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Leon J. Wrage
South Dakota State University

Darrell L. Deneke
South Dakota State University

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HERBICIDE CARRYOVER for TREE PLANTING

***Leon J. Wrage, Extension Weed Specialist
Darrell L. Deneke, Extension IPM Program***

Herbicides used in previous years is one of the factors to consider when planting trees in shelterbelts around farmsteads or in other rural areas. Some herbicides have extended residual activity that may damage or kill trees that are transplanted into sites where these products were used.

The type of herbicide, rate, soil texture, soil pH, precipitation, and tree species are all factors that affect carryover. Trees planted into a furrow where the topsoil is moved away from the immediate root zone may escape low carryover levels. Good drainage, adequate rainfall, or watering during drought helps new transplants recover from low level exposure.

Soil samples collected at a six-inch depth can be submitted for laboratory testing for residues of herbicides including atrazine, dicamba, 2,4-D, picloram, and several others; however tests are not routinely available for many new, low rate sulfonyl-urea or imidazolinone herbicides. Tests are costly. Be sure to get a representative sample. Results are difficult to interpret because of limited data available for most species. The guidelines provided herein are suggested when planning tree planting.

The guidelines are based on label restrictions and other data relating to carryover for herbicides with residual properties. Shelterbelt plantings are considered noncrop/nonfood plantings and therefore EPA does not require residue tolerances or label guidelines like those used for other food/feed crops. The intervals suggested are based on established maximum interval for "other crops" to give a known safe interval. Guidelines for some products are based on those for other sensitive crops. Those with no restrictions the following year have no next-year restrictions for sensitive crops; therefore tree planting is considered safe.

Herbicides *WITH* Label Restrictions for Tree Planting

Tree planting intervals are listed for herbicides that have extended residual and therefore have restrictions for certain crops. Suggested intervals for planting trees is given as ***next year, two years*** or ***three years*** after application. Differential tolerance of species within deciduous or conifer categories are not included in the guidelines.

Individual herbicides are listed; some premix products are listed where ingredients are generally available only in the premix. For other premixes, refer to the restrictions for the herbicide product containing the component ingredient.

The rotation intervals listed are intended to provide safe guidelines under a range of conditions. The intervals suggested are influenced by the rate used and soil and weather factors. Plantings made at shorter intervals may be successful under some conditions; however the responsibility for performance is assumed by those making such applications.

	<u>Time after Application^{1/}</u>	
	<u>Deciduous</u>	<u>Conifers</u>
Accent	Next year	Next year
Accent Gold	2 yrs	2 yrs
Ally	3 yrs	3 yrs
Amber	3 yrs	3 yrs
Assert	18 mos	18 mos
Assure II	Next year	Next year
Atrazine	2 yrs	2 yrs
Authority/Spartan	30 mos	30 mos
Banvel (1 pt)	Next year	Next year
Clarity (1 pt)	Next year	Next year
Basis	Next year	Next year
Basis Gold	2 yrs	2 yrs
Beacon	2 yrs	2 yrs
Broadstrike/Dual	2 yrs	2 yrs
Broadstrike/Treflan	2 yrs	2 yrs
Canvas	3 yrs	3 yrs
Classic	2 yrs	2 yrs
Command 4EC	16 mos	16 mos

	<u>Time after Application^{1/}</u>	
	<u>Deciduous</u>	<u>Conifers</u>
Curtail	Next year	Next year
Distinct	Next year	Next year
Dual II	Next year	Next year
Exceed	2 yrs	2 yrs
Fallowmaster	Next year	Next year
Finesse	3 yrs	3 yrs
FirstRate	3 yrs	3 yrs
Flexstar, Reflex	18 mos	18 mos
Hornet	2 yrs	2 yrs
Lightning	40 mos	40 mos
Peak	2 yrs	2 yrs
Pursuit	40 mos	40 mos
Python	2 yrs	2 yrs
Raptor	26 mos	26 mos
Scepter	40 mos	40 mos
Scorpion III	2 yrs	2 yrs
Sencor/Lexone	12 mos	12 mos
Starane/Transline	Next year	Next year
Stinger	Next year	Next year
Surpass, Harness, TopNotch	Next year	Next year
Tordon	3 yrs	3 yrs
Touchdown	35 dys	35 dys
Treflan	Next year	Next year
2,4-D	Next year	Next year

^{1/} Planting interval in months after application or
Next year after application or
2 years after application or
3 years after application

Herbicides *WITHOUT* Label Restrictions for Tree Planting the Following Year

Herbicides listed below do not have soil residues that would pose risk to tree plantings the season following normal use in the previous crop. However, some herbicides listed have short residual activity and may have restrictions that would limit planting the same season the herbicide was used. Labeling may include restrictions concerning additional risk as the result of special weather, soil conditions, or application errors. High rates or late fall application may require restrictions for herbicides having residual properties.

Herbicides in this list may be useful when planning the weed control program in crops where trees are to be planted the next season. Some may be used in site preparation. Refer to labels.

Aim	Express	Poast
Assure II	Frontier	Poast Plus
Banvel	Fusilade	Prowl
Basagran	Fusion	Ramrod
Bladex	Glyphosate Products	Resource
Blazer	Gramoxone Extra	Roundup Ultra
Brominal	Harmony Extra	Select
Clarity	Liberty	Status
Cobra	MCPA	Sutan
Cyclone	Option II	2,4-D
Eptam	Permit	Touchdown
Eradicane	Pinnacle	

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