

Beet Crops

Technical Update 01

5 April 2017

UPL Europe Ltd, Annual Broad-leaved Weed (ABLW) Sugar Beet Trials – Suffolk 2017

This spring has been relatively easy for the establishment of the UPL sugar beet trials with all trials drilled and pre-emergence sprays applied, and even some beet poking through on 1st April – seriously, see Photo 1! At present, very few weeds have emerged, only some black-bindweed and volunteer oilseed rape, so first sprays will be delayed until we get further weed emergence.

Table 1. Details of Sugar Beet Trials 2017 – Suffolk (1st April 2017)

Location	Drilling Date	Crop Growth Stage	Pre-em
Mendlesham 1	28.03.17	Not emerged	30.03.17
Mendlesham 2	24.03.17	Not emerged	28.03.17
Yaxley	16.03.17	Cotyledon	25.03.17

Table 1. gives a summary of the sites for this season. The 'Mendlesham 2' site is back to a field we used in 2013 so we are expecting lots of polygonums to put in an appearance. The site has a new owner so a big thank-you to 'Bungle' for letting us have a trial, and also a thank you to our two other host farmers Ian and Richard. This season we have included some pre-emergence treatments; it will be interesting to assess their performance in an ABLW situation. Dewar Crop Protection (DCP) will again be carrying out all of our herbicide trials under the leadership of Dr Alan Dewar, who is already feeling the pressure of working with me, see Photo 2 – I cannot think why?



Photo 1. Sugar Beet Emerging 01.04.17



Photo 2. Dr Alan Dewar (left), Lisa and Andrew

Table 2. / Fig 1. Average % Agrochemical Spend 2017 in Sugar Beet

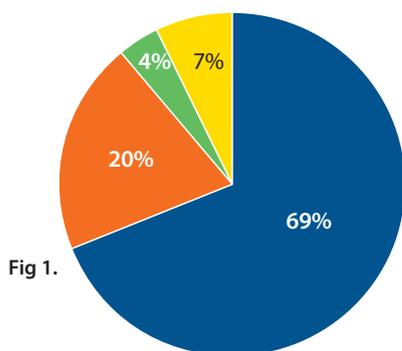


Fig 1.

	£/ha	%
Herbicides	162	69
Fungicides	46	20
Insecticides	10	4
Other	16	7

Table 2.

Source: John Nix Farm Management Pocketbook 2017

The John Nix Farm Management Pocketbook figures for average % agrochemical spend in sugar beet for 2017 has changed very little from that quoted in 2016 – only increasing by £2/ha. (Table 2. / Fig.1.)

The figures highlight how important it is to look at herbicide costs as they do make up around 69% of the total % agrochemical spend in beet crops. In black-grass situations costs can exceed £200/ha.

There has also been little change in the actives that are currently available for use in beet crops to control ABLWs, see Table 3 (below). Note that tri-allate ² at present does not have approval for use in beet crops. Chloridazon ³ can only be used pre-emergence unless it is in Fiesta T (quinmerac + chloridazon) which has a post-emergence approval. Lenacil ¹ as in Venzar Flowable (MAPP 06907) can only be used in fodder beet post-emergence with an EAMU. The Venzar Flowable (MAPP 17743) will not be marketed this season.

Table 3. shows how the actives are classified according to the Herbicide Resistance Action Committee (HRAC). The classification of ethofumesate (EFFECT) as belonging to group N indicates how important this active is with respect to black-grass control and resistance management.

Table 3. Herbicide Actives for Use in Beet Crops – to be used in conjunction with notes above.

Active (s)	Example Product	Residual	Contact	Pre	Post	HRAC
ethofumesate	Efectt	✓	✓	✓	✓	N
lenacil	Venzar Flowable	✓		✓	✓ ¹	C1
metamitron	Bettix Flo	✓	✓	✓	✓	C1
phenmedipham	Betasana SC		✓		✓	C1
triflusalufuron-methyl	Shiro		✓		✓	B
desmedipham	As in Beetup Compact		✓		✓	C1
clopyralid	Vivendi 200		✓		✓	O
quinmerac	As in Fiesta T	✓		✓		O
tri-allate ²	Avadex Excel 15G	✓		✓		N
chloridazon	Pyramin DF	✓		✓	✓ ³	C1

The Crop Definitions List for Plant Protection Products (PPP) with Reference to Beet Crops

The Crop Definitions List replaces the Crop Hierarchy. It provides consistent terminology for the uses given in Plant Protection Products (PPP). It fully defines the specific crops and situations covered by each term so that users can understand precisely the crops/situations that can be treated under that authorisation. Table 4. shows how fodder beet and sugar beet are classified.

Table 4. The Crop Definitions List: Fodder Beet and Sugar Beet Classification

Primary group	Basic Crop or Situation	Definition
Agricultural herbage and fodder crops	Mangel	Varieties of beta vulgaris composed largely of hypocotyl which are used as fodder.
	Fodder beet	Hybrids between sugar beet and mangels used as fodder.
Sugar plants	Sugar beet	Varieties of beta vulgaris composed largely of taproot and used for sugar production.

Source: www.secure.pesticides.gov.uk/pestreg

- For a plant protection product to be used on fodder beet it must have an authorisation, either a full label approval or an EAMU. Some **but not all** plant protection products that are authorised for use on sugar beet will have an approval for fodder beet.
- A plant protection product that is authorised for use on sugar beet can be used on 'energy beet'.
- Remember to check for harvesting and grazing intervals when using herbicides on fodder beet crops in particular.
- **Don't forget clethodim currently does not have approval for use in fodder beet.**



Photo 3. Sugar beet plots at Yaxley



Photo 4. Black Bindweed 01.04.17



Photo 5. Volunteer OSR 01.04.17

Shiro, a New Product from UPL Europe Ltd for Spring 2017

This spring sees the introduction of **SHIRO** (500g/L of triflusaluron-methyl) to the UPL sugar beet herbicide range. Tested for two years in UK Technical trials and extensively in Development and Regulatory trials, **SHIRO** has proved comparable to other triflusaluron-methyl products that are available for post-emergence use in sugar beet and fodder beet crops. A 'Fact Sheet' for **SHIRO** and a comprehensive tank mix list are available at www.uplsugarbeet.co.uk.

SHIRO has useful activity on brassicas such as; volunteer OSR and charlock, foos parsley and cleavers, and is also an important component of the two-spray 'Broadacre' programme.

SHIRO is a water dispersible granule (WDG) that comes in a 120g pack and has a maximum individual dose of 30g/ha.



Betasana Trio – Useful Information

BETASANA TRIO contains ethofumesate (115g/L), desmedipham (15g/L) and phenmedipham (75g/L) it is formulated as a suspension concentrate (SC) and comes in 5 litre packs. **BETASANA TRIO** is approved for use on sugar beet, fodder beet and mangels. UPL Europe Ltd supports a large range of tank mixes with **BETASANA TRIO**, further information on these can be obtained from the dedicated beet website www.uplsugarbeet.co.uk where a 'Best Use Guide' for **BETASANA TRIO** can be located. Also on this website you will find information on other UPL beet products.

BETASANA TRIO is an alternative option to other products such as Betanal maxxPro. Table 5. provides UPL Europe Ltd's supported rates for **BETASANA TRIO** compared to Betanal maxxPro, and also shows the amount of active being applied at the given rate/ha.



Table 5. Betasana Trio Rates Compared to Betanal maxxPro

Product Name	Rate/ha	Active applied/ha at given rate				
		phen	des	phen + des	etho	lenacil
Betasana Trio	1.0	75	15	90	115	—
Betanal maxxPro	0.75	45	35	80	56	20
Betasana Trio	1.25	94	19	113	143	—
Betanal maxxPro	1.0	60	47	107	75	27
Betasana Trio	1.5	112	22	134	172	—
Betanal maxxPro	1.25	75	58	133	94	34
Betasana Trio	2.0	150	30	180	230	—
Betanal maxxPro	1.50	90	70	160	112	40

BASIS points for the technical information provided by this series of updates are CP/51900/1617/g. To claim them email assistant@basis-reg.co.uk.

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