

# RURAL SERVICES

The Advisory Service for Weed & Pest Control in Forestry & Amenity

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## Weed & Pest Control in Trees & Amenity Sites

### Amendments - July 2016

#### Introduction

When Weed & Pest Control was published in 2007, when many of the changes to pesticides were anticipated and included in the publication which remained largely up to date for many years. However, following the increased rigour introduced as a result of the 2009 EC regulation, the pace of change has accelerated dramatically - particularly during 2015 and 2016. As a result, the following notes provide an update on these changes in advance of a planned revised publication in 2017.

Note that the following comments relate to UK approvals - there may be some differences in Ireland.

The amendments are provided in two sections:

Section 1. Summary by product relating to forestry, Christmas tree and amenity use.

Section 2. Detailed changes by page number.

#### Section 1. Summary by product.

##### 1a. Herbicides

<u>Herbicide</u>	<u>Typical Product</u>	<u>Trees / Amenity Amendment</u>	<u>Trees / Amenity Replacement</u>
amitrol	Weedazol & Aminotriazol Technical	Withdrawn	-
asulam	Asulox	Bracken only	-
		Emergency approval	-
2,4-D+dicamba+triclopyr	Broadsword, Nu-shot	Approval lapsed	-
clopyralid	Dow Shield	Reformulated x2 strength	Vivendi (CT)
dichlobenil	Casoron G	Withdrawn	-
fluazifop-p-butyl	Fusilade Max	No knapsack use	Laser (F,CT)
fluroxypyr	Starane 2 & Tomahawk	Withdrawn	Starane XL (CT)
glyphosate	Roundup Pro Biactive	Replaced	Roundup Proactive (All)
MCPA	Agritox & Agroxone	No knapsack use	2,4-D (CT, FW,AG)
mecoprop-P	Compitox	Approval lapsed	-
paraquat	Gramoxone W	Withdrawn	Finale/Kaspar/Shark
picloram	Tordon 50	Withdrawn	-
picloram+2,4-D	Tordon 101	Withdrawn	-
propaquizafop	Falcon	Approval lapsed	Laser (F/CT)
oxadiazon	Ronstar Liquid	Withdrawn	-
triclopyr	Timbrel & Garlon 4	Withdrawn	-

F = Forestry. CT = Christmas Trees, AG = Amenity Grassland

##### 1b. Herbicide additions since publication in 2007

<u>Herbicide</u>	<u>Typical Product</u>	<u>Approval</u>	<u>Use</u>
carfentrazone ethyl	Shark	EAMU	Dessicant in farm forestry & Christmas trees

##### Insecticides

<u>Insecticide</u>	<u>Typical Product</u>	<u>Amendment</u>	<u>Replacement</u>
bifenthrin	Talstar	Withdrawn	Hallmark
chlorpyrifos	Spannit / Dursban	Withdrawn	Gazelle / Calypso
deltamethrin	Decis & Decis Protech	No knapsack use	Hallmark
fenpyroximate	Sequel	Withdrawn	Dynamec / Envidor
pyrimicarb	Aphox	Approval lapsed	Hallmark / Calypso
tebufenpyrad	Masai	Approval lapsed	Dynamec / Envidor

### 1c. Insecticide additions since publication in 2007

<u>Insecticide</u>	<u>Typical Product</u>	<u>Approval</u>	<u>Use</u>
flumioxazin	Mainman & Teppeki	EAMU	Aphids in Christmas Trees
spirotetramat	Movento	EAMU	Aphids in Christmas Trees
thiacloprid	Calypso	EAMU	Aphids in Christmas Trees

### Section 2. Detailed changes by page number.

#### 2.1 The Basics

- Page 1. Offlabel SOLA's now renamed EAMU's (Extension of Use for Minor Uses)
- Page 2. i. The statutory box has been removed on most labels  
ii. Hazard warning symbols have changed from the European system to the Global system. As a result the Maltese Cross has been replaced by two new symbols.
- Page 6. The "Grandfather Rights" for those born before 31/12/84 have been withdrawn. All spray operators need to have the appropriate certificate irrespective of age.
- Page 9. i. The Maltese Cross symbol has been replaced by two Torso symbols.  
ii. Many changes to PPE requirements - check the current labels  
iii. The following herbicide approvals have changed:  
amitrol - withdrawn                      asulox - emergency approval only  
dichlobenil - withdrawn                  fluroxypyr - no "tree" approvals  
MCPA - no hand held use                  mecoprop-P - no "tree" approvals  
oxadiazon - withdrawn                    picloram - withdrawn  
propaquizafop - no tree approvals      triclopyr - withdrawn
- Page 10. i. Many changes to PPE requirements - check the current labels.  
ii. The following insecticide approvals have changed:  
bifenthrin - withdrawn                    chlorpyrifos - withdrawn  
dimethoate - withdrawn                  fenpyroximate - withdrawn  
pirimicarb - no "tree" approvals        tebufenpyrad - no "tree" approvals  
prochloraz - withdrawn                  warfarin - withdrawn  
naphthyl acetic acid - revoked
- Page 11. Dichlobenil has been withdrawn
- Page 12. Dichlobenil, picloram and triclopyr have been withdrawn
- Page 13. Dimethoate, fenpyroximate and prochloraz have been withdrawn.
- Page 15. Dow is in advanced discussions over a merger with Dupont  
Headland is now owned by FMC  
Mahkteshim has been renamed Adama.  
Scotts became Everiss, and now ICL.  
Syngenta is now Chinese owned.  
Many products mentioned have been withdrawn or no longer have "tree" approval.
- Page 16. Contest & Agritox Dry have been withdrawn. Products such Gazelle SG, Eagle and other sulfonuryl urea herbicides are formulated as Water Dispersible Granules.  
Casoron G has been withdrawn.
- Page 18. Dichlobenil & triclopyr have been withdrawn.
- Page 20. Paraquat and dichlobenil (Casoron G) have been withdrawn.
- Page 22. Triclopyr is no longer available other than in mixtures.  
Fluroxypyr and propaquizafop no longer have approvals in trees.

#### 2.2 Herbicides

- Page 33. Amitrol, picloram, dichlobenil, oxadiazon & triclopyr are no longer available
- Page 34. Amitrol has been withdrawn
- Page 35. Asulam has an Emergency Approval for the control of bracken only. Knapsack use severely restricted and no offlabel use in Christmas trees.
- Page 37. 2,4-D aquatic use has been withdrawn.
- Page 38. 2,4-D + picloram has been withdrawn.  
2,4-D+dicamba+triclopyr now available as Broadshot with no "tree" approvals
- Page 39. Dicamba now available under the trade name of

- Page 40. Dichlobenil has been withdrawn
- Page 42. Fluazifop-p-butyl may no longer be applied by hand held equipment  
Previous fluroxypyr farm woodland & Christmas tree offlabel approvals (Starane 2 & Tomahawk) have been withdrawn, but Starane XL may be used in Christmas trees.
- Page 43. Glyphosate (biactive). Roundup Pro Biactive has been withdrawn & replaced by Roundup ProActive.
- Page 44. Isoxaben has been reformulated & sold as Flexidor (no 125) & is 4x strength.
- Page 45. MCPA may no longer be applied by hand held equipment  
Mecoprop-P no longer has offlabel approval in farm woodland or Christmas trees
- Page 46. Metazachor rate reduced from 2.5l/ha to 1.5l/ha & use restricted to 1 year in 3.
- Page 47. Oxadiazon has been withdrawn.
- Page 48. Pendimethalin also available as preferred formulation Stomp Aqua.  
Picloram has been withdrawn.
- Page 49. Propaquizafop no longer has any approvals in trees. Use Laser instead.  
Triclopyr is now only available in mixtures, none of which have approvals in trees.
- Page 52. All these products have been revoked and withdrawn.
- Page 53. All these products have been revoked and withdrawn.
- Page 54. Fluazifop P butyl may not be applied by hand held equipment  
Falcon has no longer approval in trees.  
Dichlobenil has been withdrawn.
- Page 56. Dichlobenil & oxadiazon have been withdrawn
- Page 57. Dichlobenil, oxadiazon and paraquat/diquate have been withdrawn  
Previous fluroxypyr farm woodland & Christmas tree offlabel approvals (Starane 2 & Tomahawk) have been withdrawn, but Starane XL may be used in Christmas trees.
- Page 58. Asulam may no longer be used for dock control  
2,4-D+dicamba+triclopyr & fluroxypyr no longer have approval for use around trees.  
Dichlobenil has been withdrawn.

### 2.3 Weeds

- Page 59. **Bindweed.** Picloram & picloram+2,4-D have been withdrawn. MCPA - no hand held use.  
**Bracken.** Asulam available under Emergency Approval. Knapsack use restricted.  
Dichlobenil & picloram have been withdrawn.
- Page 60. **Buttercup.** MCPA - Knapsack use prohibited. Picloram & picloram + 2,4-D revoked.  
**Clover.** Mecoprop-P offlabel approvals in trees have been withdrawn.  
Picloram & picloram + 2,4-D have been revoked.  
Nu-shot & Broadsword replaced by Broadshot with grassland approvals only.
- Page 61. **Dandelion.** MCPA - Knapsack use prohibited. Picloram & picloram + 2,4-D revoked.  
Previous fluroxypyr farm woodland & Christmas tree offlabel approvals (Starane 2 & Tomahawk) have been withdrawn, but Starane XL may be used in Christmas trees.  
**Dock.** MCPA - Knapsack use prohibited. Picloram & picloram + 2,4-D revoked.  
Previous fluroxypyr farm woodland & Christmas tree offlabel approvals (Starane 2 & Tomahawk) have been withdrawn, but Starane XL may be used in Christmas trees.  
Dichlobenil has been withdrawn. Asulox has emergency approval for bracken only.  
Mecoprop-P offlabel approvals in trees have been withdrawn.
- Page 62. **Hawkweed, Hawkbit.** Knapsack use prohibited. Picloram & picloram + 2,4-D revoked.  
Previous fluroxypyr farm woodland & Christmas tree offlabel approvals (Starane 2 & Tomahawk) have been withdrawn, but Starane XL may be used in Christmas trees.  
Nu-shot & Broadsword replaced by Broadshot with grassland approvals only.  
Mecoprop-P offlabel approvals in trees have been withdrawn.  
**Himalayan Balsam.** 2,4-D found to be largely ineffective.
- Page 63. **Hogweed.** Picloram has been revoked.  
Flurasulam (Boxer), imidosulfuron (Eagle) and metsulfuron methyl (Jubilee SX) all have offlabel approvals in Christmas Trees and all provide useful control.  
**Giant Hogweed.** Picloram (Tordon) and triclopyr (Timbrel) have been withdrawn.
- Page 64. Limited control from 2,4-D. Amitrole and dichlobenil have been withdrawn.  
**Japanese Knotweed.** Nu-shot & Broadsword replaced by Broadshot with grassland approvals only. Picloram has been withdrawn.

- Page 65. **Nettle.** Picloram & picloram + 2,4-D have been revoked. MCPA - Knapsack use prohibited. Triclopyr (Timbrel) has been withdrawn.  
Nu-shot & Broadsword replaced by Broadshot with grassland approvals only.  
Previous fluroxypyr farm woodland & Christmas tree offlabel approvals (Starane 2 & Tomahawk) have been withdrawn, but Starane XL may be used in Christmas trees.  
**Plantains.** Picloram & picloram + 2,4-D have been revoked. MCPA - Knapsack use prohibited. Nu-shot & Broadsword replaced by Broadshot with grassland approvals only.  
Dichlobenil has been withdrawn.
- Page 66. **Ragwort.** Picloram & picloram + 2,4-D have been revoked. MCPA - Knapsack use prohibited. Nu-shot & Broadsword replaced by Broadshot with grassland approvals only.  
Dichlobenil has been withdrawn. Mecoprop-P offlabel approvals in trees have been withdrawn. Dichlobenil has been withdrawn.
- Page 67. **Thistles.** Picloram & picloram + 2,4-D have been revoked. MCPA - Knapsack use prohibited. Nu-shot & Broadsword replaced by Broadshot with grassland approvals only.  
Dichlobenil has been withdrawn. Mecoprop-P offlabel approvals in trees have been withdrawn. Dichlobenil has been withdrawn. Clopyralid - Vivendi also has approval for use in Christmas trees.
- Page 68-73. **Scrub Control.** Currently only glyphosate has approval for use on scrub around trees.  
Timbrel has been withdrawn & 2,4-D+triclopyr+dicamba is now restricted to grassland, so no products containing triclopyr have approvals around trees.

#### 2.4 Insecticides, Fungicides, Growth Regulators and Rodenticides

- Page 74. All organophosphorus insecticides (chlorpyrifos & dimethoate) have been withdrawn.  
The synthetic pyrethroid insecticide bifenthrin and the acaricides fenpyroximate (Sequel) has been withdrawn, and tebufenpyrad (Masai) no longer has offlabel approval in trees.
- Page 75. Bifenthrin has been withdrawn
- Page 76. No post planting approvals for alpha-cypermethrin. Use as a nursery applied treatment only.
- Page 77. Chlorpyrifos has been withdrawn.
- Page 78. Deltamethrin may no longer be applied by knapsack sprayers
- Page 79. Dimethoate has been withdrawn.
- Page 80. Fenpyroximate (Sequel) has been withdrawn.
- Page 81. Pirimicarb (Aphox) no longer has offlabel use in Christmas trees.
- Page 82. Tebufenpyrad (Masai) no longer has approval for mite control in Christmas trees
- Page 83. Prochloraz - withdrawn  
Tebuconazol - be careful. Use for rust control in Nordmann Fir as resulted in needle damage.  
Urea now classified as a "Basic Substance".
- Page 84. Warfarin Grey Squirrel Bait has been withdrawn.
- Page 85. Tipoff has been withdrawn. Offlabel approvals for ethoxyfen (Cerone) and NAA (Fixor) provide alternatives for leader control in Nordmann Fir Christmas trees.

#### 2.5 Forestry & Christmas Trees.

- Page 87. Dichlobenil (Casoran) & paraquat (Gramoxone) have been withdrawn.  
Propaquizafop (Falcon - wrongly named Laser) no longer has approval in trees.
- Page 88. Dichlobenil (Casoran) & triclopyr (Timbrel) have been withdrawn. Asulam has Emergency Approval for bracken only. Dicamba+2,4-D+triclopyr (Broadshot) now has grassland approvals only.
- Page 89. Table 29. Fluzifop-P butyl (Fusilade Max) currently may be used (2016) in Christmas Trees and Farm Woodlands under the Long Term Arrangements which are being discontinued.  
Knapsack use prohibited.  
Propaquizafop (Falcon) no longer has approval in trees.  
Table 30. Oxadiazon (Ronstar) has been withdrawn.
- Page 90. Table 31. Asulox approved under Emergency Approval for bracken only.  
Dicamba + mecoprop-P. All dicamba based products currently may be used (2016) around trees under the Long Term Arrangements which are being discontinued.  
Table 32. MCPA may no longer be applied by hand held equipment.  
Mecoprop-P no longer has approval in trees.

Fluroxypyr has no approval in farm woodlands.

2,4-D+dicamba+triclopyr (Broadshot) no longer has approval in trees.

Page 92. Dichlobenil (Casoron) & triclopyr (Timbrel) have been discontinued.

Page 93. Isoxaben (Flexidor 125) now reformulated as 4x strength (500g/l) Flexidor.

Clopyralid (Dow Shield) now reformulated as double strength - rates now 250 - 375ml/ha.

Page 94. Amitrole (Weedazol) and paraquat (Gramoxone) have been withdrawn.

Page 95. Asulam (Asulox) - no approval for docks.

2,4-D (Depitox) and propaquizafop (Falcon)- approval withdrawn for this use.

Paraquat (Gramoxone) has been withdrawn.

Page 96. Alpha-cypermethrin (Contest) has been withdrawn. Alternatives for the control of Hylbius include acetamiprid (Gazelle SG), and imidacloprid (Merit Forest - pre planting only).

Page 97. Asulam (Asulox) - Emergency Approval excludes Christmas trees.

Oxadiazon (Ronstar & triclopyr (Timbrel) have been withdrawn.

Page 98. Asulam (Asulox) not approved in Christmas trees under the Emergency Approval.

## 2.6 Insect Pests

Page 99. **Aphids.** Decis can no longer be applied by knapsack sprayers. Use lambda cyhalothrin (Hallmark).

**Conifer Spinning Mite.** Tebufenpyrad (Masai) no longer approved in Christmas trees.

Use abamectin (Dynamec), spiroticlofen (Envidor) or a sulphur programme.

Page 100. **Sawfly & aphids.** Decis & Decis Protech can no longer be applied by knapsack sprayers. Use lambda cyhalothrin Hallmark).

**Rust Mite.** Tebufenpyrad (Masai) no longer approved in Christmas trees. Fenpyroximate (Sequel) has been withdrawn. Use abamectin (Dynamec), spiroticlofen (Envidor) or a sulphur programme.

Page 101. **Balsam Woolly Aphid.** Decis & Decis Protech can no longer be applied by knapsack sprayers. Use lambda cyhalothrin (Hallmark). Dimethoate (Danedim) has been withdrawn.

## 2.7 Amenity

Page 102. **Amenity Vegetation Residual Herbicides.** Dichlobenil (Casoron) & oxadiazon (Ronstar) have been withdrawn.

Page 103. **Public Access.** Dichlobenil, paraquat and triclopyr have all been withdrawn.

Page 104. Roundup Biactive has been replaced by products such as Roundup ProActive  
Dichlobenil has been withdrawn.

Page 105. **Amenity Grassland.** MCPA & mecoprop-P may no longer be applied through hand held equipment.

Page 106. **Aquatic Weed Control.** Approval for 2,4-D (Depitox) has been withdrawn. Dichlobenil (Casoron) has been withdrawn.

Page 107. **Total Weed Control.** Now called "Land Not Intended for Cultivation".

Amitrole (Aminotriazol Technical), asulam (Asulox), 2,4-D + piclorame (Tordon 101), picloram (Tordon) and triclopyr (Timbrel) have all either been withdrawn or this approval revoked. Flazasulfuron (Chikara) has approval for this use.