

## Scouring Rush

### Non Crop Areas:

1. Dry it up- Tile
2. Mow it several times a year before it has a "head"
3. Spray it- preferably 2 times a year until it is gone
4. Fertilize and encourage grass in those areas "Brome is Good!"

### Non Crop Spray Recommendations:

1. Finesse \$12.25 3 – 4 oz rate Estimated cost per acre \$36.75 – \$49.00 (TruChoice eligible)
2. Wetstone (like Milestone) 7 oz per Acre \$70.00 per qt. / \$272.50 per gal.  
Grass Hay or Pasture estimated cost per acre \$15.33
3. Gunslinger AMP Grass Hay or Pasture  
32 oz Rate 2 applications per year  
Estimated \$46.50 per gallon (2x2.5) cost per acre \$11.64  
Always use and follow label directions.

### Corn:

1. Yukon 6 oz rate on pre plant burndown  
Good on Nutsedge as well  
Costs \$2.40 per ounce comes in (6x700 oz case) cost per acre \$14.40
2. Sharpen or Verdict (Verdict contains Sharpen) Short Supply this year again!  
Verdict 10 – 16 ounces per acres. Costs about \$180 per gallon.  
Paraquat, Dicamba and Atrazine would be great helpers!  
Estimated cost per acre \$14.06 - \$ 22.50 Pre emerge only!
3. Sure Start / Staunch / Smackdown (Acetachlor, Stinger, Python)  
Use Pre or Post. If pre- heat it up with Paraquat.  
Sure Start price is way up... \$50.00 per gallon if you can get it.
4. Status 6 oz rate is hard on Scouring Rush. Use with or without Glyphosate.  
Post 5 leaf corn to 36" or 7 collars  
\$4.39 per ounce Estimated cost per acre \$26.34  
Always use and follow label directions!

### Soybeans:

1. Pursuit products can be helpful. Best option is Zidua Pro (Sharpen + Zidua + Pursuit)  
Pre-emerge only. 6 oz rate \$500.00 per gallon Estimated cost per acre \$23.50

**Prices Updated 1-20-2023**

Conclusion:

1. Tillage makes Scouring Rush spread- A Mow Board Plow will at least bury it and not spread it. This plant will send roots to bed rock!
2. Eradication??? A "long Haul" proposition.  
3 – 5 years of intense management will put you "in Control"
3. Scouring Rush, "The Ancient Horsetail" is a three million year old survivor.  
"It is possible to manage scouring rush but you will not eradicate or outlive it!"

Why has scouring Rush become a problem? Because we killed our fence rows, terraces, and waterways with Glyphosate allowing Scouring Rush to flourish. In non crop areas Brome Grass is your friend...

**Prices Updated 1-20-2023**

## Corn Sites of Action

Group 2 ALS Inhibitors:	
Permit / Yukon	Halosulfuron
Accent Q / Steadfast Q	Nicosulfuron
Resolve / Basis	Rimsulfuron
Peak	Prosulfuron
Python / SureStart	Flumetsulam
Group 4 Growth Regulators:	
Banvel / Clarity / Status	Dicamba
Stinger / Clean Slate / Spur	Clopyralid
2,4-D LV6	Phenoxy
Group 5 Photosystem II Inhibitor (group 6 & 7)	
Atrazine	Atrazine
Group 6 Photosystem II Inhibitor (group 5&7)	
Buctril	Nitril
Tough 5 EC	Pyridate
Group 9 Epsythase Inhibitor	
Round Up	Glyphosate
Group 10 Glutamine Synthase Inhibitor	
Liberty	Glufosinate
Group 14 Cell membrane disrupters (PPO)	
Aim	Carfentrazone
Cadet	Fluthiacet
Resource	Flumiclorac
Valor	Flumioxazin
Sharpen	Saflufenacil
Group 15 Long Chain Fatty Acid Inhibitors	
Harness / Keystone / Volley / Cadence	Acetachlor
Dual / Medal / Parallel / Moccasin / Brawl / Bicep	Metalachlor
Outlook	Dimethenamid – P
Define (Tri-Volt Active in Tri-Volt)	Flufenacet
Zidua / Anthem Maxx / Perpetuo	Pyroxysulfone
Group 19 Auxin Transport Inhibitor	
Component of Status	Diflufenzopyr
Group 22 Photosystem / Electron Diverter	
Paraquat	Paraquat
Group 27 HPPD Inhibitors	
Balance Flex	Isoxaflutole
Armezon / Impact	Topramezone

Callisto / Bellum  
Laudis

Mesotrione  
Tembotrione

**Burndown Products for Corn**

Dicamba DMA (2x2.5) \$39.25 per gallon.	1 pint: \$4.91	0.5 pint \$2.46	12 oz \$3.68
Dicamba DMA (totes) \$37.75 per gallon.	1 pint \$4.67	0.5 pint \$2.34	12 oz \$3.50
Dicamba DGA (2x2.5) \$41.70 per gallon.	1 Pint \$5.21	0.5 pint \$2.61	12 oz \$3.96
Dicamba DGA (totes) \$40.00 per gallon	1 pint \$5.00	0.5 pint \$2.50	12 oz \$3.75
2,4-D LV6 (2x2.5) \$37.75 per gallon.	1 pint \$4.72	24 oz. \$7.08	
2,4-D LV6 (totes) \$37.25 per gallon.	1 pint \$4.66	24 oz \$6.99	
Spur (4x1) \$142.00 per gallon	3 oz \$3.33	4 oz \$4.44	
Glyphosate (265) \$22.75 per gallon	1 quart \$5.63	24 oz \$4.32	
Paraquat (totes) \$26.50 per gallon	1 quart \$6.63		

Wickman Chemical

<b>Stalwart 3W</b> (\$32.00)	3 Pint	2 Quart	2.5 Quart	3 Quart	3.50 Quart
	.62 Pint Dual	.83 pint Dual	1.04 pint Dual	1.24 pint Dual	3.50 pint Dual
	2.62 oz Meso	3.49 oz Meso	4.36 oz Meso	5.23 oz Meso	6.1 oz Meso
	.625 Atz	.83 Atz	1.04 Atz	1.25 Atz	1.45 Atz
Cost per acre:	\$12.00	\$16.00	\$20.00	\$24.00	\$28.00

<b>Cadence Atz</b> (\$33.80)	1.35 Quarts	1.62 Quarts	2.2 Quarts	2.7 Quarts
(TruChoice eligible)	1.2 pint Harness	1.43 pint Harness	2 pint Harness	2.39 pint Harness
	.85 Atz	1 Atz	1.37 Atz	1.69 Atz
Cost per acre:	\$11.41	\$13.69	\$18.59	\$22.82

<b>Bellum (Meso)</b> (\$73.50)	2.5 oz.	3 oz.	4 oz.	5 oz.	6 oz.
Cost per Acre	\$1.43	\$1.71	\$2.28	\$2.85	\$3.42

<b>Atrazine 4L</b>	Pint	1.5 Pint	1 Quart	1.5 Quart
Cost per Acre Totes (265)	\$2.38 per 1/2 lb.	\$3.57 per 3/4 lb.	\$4.75 per lb.	\$7.13 per 1.5 lb.

<b>Moccasin II Plus</b>	1 Pint	1.5 Pint	1 quart
260 Tote \$64.40	\$8.05	\$12.08	\$16.10

<b>Valor SX</b> (\$28.00)	14 day planting interval in corn	1 oz	2 oz	2.6 oz
Cost per Acre	No till	\$1.75	\$3.50	\$4.55

<b>Bicep II Mag</b>	25 oz.	1.6 quarts	2.1 quarts
\$33.00 Tote (265)	1/2 pint Dual II mag	1 pint Dual II Mag	1.32 pints Dual II Mag
	.6 # Atrazine	1.2 # Atz	1.625 # Atz.
	\$6.50	\$13.20	\$17.33

## Corn Post

Atrazine 4L (totes) \$19.70	1 quart = \$4.75	1 pint = \$2.38		
Atrazine 4L (2x2.5) \$20.00	1 quart = \$5.00	1 pint = \$2.50		
Cadence Atz (250)** \$33.80	1.62 quart = \$13.69	0.81 quart = \$6.85		
Spur \$139.00	3 oz = \$3.27			
Dicamba DMA (totes) \$37.75	8 oz = \$2.36	1 pint = \$4.72		
Dicamba DMA (2x2.5) \$39.50	8 oz = \$2.47	1 pint = \$4.94		
Dicamba DGA (totes) \$40.00	8 oz = \$2.50	1 pint = \$5.00		
Dicamba DGA (2x2.5) \$41.70	8 oz = \$2.61	1 pint = \$5.22		
Equip \$3.10	4 oz = \$12.40			
Glyphosate (totes) \$22.75	24 oz = \$4.26	1 quart = \$5.69		
Impact \$11.60	1 oz = \$11.60			
Impact Z \$155.00	10.6 oz = \$12.83			
Impact Core \$87.75	1 quart = \$21.94	1 pint = \$10.97		
Bellum \$73.50	3 oz = \$1.71	4 oz = \$2.28	5 oz = \$2.85	6 oz = \$3.42
Moccasin II Plus (totes) \$64.40	1 pint = \$8.05	24 oz = \$12.08		
Moccasin II Plus (2x2.5) \$65.40	1 pint = \$8.18	24 oz = \$12.27		
Realm Q** \$3.84	4 oz = \$15.36			
Stalwart 3W (totes) \$32.00	1.75 quart = \$14.00			
Tough 5EC \$148.75	8 oz = \$9.30			
Status \$4.30 oz	5 oz = \$21.50	10 oz = \$43.00		

\*\*Denotes TruChoice Eligible

## Corn 2 Pass Possibilities

<b>#1</b>	<b><u>Pre:</u></b>	Cadence Atz**	1.62 quart	\$13.69
		COC	1%	\$1.32
		Growth regulator		\$3.00 - \$5.00
		AMS	2 pounds	\$0.74
		Glyphosate	24 ounces	<u>\$4.26</u>
				\$18.01 - \$25.01

Followed by

<b><u>Post:</u></b>	Realm Q**	4 ounces	\$15.36
	Cadence Atz**	26 ounces	\$6.76
	Glyphosate	24 ounces	<u>\$4.26</u>
			\$26.38

Total cost per acre \$44.39 - \$51.39 (can substitute Equip for Realm Q for \$41.43 - \$48.43)

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<b>#2</b>	<b><u>Pre:</u></b>	Stalwart 3 W	2 quart	\$16.00
		Dicamba DMA	8 oz – 16 oz.	\$2.46 - \$4.94
		or		
		Dicamba DGA	8 oz – 16 oz.	\$2.61 - \$5.21 (may use instead of DMA)
		Glyphosate	24 ounces	<u>\$4.26</u> (Add if there is grass.)
				\$18.46 - \$25.47

Followed by

**Post: (Row and Go!):**

	Stalwart 3 W	3 pints	\$12.00
	Spur	3 ounces	\$3.27
	or		
	Dicamba DGA	8 – 16 ounces	\$2.61 - \$5.21
	Glyphosate	24 ounces	<u>\$4.26</u>
			\$18.87 - \$21.47

Total cost per acre \$37.33 - \$46.94 for Pre and Post

<b>#3</b>	<b>Pre:</b>	Cadence Atz**	1.62 quart	\$13.69
		Dicamba DMA	8 oz – 16 oz.	\$2.46 - \$4.94
		or		
		Dicamba DGA	8 oz – 16 oz.	\$2.61 - \$5.21
		Glyphosate	24 ounces	\$4.26 (add if there is grass)
		Bellum (meso)	3 oz	<u>\$1.71</u> (water hemp control and burndown)
				\$17.86 - \$24.87

Followed by

<b>Post:</b>	Cadence Atz**	26 – 44 oz.	\$6.75 - \$11.44
	Bellum (meso)	3 ounce	\$1.71
	Glyphosate 5.4#	24 ounces	\$4.26
	Dicamba DGA	8 ounces	\$2.61 Depends on corn height
	or		
	Spur	3 oz	<u>\$3.27</u>
			\$15.34 - \$20.57
	Total cost per acre \$33.20 - \$45.44		

<b>#4</b>	<b>Pre:</b>	Stalwart 3W	2 quart	\$16.00
		Dicamba DMA	8 oz – 16 oz.	\$2.46 - \$4.94
		or		
		Dicamba DGA	8 oz – 16 oz.	\$2.61 - \$5.21
		Glyphosate	24 ounces	<u>\$4.26</u> (add if there is grass)
				\$18.46 - \$25.47

Followed by

<b>Post:</b>	Impact	1 oz	\$11.60
	Cadence Atz**	26 – 44 oz	\$5.98 - \$10.12
	MSO	½%	\$0.92
	AMS	2 pounds	<u>\$0.72</u>
			\$19.22 - \$23.36

Total cost per acre \$37.68 - \$48.83



<b>#5</b>	<b><u>Pre:</u></b>	Moccasin II Plus	1 pint	\$8.05	
		Atrazine 4L	½ pound	\$2.38	
		Dicamba DGA	8 oz – 16 oz.	\$2.61 - \$5.21	
		Glyphosate	24 ounces	\$4.26	(add if there is grass)
		Bellum (meso)	3 oz	<u>\$1.71</u>	
				\$14.75 - \$21.61	

Followed by

<b><u>Post:</u></b>	Impact Core	40 ounces	\$26.00	(contains 2.53 pints of Acetachlor + 1 oz Impact)
	Atrazine 4L	½ pound	\$2.38	
	MSO	½ %	\$0.73	
	AMS	2 pounds	<u>\$0.72</u>	
			\$29.83	

OR Followed by

<b><u>Post:</u></b>	Impact Core	20 ounces	\$13.00	(contains 1.27 pints of Acetachlor + ½ oz Impact)
	Impact	½ oz	\$5.80	
	Atrazine 4L	½ pound	\$2.38	
	MSO	½ %	\$0.73	
	AMS	2 pounds	<u>\$0.72</u>	
			\$22.63	

Total Cost per Acre \$37.38 - \$51.44

<b>#6</b>	<b>Pre:</b>	Cadence Atz**	1.62 quart	\$13.69
		Dicamba DMA	8 oz – 16 oz.	\$2.46 - \$4.94
		or		
		Dicamba DGA	8 oz – 16 oz.	\$2.61 - \$5.21
		Glyphosate	24 ounces	\$4.26 (add if there is grass)
		Bellum (meso)	3 oz	<u>\$1.71</u> (water hemp control and burndown)
				\$17.86 - \$24.87

Followed by

<b>Post:</b>	Impact	1 oz	\$11.60
	Cadence Atz**	26 – 44 oz	\$6.76 - \$11.44
	MSO	½%	\$0.73
	AMS	2 pounds	<u>\$0.72</u>
			\$19.81 - \$24.49

Total cost per acre \$37.67 - \$49.36

<b>#7</b>	<b>Pre:</b>	14 days <u>before</u> planting! CHEAP, CHEAP, CHEAP!!!		
		Valor SX	2.6 ounces	\$4.55 (Hot, Hot, Hot!)
		Atrazine 4L	½ - 1 pound	\$2.38 - \$4.75
		Bellum (meso)	3 ounces	\$1.71
		Dicamba DMA	8 oz – 16 oz.	\$2.46 - \$4.94
		Glyphosate	24 ounces	<u>\$4.26</u> (add if there is grass)
				\$11.10 - \$20.21

Followed By

<b>Post:</b>	Cadence Atz**	1 quart	\$8.45
	Bellum (meso)	3 ounces	\$1.71
	Spur	3 ounces	\$3.27 (optional)
	Glyphosate	24 ounces	<u>\$4.26</u>
			\$17.69

Total Cost per Acre \$28.79 - \$37.90

## Soybean Sites of Action

### 1. Accase Inhibitors:

Fusilade	Fluazifop
Assure	Quizalofop
Select	Clethodim
Poast Plus	Sethoxdim

### 2. ALS Inhibitors:

Pursuit	Imazethapyr
Raptor	Imazamox
Scepter	Imazaquin
Classic	Chlominuron
First Rate	Cloransulam
Python	Flumetsulam
Harmony	Thifensulfuron
First Rate	Cloransulam - methyl

### 3. Microtubule Inhibitors:

Prowl H2O	Pendimethalin
Satellite Hydrocap	Pendimethalin
Treflan	Trifluralin

### 4. Growth Regulators:

Enlist One	Phenoxy 2,4-D
Engenia	Dicamba
Xtendimax	Dicamba

### 5. Photosynthesis Inhibitors:

Sencor	Metribuzin
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### 6. Photosystem II Inhibitor:

Basagran	Bentazon
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### 9. EPSP Synthase Inhibitors:

Round Up	Glyphosate
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10. Nitrogen Metabolism Inhibitor:

Liberty

Glufosinate

14. Cell Membrane Disrupters (PPO):

Cadet  
Ultra Blazer  
Cobra  
Resource  
Valor  
Sharpen  
Authority

Fluthiacet  
Acifluofen  
Lactofen  
Flumiclorac  
Flumioxazin  
Saflufenacil  
Sulfentrazone

15. Long Chain Fatty Acid Inhibitors:

Chloroacetamides:

Warrant  
Dual II Magnum  
Parallel  
Outlook

Acetachlor  
S-Metalachlor  
R-Metalachlor  
Dimethenamid

Pyrazoles:

Zidua SC  
Anthem Max  
Perpetuo  
Authority Supreme  
Authority Edge

Pyroxasulfone  
Pyroxasulfone  
Pyroxasulfone  
Pyroxasulfone  
Pyroxasulfone

22. Photosystem I Electron Diverter:

Paraquat

Paraquat

## Soybean Pre Rates and Cost

Anthem Max \$540-\$594 per gallon.	5 oz contains: 3 oz Zidua and .7 oz Cadet 2.5 oz contains: 1.5 oz Zidua and .35 oz Cadet Cost per Acre: \$10.55 to \$23.20
Authority Edge \$316.00 per gallon.	10 oz contains 6.83 oz Sulfentrazone and 2.24 oz Zidua WG 7 oz contains 4.78 oz Sulfentrazone and 1.57 Zidua WG Cost per Acre \$17.43 to \$24.90
Authority Supreme \$300-\$318.50 per gallon.	10 oz contains 5.2 oz Sulfentrazone and 3 oz Zidua WG 5 oz contains 2.6 oz Sulfentrazone and 1.5 oz Zidua WG Cost per Acre \$11.70 to \$24.90
Perpetuo \$291 per gallon.	6 oz contains 4 oz Resource and 1.5 oz Zidua WG Cost per Acre \$13.62
Authority First \$39 per pound.	3.2 oz contains 4 oz Sulfentrazone and .3 oz First Rate Cost per Acre \$7.81 per Acre
Authority Maxx \$37.75 per pound.	7 oz Authority Maxx contains 8.7 oz Sulfentrazone and 1.1 oz Classic Cost per Acre \$16.52 (make it yourself for \$14.23 per Acre)
Zone Assist \$126.00 per gallon.	12 oz contains 10 oz Sulfentrazone and 4 oz Pursuit Cost per Acre \$11.76
Sulfentrazone \$112.00 per gallon	10 oz Sulfentrazone Cost per Acre \$8.80
Metrixx (Cloak DF) \$23.50 per pound.	2.5 oz contains 1.07 oz Classic and 2.08 oz Metribuzin Cost per Acre \$3.68
Fierce EZ \$452.00 per gallon.	6 oz contains 2 oz Valor SX and 1.5 oz Zidua WG Cost per acre \$21.18 (make your own: Anthem Maxx + Valor SX for \$14.05)

Fierce MTZ \$183.50 per gallon. 16 oz contains 2 oz Valor + 1.5 oz Zidua WG + 4 oz Metribuzin  
Cost per acre \$22.94  
(make your own: Anthem Maxx + Metribuzin + Valor SX = \$16.81)

Fierce XLT \$86.50 4 oz contains 2 oz Valor SX + 1.5 oz Zidua WG + 1 oz Classic  
Cost per Acre \$21.52

Valor SX \$28.00 per pound. 2.6 oz costs \$4.55 per acre  
2 oz costs \$3.50 per acre

Valor XLT \$28.00 per pound. 3 oz contains 1.76 oz Valor SX + 1.24 oz Classic costs \$5.25 per acre  
4 oz contains 2.35 oz Valor SX + 1.65 oz Classic Costs \$7.00 per acre  
5 oz contains 2.94 oz Valor SX + 2.06 oz Classic Costs \$8.75 per acre

2 oz Valor and 2.5 oz Metrix costs \$7.18 per acre. Hard to beat!  
2.5 oz Valor SX and 2.5 oz Metrix costs \$8.06 per acre.

Moccasin II Plus \$64.40 / gal 1 pint costs \$8.05 per acre  
1.5 pints costs \$12.08 per acre

Warrant \$27.30 per gallon. 1 quarts costs \$6.83 per acre. Weak!  
1.9 quarts costs \$12.98 per acre. Use this rate!

Metribuzin DF \$11.00 per pound Pre only!  
Costs \$0.69 per ounce. 4 oz max rate Pre!! Costs \$2.76 per acre

Use higher burndown rates in Soybeans!!

2,4-D Burndown costs \$11.31 per acre (24 oz Glyphosate + 24 oz 2,4-D LV6)

Dicamba DMA Burndown costs \$8.99 per Acre. (16 oz Dicamba + 24 oz Glyphosate)

\*Denotes left over product from 2022 crop year- Limited quantity

### **Soybean Post Emerge**

Glufosinate \$48.50 per gallon 32 oz rate costs \$12.13 per Acre.  
Glyphosate \$22.75 per gallon for the 5.4 # product. 24 oz rate costs \$4.32 per Acre  
Engenia \$92.20 per gallon. 12.8 oz rate costs \$9.22 per acre; plus Vaporgard Complete \$13.72 per Acre  
Xtendimax \$46.00 per gallon 22 oz rate costs \$7.92 per Acre; Plus Vaporgard Complete \$12.42 per acre  
Clethodim \$48.00 per gallon 12 oz rate costs \$4.56 per Acre  
Vaporgard Complete \$20.50 per gallon 30 oz rate costs \$4.50 per Acre  
Elist One\*\* (250) \$56.50 per gallon. 32 oz rate costs \$14.06 per Acre Plus COC + AMS \$16.10 per acre  
Intermoc \$50 per gallon 48 oz = 26 oz Glufosinate + 16 oz Moccasin \$18.75 per Acre  
64 oz = 35 oz Glufosinate + 20.5 oz Moccasin \$25.00 per Acre.  
57 oz = 31.5 oz Glufosinate + 18.5 oz Moccasin for \$22.23 per acre.

### **Soybean Post Options**

Xtendimax 22 oz plus 30 oz Vaporgard Complete +K-Salt 22 oz Glyphosate = \$17.56 per Acre  
Engenia 12.8 oz + Vaporgard Complete + K-Salt Glyphosate = \$18.86 per Acre  
Elist One\*\* 32 oz + COC + AMS + Glyphosate = \$20.38 per Acre  
Elist One\*\* 32 oz + 32 oz Glufosinate + 3# AMS + Airlink = \$29.76 per Acre  
Xtendimax 22 oz + Vaporgard Complete + Glufosinate = \$27.84 per Acre  
Engenia 12.8 oz + Vaporgard Complete + Glufosinate = \$26.14 per Acre  
  
Add Clethodim at 12 oz for \$4.56 per Acre

\*\* Qualifies for TruChoice.

### **Soybean Pre and Post Suggestions:**

6 oz Authority Supreme + 3 oz Sulfentrazone followed by 2.5 oz Anthem Maxx = \$27.00 to \$29.18 per acre.

7 oz Authority Edge + 2 oz Sulfentrazone followed by 2.5 oz Anthem Maxx = \$27.98 to \$29.03 per acre

4 oz Fierce XLT followed by 1.9 quarts of Warrant = \$34.48 per acre.

4 oz Fierce XLT followed by 1.5 pints Moccasin II Plus = \$33.58 per Acre

4 oz Fierce XLT followed by 3 oz Anthem Maxx = \$34.16 per Acre.

Zone Assist followed by 1.5 oz Moccasin II Plus = \$ 23.84 per Acre.

Zone Assist followed by 3 oz Anthem Maxx = \$24.42 pre Acre.

Zone Assist followed by 1.9 quarts Warrant \$24.59 pr acre.

10 oz Sulfentrazone + 2.5 oz Metrixx followed by 24 oz Moccasin = \$24.56 per acre.

2.6 oz Valor + 2.5 oz Metrixx followed by 24 oz Moccasin II Plus = \$20.31 per Acre.

**Prices updated 1-20-2023**