

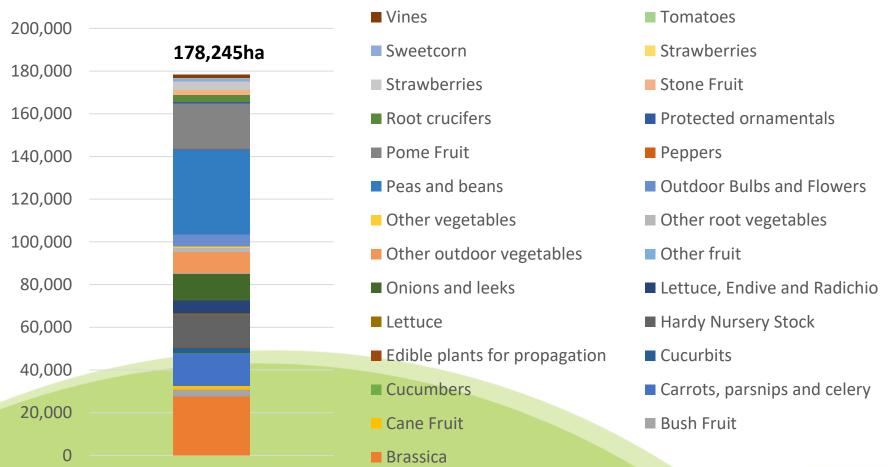
What are the future options for weed control?

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### **UK horticulture market**



#### Total area of horticultural market

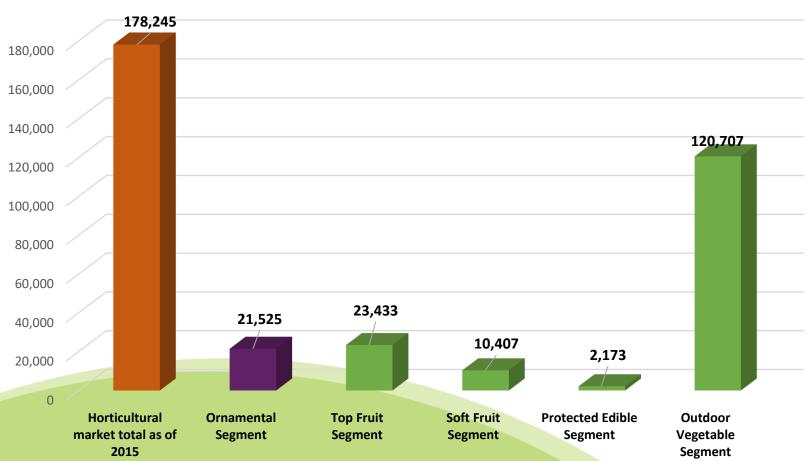




### Market segments



### Horticultural market - total ha





### **Diversity of cropping**



Crop	Crop group	Area,ha	Total area
Outdoor bulbs and flowers	Outdoor bulbs	4875	5408
Outdoor bulbs and flowers	Flowers and foliage plants	533	
Hardy nursery stock	Ornamental trees	1,745	4,906
Hardy nursery stock	Shrubs	395	
Hardy nursery stock	Herbaceous plants	367	
Hardy nursery stock	Mixed cropping	1,120	
Hardy nursery stock (protected)	Ornamental plants in propagation	159	
Hardy nursery stock	Fruit stock	120	
Hardy nursery stock (protected)	Hardy ornamental nursery stock	1,000	
Hardy nursery stock	Christmas trees	10,000	10,000
Hardy nursery stock	Roses	321	626
Hardy nursery stock (protected)	Roses (protected)	295	
Hardy nursery stock (protected)	Roses in propagation	10	
Protected ornamentals	Chrysanthemums for cutting	56	585
Protected ornamentals	Pinks and carnations	2	
Protected ornamentals	Alstroemeria	12	
Protected ornamentals	Other flowers and foliage	172	
Protected ornamentals	Pot chrysanthemums	11	
Protected ornamentals	Other pot plants	173	
Protected ornamentals	Ornamental plants in propagation	159	





### Loss of chemistry



- Impact of loss of Casoron G, Ramrod Flowable, Ronstar Liquid, Simazine, Linuron and Diuron
- Future losses (Stomp, Flexidor, Venzar?)
- Restrictions on use (Butisan, Dual Gold, Kerb)
- LTAEU (not fully transferred into EAMUs Jubilee SX)
- Severe limitations (Sencorex, Wing-P, Gamit 36, Goltix)



### Weed control key considerations



- Whole business commitment
- Staff awareness and training
- Nursery hygiene
- Management of background pressure and non-cropped areas
- Stock control and management of aged stock
- Regular hand weeding what is regular?
- Use of all weed control means physical and chemical options
- Robust herbicide programme
- Strict approach to herbicides applications, timings, dose rates etc.





### Cost/ha for hand weeding

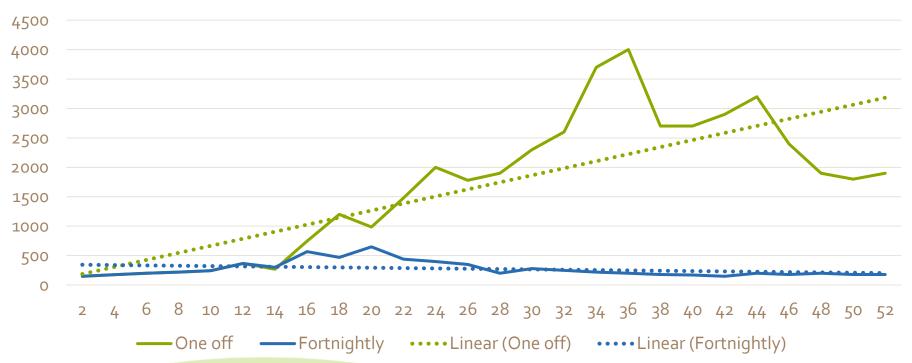




### Weed control key considerations









# Use of all weed control means – physical and chemical options



- Cost implications
- USD \$1.4B
- Practicality and time commitment
- All biodegradable?
- Procurement issues
- Machinery and infrastructure required





### **Cover crops**



- Significant multiple benefits soil health and fertility, nitrogen enrichment, moisture control and many others
- Good management required!





## **Hot foam**







### Flame weeding machine PTRB







### High pressure water







### **Electrical weeder**







### Laser weeding







### Summary



- No 'one size fits all'
- Weed control is a combination of all that's available
- Making a small step now will help a bigger leap later
- Involvement with manufacturers and being on the look out for available funding options
- Adopting technology comes in all shapes and forms
- Major revision of current infrastructure and land management needed
- Labour is still important, even if technology is adopted
- No EXCUSES such as 'I'M BUSY'







# Zestainable ICM