



For Sowing

Wheat,

Barley,

Oats,

Buckwheat,

Rye,

Hemp,

Rice,

Grass Seed, &c.

Sows from 4 to 8 Acres per Hour,

At a Common Walking Gait, throwing out Wheat about forty feet wide.

DIRECTIONS FOR USING ON THIRD PAGE.

The acknowledged superiority of these machines over all others has already placed them in the front rank of labor saving agricultural implements. A saving of four-fifths of the labor and one-third of the seed is effected by their use, and a person entirely unused to sowing by hand can use this machine with perfect success.

They are Warranted to Give Perfect Satisfaction.

And to save their cost in less time than any other farm implement yet introduced. They are substantially built, and with ordinary care will last many years.

PRICE REDUCED TO \$4.00.

GOODELL COMPANY,

SOLE MANUFACTURERS.

ANTRIM, - - - NEW HAMPSHIRE.

CAHOON'S BROADCAST SEED SOWERS!

This is the age of improvement. Farmers cannot afford to go on in the old ruts, doing their work as their fathers did it fifty years ago, but must *find out* and must *use* really valuable labor-saving machines. We do not wonder that they are afraid to buy machines that they are unacquainted with, as they have so often paid out upon them worthless machines that are of no real value to them. Our *Broadcast Seed Sowers*, which have been sold in every part of the West, have been found *to be just what we say they are, and to do all and more than we claim for them.*

They are of no use to those who cannot understand, or will not take pains to attend to the *few simple directions* which accompany each machine; for however perfect any implement may be, it needs *some brains* to operate it; but we warrant our machines to do *all* that we claim for them in every particular, *when the directions are followed.*

A HAND SEED SOWER

is what *the majority* of farmers need. It sows from four to eight acres per hour, at a common walking gait, throwing Wheat and Rye about 33 feet wide, Barley 30 feet, Hemp 28 feet, Clover, Millet and Hungarian Seed 22 feet, and Timothy 8 feet. The bag and hopper will hold about 22 quarts, as much as a man would wish to carry.

WE WARRANT THE HAND MACHINE

to sow 50 acres of wheat, 35 acres of oats, or 30 acres of grass seed in *an hour*. "Ah! you can't get over the ground so quickly," some reader will exclaim. Let us see! We sow wheat two rods wide, therefore we have to walk eighty rods to sow an acre, or one and a quarter miles to sow five acres. This can easily be done in an hour, and leave ample time for filling the machine. Ten acres of wheat *have been sown* in one hour by *extraordinary effort*; but we are talking of what the machine will do with ordinary work, by an ordinary workman, under ordinary circumstances.

A person unused to sowing by hand can use the machine with perfect success, and do work with *greater precision and accuracy* that it can be done by any other means whatever.

They are Simple in Construction,
easy to be regulated, and cannot get out of order.

THESE SEED SOWERS RECEIVED FIRST PREMIUM AT 21 STATE FAIRS

in two years, and at every Mechanics' Fair, and County Fair wherever exhibited.

There are hundreds of thousands of farmers who need just such a machine as this, and would buy it if they really believed what has been said in this circular.

—WE POSITIVELY ASSERT—

that *everything* we have said *is true*, and would confidently refer to *any one* who has used the machine in accordance with the directions.

DIRECTIONS FOR USING —CAHOON'S PATENT— BROADCAST SEED SOWER!

Walk at the common gait, holding the machine erect, and turn the crank rapidly, or make one entire turn of the crank at each step. (This is easily acquired by noticing the motion of the hand when turning a wheel.)

The following are general directions for the distances to be allowed between the passages; but as some men walk faster than others, the judgment must be used to some extent, noticing how far the Seed is thrown on each side, and making the passages accordingly—always lapping the ends of the cast from four to six feet in sowing Grain, and from two to three feet in sowing Grass Seed, as may seem to be necessary, by observing carefully how the Seed is distributed upon the ground—especially where the casts lap on.

The Breadth of the Cast will be according to the Weight of the Seed. The heavier the Seed the greater the distance to which it is thrown.

The passages ordinarily should be as follows:

Wheat and Rye,	from 30 to 36 feet.	Oats,	from 21 to 25 feet.
Barley,	" 27 " 33 "	Clover, Millet, and Hungarian Seed,	" 20 " 24 "
Hemp,	" 27 " 30 "	Timothy,	" 15 " 18 "

Grass seed only.

First close the slide or gate, and then turn the small screw on the scale of inches on the slide for the different Seeds as follows:

For Wheat and Rye—to sow two bushels to the acre, at 1 inch. To sow one and a half bushels to the acre, at $\frac{3}{4}$ of an inch.

For Barley—to sow two bushels to the acre, at 1 inch. To sow one and one-eighth bushels to the acre, at $\frac{3}{4}$ of an inch.

For Hemp—to sow one bushel to the acre; at $\frac{1}{2}$ of an inch. To sow one and a quarter bushels to the acre, at $\frac{3}{4}$ of an inch.

For Oats—to sow two bushels to the acre, at one and a half inches. To sow one and a half bushels to the acre, at 1 $\frac{1}{4}$ inches.

When ready to sow, first commence turning, and with the left hand raise the slide until the nib on the slide comes against the index point. Be careful to walk and turn, as above directed. To close the slide, do it with a quick pressure of the left hand.

To sow Wheat or Rye in standing corn, two bushels to the acre, set the index at five-eighths of an inch, and sow five or six rows at a time, according as they are wide or narrow.

For Grass Seed—to sow one peck of Grass Seed to the acre, raise the small gate $\frac{3}{4}$ of an inch, half a bushel, $\frac{1}{2}$ of an inch.

DIRECTIONS FOR ADJUSTING THE DISCHARGER WINGS.

If the machine sows too much to the left, loosen the two small screws in bottom of discharger, and turn the ring a trifle in the direction opposite to the way in which the discharger turns. If it sows too much to the right, turn the ring a trifle in the direction the discharger turns—then tighten the screws.

Every Beginner should practice a little before going into the Field to Sow.

In windy weather, walk directly with the wind, or directly against it—making the passages as the seed may be influenced by it. Always avoid a side wind, as in ordinary hand sowing.

Be sure to keep the Journals well Oiled.

SUPPLEMENT TO THE DIRECTIONS.

To Lay off the Ground.

Make the *first* furrow *one-half* the distance from the side of the field, and the next and all succeeding ones, the *full distance* from each other that the Machine sows the *kind of Seed* to be used: (for instance, as Wheat is sown *three feet*, the *first furrow* should be, say seventeen feet from the fence, or side of the field, and the rest thirty-three feet apart), then walk in the furrow and sow. To sow by stakes, follow the same plan.

To Arrange the Bags and Fill the Machine.

Place the Bags on end, in the field, at convenient distances from each other (a little experience in sowing will soon indicate *the proper distance*), with the mouth of the bag rolled outwards, convenient to dip out of; then, with a two or three quart tin pan, fill the Sower, and place the pan bottom upwards in the hopper—taking it along with you to fill again with, from the next bag, and so on.

To Sow Thicker or Thinner, without changing the Slide.

Having set the Index to sow the desired quantity per acre—taking the average of the field—the operator can easily sow a little *thicker* upon those places where the *soil is richer*, by taking *shorter steps* and thus *not going so fast*, and upon the *poorer spots of ground* it can be sown *thinner* by taking *longer steps*, and consequently passing more rapidly forward.

About Sowing in the Wind.

Any one *familiar with the use of the Machine*, can sow satisfactorily in a *much stronger wind* than will admit of sowing well by hand; but as the *ordinary work of a day* can easily be done with the Sower in two or three hours, that time may be chosen *early in the morning, or late in the evening*—when it is usually calm, or nearly so.

For Sowing in Standing Corn.

The Machine will be found of the *greatest utility*—nothing can ever equal it for this purpose—but it will not sow as wide as on fallow ground, in consequence of the obstruction which the corn offers to the seed. A *broad lap* therefore is required, by making the passage nearer together. (*See Directions.*)

 Most Seeds will be better sown by having them *well cleaned*—especially Oats and Hemp Seed—but in proportion as the seed is dirty, a *larger opening* will be required to sow a given quantity to the acre.

PEARCE'S IMPROVED Cahoon's Patent Broadcast Seed Sower!

—FOR SOWING—

WHEAT, OATS, HEMP, BARLEY, RYE, BUCKWHEAT, GRASS SEED, RICE, FLAX, &C., &C.



DIRECTIONS FOR USING ON THIRD PAGE.

THE HAND MACHINE

Sows from Four to Eight Acres per Hour, at a Common Walking Gait, Throwing out Wheat about Forty Feet Wide.

SPECIAL GATE FOR GRASS SEED.

THE HORSE POWER MACHINE

At the usual Walking Gait of a Horse, Sows from Ten to Fifteen Acres per Hour

The Hand Machine, at a common walking gait, sows from Four to Eight Acres per hour. The acknowledged superiority of these machines over all others has already placed them in the front rank of labor-saving agricultural implements. A saving of four-fifths of the labor, and one-third of the seed used in hand-sowing, is effected by using these machines. A person entirely unused to sowing can use either machine with perfect success.

They are warranted to give perfect satisfaction, and to save their cost in less time than any other farm implement yet introduced. They are substantially built, and with ordinary care will last many years.

GOODELL COMPANY,
SOLE MANUFACTURERS, ANTRIM, N. H.

☞ We want every farmer, and every one who sells Agricultural Implements to read this circular carefully and note its contents. If you are not thus interested, please hand it to some one who is.

CAHOON'S BROADCAST SEED SOWERS.

This is the age of improvement. Farmers cannot afford to go on in the old ruts, doing their work as their fathers did it fifty years ago, but must find out and must use really valuable labor-saving machines. We do not wonder that they are afraid to buy machines that they are unacquainted with, as they have so often palmed upon them worthless machines that are of no real value to them. We are manufacturing Broadcast Seed Sowers, which have been sold in every State in the country, and also in Canada and South America, and have been found to be just what we say they are, and to do all and more than we claim for them.

They are of no use to those who cannot understand, or will not take pains to attend to the few simple directions which accompany each machine; for however perfect any implement may be, it needs some brains to operate it; but we warrant our machines to do all that we claim for them in every particular, when the directions are followed.

THE HAND SEED SOWER

is what the majority of farmers need. It sows from four to eight acres per hour, at a common walking gait, throwing Wheat and Rye about 33 feet wide, Barley 30 feet, Hemp 28 feet, Clover, Millet and Hungarian Seed 22 feet, and Timothy 8 feet. The bag and hopper will hold about 22 quarts, as much as a man would wish to carry.

WE WARRANT

the Hand Machine to sow 50 acres of wheat, 35 acres of oats, or 30 acres of grass seed in ten hours. "Ah! but you can't get over the ground so quickly," some reader will exclaim. Let us see! We sow wheat two rods wide, therefore we have to walk eighty rods to sow an acre, or one and a quarter miles to sow five acres. This can easily be done in an hour, and leave ample time for filling the machine. Ten acres of wheat have been sown in one hour by extraordinary effort; but we are talking of what the machine will do with ordinary work, by an ordinary workman, under ordinary circumstances.

THE HORSE POWER SEED SOWER

is necessary for Large Farm-

DIRECTIONS

FOR ADJUSTING THE DISCHARGER - WINGS IN

PEARCE'S IMPROVED

Cahoon Broadcast Seed Sower!

If the machine sows too much to the left, loosen the two small screws in bottom of discharger and turn the ring a trifle in the direction opposite to the way in which the discharger turns. If it sows too much to the right, turn the ring a trifle in the direction the discharger turns—then tighten the screws.

To sow one peck of grass seed to the acre, raise the small gate 3-8 of an inch, half a bushel, 5-8 of an inch

ers. At the usual walking gait of a horse, this machine sows from ten to twelve acres per hour, throwing wheat fifty feet wide at each passage. This machine can be attached to either wagon or cart.

A person unused to sowing by hand can use either machine with perfect success, and do the work with greater precision and accuracy than it can be done by any other means whatever. The

ACKNOWLEDGED SUPERIORITY

of these Seed Sowers over all others, has already placed them in the front rank of labor-saving implements. By their use a saving is effected of four-fifths of the labor, and one-third of the seed used in hand sowing. Many of our customers say that they have saved the cost of a machine in a single year.

They are Simple in Construction,

easy to use, and cannot get out of order. These Seed Sowers received first premiums at

TWENTY-ONE STATE FAIRS

in two years, and at every Mechanics' Fair, and County Fair wherever exhibited.

There are hundreds of thousands of farmers who need just such a machine as this, and would buy it if they really believed what has been said in this circular.

WE POSITIVELY ASSERT

that everything we have said is true, and would confidently refer to any one who has used the machine in accordance with the directions, and to any of our numerous agents.

DIRECTIONS FOR USING CAHOON'S PATENT BROADCAST SEED SOWER

When Operated by Hand.

Walk at the common pace, **holding the machine erect**, and turn the crank rapidly, or make **one entire revolution of the crank at each step.** (This is EASILY ACQUIRED by noticing the motion of the crank to bring the HAND DOWN as each FOOT COMES DOWN.)

The following are general directions for the distances to be allowed between the passages; but as some men walk fast, and others, the JUDGMENT must be used to some extent, by noticing how far the Seed is thrown on each side, and MAKING THE PASSAGES ACCORDINGLY — always lapping the ends of the CAST from four to six feet in sowing Grain, and from two to three feet in sowing Grass Seed, as may seem to be necessary, by OBSERVING CAREFULLY how the Seed is distributed upon the ground — ESPECIALLY WHERE THE CASTS LAP ON.

The BREADTH of the CAST will be according to the WEIGHT of the Seed;

THE HEAVIER THE SEED THE GREATER THE DISTANCE TO WHICH IT IS THROWN.

The passages ordinarily should be about as follows:—

Wheat and Rye, - - -	from 30 to 36 feet.	Oats, - - - - -	from 21 to 25 feet.
Barley, - - - - -	" 27 " 33 "	Clover, Millet, and Hungarian Seed, " 20 " 24 "	
Hemp, - - - - -	" 27 " 30 "	Timothy, - - - - -	" 15 " 18 "

DIRECTIONS FOR GAUGING THE MACHINE.

First close the slide tight, then fix the LOWER EDGE of the index point against the scale of inches on the slide for the different Seeds, as follows:—

- For **Wheat and Rye** — to sow two bushels to the acre, at 1 inch, — to sow one and a half bushels to the acre, at $\frac{3}{4}$ of an inch.
- For **Barley** — To sow two bushels to the acre, at 1 inch, — to sow one and one-eight bushels to the acre, at $\frac{3}{8}$ of an inch.
- For **Hemp** — to sow one bushel to the acre, at $\frac{1}{2}$ of an inch, — to sow one and a quarter bushels to the acre, at $\frac{3}{4}$ of an inch.
- For **Oats** — to sow two bushels to the acre, at one and half inches, — to sow one and a half bushels to the acre, at $1\frac{1}{4}$ inches.
- For **Grass Seed** — to sow one peck to the acre, at $\frac{1}{2}$ of an inch, — to sow one third of a peck to the acre, at $1\frac{1}{16}$ of an inch.

When ready to sow, **first commence turning**, and with the left hand raise the slide until the nib on the slide comes against the index point. Be careful to walk and turn, as above directed. To close the slide, do it with a QUICK PRESSURE of the LEFT HAND.

To sow **WHEAT or RYE** in **STANDING CORN**, two bushels to the acre, set the index at five-eighths of an inch, and sow five or six rows at a time according as they are WIDE or NARROW.

To SOW MORE or LESS, per acre, RAISE or LOWER the INDEX POINT proportionally, which is done by turning it back from the slide, when it moves up and down with ease.

EVERY BEGINNER SHOULD PRACTICE A LITTLE BEFORE GOING INTO THE FIELD TO SOW.

In windy weather, walk directly with the wind, or directly against it — making the passages as the seed may be influenced by it. Always avoid a SIDE WIND, as in ordinary hand sowing.

SUPPLEMENT TO THE DIRECTIONS.

To Lay off the Ground.

Make the FIRST furrow ONE-HALF the distance from the side of the field, and the next and all succeeding ones, the FULL DISTANCE FROM EACH OTHER that the Machine sows the **kind of Seed** to be used; (for instance, as Wheat is sown about thirty-three feet, the FIRST FURROW should be, say seventeen feet from the fence, or side of the field, and the rest thirty-three feet apart), then walk in the furrow and sow. To sow by stakes, follow the same plan.

To Arrange the Bags and Fill the Machine.

Place the Bags on end, in the field, at convenient distances from each other (a little experience in sowing will soon indicate THE PROPER DISTANCE), with the mouth of the bag rolled outwards, convenient to dip out of; then, with a two or three quart tin pan, fill the Sower, and place the pan bottom upwards in the hopper — taking it along with you to fill again with, from the next bag, and so on.

To Sow Thicker or Thinner,

(WITHOUT CHANGING THE SLIDE.)

Having set the Index to sow the desired quantity per acre — taking the average of the field — the operator can easily sow a little THICKER upon those places where the SOIL IS RICHER, by taking SHORTER STEPS and thus NOT GOING SO FAST, and upon the POORER SPOTS OF GROUND it can be sown THINNER by taking LONGER STEPS, and consequently passing more rapidly forward.

About Sowing in the Wind.

Any one FAMILIAR WITH THE USE of the Machine, can sow satisfactorily in a MUCH STRONGER WIND than will admit of sowing well by hand; but as the ORDINARY WORK OF A DAY can easily be done with the Sower in two or three hours, that time may be chosen EARLY IN THE MORNING, or LATE IN THE EVENING — when it is usually calm, or nearly so.

For Sowing in Standing Corn.

The Machine will be found of the GREATEST UTILITY — nothing can ever equal it for this purpose — but it will not sow as wide as on fallow ground, in consequence of the obstruction which the corn offers to the seed. A BROADER LAP therefore is required, by making the passage nearer together. (*See Directions.*)

☞ Most Seeds will be better sown by having them WELL CLEANED — especially Oats and Hemp seed — but in proportion as the seed is dirt, a LARGER OPENING will be required to sow a given quantity to the acre.