. The map is oriented with North at the top. It includes a scale bar at the bottom indicating distances in miles and kilometers. The map is labeled with state names and major cities, and includes a title 'UNITED STATES' at the top.

The map shows the following states and territories:

- Alaska
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Columbia
- Florida
- Georgia
- Idaho
- Illinois
- Indiana
- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana
- Nebraska
- Nevada
- New Hampshire
- New Jersey
- New Mexico
- New York
- North Carolina
- North Dakota
- Ohio
- Oklahoma
- Oregon
- Pennsylvania
- Rhode Island
- South Carolina
- South Dakota
- Tennessee
- Texas
- Vermont
- Virginia
- Washington
- West Virginia
- Wisconsin
- Wyoming

Major cities shown include New York, Philadelphia, Washington, St. Louis, Chicago, San Francisco, and many others. The map also shows the Great Lakes, the Mississippi River, and the Gulf of Mexico.

The map is titled 'UNITED STATES' at the top. It includes a scale bar at the bottom indicating distances in miles and kilometers. The map is labeled with state names and major cities, and includes a title 'UNITED STATES' at the top.

LENGTH OF STRAW.

Remember always that the longer the straw is cut the looser and better it will lie in the stack. From 15 to 24 inches is a fair length. We advise never to cut it less than 15 inches, unless it is *quite ripe, even and clear of weeds.*

Many use slough grass in topping off their ricks, which is a good way. Others thatch, which we think better. Many are getting to use canvass during the day to protect the grain if the weather is showery, or until the rick can be covered with slough grass, or become sufficiently settled to turn rain.

JOSEPH CARMICHAEL, of Merced county, Cal., writes us Dec. 2, 1880, as follows:

I bought one of your Randolph Headers and HARVESTED ABOUT 900 ACRES. I think it is ahead of others here. It is lighter draft, and has splendid elevating power. Will work on a windy day as well as any other, as the grain heads don't roll back in the elevator as on other machines. Your movable Draper is a good improvement; also your Tumbling Rods. The rods are not half as troublesome as belts, and save considerable time. Therefore, I would recommend your Randolph Header in preference to any other I have seen.

MASON CITY, ILL., Sept. 1, 1880.

Craver & Steele—Gentlemen:—I bought of your agent this season one 10-foot Header, and am well pleased with it. It runs one horse lighter than any Header in the market—will elevate better, and take up down grain better than any Header I ever saw. We cut in six hours 15 acres of heavy wheat, and did it without rushing or worrying ourselves or teams in the least. The Randolph is the best Header for this country as has been proved this season by its ability to do good work in down or lodged grain. It is light, strong and durable, and for ease of management is far ahead of them all. We cheerfully commend it, feeling sure it will give perfect satisfaction.

DAVID BAUM.



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CUTTING FLAX AND TIMOTHY.

You will find the Header a very complete machine for cutting either of these crops. They certainly excel any other kind of a harvesting machine for that purpose. We have sickles with fine-cut sections for this purpose, which work better than the common grain sickle.

Many farmers make money from heading the timothy and then making hay of what remains—nearly all of it—and this sells for almost as much as if not headed, and you thereby get two crops, hay and seed.

Mr. W. G. STONE, of Havana, Ill., writes us, Aug. 31, 1880:

I am very well pleased with the Header purchased of you this year. In draft and work it is far ahead of anything I ever saw.

ALTON, ILL., Sept. 7, 1880.

Craver & Steele—Gentlemen:—I have been using the Haines Header for a number of years, and always had much trouble in working it. I bought the Randolph Header from Milnor, Auten & Co., and worked it through my harvest of 500 acres or more of wheat. Its work was so much better than the Haines, and so much better than I expected, that I am perfectly satisfied and well pleased with its lightness of draft and ease of management, cutting and elevating all the straw from six inches to three feet in length. It is perfectly safe to head and stack from the Header. It is much cheaper, and there is less waste, and when threshed the grain is much brighter than that cut by Reapers. I have three Binders, and expect to make but little use of them from this time on, as I can cut, and did cut wheat the past harvest as green or greener than that we cut with the Reaper, and it kept well and sold for more than my shocked wheat, as it was not bleached. We had some very heavy rains while cutting the last 100 acres, and the ground became so wet we had to finish with the Randolph, as the Haines would not work. We cut down grain and saved it much better, and at less expense, than we ever did with the Reaper or Binder. I think the Randolph Header is the best and cheapest machine for saving wheat that I have ever seen, and I can't say too much for it, according to my judgment.

Yours, &c.,
Z. B. JOB.



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CAPACITY OF THE RANDOLPH.

Some men cut with a single Header last season from 350 to 1,500 acres of grain, and put it in stack in good shape, and out of the way of damage by exposure to the weather, while in the same length of time, with other machines, not half the amount could be *cut alone*; then after the cutting and shocking comes the stacking, which of itself is as much work as the whole harvesting with a Header. There must be a waste every time grain is handled, and take the binding, shocking (and spreading out to dry every time it gets wet, and shocking up again), pitching on wagons in the field, and from the wagons to the stack, each time the grain being drier and more liable to shell out, any one *must admit* there is a great waste; while with a Header, as soon as the sickle cuts it, it falls upon a canvass, and is run into a *tight Header-box*, and ALL the loose grain is put into the stack without any waste.

J. FRIEND, of Farland, Kan., says, June 6, 1880, of the Randolph:

It gives splendid satisfaction in short grain. This is the boss Header. I can cut in good shape 25 to 30 acres in a day.

LA GRANGE, CAL., Oct. 3, 1880.

Crayer & Steele:—The eight-foot Header I bought of you did splendid work. It cuts well; and in elevating it cannot be surpassed. It is light, and two horses can pull it easily. The grain was very heavy and thick, and in places it was six feet high, but it worked to perfect satisfaction on sidehills or level ground. I therefore recommend it as the best Header in the field.

Yours truly,

WM. DOMINICI.



We Make the Only Two-Horse Header in Existence.

Our 8-foot Headers are a grand success; the draft being so light *only two horses being required to run them successfully*. We are the only parties who make a successful two-horse Header in this country. To farmers raising only small fields of wheat they are especially adapted, as with two horses on the Header and with two Header-boxes to take the grain, a good harvest can be secured; cutting about 18 acres per day and putting it in the stack with a small force and at a very light expense.

W. F. MEEKER, J. H. SHARP and K. G. MIDDLETON, of Hanford, Cal., write us as follows, Dec. 12, 1880:

We bought one of your Randolph Headers last summer, and run it 43 days. It gave good satisfaction to us and those we headed for. Knowing what we do of the other Headers, we think the Randolph is the best we have used. We run ours with four common-sized horses, and they stood it as well as the wagon horses.

RISINGS, NEB., August 25, 1880.

Craver & Steele—Dear Sirs:—I bought one of the Weyrich Headers at the beginning of this harvest, and started my cutting with it, but it drew so very heavy for teams and hard for men to handle, that it was impossible to use the machine at all. The machine was very rickety, breaking five bolts in one place in half a day. I returned the Header, and bought one of your Randolph Headers of your agents, J. H. Rising & Co., and I must say it worked the nicest of any machine I ever saw run in the field. It is a strong machine, light and durable, and very easy to manage, and I can cheerfully recommend your Headers to farmers wishing to purchase, to be the best in the field. Wishing you much success in your sales hereafter, I am

Respectfully,

HENRY BARMORE.



HOW TO MAKE HEADER BOXES.

Take two pieces of 2x8, 16 feet long, for bed-pieces, draw the front ends together so they will be 18 inches apart over the front bolster. (They can be kept from slipping on the bolster, by bolting on a false bolster to fit on the other). Then take four pieces of 2x4, 8 feet long, for cross-pieces, bolting these to the bed-pieces, so as to let the low side of the box project about 15 inches further than the high side. This will make the box stand level on the wagon. Make the high side 4½ or 5 feet, and the low side about 20 inches. It is well to make the lower side higher in the middle than at the ends, forming a curve. The corners of the box are not so apt to catch on the elevator. The bottom must be made tight, of flooring, and the sides and ends made of thin siding. You will want lumber as follows for each box, viz:

- 2 pieces 2x8, 16 feet long, for bed-pieces.
- 4 pieces 2x4, 8 feet long, for cross-pieces.
- 4 pieces 2x4, 4½ feet long, for high side.
- 4 pieces 2x4, 20 inches long, for low side.
- 2 pieces 2x4, 3 feet long, for center of ends.
- 144 feet matched flooring, for bottom.
- Siding for side and ends.
- 2 pieces 2x4, 16 feet long, for top rail for sides.
- 8 bolts ½x12 inches, for bed-piece.
- 10 bolts ¾x4¼ inches, for fastening uprights to bottom pieces.

MOAWEQUA, ILL., July 6, 1880.

Messrs. Craver & Steele:—The Randolph Header I bought of your agents, Post & Barton, gives perfect satisfaction. It is the lightest draft, most simple and easily managed I ever saw. It is a lighter draft for two horses than the Hodges is for four.

Yours, &c..

GEORGE BILVER.



Relief in Case of Accidents.

Send for your family physician and surgeon, as speedily as possible, but at once, and until he arrives, treat the sufferer as follows:

BURNS OR SCALDS.—Dissolve two tablespoonsful of baking soda (bi-carbonate of soda) in a pint of water; saturate a cloth with it and apply to the burn, and keep it wet with the solution. Do this with any kind of a burn, and whether the skin is broken or blistered or not.

CLOTHING ON FIRE.—Quickly lay the sufferer down and wrap the body with a blanket or other cloth at hand, thus instantly smothering the flame. Afterward treat the burn as above.

BLEEDING FROM THE NOSE.—Close the blood vessel by pressing with the thumb on the upper lip by the side of the bleeding nostril. At the same time put a cork or something else into the mouth and bite it firmly for several minutes.

BRUISES.—First cleanse the part with warm water, and then cover with linen or flannel and keep wet with salt water. "Stone bruises" are included in the list.

ORDINARY CUTS AND WOUNDS.—Dress with "adhesive plaster," if at hand; if not, saturate a bandage with white of an egg, or mucilage, or varnish, and apply to the wound. Nothing else will be needed.

DIRT IN THE EYE.—The best thing is for a friend to introduce his tongue between the eyelids, wiping the eye with it. The next best thing is for the patient to lie on his back with the affected eye up and pour a small stream of tepid water into the eye until it is washed out. This is easily done.

SUNSTROKE.—Take patient immediately into shade; place in half recumbent position, head raised; loosen clothes about neck and chest; apply immediately cold wet cloths to the head and nape of neck, changing them frequently; send for a physician.

E. CHILDS, of Mason City, Ill., writes, Sept. 2, 1880:

Your 10-foot Header that I bought of your agent here does more than I expected of it. I had a piece of wheat cut that was on very rolling land, such that we could not use the Hodges Header on it at all, but the Randolph worked finely; in fact we cut with it where it was so sideling that I didn't think any machine would work. For lightness of draft and for elevation it cannot be equalled. It is easily handled, and runs fully one horse lighter than any machine on the market. I would recommend all wishing to buy to give the Randolph Header a trial. It is the best on the market.



A FEW OF THE REASONS WHY THE

RANDOLPH HEADER

Is the Best Harvesting Machine to
Buy and Use.

1st. It is the most simple in its gearing of any Header or Harvester made, and is consequently less liable to get out of order.

2d. It weighs several hundred pounds less than any other Header in the country, and is AT LEAST ONE-FOURTH LIGHTER DRAFT, AND WE WARRANT IT TO DO AS MUCH WORK WITH GREATER EASE than any other Header sold in the United States with corresponding length of sickle.

3d. WE CAN TAKE UP DOWN GRAIN WHERE FEW OTHER MACHINES CAN.

4th. IT WILL CUT MORE THAN DOUBLE the amount of grain in a given time than the ordinary reapers and harvesters can, and AT NEARLY ONE-THIRD THE COST.

5th. It saves grain CLEANER than binding machines by ONE TO TWO BUSHELS PER ACRE.

6th. A harvest of FOUR OR FIVE HUNDRED ACRES can be done in a short time and very cheaply. If a man only has a small crop, he can use one of our TWO-HORSE machines, and two Header-boxes and a small force will soon take care of his crop.

7th. IT HAS ABSOLUTELY NO SIDE DRAFT nor weight upon the horses' necks.

8th. With proper care, a machine will last ten to fifteen years.

9th. IN HARVESTING 200 ACRES IT WILL PAY FOR ITSELF, WITH BOXES AND FIXTURES, OVER AND ABOVE THE ORDINARY REAPERS IN USE.

10th. It is a most excellent machine for cutting flax, doing it rapidly and well.

11th. It is the best machine in use for cutting seed and timothy.

12th. Being manufactured at a point farther west than almost any other machine of its size, the freight is much less to the purchaser.

13th. Threshers give headed grain the preference over bound grain from one to two cents per bushel.

14th. It is the best when new, good when old, and will give entire satisfaction.

J. B. CAIN writes us from Harvard, Neb., as follows:

The Header we bought of your agents at Harvard has worked nicely. We cut in 1879, 319 acres in 13 1/2 days, and in 1880, 260 acres in 10 days; no costs for repairs. Only worked four horses while the Hodges and others were taking six.

SAN JOAQUIN CITY, CAL., Sept. 26, 1880.

Messrs. Craver & Steele, Grinnell, Iowa:—I am happy to say that I bought one of your 8-foot Headers from Mr. Shaw, Stockton, and it gave entire satisfaction. I cut 180 acres of grain with it without any delay. I can cut 15 acres per day with it very easy. I have not had a dollar's worth of fixing on it yet, and it stands ready for the next harvest. The main thing is to keep the bolts tight and keep it well oiled. I admire it principally because there is not so much unnecessary wood and iron for the horses to pull around the field, as is the case with most other kinds of headers.

Very truly,

JOSEPH UTTER.



EXAMINE THIS STATEMENT.

Expense of harvesting with the different kinds of machines in general use:

HEADER.

Four horses to propel the machine.....	\$ 00
One man to operate the machine.....	00
Six horses to haul grain as fast as cut.....	300
Three men to drive them (boys will do as well).....	6 00
One loader.....	00
One stacker to stack.....	00
One man at foot of stack to rake down, &c.....	00
Board for seven hands, at 40 cents.....	80
Board for ten horses, at 20 cents.....	200

Twenty-five acres, an average day's work.....\$23 80
An average of a little more per acre than 95 cents.

SELF-BINDER.

Three horses to draw machine.....	\$ 1 50
One driver.....	2 00
Two shockers.....	4 00
Four horses to haul to stack.....	2 00
Four hands to pitch, haul and stack.....	8 00
Board for seven hands, at 40 cents.....	2 80
Board for seven horses, at 20 cents.....	1 40
Wire at 50 cents per acre.....	6 00

Twelve acres, an average day's work.....\$27 70
An average of a little less per acre than \$2 31.

HARVESTERS.

Three horses to draw machine.....	\$ 1 50
One driver.....	2 00
Two binders.....	4 00
One man and a boy to shock.....	3 00
Four horses to haul to stack.....	2 00
Four hands to pitch, load and stack.....	8 00
Board for eight hands.....	3 20
Board for seven horses.....	1 40

Ten acres an average day's work.....\$25 10
An average of \$2 51 per acre.

We think any candid man will admit that the above estimate and comparison is a fair one, and does not give the Header any advantages that are not accorded to the Harvester and Self-Binder, and it is clearly

shown that the total expense of harvesting with a Header is *not half* as much as harvesting with other machines.

COMPARISON NO. 2.

To cut a given amount of grain in the same time with the three kinds of machines named above, there would be required, men, horses and machines as shown below:

	Header.	Harvester.	Self-Binder.
Men.....	7	20	14 7-12
Horses.....	10	17½	14 7-12
Machines.....	1	2½	2 1-12

WATSONVILLE, CAL., Sept. 28, 1880.

Messrs. Crayer & Steele—Dear Sirs:—I hardly know where to commence to describe my admiration of the Randolph Header, for if any machine was ever critically and most severely tested it was the one I bought this year; for I tried it up hill and down, on the level and on side hills, over roots, rocks and ruts, squirrel holes and ditches; in heavy grain and light, in grain one foot high, and in grain seven foot high and as thick as it is possible for grain to stand, and never found anything in my season's run but what I could cut and elevate in good shape, and with perfect ease. I live but two miles from the ocean, and consequently it is so foggy that it is almost, in fact quite, noon before we can commence to cut, so that we cannot make a large average daily. Yet, notwithstanding the fact, I cut 10 acres per day with four little mustang horses, the heaviest of which weighs less than 900 pounds, and they got fat every day. I worked the same team all the season, even on the hills, one of which was so steep that I upset the whole business, Header and all; and others so steep I had to have my whole crew ride on the wagons and Header to keep from upsetting. I can cut anything or anywhere a Header wagon can stand, and can cut more in a day than any other Header can, because I can turn so much shorter. As to lightness of draft, it is not to be compared to the others, as I know it runs twice as light as they do. So after the severest trial I will say that it is the best Header I ever saw, and I would not give mine for two of the others. I cordially invite you to use my name or refer any one to me by letter or otherwise in regard to the machine, for I can and will willingly substantiate all I have said in regard to it.

I remain, yours respectfully, A. P. ROACHE.



Saving and Having.

Either a man must be content with poverty all his life, or else be willing to deny himself some luxuries, and save to lay the base of independence in the future. But if a man defies the future, and spends all he earns (whether his earnings be one dollar or ten dollars every day), let him look for lean and hungry want at some future time, for it will surely come, no matter how he thinks. To save is absolutely the only way to get a solid fortune; there is no other certain mode. Those who shut their eyes and ears to the plain facts will be forever poor, and for their obstinate rejection of the truth, mayhap die in rags and filth. Let them so die and thank themselves. But, no! they take a sort of recompense in cursing fate. Great waste of breath. They might as well curse mountains and eternal hills. For I can tell them Fortune does not give away her real and substantial goods. She sells them to the highest bidder—to the hardest and wisest worker for the boon. Men never make as fatal a mistake as when they think themselves creatures of fate; 'tis the sheerest folly in the world. Every man may make or mar his life, whichever way he may choose. Fortune is for those who, by diligence, honesty and frugality, place themselves in position to grasp hold of fortune when it appears in view.

From JOSEPH SPLITTER, McPherson, Kansas:

I purchased a Randolph Header of your agents at McPherson, which I desire to say I am well pleased with. I cut 425 acres in 19 days, and one day cutting 35 acres with four small horses. It is lighter with four horses than the Hodges is with six. I also used the Dropping Attachment, which is a perfect success.

AUBURN, ILL., Sept. 11, 1880.

Messrs. Craver & Steele:—While Mr. Ross was here this summer I was telling some of my experience with Headers. We have run a Maybury Header for the last sixteen years. Last year we cut 70 acres with the Reaper before we started the Header; while running the Header we put in the stack on an average 22½ acres per day. When done heading, we put the same men and same number stacking the wheat cut with the Reaper, and could only stack twenty acres per day, and it worked us much harder than the Header did. With a good stacker I consider there is less danger of damage by wet weather than to put it in the shock.

Yours with pleasure,

B. F. WORKMAN.

Business Laws.

Ignorance of the law excuses no one.
An agreement without consideration is void.
Signatures made with a lead pencil are good in law.
A receipt for money paid is not legally conclusive.
The acts of one partner bind all the others.
Contracts made on Sunday cannot be enforced.
A contract made with a minor is void.
A contract made with a lunatic is void.
Principals are responsible for the acts of their agents.
Agents are responsible to their principals for errors.
Each individual in a partnership is responsible for the whole amount of the debts of the firm.
A note given by a minor is void.
Notes bear interest only when so stated.
It is not legally necessary to say on a note, "for value received."
A note drawn on Sunday is void.
A note obtained by fraud, or from a person in a state of intoxication, cannot be collected.
If a note be lost or stolen, it does not release the maker; he must pay it.
An endorser of a note is exempt from liability if not served with notice of its dishonor within twenty-four hours of its non-payment.

Mr. A. P. STRONG, of Rock, Kansas, writes in a letter dated Sept. 1, 1880:

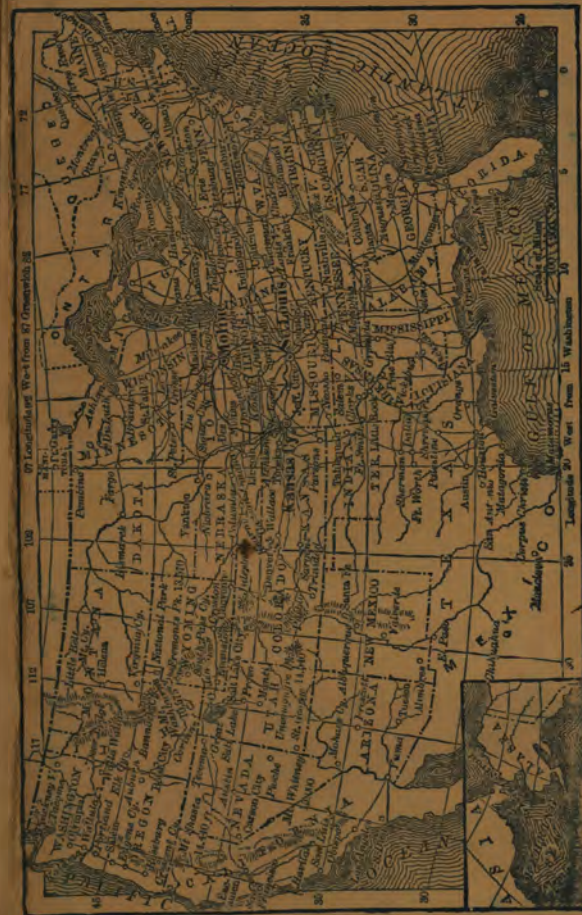
I have run my Header three years, and am well pleased with it. Have kept the Header in my barn only when at work, and it is almost as good as when purchased.

FIDELITY, JERSEY COUNTY, ILL., Sept. 6, 1880.

Messrs. Craver & Steele, Grinnell, Iowa:—I bought a Randolph Header of your agent at Jerseyville, and was well pleased with it. It runs light, and works easy on team. I have used Haines Headers for twenty-five years, and think the Randolph far better and lighter draft on horses. As for expense of harvesting, I cut 165 acres, and it cost about one dollar per acre in stack to hire everything. It did not cost me but forty cents per acre, as there are three of us, and we did not have to hire so much. I had rather cut wheat with a Header, and stack it, than to stack it out of the shock; can do it for less money.

Yours truly,

ISAAC R. ELY.



USEFUL TABLES.

Quantity of Seed Required to Plant an Acre.

Wheat.....	1½ to 2 bu.	Beets.....	3 lbs.
Rye.....	1½ bu.	Carrots.....	3 lbs.
Oats.....	3 bu.	Ruta Bagas.....	2 lbs.
Barley.....	2 bu.	Millet.....	½ bu.
Peas.....	2 to 3 bu.	Clover, white.....	4 qts.
White Beans.....	1½ bu.	Clover, red.....	8 qts.
Buckwheat.....	4 bu.	Timothy.....	6 qts.
Corn, broadcast.....	½ bu.	Orchard grass.....	2 bu.
Corn, in drills.....	2 to 3 bu.	Red Top.....	1 to 2 pks.
Corn, in hills.....	4 to 8 qts.	Blue grass.....	2 bu.
Broom corn.....	½ bu.	Mixed lawn grass.....	1 to 2 bu.
Potatoes.....	10 to 15 bu.	Tobacco.....	2 oz.

Number of Pounds to Bushel.

Wheat.....	60	Dried peaches.....	33
Shelled corn.....	56	Dried apples.....	24
Corn in ear.....	70	Onions.....	57
Rye.....	56	Salt.....	50
Oats.....	32	Stone coal.....	80
Barley.....	48	Malt.....	34
Irish potatoes.....	60	Bran.....	20
Sweet potatoes.....	46	Plastering hair.....	8
White beans.....	60	Turnips.....	57
Castor beans.....	46	Unslacked lime.....	80
Clover seed.....	60	Hungarian grass seed.....	45
Timothy seed.....	45	Corn meal.....	50
Flax seed.....	56	Ground peas.....	24
Hemp seed.....	44	Onion sets.....	14
Peas.....	60	Onion tops.....	25
Blue grass seed.....	14	Onion bottoms.....	35
Buckwheat.....	52	Coke.....	40

Hills in an Acre of Ground.

40 feet apart.....	27 hills	8 feet apart.....	680 hills
35 " ".....	35 hills	6 " ".....	1210 hills
30 " ".....	48 hills	5 " ".....	1742 hills
25 " ".....	69 hills	3½ " ".....	3556 hills
20 " ".....	108 hills	3 " ".....	4840 hills
15 " ".....	193 hills	2½ " ".....	6969 hills
12 " ".....	302 hills	2 " ".....	10890 hills
10 " ".....	435 hills	1 " ".....	43560 hills

Read what Wm. HUMPHREY, M. D., of Auburn, Ill., has to say of the Randolph. He writes as follows, Aug. 10, 1880:

The Randolph Header I bought of Landon & Workman has filled my most sanguine expectations. We only cut about 150 acres with it. Our wheat was very heavy, filling a wagon-bed in 25 or 30 rods. Draft light on the teams. I can cheerfully commend it to my brother farmers.

Time Required for Digestion of Several Articles of Food.

	<i>h. m.</i>		<i>h. m.</i>
Apples, sweet and mellow.....	1 50	Gelatine, boiled.....	2 30
" sour and mellow.....	2	Heart, animal, fried.....	4
" sour and hard.....	2 50	Lamb, boiled.....	2 30
Barley, boiled.....	2	Liver, beef's, boiled.....	2
Beans, boiled.....	2 30	Meat and vegetables hashed.....	2 30
Beans and green corn boiled.....	3 45	Milk, boiled or fresh.....	2
Beef, roasted rare.....	3	" boiled or broiled.....	3 15
" roasted dry.....	3 30	Oysters, raw.....	2 55
" steak, broiled.....	3	" roasted.....	3 15
" boiled.....	2 45	" stewed.....	3 30
" boiled, with mustard, etc.....	3 30	Parsnips, boiled.....	2 30
" tendon, boiled.....	5 30	Pigs, sucking, roasted.....	2 30
" tendon, fried.....	4	Pigs' feet, soured, boiled.....	1
" old salted, boiled.....	4 15	Pork, fat and lean, roasted.....	5 15
Beets, boiled.....	3 45	" recently salted, " boiled.....	4 30
Bread, corn, baked.....	3 15	" fried.....	4 15
" wheat, baked, fresh.....	3 30	" broiled.....	3 15
Butter, melted.....	3 30	" raw.....	3
Cabbage, crude.....	2 30	Potatoes, boiled.....	3 30
" crude, vinegar.....	2	" baked.....	3 20
" " " boiled.....	4 30	" roasted.....	2 30
Carrots, boiled.....	3 15	Rice, boiled.....	3 30
Cartilage, boiled.....	4 15	Sago, boiled.....	1 45
Cheese, old and strong.....	3 30	Sausage, pork, boiled.....	3 20
Chickens, fricasseed.....	2 45	Soup, barley.....	1 30
Custard, baked.....	2 45	" beef and vegetable.....	4
Duck, roasted.....	4	" chicken.....	3
Dumplings, apple, boiled.....	4 30	" mutton and oyster.....	3 30
Eggs, boiled hard.....	3 30	Sponge cake, baked.....	2 30
" soft.....	3	Suet, beef, boiled.....	5 30
" fried.....	3 30	" mutton, boiled.....	4 30
" uncooked.....	2	Taploca, boiled.....	2
" whipped, raw.....	1 30	Tripe, soured.....	1
Fish, cod or flounder, fried.....	3 30	Turkey, wild, roasted.....	2 18
" cod, cured, boiled.....	2	" domestic, roasted.....	2 30
" salmon, salted and boiled.....	4	" broiled.....	2 25
" trout, boiled or fried.....	1 30	Turnips, boiled.....	3 30
Fowls, boiled or roasted.....	4	Veal, roasted.....	4
Goose, roasted.....	3	" fried.....	4 50
		" brains, boiled.....	1 45
		Venison steak, broiled.....	1 35

From A. W. RISING, of Risings, Neb.:

I purchased of your agents, J. H. Rising & Co., last year, a Randolph Header, and cut 375 acres without one cent's expense; and for lightness of draft and durability the Randolph has no equal. I run my Header with four light horses—not weighing over 850 pounds each—cutting from 25 to 30 acres per day. I have had experience in running Headers; have run the Haines for seven years, always using six horses, and hard work at that. This year it cost me less than 25 cents per acre to put my grain in the stack.



This rule will apply to a crib of any size or kind. Two cubic feet of good, sound, dry corn in the ear will make a bushel of shelled corn. To get, then, the quantity of shelled corn in a crib of corn in the ear, measure the length, breadth and height of the crib inside the rail; multiply the length by the breadth, and the product by the height; then divide the product by two, and you have the number of bushels of shelled corn in the crib.

To find the number of bushels of apples, potatoes, etc., in a bin, multiply the length, breadth and thickness together, and this product by eight, and point off one figure in the product for decimals.

Never put off till to-morrow what you can do to-day.
Never trouble another for what you can do yourself.
Never spend your money before you have it.
Never buy what you don't want because it is cheap.
Pride costs more than hunger, thirst and cold.
We seldom repent for having eaten too little.
Nothing is troublesome that we do willingly.
How much pain the evils have cost us that have never hap-
pened.

Take things always by the smooth handle.
When angry, count ten before you speak ; if very angry,
count a hundred.

To find the area of a circular field, measure the distance across the centre of the field, and multiply that distance by itself, and that product by 7,854; point off the four right hand figures, and the result will be in the same denomination as the distance measured across the field; if in rods divide by 160, if in yards by 4,840, and if in feet by 41,760, to find the number of acres.

TO FIND the area of a three-cornered field, multiply the length of the longest side by one-half the length of a line measured from the opposite corner, so as to strike the longest side at right angles.

TO FIND the area of a field having two parallel sides of equal or unequal length, multiply the sum of the parallel sides by one-half the perpendicular distance between them.

[illegible]

CRAYER & STEELE, GRINNELL, IOWA.

[illegible]

CRAYER & STEELE, GRINNELL, IOWA.

[illegible]

CRAVER & STEELE, GRINNELL, IOWA.

Date. POCKET ACCOUNTS. Dollars. Cts.

CRAVER AND STEELE

→*GRINNELL, IOWA*←

INTEREST TABLE.

TEN PER CENT.

Time.	\$1	\$2	\$3	\$4	\$5	\$10	\$100	\$1000
1 Day	0	0	0	0	0	0	3	28
2 "	0	0	0	0	0	0	6	56
3 "	0	0	0	0	0	0	8	83
4 "	0	0	0	0	0	1	11	1 11
5 "	0	0	0	0	0	1	14	1 39
6 "	0	0	0	0	0	2	17	1 67
7 "	0	0	0	1	1	2	19	1 94
8 "	0	0	0	1	1	2	22	2 22
9 "	0	0	0	1	1	3	25	2 50
10 "	0	0	0	1	1	3	28	2 78
15 "	0	0	1	2	2	4	42	4 17
20 "	0	1	2	2	3	6	56	5 56
30 "	1	2	3	3	4	8	83	8 33
60 "	2	3	5	7	8	17	1 67	16 67
90 "	3	5	8	10	12	25	2 50	25 00
1 Mo.	1	2	3	3	4	8	83	8 33
2 "	2	3	5	7	8	17	1 67	16 67
3 "	3	5	8	10	12	25	2 50	25 00
4 "	3	7	10	13	17	33	3 33	33 33
5 "	4	8	13	17	21	42	4 17	41 67
6 "	5	10	15	20	25	50	5 00	50 00
7 "	6	12	18	23	29	58	5 83	58 33
8 "	7	13	20	27	33	67	6 67	66 67
9 "	8	15	23	30	38	75	7 50	75 00
10 "	8	17	25	33	42	83	8 33	83 33
11 "	9	18	28	37	46	92	9 17	91 67

It will be to your INTEREST, and, therefore should be a matter of PRINCIPLE to buy the best HEADER in the market, which is the RANDOLPH, made by

CRAVER & STEELE, Grinnell, Ia.

