

Regulatory approval for supplemental label on December 7, 2017

- POST rate up to 128 fl oz/A
 - Willowood Ethofumesate 4SC + glyphosate
 - Greater than 2-If sugarbeet
 - Single or multiple applications
 - 10 day intervals between POST applications
 - 45 day Pre Harvest Interval (PHI)



Willowood Ethofumesate 4SC

Suspension Concentrate

BROAD SPECTRUM HERBICIDE for selective control of weeds in sugar beets, garden beets, onions, garlic, shallots (in all states) and carrots in Washington and Oregon only.

GRASS SEED HERBICIDE for selective control of weeds in certain grass seed crops and commercial sod production in California, Idaho, Nevada, Oregon and Washington.

ETHOFUMESATE GROUP 8 HERBICIDE

ACTIVE INGREDIENT:	% by Weight
Ethofumesate (2-ethoxy-2, 3-dihydro-3, 3-dimethyl-5-benzofuranyl methanesulfonate)	42.0%
OTHER INGREDIENTS:	58.0%
TOTAL:	100.0%

This product contains 4.0 lbs. active ingredient per gallon.

TURF HERBICIDE for selective control of weeds, on Ornamental Turf

KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRSTAID
If swallowed:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vorniting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If inhaled:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If in eyes:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If on skin or clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time or your poison

control center at 1-800-222-1222

EPA Reg. No. 87290-1 Manufactured for: Willowood, LLC 1800 NW Garden Valley Blvd. #120 Roseburg, OR 97471 EPA Est. No.

12/07/2017

Net Contents:

Uncer the Federal Insecticists, Fungational Red entends Artists emerited, for a posticide registered under EPA Reg. No. 87290-1

Three questions about ethofumesate applied postemergence in sugarbeet



- 1. Are these high rates ethofumesate safe to sugarbeet?
- 2. Does ethofumesate control weeds when applied postemerge?
- 3. Does ethofumesate carryover to rotational crops after sugarbeet?
 - Corn
 - Soybean
 - Wheat

Are high rates ethofumesate applied post-emerge safe to sugarbeet?



Trial Location	Ethofumesate (fl oz/A)	Yield (Ton/A)	Sugar (%)	RSA (lbs/A)
Crookston	0	27.7	18.5	9,772
Crookston	128	28	18.5	9,786
Foxhome	0	23	14.4	5,619
Foxhome	128	22.5	14.7	5,605
Lake Lillian	0	35.2	16.8	10,092
Lake Lillian	128	35.3	16.7	10,183

Ethofumesate at 128 fl oz/A averaged across all application timing

Lambsquarters control from Ethofumesate over 2- and 6-lf sugarbeet



Etho Applied	Grand Forks ND	Minto ND	Oslo MN	Moorhead MN	Prosper ND
(fl oz/A)	% visual control				
12 / 12	28 c	40 b	35 b	28 b	15 b
24 / 24	43 b	60 a	40 b	35 b	33 a
32 / 32	53 b	55 a	40 b	50 a	35 a
64 / 64	78 a	63 a	58 a	53 a	33 a

¹Locations receiving 0.75-inch accumulated precipitation, up to 7 DAT; locations receiving 0.75-inch accumulated precipitation up to 14 DAT



Pigweed control from Ethofumesate over 2- and 6-lf sugarbeet



Etho Applied	Minto, ND	Oslo, MN	Prosper, ND	
(fl oz/A)	% visual control			
12 / 12	15 c	35 b	28 c	
24 / 24	20 bc	28 b	40 bc	
32 / 32	25 b	33 b	45 b	
64 / 64	40 a	50 a	75 a	

Locations receiving 0.75-inch accumulated precipitation, up to 7 DAT; locations receiving 0.75-inch accumulated precipitation up to 14 DAT

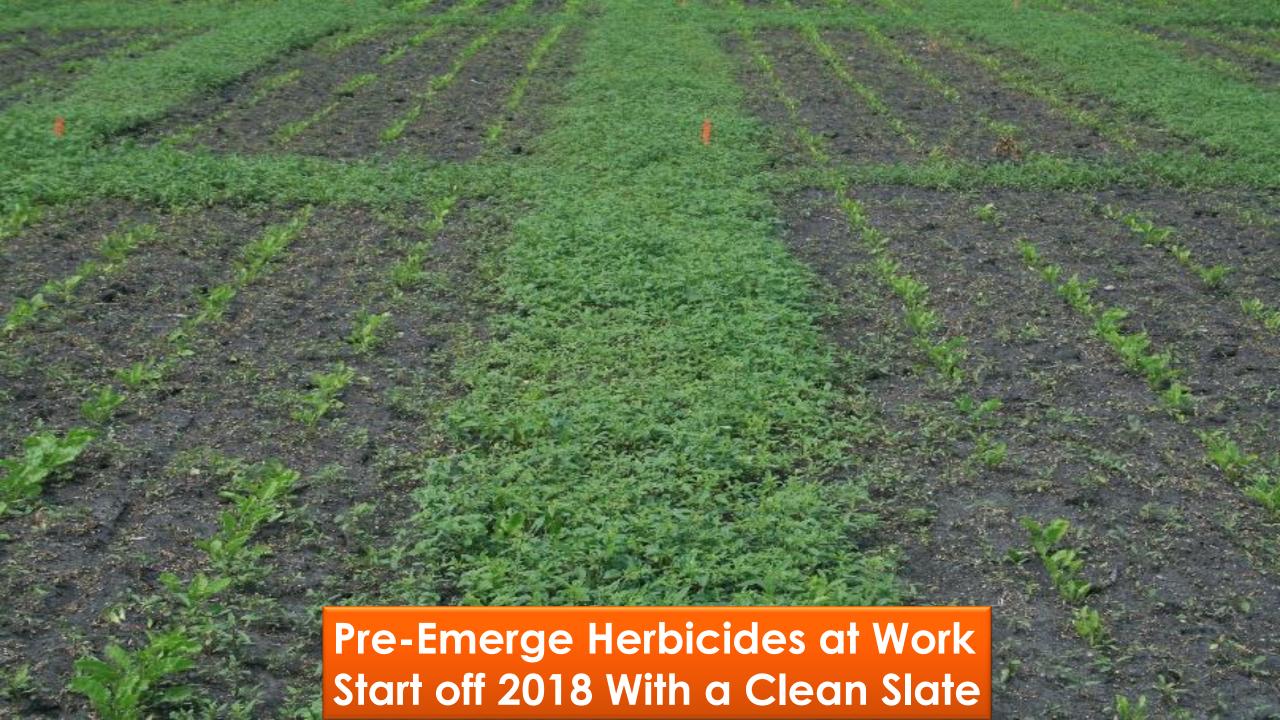


2018 Etho Recommendations...



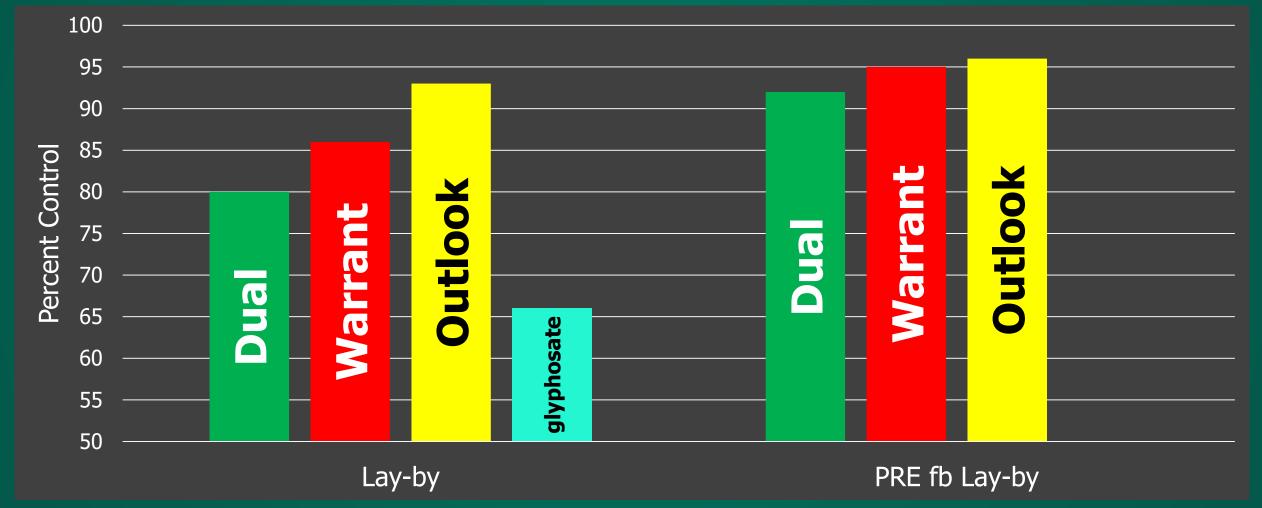
- Ethofumesate PRE and Lay-by
 - Consider using 'other brands' early
 - o Etho PRE (2-3 pt)
 - Use a with a chloracetamide for all lay-bys
- Ethofumesate POST It is not a stand-alone product
 - Etho at 12 fl oz/A plus glyphosate
 - Up to 2-3 applications; 10 day interval between application
 - 45 day PHI
 - Think of it like you would an adjuvant

We need to better understand crop rotation restrictions



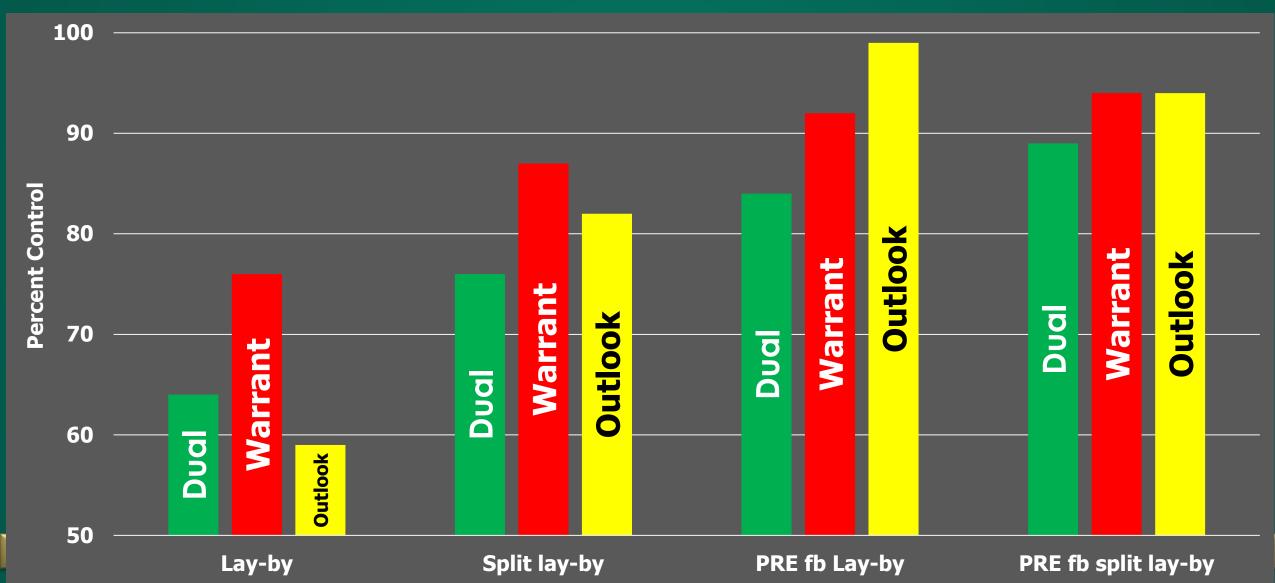
Lay-by vs. PRE+Lay-By...





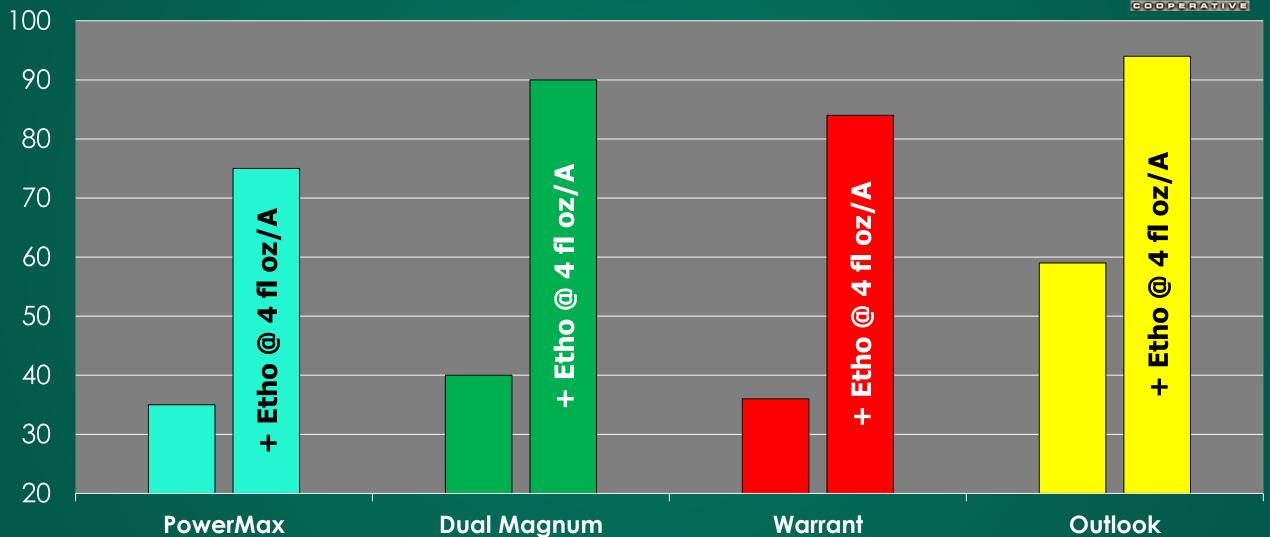
Lay-By vs. Split Lay-By...





Lay-By Application + Ethofumesate









PowerMax + Outlook (48 days after last treatment)

PMax + Ethofumesate + Outlook (48 days after last treatment)

2018 Waterhemp Control Recs...



- Data shows that the best control is achieved by applying Dual and/or ethofumesate PRE followed by a split lay-by application of a chloroacetamide herbicide applied at 2-If sugarbeets fb an application at 4 to 6-If sugarbeets
- Add ethofumesate to all lay-by applications regardless of 'timing'
- There isn't much left for 'rescue' treatments except the cultivator