

UNION MOWING MACHINE.

Circular for 1866.



MANUFACTURED BY
ALZIRUS BROWN,

— FOR —
THOMAS H. DODGE,
Merrifield's Buildings,
WORCESTER, MASS.

R. M. ROLLINS, Agent,
MANCHESTER, N. H.

At D. B. Eastman's Depot Store, Springfield

E. R. Fiske, Steam Job Printer, Worcester, Mass.





The Union Mower

Has now been in use for five successive harvests. The first few machines, built in 1861, were looked upon with jealous eyes by our rival manufacturers, but met with the hearty approval and well merited praise of practical farmers.

During four successful years of manufacturing, the proprietors of the Union Mowing Machine have used comparatively little effort to advertise their machine. The issuing of flaming hand-bills, and getting up mowing trials with committees prejudiced in favor of their machine has not been their forte. While others have been making their outside demonstrations, they have been studiously engaged at home, perfecting and improving their machine, and attending carefully to its manufacture.

How to Produce a Perfect Machine.

There has heretofore been much competition between the different inventors and manufacturers, in striving to produce the most perfect machine. It is believed that each have gained some good points, and that the god of Genius has somewhat equally divided his favors.

It appears to be the labor of each successful manufacturer to convince the farmers that his arrangement, his gearing, guards and knives, or whatever his alleged improvement may consist of, makes his machine superior to all others.

It requires no argument to convince the farmer that a machine combining, as the Union Mower does, all of the more important and valuable features of the various machines, is *the* machine for practical use.

Perfection in Detail.

Having called the attention of the farmer to the proper manner of constructing the most perfect machine as a whole, viz., by com-

binning the good features of the many in one, it may be well to explain in detail the more important features of the Union Mower.

Hanging the Finger Bar.

There are two classes of hinged machines before the public; one with a loose pole and a vibrating frame, with the heel of the finger bar hinged direct to the main frame. Thus, as the heel of the finger bar rises or falls to accommodate itself to the inequalities of the ground, the front of the frame will also be elevated or depressed. The other class are advertised as the double-hinged finger-bar machines, and have a rigid pole, fast to the frame, with a coupling piece intervening between the heel of the finger-bar and the main frame. The advantages of the former over the latter are, first—*the hinging of the bar direct to the main frame renders the connection more perfect and secure*, while at the same time it obviates all liability of the joints working loose. Second—the single-hinged arrangement gives a broad base for the hinges at the heel of the bar, and at the same time retains the heel of the knife-bar and the crank in the same relative position. Third—the crank which operates the knives has, in all machines, to be placed low down in order to operate well, and in the single-jointed machine it can be elevated with ease with the cutters and the front of the frame over obstacles. This peculiarity gives the Union Mower the advantage of passing an obstruction between the wheels as high as the axle.

Position of the Knife Bar.

All machines designed particularly for *mowing*, should have the bar in front of the wheels. This permits the operator to observe the action of the team and cutters without turning, thus enabling him to raise the bar to pass obstructions without withdrawing his attention from the team, while at the same time his position is rendered much safer.

Folding the Finger Bar.

In this case simplicity and security ought to be consulted. The arrangement of the various parts in the Union Mower is such as to allow the operator to fold the bar with one hand, and without laying down the reins, and when so folded a spring-catch secures the bar in a firm and safe position.

Mounting the Seat.

There are at least two ways of mounting the seat for the driver. One is, to support the seat on the main frame that carries the gearing. The objection to this mode is, that the jarring motion of

the machine is a source of great annoyance to the driver. In the Union Mower a loose pole is used, and the seat is supported by means of a metallic spring upon the rear of the pole whereby the operator feels no annoyance from the motion of the machine. This is an important feature and well worthy the attention of the farmer.

Gearing.

The manner of gearing mowing machines are various; but with two-wheeled mowers is generally resolved into two distinct plans. First, where the motion is obtained by means of cogs on the drive wheel; and second, where the main gear wheel is keyed on to the main axle. If the main gear wheel is keyed on the axle and near its centre, it must necessarily be small in order to pass obstructions; hence machines of this class are necessarily slow geared. In the other class, the main gear wheel can be made as large as desired, and consequently a rapid and easy motion of the knives is obtained. A quick geared machine, with a small knife, cutting over but little space at each vibration, enables the farmer to favor his team in a warm day, by driving slow, while in the fields having heavy bottom, its advantages are very great.

The Union Mower ranks among the most rapid geared machines manufactured.

Shoes and Wheels.

The inside shoe should be constructed so as not to push up the cut grass before it. In the Union Mower, a small wheel attachment is used, which rides down the cut grass, and aids the shoe in mounting and passing over hummocks or obstacles. A wheel in the outer shoe is as necessary for backing, or turning, as the inside one is for a forward movement. Both these wheels are made adjustable, up and down, whereby the height of cut can be regulated at pleasure. Some use false soles on one or both shoes for this purpose, but these cause much more friction on the ground than wheels.

Knife Bars.

In the harvest time every country blacksmith is called upon more or less to mend knife bars to different machines, and in many cases these breakages prove to be of serious inconvenience and damage to the farmer, occurring as they often do just when he desires to use his machine most. A steel bar with an iron head is unsafe, since the high degree of heat required to weld the steel, has a tendency to destroy the iron; again, when the hole into which the connection is placed is bored from an inch to an inch and a half above the line of cut, the power applied to the head of

the knife to propel it, gives it a rocking motion and eventually jerks off the head of the scythe.

To remedy these objections the very best quality of cold rolled Norway iron is used, and the hole pierced for the connection close down to the line of cut; this brings the vibrating force directly on a line with the bar, and consequently no complaint is ever made that the knife-bars of the Union Mower break; a fact worthy the most careful attention of farmers.

Both the knife and the connection should be made as light as possible and still have strength to do the work and not break, as the knife has to stop and start with every revolution of the crank; a heavy knife and clumsy connection increase the draft of the machine, while they often produce breakages of a serious character. A well adjusted crank balance, as found in the Union Mower, heavy enough to regulate the motion of the vibrating knife, is indispensable.

Guards or Fingers.

Cast iron guards break, and are a source of great annoyance, while wrought iron ones are more expensive and difficult to manufacture. The face of a malleable iron guard is too soft to resist the cutting edge of the knife; but a malleable iron guard when faced with a tempered steel plate for a cutting edge, is approved by all who have used them, and is undoubtedly the best.

Fastening Fingers to the Bar.

There are two ways in general practice of fastening the guards on to the bar. One is, to fasten the guard by a single bolt, which is well, if the guards are of such a character as to require replacing often; but in such cases, the bolts are liable to work loose, and the nuts to catch the grass when wet. We use a short guard that will not break, and fasten them on firmly with two strong rivets which leave a smooth bar for the cut grass to glide or slip over.

Position of the Guards on the Bar.

The guards should be placed close together on the bar, since, when so placed they afford greater protection to the cutters in passing over small stones, than when placed from three and a half to four inches apart. Any farmer who has used a machine with guards close together, on stony ground, will appreciate this arrangement.

Boxes.

Babbitted boxes, or cast iron boxes filled with composition, are superior to ordinary cast iron ones, since they run with much less friction and are besides not so liable to heat.

Frame.

A wood frame for supporting the bearings has been found to so counteract and absorb the jar incident to the rapid motion of the gearing and vibration of the cutters, as to almost supersede the use of iron for such purposes. Again, with an iron frame it is found next to impossible to keep the nuts on the bolts, while the wear of the working parts is at least fifty per cent. greater than in wooden frame machines.

The more compact the frame the better; our frame is quadrangular in form, with its ends secured by means of draw bolts which pass entirely through from one side of the machine to the other.

Machine Passing Obstructions.

A perfect mower should be so constructed as to pass obstructions safely, not only with its cutters, but with its frame and crank underneath the frame.

The peculiarities of the Union Mower are such that the operator can elevate both the crank and the cutters at the same time, and thus pass obstructions between the wheels as high as the axle.

Elevating Lever.

A lever for elevating the cutter bar is of vital importance, and in the Union Mower it is so combined and arranged that the driver can raise with ease and facility the cutter bar to pass obstructions, while by slightly pressing the foot on a pedal, the cutter bar can be held or retained at any desired elevation above the ground.

Throwing in and out of Gear.

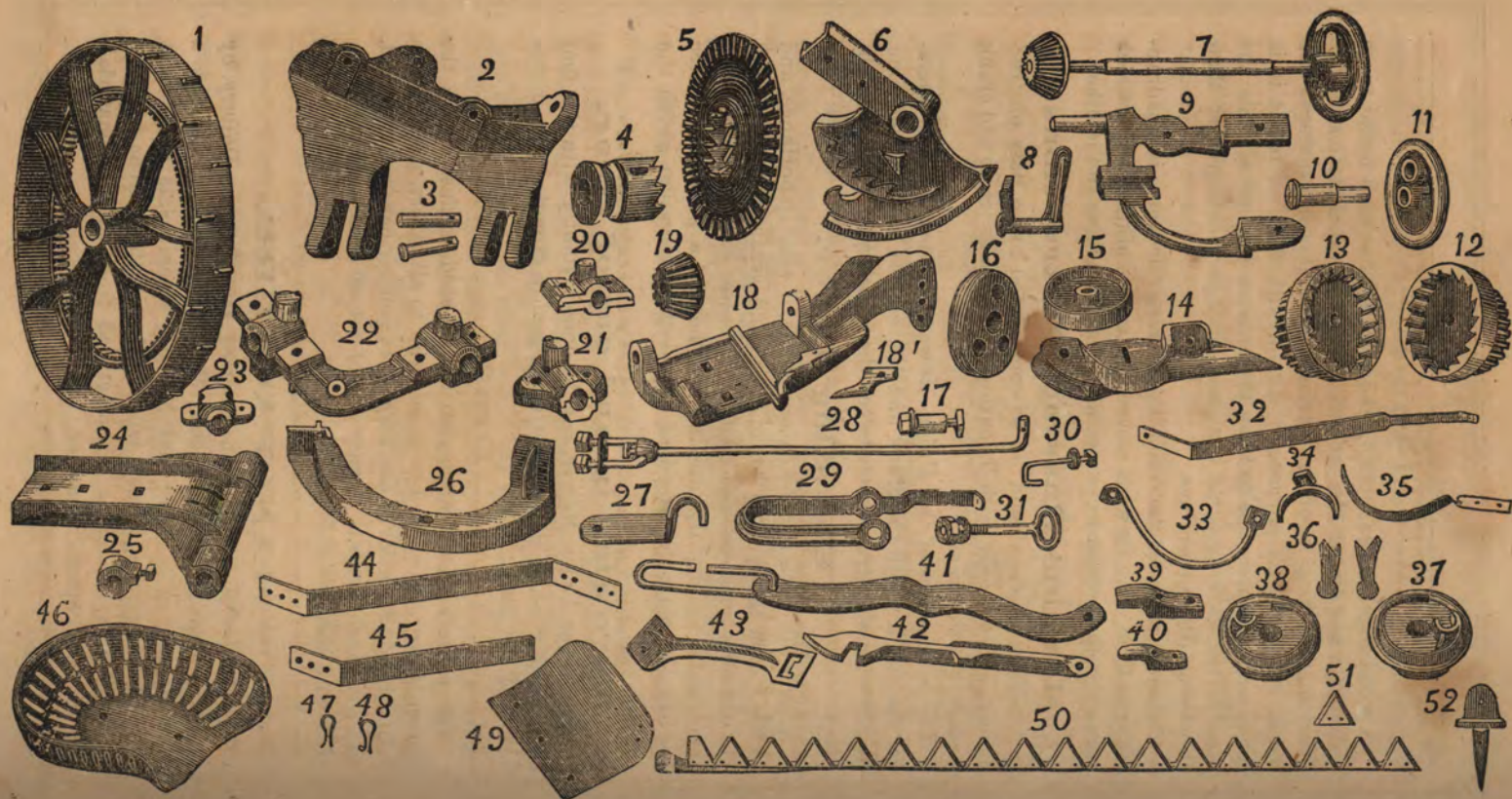
This, in the Union Mower, can be done instantly with the foot of the driver when his hands are engaged in directing the movements of the team.

Draft.

The patented draft arrangement, as used exclusively in the Union Mower, is believed to be superior to all others, since it prevents side draft, relieves the drag of the cutter bar on the ground, and enables the cutters to pass in and out of dead water furrows, with both ease and safety.

MANUFACTURE.

The Union Mower is manufactured for *Cash on Delivery*, by ALZIRUS BROWN, of Worcester, Mass., whose reputation as a Manufacturer of Reaping and Mowing Machines, is a sufficient guarantee that the farmer will obtain, in the purchase of the Union Mower, a machine manufactured from the best materials and in a workmanlike manner.



PRICE LIST OF EXTRAS.

No.	Price.	No.	Price.
1. Drive Wheel for No. 1 Machine, (each).....	\$10 50	29. Clevis,.....	\$ 65
Drive Wheel for No. 2,.....	10 00	30. Staple,.....	15
Drive Wheel for No. 3,.....	9 50	31. Eye Bolt,.....	50
2. Hanger Iron,.....	3 10	32. Shipper Lever,.....	65
3. Connection Bolts, (each),	20	33. Connection Guard,.....	35
4. Clutch,.....	75	34. Shipper Fork,.....	50
5. Bevel Wheel,.....	2 10	35. Latch Spring,.....	20
6. Lever Ratchet,.....	1 60	36. Pawls, per pair,.....	16
7. Crank Shaft, Complete,....	4 00	37. Right Hand Pawl Holder,...	65
Crank Shaft,.....	1 30	38. Left Hand Pawl Holder,....	65
8. Lever Catch,.....	40	39. Heel Button,.....	20
9. Pole Iron, (malleable).....	1 75	40. Scythe Button,.....	15
10. Crank Wrist,.....	1 00	41. Under Lever,.....	1 10
11. Crank Balance,.....	1 15	42. Finger Bar Latch,.....	40
12. Right Hand Spur Pinion,	85	43. Shipper Guide,.....	50
13. Left Hand Spur Pinion,	85	44. Main Seat Spring,.....	2 50
14. Outside Shoe,.....	1 40	45. Back Seat Spring,.....	1 00
15. Wheel to same,.....	35	46. Seat,.....	1 40
16. Wheel to Inside Shoe,....	1 15	47. Spring Key,.....	08
17. Roll and Bolt,.....	25	48. Connection Key,.....	06
18. Inside Shoe,.....	2 25	49. Crank Fender,.....	1 10
18'. Finger Piece on Inside Shoe	10	50. Complete Scythe 4½ feet,....	8 00
19. Bevel Pinion,.....	50	“ “ 4 “ ...	7 50
20. Single Cross Shaft, Box,....	60	“ “ 3½ “ ...	7 00
21. Front Crank Shaft Box,....	85	51. Section, (each),.....	25
22. Double Box,.....	1 85	52. Guard Finger,.....	50
23. Brass Box,.....	1 10	Pole, (without irons),.....	3 00
24. Pole Socket,.....	2 50	Evener and Whiffletrees,....	2 85
25. Axle Collar,.....	30	Neck Yoke,.....	1 25
26. Gear Fender,.....	60	Rivets, per lb.,.....	33
27. Draw Hook,.....	40	Track Clearer, Complete,....	1 25
28. Connection,.....	3 00	Screw Wrench,.....	1 00

It is necessary in all cases when ordering extra parts, to give the Number of the Machine, and the year of its purchase; also, size and length of cutter bar.

Thos. H. Dodge & Co.



PRICE OF MACHINES.

Three sizes of machines, adapted to the wants of farmers in different sections, are manufactured:

No. 1 Mower with a cut of 4 feet 6 inches, . . . \$135.00

No. 2 Mower with a cut of 4 feet, 125.00

No. 3 one-horse Mower with a cut of 3 feet 6 inches, 115.00

Machines delivered on cars at Worcester.

Two complete Scythes, two extra knife sections, two guard fingers, a malleable iron and screw wrench, an oil can, a cold chisel, two punches, rivets, an extra composition box, and a pair of whiffletrees and evener, accompany each machine.

WARRANTY.

Each machine is warranted to do the work with as great speed and in as perfect a manner in the hands of a competent manager, as any other, and the cutting of two acres of grass will be allowed as a fair trial before settlement. If any defect is discovered, immediate notice must be given and sufficient time allowed for putting it in order. If then the machine proves permanently defective, the money will be refunded, or a new machine furnished, at the option of the purchaser.

Apply to or address

THOS. H. DODGE,

42 Exchange Street,

WORCESTER, MASS.

RECOMMENDATIONS.

MAINE.

S. S. BROOKS, Esq.—*Dear Sir*:—The Union Mower that I purchased of you last July, proved itself a first class machine. My men cut with it about 80 tons of hay, and it did not get out of order, nor cost a cent for repairs the whole season, and when taken out of the field, was in as good condition as on the first day it was used. It is of easy draft, and I know of none better in use, and if I had occasion to purchase another, should select the Union. Respectfully Yours, SAMUEL CONY.

Augusta, Dec. 10th, 1865.

Industry, Me., Dec. 4, 1865.

MR. A. F. HOLT—*Dear Sir*:—The two horse Union Mower you sold me last summer more than fulfilled my expectations.

Previous to my purchasing a Mower, my prejudices, as you know, were against the Union and in favor of the Buckeye. But as I had a Buckeye last year, that mowed for me about a week on the same ground that I used the Union Mower on this year, giving both a fair trial, I must say that my prejudices are wholly changed, and are now in favor of the Union Mower. I mowed this year about three times as much ground with the Union, as I did last year with the Buckeye, and mowed where it was much rougher, and all that I broke this year on the Union, was one section, while last year the man owning the Buckeye, running it himself, on but one-third as much ground, and that much smoother on an average, broke seven sections and one guard.

I think the cutting apparatus of the Union Mower preferable to the Buckeye, on account of its being higher speeded, and you can stop and start in the grass without backing up.

I cannot see why it is not equally as strong a machine as the Buckeye; it has certainly proved itself, with me, stronger, and that it is of easier draft, I am certain.

Truly, Yours,

ALBERT SHAW.

Sidney, Me., Dec. 9, 1865.

MR. A. F. HOLT—*Dear Sir*:—I have used the Union Mower, No. 2, three seasons, cutting 50 acres each season, have been to no expense for repairs, and having tried the Buckeye Mower, can heartily endorse the remarks of Albert Shaw, Esq.

Yours, Truly,

CHAS. K. SAWTELLE.

Minot, Me., Nov. 20, 1865.

THOS. H. DODGE, Esq.—*Dear Sir*:—Having a high, rocky farm, I did not believe that a Mower of any kind would work to advantage for me, but for the last three years I have taken unwearied pains to ascertain, by observation, enquiries, &c., the best machine. I finally came to the conclusion that the Union was the best, and this last season I purchased of your agent, Col. William Swett, a two-horse mower, with a 4½ foot cutter bar.

I have mowed, this season, about 80 acres; have mowed from five to six acres in the forenoon, or ten acres a day, with ease, and mowed it decidedly better than I ever had it done with scythes, and was to no expense for repairs. Upon trial of the Union Mower, I am of the opinion that it is not equalled by any, and would recommend any man wishing to purchase a machine, to buy the Union.

Yours Truly,

ISAIAH WOODMAN.

Whitefield, Me., Nov. 1, 1865.

MR. THOS. H. DODGE—*Dear Sir*:—In the summer of 1865 I purchased of Mr. S. S. Brooks, of Augusta, a two-horse Union Mower. In thirteen days I mowed with it 81 acres of grass, swale and upland. It cuts either equally well. With it I cut four acres of grain in 1½ hours. In my opinion it is the very best machine made, and to any one wanting a Mowing Machine, I would heartily recommend it.

Yours Truly,

JONAS PROCTOR.

Lewiston, Me., Oct. 31, 1865.

This may certify that I have used four different kinds of mowing machines. I have used a No. 1 Union Mower the past two years, and it is the best mower I have ever seen in use. The past season I mowed about 90 acres, with a pair of small horses, and can mow an acre in 45 minutes. My machine has never cost me anything for repairs.

JOHN B. GARCELON.

Durham, 10th Mo., 24th, 1865.

FRIEND WEBBER:—The machine I purchased of thee I have used in heavy lodged clover and in light grass. It has far exceeded my expectations, and I would say to any one wishing to purchase a mower, *be sure* and buy the Union.

ISAIAH DAY.

Durham, Oct. 3, 1865.

MR. C. W. WEBBER: The No. 2 mower which I bought of you has given perfect satisfaction. I have mowed over 30 acres with a pair of four year old cattle; they drew it as easily as they would a light harrow. It cuts both thin and lodged grass perfectly well.

GEO. VARNEY.

Freeport, Me., Aug. 15, 1865.

MR. C. W. WEBBER—*Dear Sir*:—The No. 2 Union Mower I bought of you worked well. I mowed with a pair of light oxen, and could cut an acre an hour, with ease, it being so light draft. I would recommend this machine to all in want of a *good working*, durable mower.

ALVAN TOWNSEND.

Durham, 10th Mo., 3d, 1865.

FRIEND WEBBER:—The No. 2 Mower which I purchased of thee is *just* the machine for every farmer to have. I have tried it thoroughly on rough, stony, side hill, and level ground, and find it is just the machine to work with oxen.

GEORGE TUTTLE.

Brunswick, Me., 11th Mo., 6th, 1865.

CHAS. W. WEBBER—*Esteemed Friend*:—Thou wished to know what I thought of the Union Mower I bought of thee last summer.

I can say that it has more than double met my expectations. It is a complete machine. My neighbors and myself used it with oxen to mow something like 50 acres of land, some quite hilly, consequently the oxen travelled very slow; yet it cut the grass perfectly well, and it cost us less than half a dollar for repairs, leaving the machine in good order for another season's service. I would say to those who think of obtaining a mower for another year, just give the Union Mower a fair trial, and I think you cannot fail to be satisfied.

STEPHEN SWETT.

Parsonfield, Me., Nov. 20, 1865.

THOS. H. DODGE.—*Dear Sir*:—Last season I bought of your agent, O. B. Churchill, of this town, one of your two-horse Union Mowers, and having given it a fair trial, with perfect success, I would cheerfully recommend the same to all persons wanting a good machine.

ALVAH DOE.

Houlton, Me., Sept. 20, 1865.

MR. A. P. HEYWOOD.—*Dear Sir*:—I am highly pleased with the Union Mower I purchased of you this season, and can safely recommend it to all who may wish to purchase a first-class mowing machine.

DANIEL WYMAN.

Houlton, Me., Aug. 20, 1865.

MR. THOS. H. DODGE—*Dear Sir*:—I am happy to give my testimony in favor of your mower. I have used it to do my mowing this season, and am highly pleased with the manner in which it does its work. For ease to the team, fineness of construction, and durability, I think it cannot be excelled. I can safely recommend it to all who wish to purchase a mowing machine.

Yours Truly,

J. R. SLIPP.

Houlton, Me., Sept. 8, 1865.

MR. THOS. H. DODGE—*Dear Sir*:—In July I purchased one of your mowers of Mr. A. P. Heywood. I have done my own mowing with it, and have mowed some thirty acres for my neighbors, most of which was on very rough and stony fields. The weight of the horses used would not exceed 900 pounds each, and they handled the machine with perfect ease. I have worked on the same farms with the Buckeye, and have had an opportunity of seeing the work of both machines, and I do not hesitate to say, that the Union Mower is decidedly preferable to the Buckeye on all kinds of mowing, more especially on rough fields. The expense of repairs on the Union is very trifling, while that of the Buckeye is large. I would further state, that I took my machine one morning, and went about two miles to the field where I was to mow, and the grass I mowed before twelve o'clock that day, when cured, made fifteen loads for a span of good horses.

Yours Respectfully,

JOSEPH PEARCE.

Limerick, Me., Nov. 18, 1865.

THOS. H. DODGE—*Dear Sir:*—Having used one of your Union Mowers the past haying season, it gives me pleasure to say, that, notwithstanding my farm is quite rough, I found that it could be used on much rougher fields than I had anticipated, and I am entirely satisfied with its operation; in fact, it far exceeded my expectations, more particularly in the lightness of draft, that being much less than I supposed, as it was easily handled by a span of horses weighing 900 pounds each. Here allow me to say, that by considerable persuasion by your agent, A. P. Heywood, I was induced to try one of the Whitcomb Horse Hay Rakes, feeling all the while that I should be unable to use it on my farm, for the reason that the sward is very light and tender; but, contrary to my expectations, it worked admirably, and I can safely say that the rake exceeds everything that I ever saw used for the same purpose.

Yours Truly,

B. F. NICKERSON.

NEW HAMPSHIRE.

City Farm, Manchester, N. H., Nov. 30, 1865.

MR. R. M. ROLLINS—*Dear Sir:*—I have used one of the Union Mowers for the past two seasons, cutting from 60 to 70 tons of hay each season. One season we used it with horses, and one with oxen, on rough, stony, and stumpy land, and I must say I was happily disappointed, the machine did the work so much better than I expected. All the difference there was between using it with oxen and horses was, it takes one man extra with oxen, to drive. I can recommend your mower to any one, as being both durable and cheap to keep in order, as it has cost me but 50 cents for repairs for the two seasons.

Yours Respectfully,

HIRAM SIMPSON, Supt City Farm.

Weare, N. H., Dec. 1, 1865.

FRIEND ROLLINS:—You wished to know how I liked the Union Mower. I can say I think it the best machine there is in the market for our New England farms, as it is not liable to get out of repair. I have used mine two seasons, and it has not cost me more than two or three dollars for repairs, while I think it has paid me \$50 a year.

Yours Truly,

ASA BREED.

Dunbarton, N. H., Dec. 4, 1865.

MR. R. M. ROLLINS—*Dear Sir:*—I deem it justly due to you and the proprietor of the Union Mower to say, that the mower I purchased of you last June has far exceeded my most sanguine expectations. For speed and lightness of draft, it excels all other machines, in my judgment. We cut some 40 acres of all kinds of grass, and my whole expense for repairs was one section, costing twenty-five cents.

Yours Truly,

N. H. WHEELER.

Goffstown, N. H., Dec. 1, 1865.

MR. THOS. H. DODGE—*Dear Sir:*—The two-horse Union Mower which I purchased of your agent, R. M. Rollins, I have used three seasons, and it has given perfect satisfaction. I have used it in all kinds of grass, and in lodged clover; it beats everything. It is very light draft, strong and durable, and it has not cost me one cent for repairs yet. It cuts the grass better than it can be done by hand, and, at the price labor has been for two years past, it has paid for itself, and to all appearance, it is good for at least three years more. The Whitcomb Horse Hay Rake, also bought of Mr. Rollins, beats all the rakes I ever saw, and is the only horse rake I ever have seen that would rake all kinds of hay clean. I would say to my brother farmers, buy a Union Mower and a Whitcomb Rake, and make your haying easy.

Truly Yours,

ANDREW McDUGAL.

New Boston, N. H., Dec. 5, 1865.

MR. T. H. DODGE—*Dear Sir:*—The Union Mower which I purchased of your agent last summer, has proved itself worthy of the highest recommendation. Its durability and strength, and its perfect freedom from side draft, cannot be surpassed by any machine that I have seen. I worked it with a common pair of oxen, with ease, and I am now prepared to say with confidence, that your machine is superior to any other, so far as I am acquainted with them.

WILLIAM WOODBURY.

South Weare, N. H., Dec. 7, 1865.

R. M. ROLLINS—*Dear Sir:*—The Mower which I bought of you last March, I used through the haying season with much satisfaction. I mowed about 70 acres, some of it rough and stony ground, and I can with confidence recommend it to all who wish to try a mower.

Yours Truly,

W. SCOTT BAILEY.

Goffstown, N. H., Dec. 9, 1865.

MR. THOS. S. DODGE—*Dear Sir:*—The Union Mower I purchased of your agent, R. M. Rollins, Esq., has given perfect satisfaction. I have used it for two years, the past season on two farms, and in all sorts of grass, from fine June grass to lodged clover, with perfect success. The expense for repairs was nothing, and I would recommend it to all as one of the best mowing machines in use at the present day.

Respectfully Yours,

C. W. CHENEY.

Dunbarton, N. H., Dec. 2, 1865.

R. M. ROLLINS—*Dear Sir:*—I can with pleasure certify that the Union Mower purchased of you has given entire satisfaction. It operates perfectly in all kinds of grass into which I have put it, and I like it well, and consider it superior to anything of the kind in this section.

Respectfully Yours,

WM. C. STINSON.

Londonderry, N. H., Dec. 18, 1865.

MR. THOS. H. DODGE—*Dear Sir:*—For two years I paid considerable attention to the different Mowers in use, with a view of purchasing one in the season of 1862. I then bought one of your Mowers, the first one introduced in this section. I have used it in all kinds of grass, thick and thin, wet and dry, lodged and second crop clover, with the best success, and in all cases the work was performed with ease and despatch unparalled by any other Mower that I have seen tested. The draft is very light, it is readily thrown in and out of gear, easily transported from one place to another, and I do not hesitate to recommend it to my brother farmers, as the *best* Mower in use. I have not expended, during the four years I have used it, one dollar for repairs.

Yours, Truly,

CYRUS SANBORN.

Londonderry, N. H., Dec. 18, 1865.

MR. T. H. DODGE—*Dear Sir:*—This is to certify that I have used the Union Mower, purchased of your Agent, M. Boyd, three seasons, and it always has worked admirably well, and is easily kept in repair.

Yours, Truly,

JOHN MARCH.

Windham, N. H., Dec. 18, 1865.

MASON BOYD, Esq.—*Dear Sir:*—The Union Mower I bought of you, I have used for three years; have cut heavy and light grass, and used it on both rough and smooth ground, with perfect satisfaction, and it has not yet cost me \$1.00 for repairs. I would not now think of getting my hay without a Mower, and I would most heartily recommend the *Union Mower*, for the use of all farmers, as the best I have ever seen used.

Truly, Yours,

SAMUEL CAMPBELL.

Marshall, Henry Co., Iowa, Oct. 30, 1865.

THOS. H. DODGE—*Dear Sir:*—The 4½ foot Mower you sent me I consider the best one ever in this section. I cut very heavy clover and timothy with it, and it was only good exercise for my two old horses. I consider the Union Mower just the thing for the farmer.

Yours, Truly,

E. S. NOBLE.

In addition to the foregoing recommendations, reference can be made to the following named gentlemen who have used the Union Mower in different parts of the country.

M A I N E.

H. G. Mower,	<i>Corrinna.</i>	Judah Cilley,	<i>Brooks.</i>
Samuel Copp,	"	Darling Cilley,	"
David Douty,	<i>Sangerville.</i>	Eben Littlefield,	"
Wint. Hussey,	"	A. J. Roberts,	"
Moses Carr,	"	Samuel Liford,	<i>St. Albans.</i>
Maj. Stephen Ellis,	<i>Parkman.</i>	A. Crawford,	<i>Jackson.</i>
B. R. Lake,	<i>Atkinson.</i>	A. Boothby,	"
George Blake,	"	Emerson Davis,	"
J. H. Ramsdell,	"	Jonathan Chase,	"
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John A. Dodge,	"	J. Putnam,	"
Israel Dodge,	"	J. Parkhurst,	"
Luther Colburn,	"	H. Whitney,	"
Page Todd,	"	W. Stiles,	"
Levi P. Spaulding,	"	H. Batcheller,	"
E. Langdell,	"	O. Barrett,	"
William Woodbury,	"	Frank Hadley,	<i>Lyndeboro'.</i>
D. L. Dodge,	"	Chas. Holt,	"
Stephen Holt,	<i>Fracestown.</i>	D. C. Grant,	"
Elias Wilson,	"	H. Holt,	"
Wm. Tarrin,	"	J. Burnam,	"
Nehemiah Woods,	"	E. Batcheller,	"
James Follansbee,	"	Wm. Herrick,	"
Dathaniel H. Wheeler,	<i>Dunbarton.</i>	Ruel Durkee,	<i>Croydon.</i>
Henry Putney,	"	Priam Humphrey,	"
William Stinson,	"	Lemuel P. Cooper,	"
Ira B. Osgood,	<i>Suncook.</i>	Daniel R. Hall,	"
Emery & Brother,	"	John Putnam,	"
Nathan Parker,	<i>Merrimack.</i>	J. J. Crosby,	<i>Hebron.</i>
Geo. F. Spaulding,	"	Obadiah Dimond,	<i>Danville.</i>
Robert McGaw, Esq.,	"	B. F. Hutchinson,	<i>Milford.</i>
Robert French,	"	S. S. Stickney,	"
Amos Harris & Son,	"	P. Hood,	"
D. B. Moore,	<i>Merrimack.</i>	L. Bullard,	"
Geo. P. Clark,	<i>Auburn.</i>	J. Hutchinson,	"
Richard Hall,	"	S. Howard,	"
F. W. Holbrook,	<i>Amherst.</i>	M. Proctor,	"
Melendy & David,	"	J. Elliott,	<i>Mason.</i>
Gideon Moulton,	<i>Campton.</i>	G. S. Blood,	"
Chase Moulton,	"	S. Shedd,	<i>Sharon.</i>
Samuel Keniston,	"	G. Shedd,	"
D. D. Keniston,	<i>Thornton.</i>	C. C. Green,	"
Varnum Durgin,	"	John Gleason,	<i>Dublin.</i>
Benjamin Fox, Esq.,	<i>Woodstock.</i>	C. Frost,	"
Stephen Eastman,	<i>Bridgewater.</i>	A. G. Hubbard,	"
John Keniston,	<i>Plymouth.</i>	D. Townsend,	"
A. J. Pebbles,	"	S. Monroe,	<i>Jaffrey.</i>
Robert Shepard,	<i>Canterbury.</i>	L. Bailey,	<i>Greenfield.</i>
Nehemiah Trull,	"	W. A. Lord,	<i>Fracestown.</i>

 At the Fair of the N. E. Agricultural Society, held in Springfield, Mass., Sept. 6th, 7th 8th and 9th, 1864, the premium of \$25 which was offered by the Society for the best Mowing Machine, WAS AWARDED TO THE UNION MOWER, although it was brought into competition with nearly all the leading machines in the country. With such a recommendation, it needs no argument to convince the farmer that this is THE machine for him to purchase.



DIRECTIONS

FOR SETTING UP AND USING THE

Union Mowing Machine.

1. Fasten the pole to its socket by means of the front bolt only.
2. Place the seat in its position, and the foot board at the same time, and secure them both by the bolts for the purpose.
3. Adjust the lever in its place in an upright position and attach the elevating chain thereto.
4. Fasten the finger bar to the main frame by means of the bolts, and see that they are well secured in their place by the spring keys.
5. Bolt on the track clearer with the handle inclining inward.
6. Put in the scythe and see that it moves freely and without friction.
7. Adjust the height of cut by raising or lowering the wheels on either end of the cutter-bar.
8. The whiffletrees are suspended under the pole in the following manner:
Attach the draft chain at the front of the frame.
Loosen the front staple bolt under the pole.
Pass the evener clevis through the ring in draft chain, then put in the evener and support it by the roll and bolt under the pole.

Keep the knives sharp, the bearings well oiled, the spur pinions well in gear, and the nuts tight.



WHITCOMB'S METALLIC SPRING-TOOTH HORSE HAY RAKE.

THE BEST HORSE-RAKE KNOWN.

The Rake is mounted on wheels, thereby obviating the objections which have been raised against all spring-tooth rakes where the whole weight of the rake rests on the teeth.

It has a spring seat for the operator; has metallic spring teeth which pass lightly over the ground, gathering all the hay, but without scraping up the dirt and stubble, as is the case with rakes without wheels.

The pliability of the teeth is such that stones or other obstructions, to the height of 14 inches, can be raked over without leaving the hay, or injury to the rake. It is well adapted to the roughest meadows, where its great excellence will be appreciated. It is also adapted to *gleaning grain fields*, which can be done by adjusting the teeth just above the surface of the ground.

The position of the head, hung at the axle, allows wheel and teeth to pass into and out of hollows and dead furrows at the same time, a decided advantage over rakes with the head in front of the wheels.

Price of Rake with Wheels, . . . \$33.00

Price of Rake without Wheels, . . . 26.00

