

1879

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# WILBER'S EUREKA MOWER

DIRECT DRAFT.

THE LARGEST, CHEAPEST, LIGHTEST DRAFT, AND THE  
BEST MOWER IN THE WORLD.



MANUFACTURED BY THE

**Eureka Mower Co.,  
TOWANDA, PA.**

—o—  
**OFFICERS.**

*E. T. FOX, Pres't.    N. N. BETTS, Treas'r.    J. W. MIX, Sec'y.*

—o—  
**DIRECTORS.**

*JOS. POWELL,                      V. E. PIOLLET,                      R. E. WALSH,  
W. T. DAVIES,                      N. N. BETTS,                      E. T. FOX.*

**RETAIL PRICE LIST.**

|                                      |          |
|--------------------------------------|----------|
| Size A—6 Feet Cutter-Bar, . . . . .  | \$105 00 |
| Size C—5 Feet Cutter-Bar, . . . . .  | 90 00    |
| Size D—4¼ Feet Cutter-Bar, . . . . . | 75 00    |

Delivered on Cars in Towanda, Pa.

CASH ORDERS RECEIVE A LIBERAL DISCOUNT.

**CHAMBERLAIN BROS., Agents, Farmington, N. H.**

OFFICE OF EUREKA MOWER COMPANY,  
TOWANDA, BRADFORD Co., Pa., JAN. 1, 1879. )

"The Eureka Mower Co." greets the patrons of Towanda Eureka Mower Co., (its predecessor,) and extends a friendly hand to all competitors. We have purchased the *entire business* of Towanda Eureka Mower Co., all patents, franchises, machinery, tools, machines, book account, etc., and enter the field with the determination to make the Eureka the Standard Mower in the market. The principles of Direct Draft appeal to the common sense of the farmer. The great capacity of the Mower attracts the practical man. The draft of the Six feet Eureka, size "A," is below the average draft of the Side Cut Four feet Mower. Few changes have been made in the construction of the Mower, yet such as have been made show the careful interest the New Company have in giving the farmer "*the best mower in the world*" The St. Paul Harvester Works will manufacture and supply the West and States bordering on the Mississippi river. This company will give its immediate attention to the Central, Southern and Eastern States. We have reduced the price of the Eureka, at the same time we raise the standard of material and workmanship. We shall not only make "the best Mower in the world" but fix a price so the farmer can get the best, at very reasonable rates. The Eureka Mower is a *success*. The day for speculation as to its work and durability has passed. The testimony in its favor is rolling in and a demand for more and larger machines steadily growing. Farmers having twenty or thirty acres of grass and upwards to cut cannot afford to be without a mowing machine, and when the many and great advantages, found in using the Eureka Mower are known, the farmer cannot afford to buy any mower but the Eureka. Ease of draft, *quick cutting* and *quick curing* is the pass-word for the Eureka. To own and use the Eureka Mower, size "A," cutting a Six feet swath, enables you to "make hay while the sun shines," escape the afternoon shower, and save at least *one-third* the cost of gathering the hay crop. For one day, at least, lay prejudice and misapprehension aside, and TRY the Direct Draft Mower, *it will pay*. Correspondence solicited.

### Points of Superiority and Advantages Claimed for Wilber's Direct Draft Eureka Mower.

1st—*ABSOLUTE DIRECT DRAFT*.—A principle that all mowing machine inventors and manufacturers have been trying to arrive at for years, and which several claim to have achieved, notwithstanding the mechanical fact that the cutter bar is located on one side.

Although to accomplish this we drive one horse in the standing grass, we are enabled to cut the grass trampled by using a long neck-yoke and whiffletrees, and placing the horses outside the cut—cutting against the lodge of the trampled grass on the return of the machine—always mowing on one side of the piece or lot.

2nd—*REVERSIBILITY*.—Which gives the choice of the side to mow on, working the machine back and forth on the side hills, cutting back and forth across lodged grass, cutting across dead furrows instead of mowing with them, always cutting long swaths—all features of great advantage in practical work.

3rd—*EASE OF DRAFT*.—Admitting the use of a five feet or six feet cutter-bar without overworking the horses. By practical use we have fully demonstrated that a six feet bar is worked with less power than required on the average to work a cutter-bar four feet long on side cut mowers.

4th—*RAPIDITY OF CURING*.—Caused by leaving the cut grass nearly standing—the most favorable position for the sun and air to have full effect upon *every part of it*. Nothing more is necessary for curing rapidly and evenly. The side cut mowers are compelled to drive horses and mower over the cut grass, leaving it in a flat and compacted position, the top only being exposed to the air and sun, which is over-cured, while the grass is still green under.

5th—*BETTER HAY*.

6th—*TEDDERS ARE USELESS*, and in fact an injury when used after the Eureka.

7th—*SUPERIOR CONFORMITY TO SURFACE*.—Obtained by the use of the New Floating Finger Bar

8th—*SIMPLICITY OF CONSTRUCTION*.—Doing away with the bevel gear, and other “complicated and expensive features” of the old side cut principle.

The use of Wilber's Eureka Mower enables the farmer to cut grass rapidly and cure quickly and evenly. By rapid cutting the extra time gained for curing is of immense importance, coming as it does in most cases during the middle of the day when the sun is at the meridian. This, together with the very favorable position of the grass ensures early gathering of the hay, often saving it from the afternoon showers.

By curing evenly a far better quality of hay is obtained

On all of the above named points we challenge a thorough, exhaustive, practical examination and test in the field by every farmer who intends to purchase a mower.

For further information address

**Eureka Mower Company.**

## DESCRIPTION.

The wheels are large and set directly back of the ends of the cutter-bar, which is consequently directly in front of the machine.

The cutter-bar is either four feet three inches, five feet or six feet long, can be set to cut any required height, and is raised by the driver to pass obstructions with perfect ease.

The machine has no bevel gearing, spur gear being used throughout. It has all the advantages of a jointed bar, and readily adapts itself to the unevenness of the ground.

The bar being in front, obstacles are more readily seen and avoided than when the bar is at one side.

The pitman works at right angles with the knife, consequently there is not the jar which is so unpleasant and objectionable in all machines where both are in the same line. It is always in the same relative position to the knife, and works equally well whatever the position of the cutter-bar.

The machine can be oiled, obstacles can be removed from the guards, and bar folded without the driver getting off.

It is readily thrown out of gear by hand or foot, and backs out of gear.

It rides very easy and affords greater safety to the driver than any other machine.

The horses are placed far apart, with a long neck yoke and eveners, and in use the machine is driven like a side-hill plow or a horse-rake, back and forth on the same side of the piece. One horse walks in the standing grass entirely beyond the cut, pressing it down in the opposite direction from which the next cut will be made. The other walks in the cleared track, outside the standing grass.

The harvests of the past six years have fully demonstrated that **Oats** and **Barley** can be cut with the **Eureka Mower** to great advantage, and then raked with a horse-rake.

EXTRAS LIST NO. 1.

Extra Parts for WILBER'S EUREKA MOWER (wood frame)  
built in 1875 to 1879.

|    |                               |     |    |                     |                              |    |
|----|-------------------------------|-----|----|---------------------|------------------------------|----|
| 26 | Axle.....                     | \$3 | 00 | 47                  | Pawl Right.....              | 05 |
| 56 | " Cap Right.....              | 25  |    | 48                  | " Left.....                  | 05 |
| 57 | " Cap Left.....               | 25  |    | 49                  | " Holder Right.....          | 50 |
| 68 | " Washer.....                 | 05  |    | 50                  | " Left.....                  | 50 |
| 30 | Bar (Finger) Drilled.....     | 6   | 00 |                     | Pole Complete.....           | 4  |
| 31 | " " Complete.....             | 13  | 50 |                     | Punch.....                   | 10 |
| 13 | " Hook.....                   | 50  |    | 45                  | Ratchet Gear Right.....      | 75 |
| 58 | Box Back.....                 | 50  |    | 46                  | " Left.....                  | 75 |
| 62 | " Right Crank.....            | 1   | 00 | 75                  | Rods Long Guide.....         | 20 |
| 63 | " Left.....                   | 1   | 25 | 76                  | " Short Guide.....           | 10 |
|    | Bolt Shoe and Bar.....        |     |    | 71                  | Rock Pin and Nuts.....       | 1  |
|    | " Guard.....                  |     | 05 | 85                  | " Shaft.....                 | 1  |
|    | " Track Cleaver.....          |     | 10 |                     | Rivets, per pound.....       | 30 |
|    | " Lead Wheel.....             |     | 10 | 22                  | Side Arm Right.....          | 1  |
|    | Banger Iron Bolt.....         |     | 20 | 23                  | " Left.....                  | 1  |
| 20 | Clutch.....                   | 50  |    | 21                  | " Socket.....                | 30 |
| 11 | " Fork.....                   | 50  |    | 27                  | Shaft Back.....              | 3  |
| 44 | Crank Balance Complete.....   | 1   | 00 | 28                  | " Crank.....                 | 1  |
| 70 | " Pin and Nut.....            | 50  |    | 29                  | " Complete.....              | 3  |
|    | Cold Chisel.....              | 25  | 37 | 38                  | Shoe Right.....              | 2  |
|    | Doubletree.....               | 75  |    | 37                  | " Left.....                  | 3  |
|    | Evener Back.....              | 60  |    | 64                  | " Cap.....                   | 10 |
|    | Draft Iron Right.....         | 30  |    | 65                  | " Steel Right.....           | 15 |
|    | " Left.....                   | 30  |    | 65                  | " Left.....                  | 15 |
|    | " Chain.....                  | in. | 25 | 40                  | Shield.....                  | 75 |
|    | " Rod.....                    | 30  |    | 69                  | Shipper Rig Complete.....    | 75 |
| 84 | Guard Overlap.....            | 40  |    | 79                  | " Bottom.....                | 30 |
| 16 | Hoisting Strap and Chain..... | 40  |    | 80                  | " Handle.....                | 30 |
| 51 | " Rig complete.....           | 1   | 50 | 81                  | " Pin.....                   | 20 |
| 52 | " Lever Rod.....              | 75  |    | 72                  | Sections.....                | 12 |
| 53 | " Chain Wheel.....            | 50  |    | 41                  | Seat.....                    | 1  |
| 54 | " Pawl.....                   | 20  |    | 74                  | Seat Spring.....             | 2  |
| 55 | " Spring.....                 | 05  |    |                     | Sliding Hasp and Banger..... | 1  |
|    | " Lever Handle.....           | 25  |    |                     | Tongue and Banger Iron.....  | 60 |
| 33 | Knife Size "A".....           | 5   | 00 | 86                  | Thimble Piston.....          | 25 |
|    | " " "B".....                  | 4   | 50 | 73                  | " Lead Wheel.....            | 20 |
| 34 | " Head.....                   | 1   | 00 | 4                   | Tongue Hook.....             | 20 |
| 35 | " Holder.....                 | 10  |    | 59                  | " and Axle Strap Right.....  | 30 |
| 26 | " Heel.....                   | 10  |    | 60                  | " Left.....                  | 30 |
| 10 | Linch Pin.....                | 05  |    | 66                  | Tool Box.....                | 1  |
|    | Neck Yoke.....                | 1   | 00 | 77                  | Track Cleaver.....           | 50 |
| 5  | " " Iron.....                 | 20  |    | 78                  | " Left.....                  | 50 |
| 6  | " " Ring.....                 | 10  |    | " " Head Right..... | 25                           |    |
| 7  | " " Staple.....               | 10  |    | " " Left.....       | 25                           |    |
| 8  | " " Ferule.....               | 05  |    |                     | Under Draft Complete.....    | 3  |
|    | Nut Rock.....                 | 10  |    |                     | Whiffletrees.....            | 50 |
|    | " Crank Pin.....              | 10  |    | 3                   | " Chevis.....                | 20 |
|    | " Pitman.....                 | 05  |    | 12                  | " Hook.....                  | 15 |
|    | Oil Can.....                  | 20  |    | 37                  | Wheel Drive.....             | 10 |
|    | " Holder.....                 | 10  |    | 42                  | " Large Gear.....            | 2  |
| 9  | Oil Cup Cap.....              | 05  |    | 43                  | " Pinion.....                | 75 |
| 86 | Pitman Head Upper.....        | 1   | 20 | 61                  | " Lead.....                  | 1  |
| 19 | " Lower.....                  | 80  |    |                     | Wrench.....                  | 60 |
| 33 | " Rod.....                    | 75  |    |                     |                              |    |

Parts of **A** and **C** Machines are the same, except where the width of the Machine varies their length.

Before ordering Extras, consult the Diagram carefully, and state in the order both the number and the name of the parts wanted, as well as the number of your Machine.

Be accurate in giving shipping directions ;—the address and how they are to be sent.

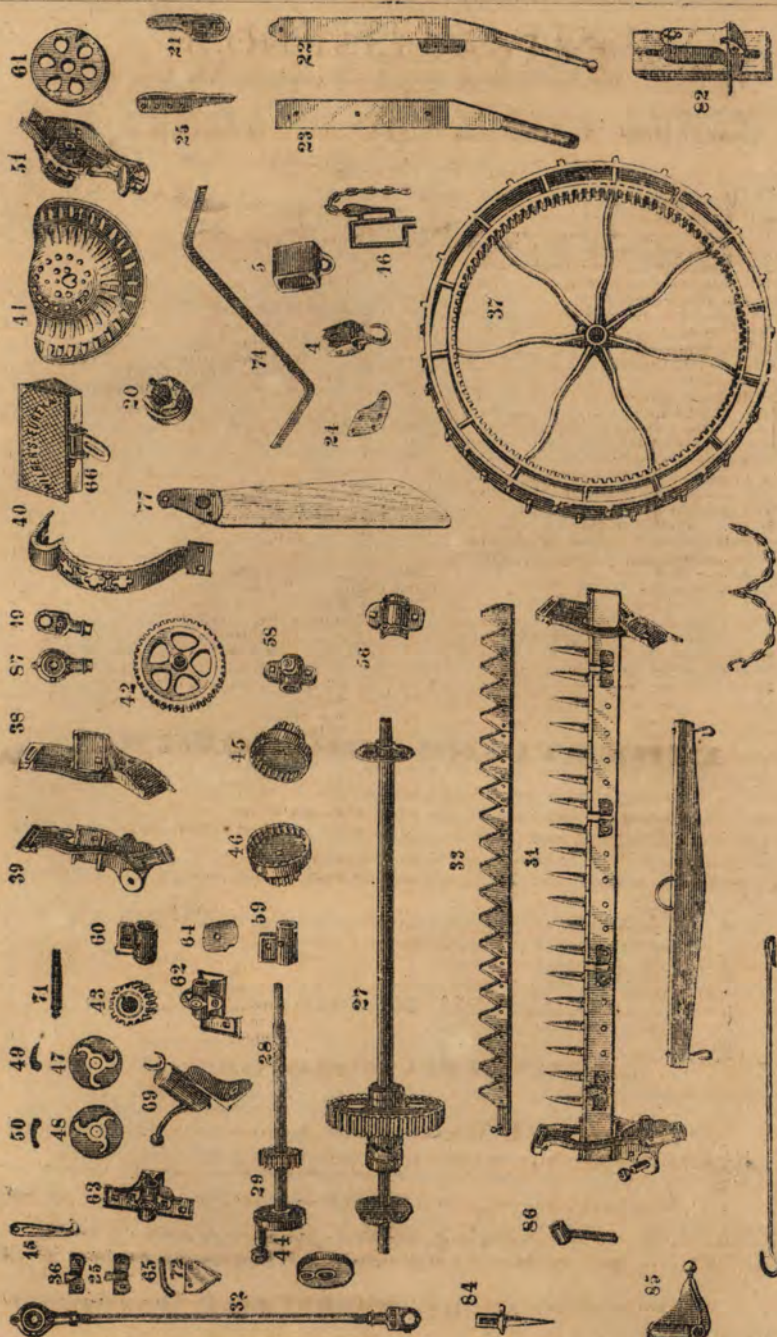


DIAGRAM OF EXTRA PARTS OF EUREKA MOWER.

## EXTRAS LIST NO. 2.

Extra Parts for WILBER'S EUREKA MOWER, old patterns, built prior to 1875, differing from List No. 1. For parts not named on this List, see List No. 1. Extra parts on List No. 1, not on this List, will fit the old Machine.

| No. on<br>Pattern. | Name of Piece.                       |        | For Mowers numbered from —                       |
|--------------------|--------------------------------------|--------|--------------------------------------------------|
| 1868               | Rock Shaft.....                      | \$1 50 | 1 to 700.                                        |
| 1871               | .....do.....                         | 1 50   | 700 to 3,000.                                    |
| 1872               | .....do.....                         | 1 50   | 3,000 to 5,000.                                  |
| 1873               | .....do.....                         | 1 50   | 5,000 to 6,000, and Towanda build from 1 to 100. |
| 1868               | Guard Finger.....                    | 40     | 1 to 700.                                        |
| 1871               | .....do.....                         | 40     | 700 to 5,000.                                    |
| Steel              | .....do.....                         | 50     | 5,000 to 6,000, and Towanda build 1 to 100.      |
| 84A                | .....do.....                         | 40     | 6,000 to 7,000, and Towanda build 100 to 500.    |
| 1868               | Shoes.....Right, 2 25.....Left, 3 00 |        | 1 to 700.                                        |
| 1871               | .....do.....do, 2 25.....do, 3 00    |        | 700 to 3,000.                                    |
| 1872               | .....do.....do, 2 25.....do, 3 00    |        | 3,000 to 5,000.                                  |
| 1873               | .....do.....do, 2 25.....do, 3 00    |        | 5,000 to 6,000, and Towanda build 1 to 100.      |
| 1874               | .....do.....do, 2 25.....do, 3 00    |        | 6,000 to 7,000, and Towanda build 100 to 500.    |
| 1868               | Knives.....                          | 4 50   | 1 to 700.                                        |
| 1871               | do.....                              | 4 50   | 700 to 1,200.                                    |
| 1868               | Knife Sections 3x3 3/4.....          | 12     | 1 to 700.                                        |
| 1874               | Knife Sections 3x3 1/2.....          | 12     | 700 to 7,000, and Towanda build 1 to 500.        |
| 1871               | Knife Thimbles.....                  | 10     | 1 to 5,000.                                      |
| 1873               | .....do.....                         | 10     | 5,000 to 6,000.                                  |
| 1868               | Rock Shaft Pin.....                  | 1 00   | 1 to 700.                                        |
| 1871               | .....do.....                         | 1 00   | 700 to 6,000.                                    |
| 1868               | Knife holder.....                    | 10     | 1 to 700.                                        |
| 1871               | .....do.....                         | 10     | 700 to 5,000.                                    |
| 1873               | .....do.....                         | 10     | 5,000 to 7,000.                                  |
| 1872               | Hoisting stirrup and Chain.....      | 60     | 3,000 to 5,000.                                  |
| 1872               | Hoisting Lever Bed.....              | 75     | 3,000 to 5,000.                                  |
| 1868               | Large Gear Wheel.....                | 2 00   | 1 to 700.                                        |
| 1868               | Whiffletree Hook, malleable.....     | 10     |                                                  |
| 1868               | Tongue and Axle Strap.....           | 30     | 1 to 700.                                        |
| 1868               | Shipper Lever.....                   | 25     | 1 to 6,000.                                      |
| 1868               | Clutch.....                          | 50     | 1 to 700.                                        |

(\*) In ordering Shoes, state whether "Right or "Left."

## DIRECTIONS FOR MOWING.

1. It is important to have the horses and driver accustomed to the Eureka before trying to mow. We *urge* in all cases that the horses be attached to the machine and driven back and forth in a good place, without cutting, until they drive well wide apart *entirely outside the cut*, and turn handy, and until the driver becomes accustomed to reigning the horses, raising the cutter bar, and putting machine in and out of gear.

2. Oil the thimble on the *knife head, pitman heads, and crank boxes*, frequently.
3. Mow headlands first for turning.
4. Always mow back and forth.
5. In turning at the end raise the bar.
6. If the wind is blowing, go on the lea side to mow.
7. Mow from the lower hill side.
8. Always back when you try to raise the bar while in the grass.
9. In raising over an obstruction keep your foot on the dog, to allow the bar to return to the ground.
10. Don't continue cutting when any obstructions are on the guards.
11. In mowing, should the machine work hard, or there be any unnatural noise, STOP, and do not go on until the difficulty is discovered and remedied.
12. When the grass gums the knife, pour some water occasionally upon it.
13. In changing knives, clean knife bar and finger bar, keeping knife bar perfectly clean on the under side.
14. Never leave the knife in the machine when through cutting.
15. If the Eureka fails to cut a smoother swath than any other mower, it will be for one of two reasons—first, the horses are *not spread properly*, or you are trying to cut wider than the length of finger bar, by running the lead wheel too close to the standing grass.

# DIRECTIONS

## FOR SETTING UP THE EUREKA MOWER.

*Be Sure and Read the Following Directions for Setting up Mower*

BEFORE YOU UNDERTAKE TO PUT IT TOGETHER.

1—Place drive wheels on machine having corresponding number, and each the side it is marked.

2—Have the number on knives and on finger bar correspond with number on Mower.

3—Take out *small pin*, located near rock shaft pin, on left shoe, remove bolt and plate from rear end of right shoe, put finger bar in place by sliding left shoe on left side arm, fastening the same by replacing *small pin*: connect right shoe and arm by bolt and plate, cut the thread on bolt to keep the nut from losing off.

4—Replace connecting rod and rock shaft.

5—Place hoisting gear on right side of platform, fastening it by a bolt in the platform and by draft bolt.

6—To put on guide rods: Place one end of long rods in axle caps on each side,—place them toward the centre of machine, and spring forward end in point of shoe. Short rods go on under side of frame—each side—in the groove of front washers, the rods pointing toward the centre of axle. Loosen the nuts on bolts holding washers to place rods.

7—Place the V lead wheel on left shoe.

8—To put in knife, raise rock shaft by unscrewing nut on top; run the knife in through V in lead wheel, put thimble on knife shank and replace rock shaft

9—Place oil can holder on pole in front of tool box, fasten with screws in rivet package.

10—Place the doubletree in the sliding hasp iron and banger, and then bolt tongue and banger iron firmly to tongue, with bolts in tool box; attach evener to doubletree with long draft rod; connect each end of evener to draft irons on frame and side arm with the chains. Each draft iron has several holes for graduating the lift on finger bar, to relieve the pressure on the ground; keep chains the proper length by taking up on upper hook; have sliding hasp iron move one inch ahead of back bolt when chains are tight—oil between sliding hasp iron and tongue iron.

11—See that all nuts are tight, particularly those on under side of frame, which should be looked after occasionally, and fastened, if necessary, by cutting thread on bolt with cold chisel.

12—Test the Mower by working the knife with thumb and finger on the pitman, the machine being out of gear. If right it will work easy; if there is a bind, find and remedy it.

13—In putting on track clearers, put the bolts from the inside out, and have head of bolt against track clearer, and screw from the head.

### PREPARATION FOR MOWING.

1—FILL upper pitman head pocket with oil before starting, and oil frequently when mowing.

2—Oil every bearing before starting.

3—Oil under knife at starting.

4—Use sperm or lard oil; don't use "machinery oil" unless you wish to damage your machine—it is poor stuff.

5—Spread the horses wide apart, quite beyond the cut

6—Take the inside reins out of the front or hame terrets, and lengthen them about two feet, with straps in tool box.

**Directions For Storing the Machine**—Take off the pole and set Mower up on back rail in a dry place. Clean guards and bar, and cover the same with oil to prevent rust. If the bar is left on the ground it will be seriously injured by rust.

# IMPORTANT TESTIMONIALS.

The Great Centennial Field Trial, Philadelphia, June 26, 27, 28,  
29, 1876, the EUREKA receives the highest award,

## GRAND MEDAL AND DIPLOMA.

| NAME OF MACHINE.                                      | WIDTH<br>OF CUT.          | DRAFT<br>IN LBS.  | DRAFT<br>PER FT. |
|-------------------------------------------------------|---------------------------|-------------------|------------------|
| <b>Wilber's Direct Draft Eureka Mower.....</b>        | <b>6 feet</b>             | <b>172</b>        | <b>29</b>        |
| Screw Mower.....                                      | 4 ft. 2 $\frac{3}{4}$ in. | 235               | 56               |
| Ball's Keystone Mower.....                            | 4 5 $\frac{3}{4}$         | 228               | 51               |
| Screw Cam Mower.....                                  | 4 3                       | 186               | 44               |
| Buckeye Mower.....                                    | 4 3                       | 200               | 47               |
| Buckeye Mower.....                                    | 4 4 $\frac{1}{2}$         | 178               | 41               |
| Buckeye Mower.....                                    | 4 0                       | 171               | 43               |
| Johnston Small Mower.....                             | 4 2 $\frac{1}{2}$         | 204               | 48               |
| Hubbard Meadow Lark Mower.....                        | 4 0                       | not tested        |                  |
| Hubbard Large Combined Mower.....                     | 4 6 $\frac{3}{4}$         | 206               | 45               |
| Wood Special Mower.....                               | 4 4                       | 222 $\frac{1}{2}$ | 51               |
| Haymaker Mower.....                                   | 4 3                       | 165               | 39               |
| Wheeler No. 6 Mower.....                              | 4 7 $\frac{1}{4}$         | 206               | 45               |
| Kirby No. 3 Mower.....                                | 4 11 $\frac{3}{4}$        | 238               | 48               |
| Kirby Special Mower.....                              | 4 3 $\frac{3}{4}$         | 220               | 51               |
| Acme Special Mower.....                               | 4 3                       | 182 $\frac{1}{2}$ | 43               |
| Champion one horse, specially provided with pole..... | 3 9 $\frac{3}{4}$         | 131               | 34               |
| Champion Light Special Mower.....                     | 4 11                      | declined test     |                  |
| Champion No. 4 Mower.....                             | 4 6                       | declined test     |                  |
| Champion No. 4 Mower.....                             | 4 11                      | declined test     |                  |
| Peerless Small Mower.....                             | 4 4                       | 157               | 36               |
| McCormick Small Mower.....                            | 4 3 $\frac{1}{4}$         | 190               | 47               |
| Meadow King Mower.....                                | 4 7                       | 205               | 45               |

Average draft of the 19 Side-cut Mowers per foot, 44.62; Eureka 28.66; Eureka's percentage less than the lightest side-cut machines 16.58; Eureka's percentage less than the average of the side-cut machines 35.78. Don't forget: the largest, cheapest, lightest draft mower in the world.

PHILADELPHIA, NOV. 15, 1876.

**PRODUCT**—Wilber's Direct Draft Eureka Mower. Name and address of exhibitor—*The Toledo Eureka Mower Company, Toledo, Pa.* The undersigned having examined the product herein described, respectfully recommend to the U. S. Centennial Commission, for AWARD, for the following reasons:

*First*—For the introduction of an entirely new principle by that of direct draft.

*Second*—The horses are attached to the centre of the machine; the cut grass is not trampled at all.

*Third*—Owing to the presence of double clearers within the cover, comprised of light iron rods, the grass is left raised up and so light that curing follows without the aid of tedders, &c.

*Fourth*—For the great advantage of being able to work the land in any direction, and thus attack difficult crops in the best way.

*Fifth*—For the excellent arrangement by which flexibility of the knife is secured.

*Sixth*—For the **LIGHTNESS OF DRAFT.**

*Seventh*—For its **GREAT CAPACITY FOR RAPID WORK.**

Signed, JNO. COLEMAN, ELDON DORR, JAS. BRUCE, IKEDA KENZO, PEDRO PAES LEINE, JES. GRINNELL.

The United States Centennial Commission has examined the report of the Judges and accept the above, and decreed an award in conformity therewith.

FRANCIS A. WALKER, Chief of the Bureau of Awards.

Given by authority of the United States Centennial Commission.

A. T. GOSHORN, Director General.

J. B. HAWLEY, President.

J. L. CAMPBELL, Secretary.

At this trial all the leading machines were in competition. The draft was carefully tested with Baldwin & Eickmeyr's celebrated Dynamometer. The table above shows the name of each machine, width of cut, draft when moving, &c. By it you will see the EUREKA is the **LIGHTEST DRAFT MOWER IN THE WORLD.**

## THE DIRECT DRAFT EUREKA.

—O—

The Eureka Mower differs entirely in the principle of its construction from that of any other machine. This difference was prominently brought before the agricultural public during the Centennial field trials. The report of the Judges of Group XXII. is before us, and after giving a comparative table of the drafts of the various mowers, the chairman, Mr. Coleman, speaks as follows of the Eureka:

"It will be seen from the above that the draft per square foot of grass cut varied from .288, in the case of the Eureka Machine (direct draft) to .564 in one of Osborne's machines, or nearly 100 per cent. In reality, the difference was not quite so great, inasmuch as the Eureka cut a quarter of an inch higher; but allow for this, we still have the fact that this machine was the **lightest draft** of all that were tried, as it is on a totally different principle from the original models, a short reference to its leading features may not be out of place.

"The Eureka is a direct draft mower,—that is to say, the knife works in front of and between the wheels, and the horses are attached to the centre of the machine, equidistant between the wheels, and are so placed, by means of a long neck-yoke, and while one walks on the uncut grass, clear of the knife the other walks where the track-board has cleared the cut grass; thus the mowed grass is not interfered with, an important point as regards cutting. The wheels are much larger than in ordinary machines. The cutter-bar, which in the machine tested was six feet long, is placed in front of the wheels. The pitman works at right angles with the knife, the connection between the two being a bell-crank lever. It might be thought that the horse treading down the grass would prevent even cutting, but this is not so; did the machine follow the tracks instead of meeting them, we cannot say how it would be, but one great advantage of this form of machine is that it returns along the same line, and therefore meets the grass that has been trodden down.

"Every crop can be dealt with according to its particular form; thus, supposing the grass beaten down in any direction, the machine can be driven at right angles to the lay, and thus good cutting is secured. By a peculiar method of attaching the knife-bar to the frame flexibility is required, and we could not see that any machine cut the standing grass more evenly; at any rate, the cutting was sufficiently good. One great merit in this machine is that, owing to having a track clearer on both sides, the cut grass is laid up in a *beautifully, light, open swath, very favorable for curing*. Indeed, in fair weather very little after work is required. Two horses worked a six foot cutter with ease. The gearing is simple, no bevel wheels are used, and we do not see why such a machine should not wear well, and there can be no question that as a mower it is a highly valuable implement." The Eureka is made by the Eureka Mower Co., Towanda, Penn'a.

We take the following extracts from the Elmira (N.Y.) Farmers' Club proceedings of May 8. This club ranks high for reliability and sound discretion of members as any one on the American continent, and the comments on a direct draft mower will be all the more appreciated on that account.

A farmer of Luzerne County, Pennsylvania, sends in these queries:

W. A. ARMSTRONG.—Being one of those who derive much valuable information from the proceedings of your club, I take the liberty of asking if any of your members know from practical test of the working of the Eureka Mower. If so, does it work well on rough and uneven ground, and does the grass cure more quickly than when mowed with other machines, on account of the horses and mower running over it? I admire the offer this company is making to establish direct dealing with the farmer, and if their mower is practicable—as it seems to be—would like to patronize them.

Very respectfully,

J. B. S.

W. A. ARMSTRONG.—There is evident advantage in the manner of leaving the grass by the Eureka Mower. All other mowers with which I am acquainted pass one wheel over the cut grass packing it closely to the ground, and one horse tramps

upon it with the same effect. There are two injurious results attending this packing. First, it prevents quick drying, and second, the bruised grass is damaged in quality; for the juices, instead of drying into palatable food, are subject to chemical changes which convert the nutritive properties into useless matter just to that extent in which the green grass is bruised. On hard bottom meadow with a medium crop, the broad face of the wheel rolling over every swath bruises a considerable portion of the whole. I have witnessed the work of the Eureka, and in these two important particulars it is better than the work of any machine which runs over the swath. Besides the cut grass is left in the loosest condition, admitting currents of air to effect speedy curing, which is essential to secure the finest hay.

PRESIDENT HOFFMAN—The questions brought to us in the letter are fair. They deserve our consideration because they effect our interests. We have in this club been very careful about recommending seeds or implements until we have made full tests, and we intend to be careful that none may be misled.

I used a Eureka Mower in the last haying, cutting a hundred acres with it—some of it extremely rough hillside on which there were many large stones. It had been mowed many times before, but always with a scythe. I went over it with the Eureka and cut it well, and the machine came out well from the severe trial. There is an important advantage in the use of this mower, in the cutting back and forth, making a compact piece more easy to gather than when the cut is round the field or a piece, as by the side cutting machine. And there is a further advantage in the raking. The grass will gather cleaner from the swaths of the Eureka than from any other machine I have used. Running in parallel lines across one side of the field the rake comes more constantly against the side of the swath, if the grass is of so fine a character as to make the raking difficult.

Besides the rough ground, I cut on flat, smooth meadow. I felt sure that the direct draft was easier than by the side cut machines. It is true also that the curing is more even and rapid, owing to the condition in which the grass is left.

There was in my machine a mechanical defect—a lack of metal in two important points. I learn that in the present manufacture this has been corrected.

I apprehended that in very heavy grass the machine would load, but I am satisfied after trial that it will not. I speak of it and of its work as they appeared to me. I confess to disappointment. I did not expect such ability to meet difficulties as I found. The hillside which I mowed was a severe test, and there were twenty-five acres of it. In driving a wagon along the slope to gather crops I have found it necessary to chain a lever to the upper side and weight it to prevent upsetting. Of course the mower would slide so that I could not get a full swath, but it only made the work slower.

## AN ENGLISH FARMER'S TESTIMONY.

HESTON FARM, NORTH HOUNSLOW, MIDDLESEX W.

DEAR SIR—I have much pleasure in testifying my entire approval of the “Eureka” Mower, and have no hesitation in saying, in my opinion, it cuts better and takes more ground than any other machine; and the fact of its following directly behind the horses, does not distress them as other machines do. The wear and tear is also much less. I have cut at present with the “Eureka” about 45 acres on bad ground and have not broken a single point. I can with the “Eureka” cut several more acres per day than with any other machine I have been in the habit of using.

JAMES ROBINSON.

OAR MILLS, 7 miles North of Bath, N. Y.

P. S.—I hesitated a long time before deciding to take a machine; finally took this (6 feet cutter bar) to try, and retain it if I wished to. (I was attracted mostly by the length of the cut). RESULT—The first half day satisfied me that it was just what we wanted, and after cutting 125 acres will say that if parties will agree to furnish me with the best side cut mower that I have seen for four years, FREE OF COST, I could not afford to accept their offer and lay the Eureka aside. Last Tuesday and Wednesday (hot days) we cut with one light team 25 acres in 18

hours working time. When I got this machine I expected to need another, AND DID START ONE, but found we did not need it as this machine would cut as fast as we could take care of the grass. Expect to pay cash for the machine inside of 60 days.

H. S. EASTON.

GENTLEMEN—We have neglected answering your last communication until we had a good chance to test the mower, and we can now say it is the finest mower in use. The party to whom we sold it says he would not accept any other mower as a gift and *agree to use it*, provided he could buy a Eureka. He has tested it in Timothy, Cloyer, Barley, and slough grass, and says it works well in each place. There is no question but we can sell a number of them next next season. Every one who sees it thinks it is just the mower for this country.

J. G. RUFF & Co., Ohio, Bureau County Ill.

EUREKA MOWER COMPANY—*Gentlemen*—Your agent wanted to sell me one of the 6 feet cut Eureka Mowers, but I had a good "Buckeye" that would have done my work for at least two or three years to come, and I told him that I did not want to buy a machine. But he prevailed upon me to try one, and sent it to me. We began work about 8 a. m. with it and cut that day about 14 acres, which is about double the number of acres I had ever cut in the same time with the Buckeye. The horses did not seem to do any harder work. The machine left the cut grass in the best possible condition to cure, without the use of tedder, curing as quickly as that cut by the Buckeye and tugged. Therefore, I concluded to buy it, and finished my cutting with it, (some 35 acres,) being entirely convinced that it is the mower for my use.

HUGH F. MCNAIR.

Mr. McNair is one of the most extensive farmers in Western N. Y.

DANSVILLE, LIVINGSTONE CO., N. Y.

After using different kinds of side-cut mowing machines, I have used the Eureka Mower two years and for my use I consider it better than any side-cut mower, for the following reasons:

*First*—It has no side-draft and is the lightest draft machine, making it easy work for the team.

*Second*—Having large driving wheels, wide apart, it is easy work for the driver and the cut being directly in front of both driving wheels, the work is more easily seen and controlled by the driver than with side-cut and rear-cut machines.

*Third*—As the horses are hitched to a long evener or double-tree directly in front of the machine, they walk just outside of the cut, (no grass is cut behind them, the space between them only being cut), *the grass tangled forward by one horse is cut clean on the return cut on the same side of the field*, leaving the cut hay together more convenient to draw in.

*Fourth*—As neither the horses nor the machine go on to the grass after it is cut, *it is left lighter and will cure from one fourth to one third quicker, and more evenly than when cut with other machines*. The Eureka Mower enables me to make a great saving in the time, labor and risk of cutting, curing and getting in crops.

HENRY HARTMAN.

Having each of us purchased and used a Eureka Mower two years, we fully agree with Mr. Henry Hartman as to the superiority of the Eureka Mower over the side-cut and rear-cut machines.

Charles Clayton,  
Stephen Kemp,  
John S. Kreiley,  
Jesse Roberts,  
C. Clayson,

James F. McCartney,  
Hugh F. McCurdy,  
Richard McMaster,  
Frank R. Gunther,  
Joseph Shelts,

John H. Campbell,  
Wm. Hartman  
Benjamin Kiehle,  
Edward Traxler,  
Benjamin Roberts.

FRANKFORT, N. Y.

Your letter of the 18th inst. asking my opinion of the Eureka Mower is received, and in answer would say, that after using the Ketchum, the Wood, and

the Buckeye, I have settled down on the Eureka Mower as superior to any side draft machine I ever used, or ever saw in use. The superiority of the Eureka over side draft machines, consists—

1st.—In its less draft for the same width of cut.

2nd.—The grass is left untrodden by the horses and unpressed by the machine, so that it will dry much sooner *untedded* than grass cut by the side cut machines, tedded, thereby saving the cost of tedder, and the labor of using it.

3rd.—Grass cut by the Eureka will rake up into winrows better, and with less dirt and dust than when pressed down into the stubble and dirt.

4th.—With a Eureka six feet cut; *one-third more work* can be done, *in the same time*, with the same man and team, required with the side draft machine.

When the prejudice against driving one horse in the standing grass (*which has no foundation in fact, and is not objectionable in practice,*) shall be done away with, as it will be, *The Eureka will be THE machine in general use.* Farmers will seek for it, and sigh for it, if they do not find it.

HARRIS LEWIS.

Harris Lewis is President of the New York Dairymen's Association and Ex-President New York State Agricultural Society. There is no more practical farmer in the Union, nor one whose opinion has greater influence among the husbandmen of this country.

LA FARGEVILLE, JEFFERSON Co., N. Y.

I have just finished my haying of about one hundred and fifty acres, having used the Eureka Mower with a six feet cutter bar, and have cut at the rate of from fifteen to twenty acres per day, with a span of horses less than ordinary weight. The draft of the six feet Eureka Mower is less than most of the side cut mowers, while its cutting capacity is one third greater. It is easily operated, strongly made, has a direct draft, and leaves the cut grass in the best position for curing and raking. I am well pleased with it and am of the opinion that no farmer having used the Eureka one season can be induced to change it for any other mower.

R. B. BIDDLECOM.

DEER RIVER, N. Y.

In reply to yours of recent date asking how I like the Eureka Mower with six feet cutter bar, I would say that in the past season I cut 250 acres of very heavy grass. I had the Eureka and two other machines in the field, but used the Eureka to mow more than two-thirds of the whole. I found with one team mowing one-half day, we cut as much grass as with either of the side cut mowers running all day; or with both side cuts working half the day. One day with one team the Eureka cut 20 acres of very heavy grass. Several times we have cut 10 acres before noon, using the Eureka. I do not remember of a break about the machine this season. The Eureka leaves the grass in good position for drying, and it can be raked much sooner after cutting, than when cut with side cut mowers. I like the machine.

J. F. STANDRING.

HAMMOND, N. Y.

I bought and used a Eureka Mower in my last mowing, cutting about one hundred and twenty-five acres. Some of it was very rough ground (from fifteen to twenty acres) that I was never able to cut with any machine I ever had on my farm, before purchasing the Eureka. With the Eureka Mower I mowed the piece, and did the work well and without any breakages. I have used mowing machines ever since they came into use in this country. I think the Eureka is the best mower of which I have any knowledge. The loose and light position in which the grass is left after cutting is *very important*, as it cures much quicker and rakes easier.

A. P. MORSE.

CLAYTON, N. Y.

For the past seven years I have been using one of the Eureka Mowers, cutting about 100 acres of grass and 50 or 60 acres of oats and barley each year. The breakage during the whole time costing less than \$10, in fact, I have had no breaks nor costs beyond the natural wear of the mower. With the Eureka Mower the cost of gathering crops is from 25 to 35 *per cent. less* than with any side cut machine of which I have any knowledge. I would not (because I could not afford to) use a side cut mower if I could buy a Eureka. I write this in answer to your inquiry in regard to my experience in the use of mowing machines.

ELIJAH MCARN.

DANVILLE, IOWA.

THOMAS G. CURRIER.—The Eureka Mower bought of you last harvest I must say gave complete satisfaction, so much so, that if I could not get another I would not sell it for any price. With the Eureka I can cure a better quality of hay, and in less time than any other machine I ever used. I bought the *six feet cut* against my own choice, but after using it and seeing it work, I want no smaller machine. The six feet Eureka costs but little more than the smaller sizes, and runs light enough for two small horses. I used it in all kinds of grass. I cut tall, heavy headed, and badly tangled Rye in Maple Grove that I thought no machine could cut; but I cut it complete and left it in good shape for gathering with a horse rake. The Eureka Mower excels all other mowers I ever saw in Light Draft, Quick Cutting, and Quick Curing. Respectfully Yours.

JAMES IRWIN.

WEST POINT, LEE CO., IOWA.

I bought of your agent, Thos. G. Carrier, last summer, a six feet cut Eureka Mower, and am more than pleased with it. It does more and better work than you claim. I have used the Buckeye and McCornick mowers, but would not accept either of them as a gift if (by so doing) I was obliged to lay the Eureka aside. I prefer your machine for the following reasons:

1st—The DRAFT IS EASIER than that of a four feet Buckeye.

2nd—It cuts one-third more grass in the same time and leaves it so loose that it cures quickly. My hay was always ready to go in the barn the same day it was cut, thus preventing loss by exposure to the weather.

3rd—I saved *one fourth of my usual expense* in putting up 100 acres of the heaviest kind of grass.

4th—The machine is so easily managed by man or boy.

5th—My Mower now is as good as new, except the general wear which is much less than that of side cut mowers,

H. R. ALTER.

COLESBURG, PA., SEPT. 23. 1878.

You wish me to state how I liked the Eureka Mowing Machine I bought of you. Having thoroughly tested it in all kinds of grasses including lodged clover, on rough and smooth ground, in every instance it has done its work well, in fact, I must say that it is just the machine for this hilly country. When I brought the machine home was sure it would not work to my satisfaction as every one I asked about it talked discouraging and found some objection to it, so I was not quick to credit its good points. After cutting one hundred acres of grass, one-third of which I supposed no machine could mow, I had to acknowledge that it was the best machine made, doing the fastest, best and easiest work of any machine I ever used, leaving the grass so that it cures much quicker than it does when mown with a side cut machine.

EDWIN HASKELL.

WYSOX, PA., DEC. 23, 1878.

We avail ourselves of this occasion to say that we have had one of your six feet cutter bar mowers for the past three years, and purchased the second one the past season. So far as our testimonial is of service to you we gladly give it.

*The Eureka Mower is the very best we ever saw, and there is no side draft mower that will compare with it in any respect.* We can operate a six feet cutter bar Eureka machine with more ease to a pair of horses than any four and a half cutter bar of any side cut mower we ever used. The advantage of your mower in cutting back and forth on one side of a grass field enables us to mow heavy grass that is lodged, cutting it clean and the grass is left to cure without being trampled by the team or run over by the machine. The mower we have had in use for three years is as good in all its parts as when first used, and that, too, after cutting over one hundred acres each year. We commend the Eureka Mower, unhesitatingly to farmers who desire the best mowing machine in use.  
V. E. and J. E. PIOLLET.

ATHENS, PA., DEC. 20, 1878.

I have used one of your mowers for four years, mowing about one hundred acres each year with very little expense for repairs. I believe it to be the best and most economical machine now in use for several reasons.

1st—It will cut more grass in the same time and with the same labor than any other mower in market.

2nd—The great advantage of mowing back and forth on the same side of the field, leaving the cut grass in one plot.

3rd—The choice of sides on which to mow. I can mow forth and back on the side the wind blows from and thus avoid cutting the grass the second time.

4th—*Quick curing*, the most important feature of the hay harvest. The cut grass will cure in *half the time*, when cut by the Eureka Mower, that is required to cure it when cut by side cut mowers. The Eureka leaves the cut grass light and loose in nearly a standing position, neither horses nor machine running on the cut grass.

5th—It is the *lightest draft* machine in use.

MANSON ELSBREE.

EUREKA MOWER Co.—*Gents*—I have a five feet Eureka Mower, and am about to purchase a six foot machine. I have tried it thoroughly and think it decidedly the best machine ever used. I was so strongly prejudiced against it that I opposed it as long as it was honest to do so. And now I would rather pay a reasonable price for a Eureka Mower, than use any side cut machine furnished me for nothing.  
E. C. SPENCER.

ASYLUM, PA., Jan. 1, 1879.

I have one of your six feet mowers and have used it one season with great satisfaction. I believe that an ordinary team will carry it through any grass without difficulty if the knives are kept in good order. The manner in which it leaves the cut grass, loose and open to the sun and wind ready for drying, puts the Eureka far ahead of any machine that I ever used. A boy 13 years old drove the team to mow about forty acres for me last Summer and as I looked at the *broad smooth swaths* that he left behind him at the rate of an acre per hour, I contrasted his work with that done on the same fields with the scythe when I was a boy at his age comparing the labor and cost of gathering my hay crop. To day the boy, with team and the Eureka six feet mower are equal to eight or ten men of that time. The "Eureka" is a *mower and spreader* in one machine, and often *saves as much in the drying of the grass without further shaking out*, as it costs to cut it with this machine.  
B. LAPORTE.

BINGHAMTON, N. Y., Dec. 14, 1878.

EUREKA MOWER CO.—*Gentlemen*—This is to certify I have used several kinds of mowing machines upon my farm, including the Ohio, Cayuga Chief and Buckeye. I have also used the Eureka in different trials with them, and in my estimation it is very much superior. I pronounce it best of all. My farm is situated in the town of Union Broome, County, N. Y. M. N. JOHNSON.

BINGHAMTON, N. Y., Dec. 14, 1878.

EUREKA CO.—*Sirs*—It is with pleasure that I recommend the Eureka Mower to the farmers of this county. Having used the machine for eight years along side of side cut mowers on my own farm in the town of Union. I unhesitatingly pronounce the Eureka the best. The machine is rightly named, "I have found it."

Very truly,

J. E. JOHNSON.

BINGHAMTON, N. Y., Dec. 14, 1878.

EUREKA MOWER CO.—*Gents*—I have used the "Direct-draft" Eureka Mower, and a "side cut" mower for the past three years upon my farm, and like the Eureka best. We can cut one-third more grass in the same time, and it dries much quicker, as the machine leaves it light and standing. In every point I consider the Eureka Mower superior to the side draft machines.

Very truly,

W. W. WHEATON,  
Oakdale Stock Farm.

BINGHAMTON, N. Y., Dec. 14, 1878.

EUREKA MOWER CO.—*Gents*—I have used the Eureka for the past four years mowing for my neighbors by the acre. Mowing from fifty to two hundred and fifty acres a year. I can mow one third more in a day with the Eureka than any of the several side-cut mowers I have used. And leave the grass in position to dry much quicker than when trampled by horses and machine as with all the side cut mowers. I have mown on rough and stony and stumpy ground, and on steep hillsides, which we mow as easily as on the level by mowing forth and back and not drawing the machine up the hills. I regard it a strong and durable machine, and for rapid cutting and curing it cannot be excelled.

Very truly,

WM. HOWEY.

SALINEVILLE, OHIO, DEC. 16, 1878.

I have used the Eureka Mower for seven years, cutting each year from sixty to eighty acres of heavy grass and on hilly ground *without a single break* and no expense except the natural wear of the boxes of the pitman. The one I sold for you this last harvest has rendered full satisfaction. There are two other machines of your make in this neighborhood, and in all cases they have met the highest expectations of all who have used them. The prospect is that as fast as the side cut mowers wear out they will be supplanted by the Eureka.

KENNETH McLENNAN.

WATERLOO IOWA, November 22, 1878.

I have sold 10 of your machines, they have gone into the hands of some of the best farmers we have in this section, and in *every instance* the mower has given the best of satisfaction. After seeing them used to cut timothy, clover—slough grass, and upland prairie grasses I think they are the most successful mower of which I have any knowledge. I have sold mowing machines for fourteen years, of the different kinds manufactured, among which were the Champion, Buckeye, Woods and Hubbard. I shall want at least a car load to open the trade in 1879.

G. W. BARNES.

WILBER'S EUREKA MOWER, with 6 feet Cutter-Bar, at work in the field.

The grass trampled by one horse is always cut on the return of the Machine.



The EUREKA is driven back and forth on one side of the piece. The horses are placed wide apart—outside the cut.