TEAGASC GRASSLAND WEED CONTROL GUIDE 2015



Docks

Best control of docks will be achieved in good growing conditions when docks are actively growing and nutrients are actively being transported to new foliage and roots.

If seed stalks are seen on the plant or if the dock has diseased leaves or is under pest attack it is better to cut/top or graze and allow re-growth of the docks before applying chemical. Do not apply chemicals in a period of drought as the chemical will not be taken up by the plant leaves in sufficient quantities.

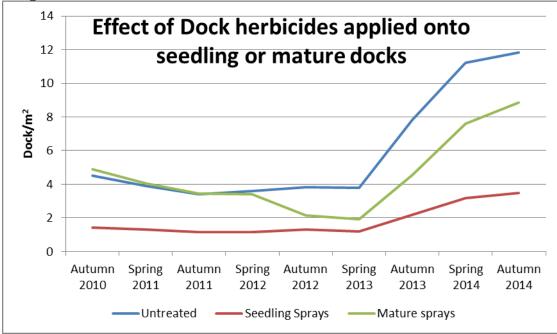
Use the highest water rates on the manufacturer's label for best effects.

Allow adequate time between spraying and cutting silage for the herbicide to work.

Season Long Dock Control

- Use of herbicides based on aminopyralid, dicamba, triclopyr, fluroxypyr, etc., will give season long control plus a wide range of common grassland weeds.
- Where clover is of consequence Eagle or Prospect may be applied. These products do not harm clover but Prospect may have some effect on the constituent grasses in the sward. These are best applied in good growth conditions and will give season long control. Eagle has label clearance for dock control on grassland, at the 40-60 g/ha rate, 60 g/ha being the full recommended rate for docks. The higher rate should be used where the infestation is high or the docks have a well-established tap root.

Recent Teagasc trials have shown that longer term (up to 4 years) control of docks can be achieved by applying a suitable herbicide (e.g. Starane2 @1.5 I/ha) onto small docks shortly after re-seeding. By applying the herbicide at this stage of the docks development, facilitates almost complete elimination of the docks. The trials have also shown that docks that emerge in the following years rarely establish due to competition from the grass.



Teagasc Dock trials 2010-2015

Prepared by Tim O' Donovan, Teagasc Kildalton College, Summer 2015



Herbicides for Dock Control in Established Grassland

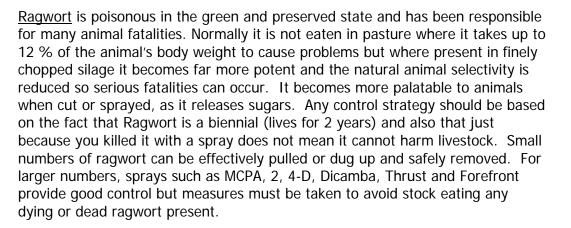
Products	Chemical	Rate/Ha	Comment
Eagle	Amidosulfuron	40-60 g	Controls both broad leaf and curled docks. No
	75%		effect on clover. Should not be used in very dry
			weather. Costs €36 to €54/ha
Asulox	Asulam	N/A	PCS have confirmed that Asulam will be
			cleared for bracken control in 2015 under
			emergency use rules.
Prospect	Thifensulfuron-	15g sachet	Does not affect Clover but may retard grass growth
	Methyl		in certain conditions. Allow 7 days after application
E (L T	Talatanan		of Prospect before cutting or grazing. Price €29/ha
Forefront T	Triclopyr	2.0 L	Apply at rosette stage. Also controls a wide range of
	Aminopyralid		weeds incl. thistles, nettles, ragwort etc. €75/ha.
			Should be applied on grazing ground only.
Doxstar Pro	Triclopyr +	2.0 L <u>or</u>	Good spectrum of weeds. Apply four weeks pre-
	Fluroxypyr	1.0 x 2 apps.	cutting silage. Affects Clover. Good suppression at
		(300-400 L	reduced rate. Costing €32/ha at half rate, two
		water)	applications of half rate, spring and autumn more
			practical.
PastorPro	Triclopyr +	3.0-4.0 L	Pastor also contains clopyralid. It is recommended
	Fluroxypyr +	(300-400 L	at 3L/ha for nettles and 4L/ha for Docks and
	Clopyralid	water	thistles. Costs €88/ha at the 4L/ha rate for docks.
Starane2	Fluroxypyr	2.0 L	Controls Dandelions, Nettles and established
& various			Docks.
			Cost €25+/ha at 2 L rate
Foundation	Dicamba +	1.25 L	Controls broadleaf and curled Docks, Chickweed,
Hiload Mircam	CMPP-P		thistles and Nettles etc.
Hygrass		5.0 L	Price range €30 +/ha
		Hygrass	
Lupo	2,4-D + MCPA	4.0 L	Controls Ragwort, Rushes, Thistle, Buttercup,
			Nettle, and a broad range of weeds with
			suppression of broadleaf and curled Docks €30/Ha
Thrust	Dicamba +	3.5 L	Includes high rate of Dicamba and 2,4-D. Excellent
	2,4-D		control of Ragwort, broadleaf and curled Docks and
			a wide range of weeds incl. Buttercup,Nettle,
Defense south of a 1/4			Thistle etc €55/ha

Prices exclude VAT and are a guide only

Other Grassland Weeds

It is difficult to assess accurately the damage weeds do to pasture output except where death is the result of plant poisoning from bracken, ragwort or hemlock. Other weeds such as thistles, nettles, rushes and dandelions can also interfere with grass and animal production and should be eliminated as soon as possible.

<u>Bracken</u> is poisonous in the green state and the young green shoots are particularly so. Over the years many herbicides have been used on this weed but Asulox* or Roundup are the most effective. The optimum time of application is end of June to mid-July when the expanded fronds are tender and actively growing.



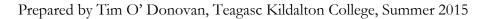
<u>Hemlock</u> is one of the most poisonous grassland weeds. Its poisonous alkaloid is coniine and is very virulent while also being dangerous to man and animals. It can be controlled with fluroxypyr or Aminopyralid or any of the dicamba based sprays.

<u>Creeping Thistle</u> is a perennial plant and grows mainly from an underground stem or rhizome and this makes total control difficult with one spray. Yield losses of up to 15% have been recorded but they cause most damage by preventing animals grazing around them. Frequent topping can reduce the root reserves but will seldom eradicate the problem as root fragments can lay viable and dormant for years. This weed is best sprayed with Thisltlex, Forefront, MCPA or 2, 4-D in June before flowering and may need a second treatment later in the season to control any late shooting thistles. In a reseed, both root fragments and seed can cause an explosion of creeping thistles.

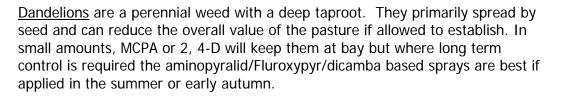
<u>Spear Thistle</u> only spreads by seed. Each plant lives for 2 years (like ragwort) producing a flatted rosette of leaves in year one and then the familiar 'tree-like' structure in year two. Once controlled in the re-seed, it is rarely a problem in grazed fields except after poaching or other sward damage. Topping is not effective to control the growth in year one but can be carried out on the second year growth before seed is set. Chemical control options are the same as for Creeping Thistle.

<u>Perennial nettle</u> tends to grow in clumps in pasture and can prevent grazing. The growth pattern of this weed makes it an ideal target for spot treatment with some of the dicamba/triclopyr/Fluroxypyr/aminopyralid based products. If the clumps are small and not too dense some of the dicamba /CMPP based products will also contain them if sprayed on a regular basis. High water volumes (400 l/ha) are essential when spot treating. Treat before seed production for best effects.

<u>Soft rush</u> is the most common of the many rush species in this country. Draining of such infested areas is essential if any herbicide programme is to be successful. Soft rush can be controlled with MCPA or 2, 4-D applied in June or July when growth conditions are good. Cutting and removal of the rush about three weeks before spraying will give the best results. A wetting agent can improve the spray sticking to the slender rush 'target'.







<u>Common chickweed</u> is an annual weed (lives for one year) and only spreads by seed. However, it can germinate and set seed throughout the year making it seem a perennial weed (lives for many years). It is a low ground hugging weed and its fast growth allows it to become established especially after re-seeding. It has been shown to reduce silage yields and quality in trials. The key to its effective management is to get the grass sward established rapidly to smother out the chickweed (and other annuals). Late sown and poorly established reseeds are likely to have chickweed problems. In old pastures there are many excellent chemical options available but the 'holes' left after killing the chickweed are ideal for more seeds to germinate, continuing the problem. Fluroxypyr/CMPP/Dicamba/Aminopyralid offer very good control but dense patches may need a second spray due to coverage issues.

Weed	Herbicide	Dose	Remarks
Ragwort	2,4-D	3.3 L/ha	Keep stock off until all
	MCPA	3.3 L/ha	ragwort is decayed and
	Lupo	4.0 L/ha	animals cant graze it
	Thrust	3.5 L/ha	
	Forefront/Forefront T	2.0 L/ha	
Thistles	MCPA	3.3 L/ha	Apply in warm weather.
	Lupo	4.0 L/ha	
	Pastor	4.0 L/ha	Apply when thistles at 25cm
	Thistlex	1.0 L/ha	tall or across.
	Forefront	2.0 L/ha	
Nettles	Nettle Ban etc.	2.0 to 3.0 L/ha	Spray in good conditions.
	Fluroxypyr (Starane)	2.0 L/ha	Use 400 I/ha water.
	Forefront/Forefront T	2.0 L/ha	
Rushes & Buttercups	MCPA or 2,4-D	1.0 to 7.0 L/ha	Cut and remove rushes
	Lupo	4.0 L/ha	before spraying re-growth.
			An adjuvant will improve
			control of rushes.

Table 31: Herbicides for Grassland Weeds

Note on Forefront & its use on grassland:

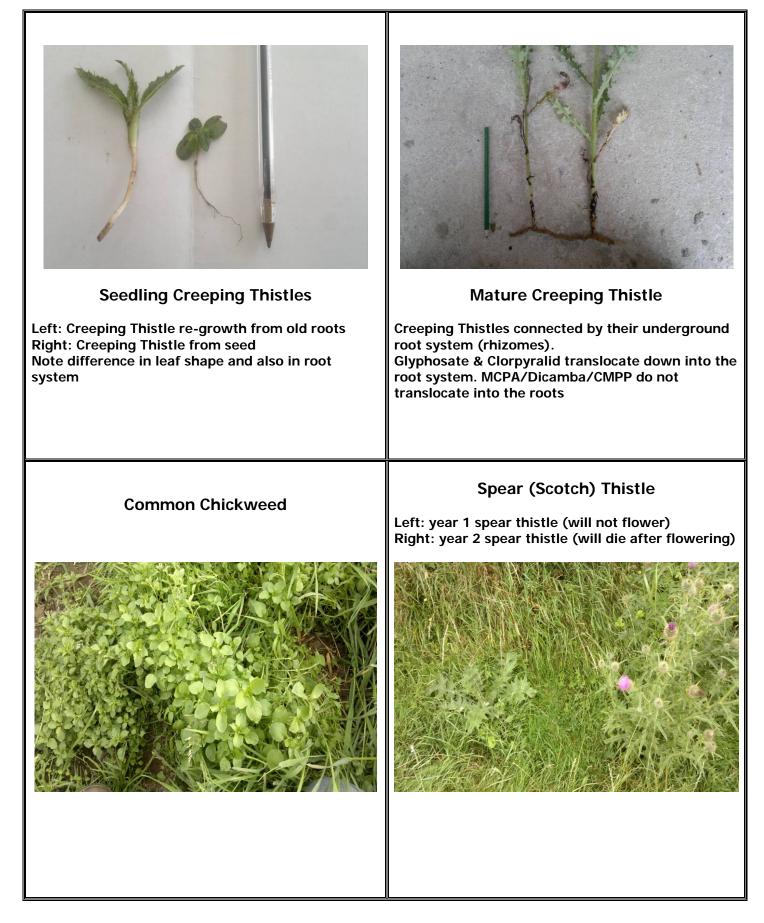
Whelehan Crop Protection is recommending the use of Forefront in grazing ground only. A farmer leaflet is attached to the collar of all Forefront cans

FYM and slurry from livestock fed silage/hay made from treated grass (sprayed with aminopyralid) should only be spread on land intended for grass, cereals or maize.



Common Grassland Weeds





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