

THE STANDARD WORCESTER BUCKEYE MOWER.

Manufactured by
The
Richardson
Manufacturing
Co.

WORCESTER,
MASS.



LINDNER, EDDY & CLAUS, LITH. N. Y.

J. W. Seavey, Agent.
Frankfort. Me.



OFFICE OF THE RICHARDSON MANUFACTURING CO.,
WORCESTER, MASS., Jan. 1, 1890.

A year ago we announced a large increase in our facilities for production, and expressed the hope that we should meet all demands. But we were again disappointed. With a largely increased production,—so large, indeed, as to break down and wreck one of our large storehouses,—we found ourselves unable to fill orders long before the haying season began.

We began business with a purpose to produce the best possible machine, when it was hazardous to oppose the prevailing tendency to sacrifice quality to cheapness. We felt that by adhering to our purpose, the public would, in time, come to our view of the matter, and if we could hold our own until this point was gained, our success would be assured. The result has more than justified our hopes. Years ago we thought we had facilities equal to our prospective needs, but we have already twice outgrown our plant; and, although we crowded every department last year to its full capacity, we closed the season with a larger list of unfilled orders than ever before.

Machines of less cost are still in the market, but in ten years our production has increased 700 per cent., and last year our sales nearly equalled the combined sales of all other machines in New England. This year we have built large additions to our factories, fully doubling their extent and capacity, and have enlarged our production for 1890 fully 50 per cent. We hope, therefore, to be able to fill this season's orders promptly and fully.

We devote our whole attention to a specialty—the building of the STANDARD BUCKEYE MOWER, and are thereby able to turn out a better machine than if our attention was divided by a variety of implements, and the Mower only one of many interests. We adhere strictly to our original idea, that the intelligent farmer prefers the best possible machine, and will buy it if assured of its quality. We are determined to fully meet that preference; that in every particular of material and construction there shall be nothing but excellence.

Our recent improvements, which are found only on our machine, give it a distinct individuality and superiority; in fact our Buckeye has become the standard by which other machines are judged. We have the lead and we are determined to hold it. Our patrons may be sure that in the BUCKEYE they have all the features required for the best work; that it will meet the most exacting demands in every variety of grass-cutting.

THE RICHARDSON MANUFACTURING CO.

THE STANDARD BUCKEYE MOWER

The Good Points of the Buckeye.

The success of THE BUCKEYE has been largely due to its SIMPLICITY. It has fewer parts and less complications, and is therefore less liable to get out of order.

In EFFICIENCY it has no equal. Its fewer single parts and its less complicated combinations make it easy to be understood and handled, and adapt it to the widest variety of field work. Wherever any other machine can work, THE BUCKEYE can work, and work well, and in many rough fields THE BUCKEYE is the only machine that can work at all.

THE BUCKEYE has always been popular for its DURABILITY. The mechanical principles on which its general design rests, were proved correct and desirable many years ago, and these are unchanged. Its general adoption and its steady and increased growth of sales, in face of the sharpest competition, are a sufficient demonstration of its superior merit.

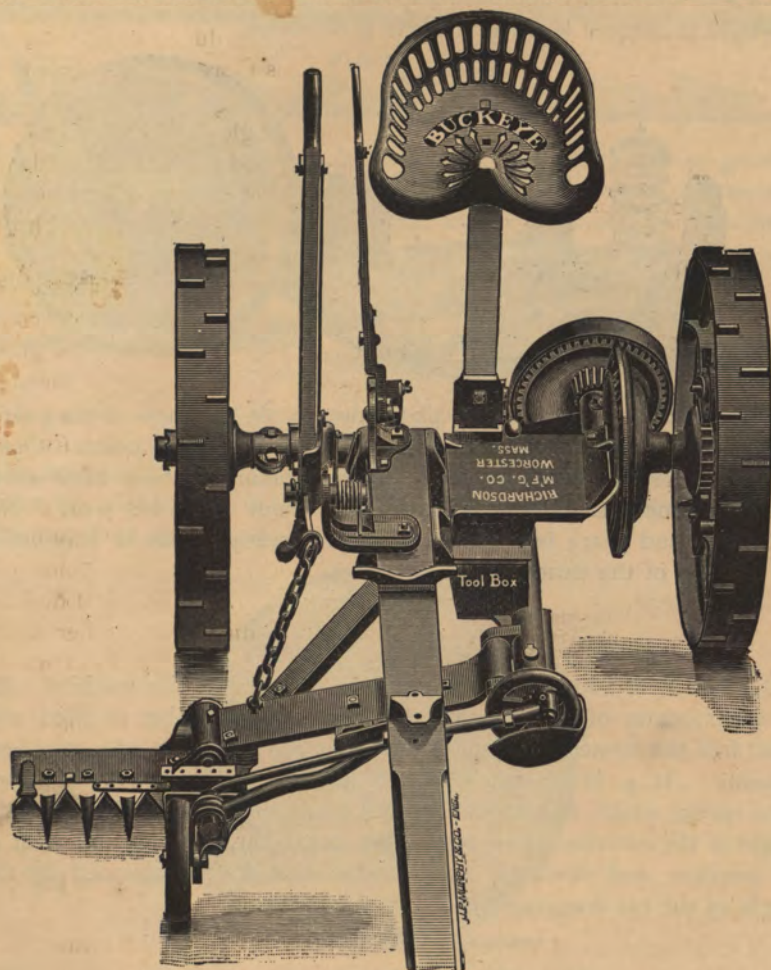
We have never sacrificed QUALITY to cheapness in building THE BUCKEYE, but while its cost has always been kept at a moderate point, its quality has not deteriorated. Every change has been an IMPROVEMENT, either in SIMPLICITY, EFFICIENCY or DURABILITY, and our patrons may be sure of THE BUCKEYE as well made, and of honest stock at every point.

This year we offer THE BUCKEYE perfected up to the latest demands, and with more points in its favor than can be found in any other mower. We do not rest on by-gone records, nor on hopes based on untested novelties.

We have behind us more than a quarter of a century of success and experience, but our present claim is on the merits of THE BUCKEYE as tested last year. We know, and those who have used it know that THE BUCKEYE will do more and better work, on a greater variety of ground, is stronger and more durable, has fewer parts and greater simplicity, is lighter in draft, and is better adapted to all classes of farms than any other machine before the public.

It is offered very cheap, and the vital question is :—Can a farmer afford to neglect a certainty for a doubtful experiment, which costs almost as much at the start, and run the risk of vexatious delays and costly repairs?

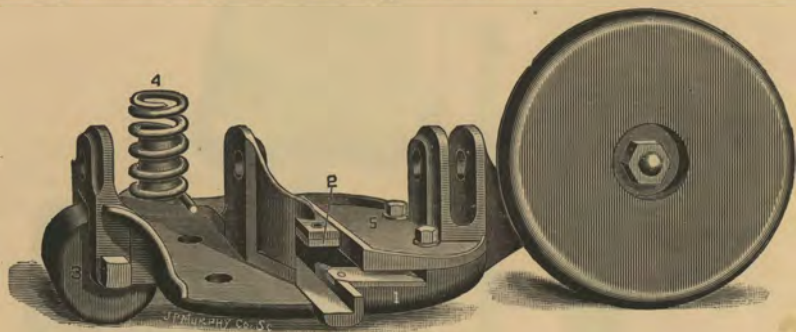
THE STANDARD BUCKEYE MOWER



THE STANDARD BUCKEYE MOWER

New and Improved Shoe.

Important changes in the INSIDE SHOE are among the improvements which were universally approved last year. By the use of malleable iron its weight is reduced while its strength is increased.



At 1 and 2 are hardened steel plates, detachable like those in the guard-fingers, which serve a similar purpose at important wearing points. Operating together they grasp the whole scythe, holding it firmly to its work, and maintaining the essential shear-cut without excessive wear. No. 3 is a new and extra bearing-wheel, which greatly assists in supporting the rear end of the cutter bar.

Carrying Springs.

Our new lever adds greatly to the easy operation of the machine. By the introduction of a spring on the lever the cutter-bar is lifted with about half the former effort and holds it at any elevation with ease and certainty. At 4, in the above cut, is another improvement,—a strong spiral spring, which, in combination with the lever spring, easily carries the weight of the extreme outer end of the cutter-bar, reducing the draft of the machine, and obviating any possible side draft occasioned by the weight of the bar dragging on the ground.

Improved Scythe.

Our Model of 1890 includes all the improvements to THE BUCKEYE that have proved of utility in recent years. Prominent among these are

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two changes in the cutting apparatus, which are illustrated in the following cuts:

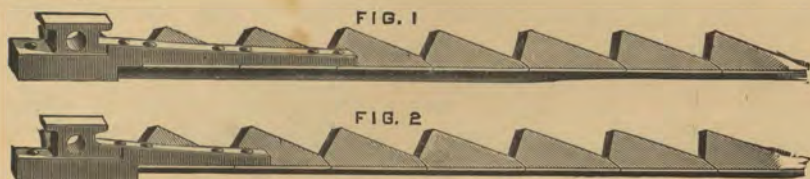
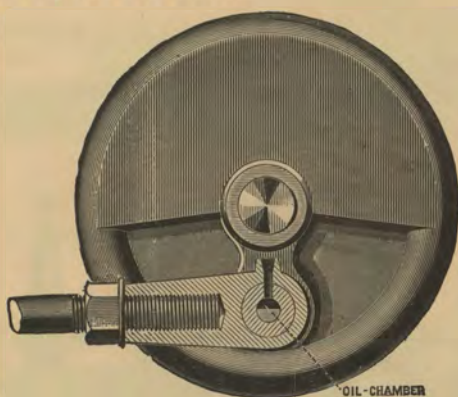


Fig. 2 shows the scythe which we have so long used with so general satisfaction. We have now strengthened it by increasing its thickness at the heel for about one-third of its length, and by extending the head itself to cover three instead of two sections as formerly. The changes add strength and stiffness where most needed, and may be clearly seen in Fig. 1. These were on all of our last year's machines, and we have not yet heard of a breakage.

Self-Oiling Pitman Box.

Our new patented Self-Oiling Pitman Box is a simple but important improvement. The action in the Pitman is most rapid, and here is the greatest danger from dryness and friction.



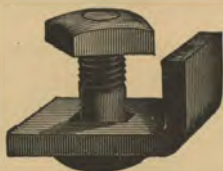
The cut is a cross section showing the end of the Pitman Rod screwed into the box and the perforated crank-stud which makes a chamber containing sufficient oil to lubricate the shaft for a considerable period.

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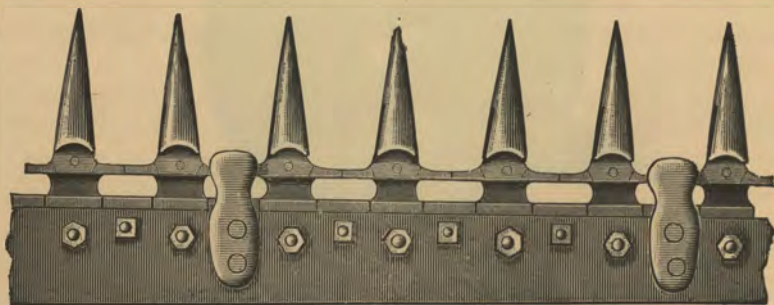
Its automatic action saves much care and protects the vital point of the machine against the forgetfulness of the driver. A half-hour's delay in oiling at this point has ruined many a machine, but with this new device such loss cannot happen. It is a small appliance, but would be cheap at ten times its cost on any machine. It is an important addition to THE BUCKEYE, as no other machine has it. Those who used it last season would not have it taken off for half the price of their machines.

The Chafe Plates.

The fact needs to be always remembered, that a mowing machine is simply a series of shears or scissors operated by machinery. The whole aim of the apparatus is to get a perfect clipping action, like that in a pair of scissors, between every section of the scythe and its corresponding fin-



ger. The new Chafe Plates added to THE BUCKEYE, as shown above, add greatly to its EASE and CERTAINTY of OPERATION, also to its DURABILITY. They are made of the hardest steel, and bolted between the guard-fingers by square nuts, as shown in the following cut.



SECTION OF FINGER-BAR SHOWING CHAFE PLATES BETWEEN FINGERS.

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In use, the rapid motion of the scythe wears away the support supplied at its back by the elevation of that portion of the guard-finger. This rear support is essential to the perfect working of the cutting apparatus, as its office is to elevate the rear of the scythe and throw its points downward into close contact with the steel plates in the guard-fingers, which is the other blade of the scissors, thus securing the necessary shear cut. All machines work well at this point when new, but others fail more or less with use.

The CHAFE PLATE being of harder metal than the guard-finger, wears much longer, and when it is worn out it can be replaced at trifling cost.



No. 1.

No. 1 is a guard-finger with our perfect support at rear of scythe showing how the scythe is held in place and the shear-cut maintained.



No. 2.

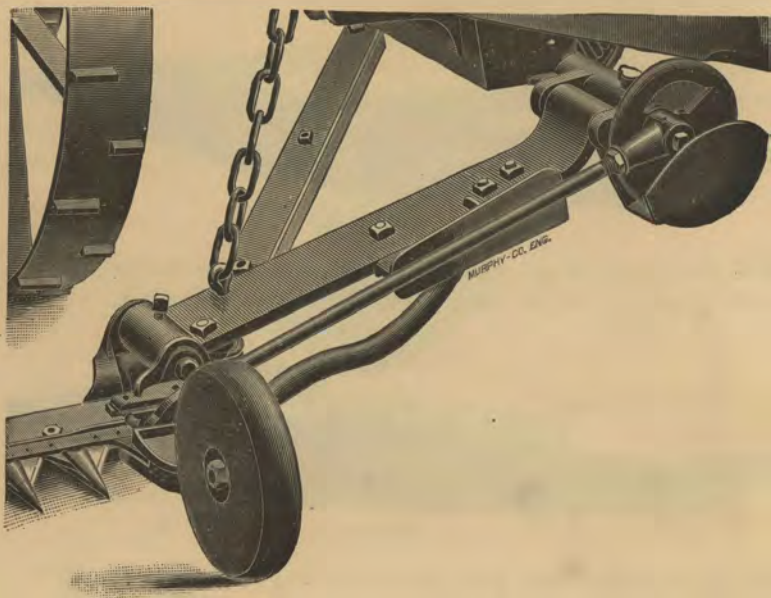
No. 2 is a guard-finger with support at the rear of the scythe worn away and shows how the shear-cut is lost.

The Double-Hinge Joint.

The Double-Hinge Joint is one of the strongest of the original merits of THE BUCKEYE. Its operation is like the combination of elbow and shoulder joints in the human arm, and it secures entire flexibility of motion to the cutter-bar. It is this combination joint which gives THE BUCKEYE its

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success on rough and uneven fields ; without it a mower is like a human arm with stiff elbow or shoulder ; such an arm is easily crippled. Besides its use in doing the best work on rough ground, this "Buckeye Joint" also gives the advantage of the folding-bar, another distinctive feature of THE BUCKEYE. By its use THE BUCKEYE on the road is as safe and easy as a wagon, and its cutter-bar never endangers the safety of people or animals, by falling upon them. Neither the double-hinge joint nor the folding-bar can be found on other machines.



A bent Pitman Rod is a frequent accident to a mower ; we have prevented this by a new guard, which makes the rod entirely safe from any possible shock. The combination joint, the folding-bar and the rod guard are all shown in the above cut.

THE STANDARD BUCKEYE MOWER

The Folding-bar.

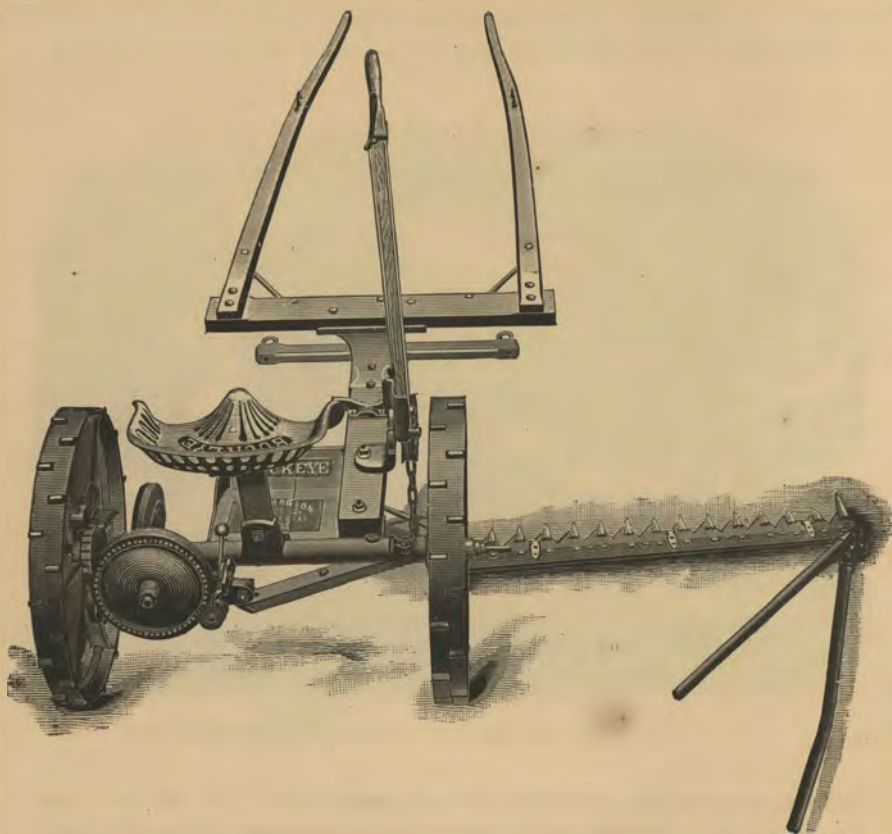
The folding-bar is one of the distinctive features of THE BUCKEYE, no other machine possessing this device or its equal. Its advantage shows itself to the most careless observer, in the picture below, while a thorough study of the machine shows further advantages. When folded it makes the machine as safe as a wagon, and on the road, or about the farm, or



NEW MODEL BUCKEYE ON THE ROAD.

when stored away for the winter, the cutter-bar is safe from accident, and the machine is a compact affair and in the way of no one. This advantage alone commends THE BUCKEYE to men who think of safety and convenience, and those who have used THE BUCKEYE one season will, for this reason alone, were others wanting, cling to it. It makes the machine compact and safe when folded, and its connections give a flexibility and ease of motion, when in operation, that fit it for all classes of ground.

THE STANDARD BUCKEYE MOWER



NEW MODEL ONE-HORSE BUCKEYE. WEIGHT 450 POUNDS.

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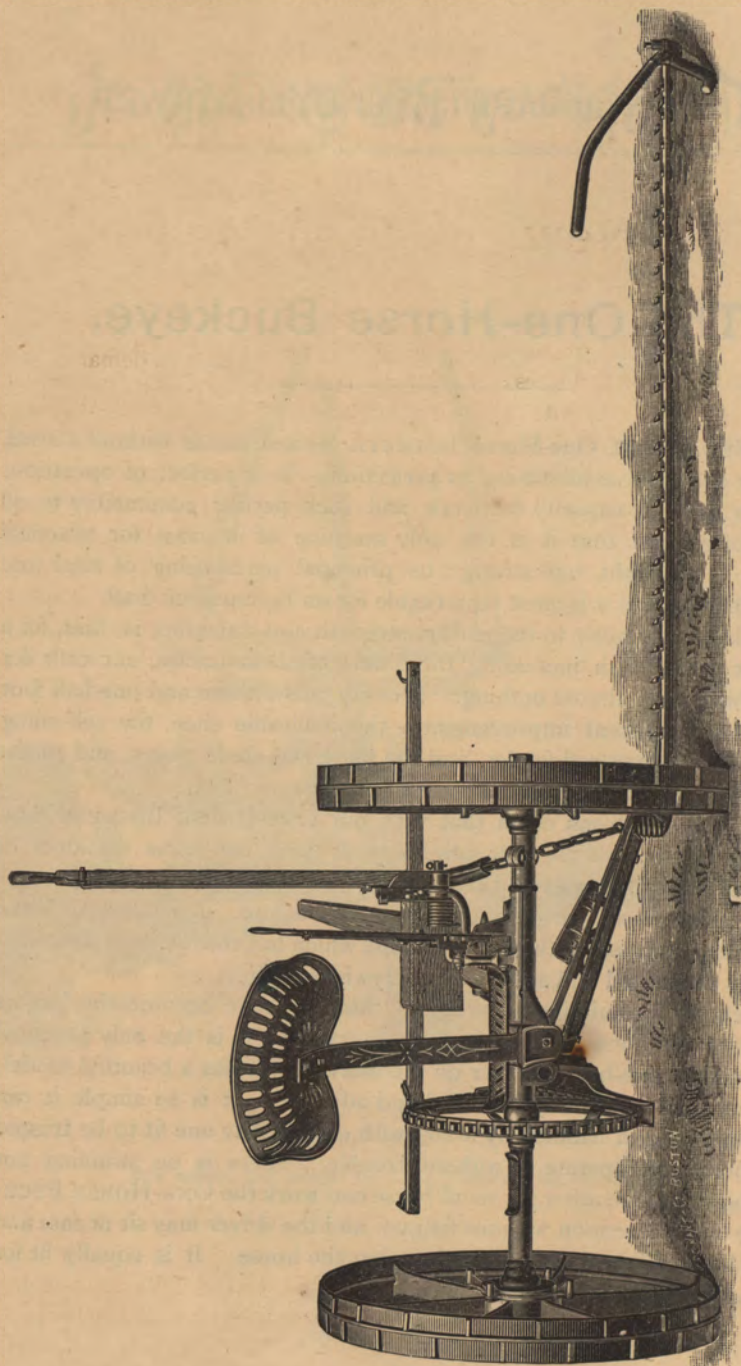
The One-Horse Buckeye.

Our NEW MODEL One Horse BUCKEYE Mower stands without a rival, even our competitors admitting its perfection. It is perfect of operation, it has so great a capacity for work and such perfect adaptability to all classes of ground, that it is the only machine of its class for practical farmers. It is light, but strong; its principal parts being of steel and malleable iron, and it is most remarkable for its lightness of draft.

A striking testimony to its quality, strength and durability is, that, for a series of years, with increasing thousands of them in use, our calls for repairs have been almost nothing. It easily cuts a three and one-half foot swath; has our recent improvements—the malleable shoe, the self-oiling Pitman, the Pitman-rod fender, and the hardened chafe plates, and meets the most trying demands of all classes of work.

Many of our patrons claim that with our ONE-HORSE BUCKEYE they can do as much work as their neighbors do with two-horse machines of other makers. Our sales of this machine are largely increasing; we are building this season a larger number than ever before. No other one-horse machine can compete with it in the points which test the merits of a mower. It is fully warranted and sells itself everywhere.

In fact, its popularity is so great that we have become the largest builders of one-horse mowers in the country, and it is the only practical and successful one-horse mower on the market. It has a beautiful model, and every part is properly balanced and adjusted. It is so simple it can be understood and handled by a boy with ease. Any one fit to be trusted with a horse can operate it without trouble. There is no straining nor cramping in its operation; a small horse can work the ONE-HORSE BUCKEYE the entire forenoon without fatigue, and the driver may sit at ease and ride without feeling that he is overloading the horse. It is equally fit for the roughest work or the finest lawn.



THE NEW SIX-FOOT MOWER.

THE STANDARD BUCKEYE MOWER

The New Six-Foot Mower.

The improved conditions of mowing fields have created a demand for a Mowing Machine of greater capacity, and of more rapid and economical work than the standard sizes. To meet this demand we have perfected an entirely new machine, with a six-foot cutter-bar, which has already been received with remarkable favor.

In studying the problem of such a machine, it early appeared that it must be new in design and arrangement. It would not do simply to add a longer cutter-bar to a standard frame and thus throw the whole construction out of balance and proportion. Every part of the machine must be arranged to share and perform its due proportion of the increased burden.

In working out the plan thus outlined, an entirely new machine resulted, which proved to possess in a remarkable degree all the features that are of value in a mowing machine. It is well proportioned and balanced, and its weight is not increased above its capacity for work, while its simplicity of arrangement and combination reduces its points of friction to a minimum, and results in a much greater performance with no perceptible increase in draft. The long cutter-bar is also handled without increased effort.

The six-foot machine differs from all others in the method of applying the power. It has but one pair of gears, and is driven with a sprocket-chain-gearing, which results in a positive and even action, and the performance of most excellent work. The new arrangement is very simple, easy to be understood and cared for, and is not liable to breakage nor derangement. It has all the recent improvements of the STANDARD BUCKEYE machines,—the self-oiling Pitman box, hardened chafe plates, malleable shoe and protected Pitman rod. It has greater capacity for work than any other machine in the market, and those who have tested it under the most trying conditions, declare that it is the best in its adaptability to all varieties of ground and grass.

We built only 100 of these six-foot machines two years ago and 500 last year. Every one was sold as soon as shown, and the purchasers pronounce them the best they have ever seen. No machine, new or old, can show a stronger list of approving testimonials than this, and all fully endorse the above claims. We are building a large number of these machines for 1890 and will be prepared to fill all orders from our patrons who may want a six-foot mower. The new six-foot BUCKEYE is illustrated on the opposite page.

THE STANDARD BUCKEYE MOWER

A Few Reasons why our Buckeye Machines are the Best.

They are the MOST SIMPLE, and contain fewer parts.

They have less gearing.

They can be understood and kept in order by the common farm-hand.

All their parts are under the eye of the operator, and so simple, that should anything go wrong he will know just what to do.

The essential parts can be set up and tightened as wear occurs, and renewed at trifling cost.

They are built on sound mechanical principles ; straight gearing used for quickest speed.

They are positively the LIGHTEST DRAFT.

They are the strongest and most durable.

They are the best for rough, uneven ground, consequently the best for smooth mowing.

They are the easiest and safest to ride upon.

They are the easiest to handle, both for team and driver.

They will last longer.

They will do more work and better work.

They raise the bar easier and lift higher to pass obstructions.

They are more in use than any other kind, showing its appreciation by the farmer.

They require fewer repairs.

Duplicate parts can be quickly and surely procured at convenient points. No loss of time in the hay-field for repairs.

The only machines with the Double-Hinge Floating Finger-Bar, which gives a flexibility like that of the combination of shoulder and elbow joint.

The only machines in which the Bar folds flat across the frame, making it as portable as a wagon.

The only machines that have the hardened steel Chafe Plates.

The only machines which have the patented Self-Oiling Pitman Box.

They have fewer oil-holes and bearings than any other machines.

They are the only machines which can be worked with one horse with ease.

Their average life is double that of others.

They are the only machines that can present all the above claims as genuine.

THE STANDARD BUCKEYE MOWER

The Standard Buckeye is Made in Three
Sizes.

No. 1 Cuts a Swath 4 feet 9 inches, - - -	\$
No. 2 Cuts a Swath 4 feet 3 inches, - - -	
No. 3 Cuts a Swath (for 1 horse) 3 feet 6 inches,	
New Chain Gear Mower 6 feet, - - -	

Each machine is furnished with two Complete Scythes, two extra Knife Sections, two extra Guard-Fingers, Screw Wrench, Punch, Cold Chisel, Oil Can, Rivets, Bolts, Whiffletrees, Evener and Neck Yoke.



WARRANTY.

All our Machines are warranted to be well built, of good material, and capable of doing good work in ordinary grass at the rate of one acre per hour, or ten to fifteen acres per day with a pair of horses.

In case anything proves defective when the machine is started, due notice must be given to us or our agents, and time allowed to send a person to put it in order. If it does not work after this, and the fault is in the machine, it will be taken back and the money refunded, or a perfect machine will be given in its place, at the option of the purchaser. Continued possession of the machine will be evidence of satisfaction.

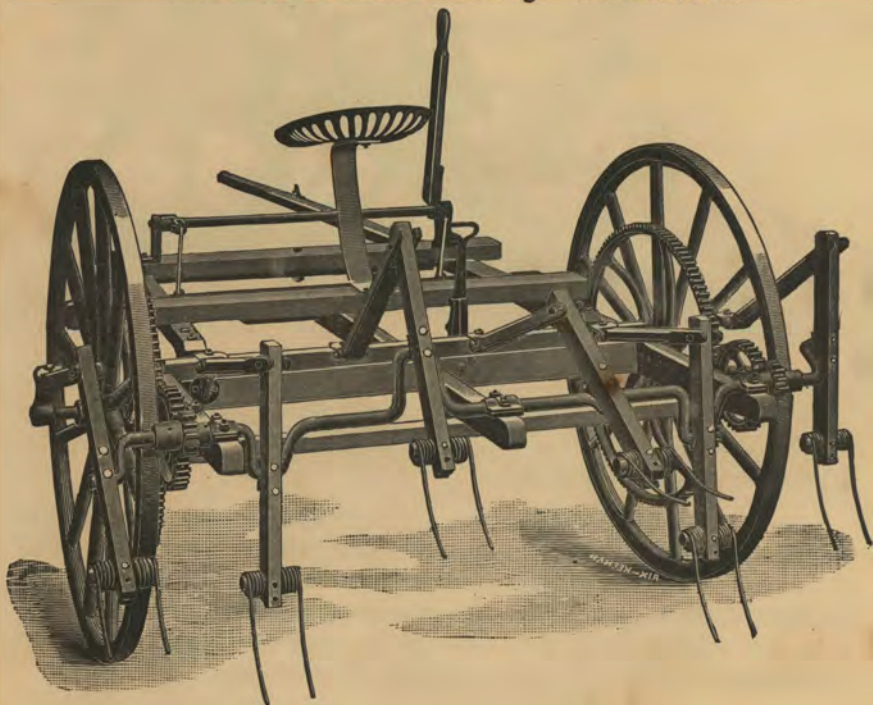
The Kemp Manure Spreader.



MANUFACTURED BY

The Richardson Manufacturing Company, Worcester, Mass.

The Bullard Hay Tedder.



MANUFACTURED BY

The Richardson Manufacturing Company, Worcester, Mass.

More in use than of all other kinds together, and the only Tedder that has stood the test of time.



