

**BUCKEYE**

**STATE**

**Mower <sup>and</sup> Reaper**

— AND —

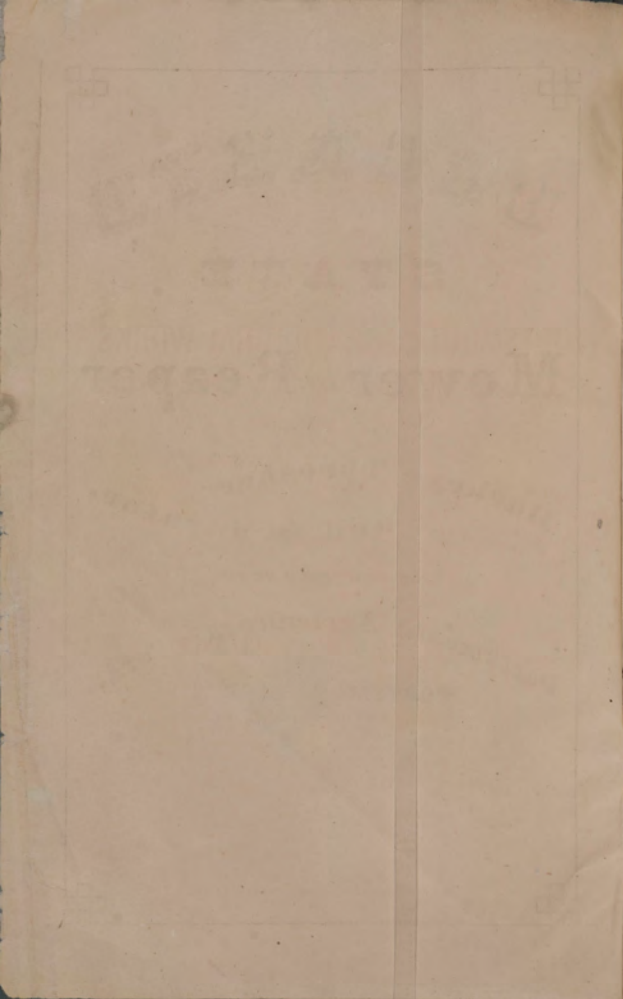
**Buckeye Thresher  
and Separator,**

*MANUFACTURED BY THE*

**Portsmouth Agricultural Works,  
PORTSMOUTH, OHIO.**

*For sale*

PORTSMOUTH, OHIO:  
McFARLAND & ELICK, BOOK AND JOB PRINTERS.  
1872.



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C A T A L O G U E

— OF THE —

PORTSMOUTH AGRICULTURAL WORKS

MANUFACTURERS OF

THE BUCKEYE STATE REAPER AND MOWER

— AND —

BUCKEYE THRESHER AND CLEANER,

PORTSMOUTH, OHIO.

—  
TRIBUNE JOB ROOMS PRINT.

—  
1872.



BUCKEYE STATE REAPER ON THE ROAD.

## Portsmouth Agricultural Works.

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THE immense fields of grass and grain in all parts of our country, joined with the high price of labor, have stimulated the inventive genius of our people to bring out machines to secure these vast crops without so much cost and manual labor, and the BUCKEYE STATE has taken its place in the fore rank of this class of field machinery.

The BUCKEYE STATE is not an untried experiment, but a complete and successful reality, having passed through and withstood the severest tests on all kinds of land; cutting wet, lodged and tangled grass and grain equally well with dry and standing. As an indication of the superiority of this machine, we state the fact, that in numerous instances it has been employed to cut grass from fields, in attempting which other machines—reputed first class—have utterly failed. Such instances were of frequent occurrence during the past year, and succeeding under circumstances which seemed to defy all ordinary efforts, the enthusiasm with which that success was received by all disinterested witnesses, was most hearty and outspoken.

While we shall continue to spare no pains, expense or labor to keep up with all the improvements that experience, observation or field practice may suggest, our aim is to produce the best machine, and to this end we have obtained the use of all valuable improvements, and embodied them in our Combined Machine and Single Mower.

To be a good harvester, a machine must cut grass and grain, wet or dry, heavy lodged clover and fine upland grass without clogging. But the merit of a harvester must be determined mainly by its efficiency in the hands of farmers, and their judgment must be accepted as final. It must be confessed that, notwithstanding the rapid diffusion of general intelligence among our agricultural population—as the result of the increase of common and special educational facilities, farmers' clubs, &c.,—the acceptance of new things, however sound in theory, is conditioned on their good behavior under practical tests, in the hands of those who must use and depend upon them. They appreciate a good theory, and are willing to encourage its development into practical results, but their ultimate judgment is reserved until the merit of those results is fully established.

The farmer wants a machine for service; one that will never fail in any kind of grass or grain; one that will do all that is claimed for it; one that will save his horses, and the *best machine for the least money*. All these points of excellence are combined in the BUCKEYE STATE, and the farmer can rely upon it to go through his harvest without failure or delay. The importance of this to the farmer, who, with a

full force of hands employed at high wages, is depending upon his machine for the prompt dispatch of the harvest work and the security of the crop, is too manifest to be discussed. Of the **BUCKEYE STATE**, many who have used it and tried it thoroughly, say: "It works like a charm, and there is no stopping by way of tinkering, not even for a moment."

Having perfected the motive features of the machine, our next efforts have been directed, especially since last season, to the matter of increasing the efficiency, if possible, of the attachments. As the testimony of those who have used it abundantly prove, the **BUCKEYE STATE**, in respect to its mowing and reaping attachments, stands unrivaled; but with a view of further improvements both are being built so as to combine, with mechanical excellence, the best results of past experience. Look well to it, when you are offered machines, that they do not fail in speed of knife, in perfectness of make, or in some other of the very essential requirements, all of which are embodied in the **BUCKEYE STATE**. Beautiful pictures and glowing descriptions are easily made, but the harvest field, with all its tangled grain and grass, and its uneven surface, is the crucible in which to test these pretensions. We do not ask the farmers to take our assertion for it, but to put these machines to the test of a thorough trial.

We build the Mower and Combined Machine. We build the Reaper with dropper, which we think the best form of Reaper, when ease of operation, compactness and little

liability of getting out of order, is taken into account. These, with the flexible cutter bar, admitting of folding, when moving from field to field, and going through narrow lanes and gates, with our improved contrivance for folding back the reel and reaping apparatus, make the **BUCKEYE STATE** all that could be wished in a Mower and Reaper.

We shall offer these machines in all parts of the country, through our regular agents, as heretofore, on as liberal terms as any other of the competing machines offered, and any person buying, at any time, a machine made at the Portsmouth Agricultural Works, can at all times be supplied by us, or our agents, with any extra parts they may require, at reasonable prices. It is our purpose to exercise greater diligence than ever in the selection of the best materials for our machines and in the quality and durability of our work. The **BUCKEYE STATE**, we assert, is superior to any machine now offered in the market, in point of simplicity, perfection of construction, durability, lightness of draft, facility of management and adaptability to any and every condition of surface crop.

To all farmers we would say, if you are tired of buying flimsily made machines, that are easily broken; if you are tired of using heavy, awkward machines, that worry your teams, and require them to be constantly spurred to keep up a good motion of the knife; if you are tired of heavy side-draft, low-wheeled machines, with which you cannot turn a corner, nor back up; if you are tired of having reel chains breaking, slipping and running off; then buy a well-balanced,

quick-motioned BUCKEYE STATE, with our improved reel chain and changeable speed.

Guaranteeing the good working qualities of the BUCKEYE STATE, believing that it is put up on true and scientific principles, the location of our works, (in the centre of the Hanging Rock iron region, also in the midst of a heavy timbered region,) enabling us to make selections of the best grades of iron and second-growth timber, which must be used in all first-class machines, we believe the BUCKEYE STATE MACHINE embraces all that is or can be desired by the farmers, to suit the various circumstances of crops and climate, and we respectfully solicit the patronage of all.

# P R I C E S

OF THE

## BUCKEYE STATE REAPER and MOWER

FOR 1872,

DELIVERED ON CARS OR BOAT, AT PORTSMOUTH, OHIO.

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|                              |          |
|------------------------------|----------|
| <i>Junior Mower</i> .....    | \$ _____ |
| <i>Junior Combined</i> ..... | \$ _____ |
| <i>Senior Mower</i> .....    | \$ _____ |
| <i>Senior Combined</i> ..... | \$ _____ |

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With each Combined Machine will be furnished neck yoke, whipple-trees, two complete knives and one serrated or one smooth edge sickle, one extra mower and reaper guard each. Also, one monkey wrench, one punch, one cold chisel, one oil can, and a supply of spring keys and rivets. With reaping attachments will be furnished one sickle complete, one extra sickle section, and one extra guard. Agents keep constantly on hand a full supply of repairs and extra parts.

# WARRANTY

## OF

### THE BUCKEYE STATE MACHINE.

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We hereby warrant the BUCKEYE STATE MACHINE to be well made of the best materials, and durable when properly used; that it will cut on land free from obstructions, if properly managed, one acre per hour on an average, and will do good work in wet or dry, standing or lodged grain or grass. The cutting of five acres of grain or grass to be regarded as a fair trial.

Should it not upon trial prove as warranted, the party purchasing will notify the Portsmouth Agricultural Works, or their authorized agent, and give them ample time to put the same in good condition, or replace the defective parts; and then if it does not answer the warranty, the purchaser will re-deliver it, without charge, to the place where received, when the money and notes given therefor will be refunded by the manufacturers or their agents.



BUCKEYE STATE MOWER ON THE ROAD.

## BRIEF DESCRIPTION

OF THE

# BUCKEYE STATE REAPER and MOWER.

### THE FRAME.

The frame is mounted upon two drive wheels, supporting the whole weight of gearing and driver, each of which acts independently in driving the knives, thereby giving power, unfailing motion and steady movement over uneven ground; the forward movement of either wheel giving motion to the knives, while the machine is always out of gear when backing. The frame is made from the best quality of iron. It is close, compact, and strongly braced; not diagonally, as in some machines, but in direct line with the draft and strain on the machines. The bearings or journal boxes are cast in the frame; they are self-oiling, and so arranged that when the oil runs off the journal it is received in a chamber under the bearings, and is then conducted back again to the journals by a wick, which is inserted in the chamber, and through an opening in the bearing to the journal. This we claim to be a very valuable improvement, as it prevents the wasting of oil and keeps the machine clean, there being no oil to run out on the machine, to gum up and catch the dirt, and the journals are not liable to get dry and cut the boxes, which is the case with other machines.



BUCKEYE STATE REAPER AT WORK.

### THE GEARING.

The **BUCKEYE STATE** has one double bevel wheel, which is firmly keyed to the axle, which acting on two bevel pinions, gives motion to the spur-wheel shaft. The spur-wheel is keyed to the shaft at the rear of the machine, with the spur pinion running inside instead of outside, which prevents grass or dirt from getting in and clogging. The gearing is so arranged that the motion of the knife can be reduced or increased at will. The shifting lever is fastened to the foot board; by moving the lever forward you get the quick motion, and by moving it back, the slow motion. The slow motion is used for cutting light grass and grain, the quick motion for heavy grass. This is very essential in a Reaper and Mower; it saves the machine in cutting light grass, and also in cutting grain. It requires but three-fourths the motion to cut grain that it does to cut grass, and by reducing the motion, you lighten the draft of the machine in proportion.

### THE FINGER BAR

Is made of cold rolled iron, the best material known, and the guards of the best hardened wrought iron, faced with steel, always keeping a sharp edge to cut against. The points of the guards can be elevated or depressed if required.

### POSITION OF CUTTING APPARATUS.

The finger bar is in front, the only position for a correctly planned machine, giving the driver at once a full view of the working of his machine, and of all obstacles before him, his attention not being divided between his work and the ground before him and the cutting apparatus behind.

### THE PITMAN

Is of cast steel, nearly straight, connected with the wrist on the crank by nicely fitted brass boxes, and applies the power to the knives in a direct line from the crank.



BUCKEYE STATE MOWER AT WORK.

### THE LEVER

For raising the cutter bar is convenient to the driver, enabling him to raise or lower it at will, as the nature of the work requires, and the machine can be thrown out of gear by the foot, while it is in motion.

### THE JOURNALS

Are supported by self-oiling babbitted boxes, an advantage which no other Reaper or Mower possesses, and the gearing is arranged to occupy the smallest possible space, and being separate from the drive wheels, is shielded from dirt and mud; a feature that must have great value when duly considered.

### THE AXLES

Are made of the best quality of hammered charcoal iron; being stiff and strong, avoids the common occurrence of springing and bending of the axle.

### THE DRAFT

Of the **BUCKEYE STATE** is reduced to the lowest point consistent with speed and strength; in fact lower than that of any other first-class machine in the market. This is affirmed from actual trial.

### THE SEAT

Is placed on elliptic springs, so arranged that it can be moved backward or forward, to suit the driver. The machine can be exactly balanced; all the weight removed from the horses' necks, and the whole weight of the machine and driver thrown on the wheels, thereby insuring certain motion to the knife, at the same time there is absolutely no side draft.

### PORTABILITY.

The device for folding the mower-bar for moving from point to point, and the folding back of the reaper-attachment

for transportation through narrow lanes, is something new, and admits of moving the Reaper with as much ease as a cart, simply by drawing two bolts and loosening the pitman, when the whole reaping apparatus will swing round at the side of the machine, and is there secured by a rod to keep it directly in line.

### THE REEL

Has no connection with the grain-divider; is light and strong, and readily adjusted either up or down, forward or back. It is run by two chains, and the pulleys and chains are so arranged that the use of springs is dispensed with, for the purpose of taking up the slack in the chain when going over rough or uneven ground. This arrangement is simple, and avoids the liability of the running off, breaking, or slipping off of the chain.

### THE DROPPING ATTACHMENT.

It consists of a slatted platform hinged to the cutter-bar, which is raised and lowered by means of a treadle under control of the driver, and discharges the grain in the rear of the platform, in the best possible shape for binding, and we regard it as possessing, in the simplest and most durable form, all the elements of the most successful Reaper ever offered to the farmer. It adds no weight or extra load to the team, and has none of that complexity so aggravating and objectionable as the present imperfect machines known as self-raker or side-delivery.

REASONS WHY  
THE  
BUCKEYE STATE REAPER and MOWER  
IS PREFERABLE TO ALL OTHER MACHINES.

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*First*—It is the only machine that has self-oiling boxes, which prevents the bearings from getting dry and cutting.

*Second*—It has the very best hammered charcoal axles.

*Third*—It has the simplest and most complete arrangement for running the reel.

*Fourth*—It is a successful double-speed machine, avoiding any change of gear.

*Fifth*—It is easily operated.

*Sixth*—All who use it affirm that it is the lightest draft machine they ever saw.

*Seventh*—It has no weight on the horses' necks.

*Eighth*—It is the best braced machine in the world.

*Ninth*—The whole machine is made from the very choicest materials.

*Tenth*—It has no side draft.

*Eleventh*—It is compact and very simple in construction.

*Twelfth*—The double-trees can be worked above or below the tongue.

*Thirteenth*—The reaping attachment can be folded to the side of the machine, in order to get through narrow lanes.

*Fourteenth*—The pitman is in direct line with the knife.

*Fifteenth*—No farmer who will keep the knives sharp, bearings oiled, and nuts screwed tight, will have any trouble in running the BUCKEYE STATE MACHINE to a ripe old age.

## TESTIMONIALS.

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THE following are a few of the numerous testimonials we have received from those who have used the BUCKEYE STATE in different parts of the country. They show that it enjoys an enviable reputation, and is the favorite machine wherever it has been tried:

*From R. H. HAYMAN, "Elm Wood" Farm, Scioto County, Ohio.*

I am well pleased with the "Buckeye State" Mower and Reaper purchased of you this season. I have tested it to my entire satisfaction during the season, having mowed and reaped about one hundred acres of grass and grain, and take great pleasure in saying (having had experience in running other machines) that I have met with no machine that so fully answers all the wants of the farmer as the "Buckeye State." It runs very light, or easy on a team; balances nicely, with no weight on the horses' necks; and the improvement by which a slow or fast motion can be given to the knife while in motion, is of great advantage in cutting heavy or light grass or grain. I deem the "Buckeye State" equally efficient in cutting grass or grain. In fact, my machine so completely answers all my wants in this respect that I would not exchange it for any machine I have ever worked or seen, and confidently and cheerfully recommend it to all who want to buy the best machine in the market.

August 10, 1871.

*From W. M. SHAFFER, Superintendent Scioto County Infirmary.*

The Directors of the Scioto County Infirmary Farm having purchased one of your "Buckeye State" Reaping and Mowing Machines to do the harvesting on said farm this year, I can say that it has done its work well, both as a mower and a reaper, more than performing all that was claimed for it. One point of excellence is the fast and slow motion that can be given to the knife while the machine is running. This improvement is very essential in cutting when the grain or grass varies in thickness on the ground; using the slow motion for grain and light grass, and the fast motion for heavy grass. With this improvement, and its lightness of draft, and ability to perform all that is claimed for it, I can recommend it to all.

August 1, 1871.

*From N. W. PRESTON, Wheelersburg, Ohio.*

Having used one of the "Buckeye State" Reapers and Mowers for the year 1871, I cheerfully recommend to all farmers, who wish to purchase a first-class machine, to get a "Buckeye State." The machine is capable of doing all that is claimed for it; being the best Reaper and Mower I have ever seen.

September, 1871.

*From J. D. FEURT, Scioto County, Ohio.*

PORTSMOUTH AGRICULTURAL WORKS—*Gentlemen:*—Having used one of your "Buckeye State" Mowers and Reapers during last harvest, I have no hesitancy in saying that it is the best machine I have ever used, and I have used several different kinds of mowers and reapers. The double gear arrangement surpasses anything I have ever seen, and is so arranged that you can change the speed without stopping the team. I would also recommend it as the lightest draft machine I have ever used—a point which should not be overlooked by any farmer when purchasing a machine; and I would say that I have met with no machine that so fully answers all the wants of the farmer as your machine.

August 12, 1871.

*From H. B. RAMSEY, Knightstown, Indiana.*

M. C. GORDON—*Dear Sir:*—The "Buckeye State" which you sold my son, James D. White, has given entire satisfaction. It has been my privilege to

see many different combined reapers and mowers at work in the field, but none has excelled the "Buckeye State" for mowing, and few equal it.

July 17, 1871.

*From J. W. PAYNE, Woodville, Indiana.*

M. C. GORDON—*Dear Sir:*—The "Buckeye State" which I bought of you the past harvest has proven to be all that I could reasonably expect. With the double-frees under the tongue, I find it the lightest draft of any machine that I have yet been acquainted with, and I am willing to challenge any machine for mowing. It works easily for the driver, is easily handled, and is as near my ideas of what a Combined Reaper and Mower should be as any harvester that has yet come under my notice.

July 8, 1871.

*From WM. D. TRESTER, Pecksburg, Indiana.*

R. L. LUKENS—*Dear Sir:*—The "Buckeye State" Reaper and Mower that I purchased of you this season, after a thorough trial or test, is all you claim for it. Being acquainted with almost every Reaper that has been introduced into our State, I pronounce it certainly the best. Its two motions, one slow for reaping, and the other for mowing, certainly almost combine two reapers in one. Its draft is lighter than any machine I have ever tried; two horses being enough team without change.

July 15, 1871.

*From SCHROCK & ALLGIRE, Canal Winchester, Ohio.*

PORTSMOUTH AGRICULTURAL WORKS—*Gentlemen:*—We give below the expressions of some of the farmers who have bought the "Buckeye State" of us:

Mr. T. G. Bowen, two miles north of this place, says he has cut one hundred acres of grain and four acres of grass, using but one team the whole harvest. He considers it the lightest running, easiest controlled machine in the market; having cut considerable down grain and had no trouble in making a nice, clean stubble.

Mr. George W. Long, near Lithopolis, Fairfield county, who bought of us, says the machine does all that is claimed for it in every respect, and is confident it will be the leading machine when its merits are known by

the farmers, and advises them not to buy a machine until they have seen the "Buckeye State."

Phil. Schwartz, five miles east of Columbus, says he had examined four or five of the leading machines of the country before seeing the "Buckeye State," which he bought of us, and he is now satisfied that he has bought the best machine of them all.

July 25, 1871.

*From JOSIAH SMALL, Carthage, Indiana.*

R. L. LUKENS—*Dear Sir:*—Your agent at Carthage asked me for a certificate as to the working, &c., of the "Buckeye State," I bought of him in June last.

The Reaper and Mower I bought of Mr. Beckner has come up to and even surpassed my expectations. It cuts everything smooth off that comes before it, and does it with less power than any machine I ever saw, and I think it is the lightest draft and most durable machine I have ever seen; not liable to get out of order, and is the easiest to regulate of any machine I have yet tried, and I cheerfully recommend it to my brother farmers as a No. 1 Combined Machine.

July 20, 1871.

*From JAMES O. JOHNSTON, Scioto County, Ohio.*

PORTSMOUTH AGRICULTURAL WORKS—*Gentlemen:*—I had one of your "Buckeye State" Reapers and Mowers to cut my grain this season, and I can cheerfully say that it is the best Reaper that I ever used, and I have used and worn out three machines. I think that it is as near perfect as a machine can be. It has the best arrangement for running the reel that I ever saw; the chains never break or run off, which has been a great annoyance on all the machines I have ever used before. The changeable speed is one of the best and simplest arrangements that I ever saw. I can cheerfully recommend it as the lightest draft, most durable and the most reliable machine in the market.

August 18, 1871.

*From ITHAMER GRAY and DANIEL BRAY, Moorsville, Indiana.*

R. L. LUKINS—*Dear Sir:*—We have used one of your Machines through our harvest, and we find it very light draft for two horses, and easily handled

by the driver. The first cutting we did, was six acres of heavy wheat in four hours, on rough stock ground. We have done our mowing with the slow speed, not having to use the quick speed this year, as our grass was not very heavy. We most cheerfully recommend all farmers wanting the best Reaper and Mower now to be had, to buy a "Buckeye State." It has been our privilege to have and see many other good machines.

August 2, 1871.

*From E. W. RICKEY, Madison Township, Scioto County, Ohio.*

PORTSMOUTH AGRICULTURAL WORKS—*Gentlemen:*—I purchased one of your "Buckeye State" Reapers and Mowers, and I can honestly and heartily say that it is the most durable and lightest draft machine that I ever saw or ever used, and I have had two machines before I bought the "Buckeye State," and I can most cheerfully recommend it to any one wishing a first-class machine.

August 12, 1871.

*From T. E. HILL and J. ADDISON, Carthage, Indiana.*

R. L. LUKENS—*Dear Sir:*—I bought one of the "Buckeye State" Combined Machines from your agent at this place, Mr. T. Beckner, and, after cutting my crop of wheat, sixty acres, I am free to say it is the best combined machine I have ever used, and I have used several kinds of machines. It runs easier and with less power than any other I have ever used; does its work better, and is not liable to get out of order. The mowing I did was in clover, and I am fully satisfied that there is no machine that will mow smoother or easier.

July 19, 1871.

*From J. F. MORGAN, Scioto County, Ohio.*

PORTSMOUTH AGRICULTURAL WORKS—*Gentlemen:*—The Reaper and Mower that I bought of you this summer is, I think, the best machine I ever saw used. I cut one hundred and thirty acres of grain and twenty-five acres of grass without changing the team, and they were in better condition when I had finished harvesting than when I commenced. I am satisfied that it is the lightest draft machine in the market, as it has no side draft and no weight on the horses' necks. The changeable speed, in my opinion, is the simplest and best arrangement I ever saw. I can cut

any kind of grain, no matter how heavy, with the slow motion, and with the quick motion I can cut the thickest kind of grass. I can most cheerfully recommend it as the most durable, lightest draft, and the easiest handled machine that I have ever seen or used.

August 19, 1871.

*From JEREMIAH CRANSTON, Scioto County, Ohio.*

PORTSMOUTH AGRICULTURAL WORKS—*Gentlemen:*—The "Buckeye State" Mower I purchased of you this season has come up to my utmost expectations. It was used on both smooth and rough ground, and went through the season without giving me a moment's delay, doing its work in the very best style, being very light of draft, easily handled and in every respect durable, and all that could be desired by any farmer who has mowing to do, and I most cheerfully recommend it to all my brother farmers.

August 16, 1871.

*From I. N. BARNES, Pike County, Ohio.*

PORTSMOUTH AGRICULTURAL WORKS—*Gentlemen:*—After an experience of twenty years in Reaping and Mowing Machines, and after using a number of machines, such as the New York and Excelsior, I am prepared to say that the cutting of the "Buckeye State" is unsurpassed by any machine I have ever seen. The machine is simple and easily kept in order, and can be managed by any careful boy with ease. I cut one hundred and forty acres of grain and grass entirely satisfactorily, and I would advise any one who wants a good machine to buy a "Buckeye State."

August 18, 1871.

*From JOHN JUDGE, Woodville, Indiana.*

M. C. GORDON—*Dear Sir:*—The "Buckeye State" I bought of you last harvest has filled my highest expectations. It is the best Mower I have ever used, and as a Reaper it has proved a decided success. In a word, I am highly pleased with my machine.

August 6, 1871.

*From JOHN SHEARER, Indianapolis, Indiana.*

I have used one of your machines through the past harvest, and find it a light draft and easily handled machine. I am pleased with the double

speed arrangement, as it is of great advantage to have a fast motion to mow with and a slow motion to reap with. I can cheerfully recommend the "Buckeye State" to any farmer who wants a good machine.

August 11, 1871.

*From GEORGE S. WILLIAMS, Scioto Furnace, Ohio.*

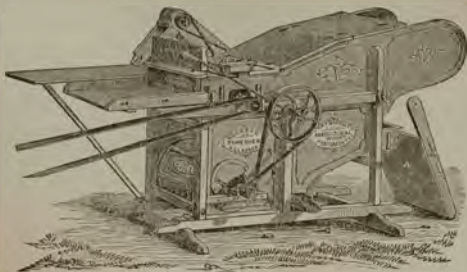
MR. SHEPHERD:—In June last I bought from the Portsmouth Works one of the "Buckeye State" Mowers. Since then I have cut nearly seventy-five acres of grass, mostly on new meadows, cut for the first time, and very rough and stony. The man who drove never had seen a machine before, yet, with all this, it gave me no trouble whatever, and so far has proven to be, by all odds, the best machine I have ever used. I can unhesitatingly recommend it as being all that is claimed for it, "*the best machine in use.*"

August 8, 1871.

*From ROBERT CRAWFORD, Scioto County, Ohio.*

PORTSMOUTH AGRICULTURAL WORKS—*Gentlemen:*—I purchased one of your Mowing Machines this summer and have cut fifty or sixty acres of grass with it. Some of it was very light and some very heavy, and in each it did its work well. One piece of my grass was very heavy, and mostly down, and in order to test the machine, I ran it through the center of it, thinking it would surely choke it, and run over it without cutting it, but to my surprise, I found it cut every spear close to the ground. I take pleasure in recommending it in preference to any other machine.

August 18, 1871.



BUCKEYE THRESHER READY FOR WORK.



BUCKEYE THRESHER MOUNTED ON TRUCKS.

## BRIEF DESCRIPTION

OF THE

## BUCKEYE THRESHER AND CLEANER.

It is the final result of a long series of experiments in which no pains or expense have been spared to bring out a perfect machine. We now present it to the public, confident that it will be found to meet a very general need, and that its *merits* will secure for it an extended popularity. The BUCKEYE belongs to the class of small Threshers, and does not claim to do as much work per day as the larger machines, but it is intended especially for those who wish to do their own threshing, and to do it in such a manner and at such times as suit themselves. As a Thresher for single farms and neighborhoods, therefore, it presents the *greatest advantages*.

In the first place, it will thresh and clean, per day, from *one hundred to two hundred bushels of wheat*, and from *two to four hundred bushels of oats*. For this amount of work, it will require only from four to six men or boys, and the same number of horses. The straw will be carried through the machine but little broken and it can be saved in good condition. The grain will be well separated and cleaned and delivered from the spout in a condition fit for market.

The BUCKEYE is adapted to all kinds of grain, threshing and cleaning all with equal ease. In the second place, our Thresher has many mechanical advantages. It is made of the best materials and combines lightness with durability and strength in a remarkable degree. The back and forward motion is so equalized with the side-shake as to permit the machine to run with great steadiness and with very little rocking and noise. In consequence of this the wear of the machinery is comparatively light and its durability proportionally long. It is also pleasanter for the operator.

The arrangement of the machinery is very simple, such that any one can readily understand and learn to work it. The cylinder is overshot, running on a steel shaft and furnished with teeth made of extra refined iron. This shaft runs in self-adjusting brass trunnion boxes, fitted with oil cups and covers. The cylinder pulley is bound with leather to prevent the belt from slipping. A dust flue over the front of the cylinder carries the dust away from the feeder and relieves him from the discomfort of it. The concave can be raised or lowered to suit the grain at the pleasure of the operator.

The straw is taken directly from the cylinder by a system of rakes, and carried backward. On its passage it is thoroughly tossed and shaken by a series of agitators, so that a complete separation of the grain is effected. The grain falls down through grain cells upon a seed board over which revolves a carrier on an endless belt, sweeping the grain and chaff together down into the shoe, from whence it passes into the fan blast and down to the sieves. The fan blast is so directed that part of the wind is thrown over the sieves while the rest goes beneath, by which device we effect a more complete winnowing than is possible by ordinary methods. This also enables us to divide the grain into two qualities, when desired, of which the best is well selected for seeding. There is also an elevator for carrying the tailings back to the feed board.

Besides all these, the BUCKEYE weighs but 800 pounds, and is only twenty-two inches wide by eight and one-half feet long. It is easily moved and handled by such force as is about an ordinary farm. Nearly any farmer has hands and horses to work it without extra help, of which he will therefore save the extra cost. He can also choose his own time for threshing, either as he wishes the grain to sell, or fresh straw for his cattle. He is not obliged to endure the confusion and household discomfort of those who hire large machines with their teams and crowd of careless men. Nor is he exposed to inconvenience and disappointment in promised machines.

We call especial attention to the fact that our prices are such as to put the BUCKEYE within the means of every thriving farmer.

Neighborhoods, also, can easily afford to buy one, as it would readily pay for itself in a single season. They will thus save the toil, the waste, the delay, the vexation, and the expense connected with relying upon and using the larger machines.

The BUCKEYE is furnished with the usual outfit of small belts, etc. We provide it also mounted on trucks when desired. We also recommend our new Lever Power and Jack, which are especially adapted to run the machine at the proper speed. The Thresher is worked by belt only and is not prepared to run by gearing direct from the power.

We conclude with a cordial recommendation of the BUCKEYE to the agricultural community as the simplest, most effective, easily worked, and cheapest machine in the market.

We guarantee it to be made of the best materials and to do good work in every case.



EXCELSIOR CULTIVATOR AND GRAIN DRILL.  
(SIDE VIEW.)



EXCELSIOR CULTIVATOR AND GRAIN DRILL.  
(REAR VIEW.)

## Excelsior Cultivator and Grain Drill.

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We also manufacture the EXCELSIOR Cultivator and Grain Drill, combined, and recommend it as one of the most useful farm implements now extant. It is what has long been wanted by the farmer to fill up the list of farm implements. It is cheap and durable, not liable to get out of order, and is so arranged that it can be used as a Cultivator by simply taking out three bolts and removing the box that holds the grain, and when used as a Cultivator it has no superior, as it is light of draft, and can be drawn by any ordinary farm horse; and for a Wheat Drill it is just the thing that farmers have been looking for, as it is admirably adapted to seeding among standing corn, being the only machine invented that so fully supplies this deficiency in farm implements, and is so arranged that it can easily be adjusted to any width of row, or any quantity of grain per acre, from one bushel up, without any fear of its getting clogged or missing its work. One horse will seed from five to seven acres per day, and in a more satisfactory manner than the old way. The grain is more evenly deposited in the ground and covered so that none is lost. The feed is a force feed. All that we ask is for each farmer to try one, and we are satisfied that it will give entire satisfaction.

## Planet Lever Power and Jack.



The PLANET is an improved triple geared power especially designed for our Thresher, but can be used to run any kind of farm and other small machinery. It is compact, strong, durable, and works with great ease. It may be run with two horses, or is strong enough for six. The castings are made of the best charcoal iron and the journals of the best refined. The Centre Shaft rests in a self-oiling cup with bearings of chilled iron. The entire gear is covered in under a close iron plate, which makes accidents from falling into it impossible. The whole power is securely bolted to a stout wooden frame. It is simple in construction, easily taken apart and put together.

A tumbling rod connecting the Power and Jack, goes with the former.

The Jack connecting our PLANET Power and Thresher is, as appears, a very simple and convenient one, and is connected by belting with the Thresher pulley.



