

## Winter Wild Oats

John Pawsey

# Focusing the mind on costs

- Keeping rogueing cost under control
- Average annual cost of £34/ha
- Cropped 920 hectares
- Annual rogueing cost of £31,280
- Reliability
- Timing
- Bought in cost





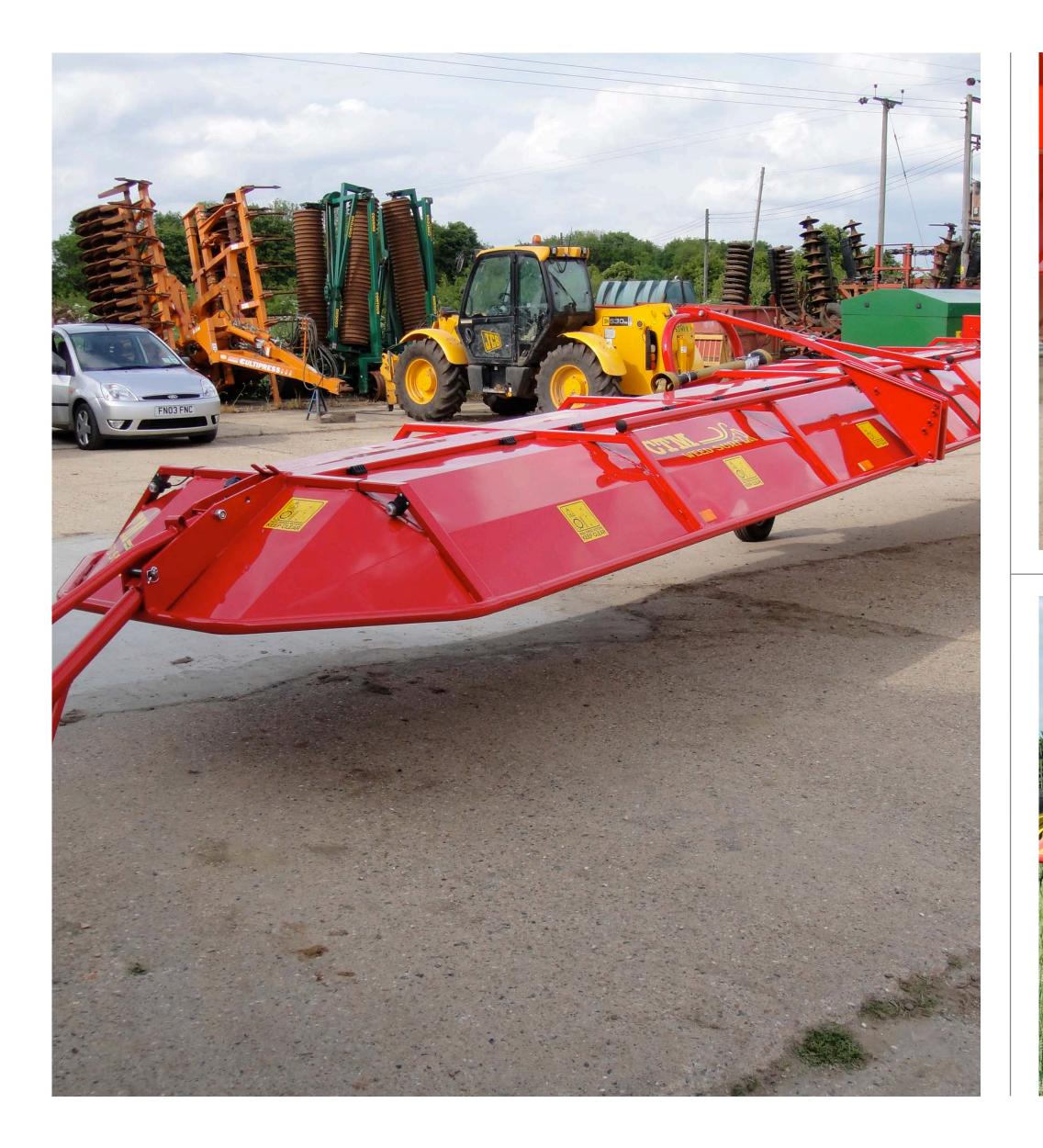
- Inter-row hoe good on small plants in the row but leaves plants in cropped row
- Seedbed must be fine and level
- In practice our seedbeds are too un-level and in bad infestations oats in the cropped row still have to be rogued



• Harrow comb - only effective if the oats are at 1 to 2 leaf stage

Crop is invariably not established enough take the comb

• Blind weeding could be an option



### 2008 - CTM Weed Surfer Demonstration



# Expectations and concerns

- Cut oats are left in the field
- Viability of cut oat seeds 10 days from flowering
- 2 samples taken 1 taken at start of flowering and a 2nd 2 weeks later
- Regrowth from cut oats
- Work rates





Tests requested rr :

Tetrazolium

Shimpling Park Farr Shimpling Bury St. Edmunds Suffolk IP29 4HY	n			
Date Received :	18/09/2008		Labtest Samp	
Sample Description	: Oats Wild Oat		Customer Re	
Test	Result			
Tetrazolium	100 % sec	100 % seeds viable by tetrazolium		

100% seeds viable on LATE wild oat sample Nil% seeds viable on EARLY wild oat sample

David Alston (Suffolk) Ltd

Please note that the glumes of the early wild oats did not contain a fully formed fertile caryopsis.

 Samples screened before testing to eliminate small seeds and other materials which would normally be removed during cleaning.

The results given above refer to analyses performed on the material received. Their relationship to the composition of the original bulk will depend on the sampling procedure employed.

For further information contact: 01223 342243 (Seed Testing), 01223 342248 (Pathology) or 01223 233258 (Biochemistry)

#### Date Reported : 18/09/2008

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## FINAL REPORT.

ple No : 81991 eference : No Reference Supplied

Specification / Technique used Documented OSTS method based on 2 ISTA rules.

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(ISO 9001:2000) ISO 9001:2010 Centified CLO and Director: Photosont Wayne Powell BNe MNe Phil DNe Nite Director and Company Secretary Dr. Fing t Barsto



Mr J Pawsey David Alston (Suffolk) Ltd The Estate Office Shimpling Park Farm Shimpling Bury St. Edmunds		ts requested azolium	rr :
Suffolk IP29 4HY			
Date Received : 23/07/2	2009		Labtest Sam
Sample Description : Oats W	'ild Oat		Customer R
Test	Result		
Tetrazolium	36~% seeds viab	ole by tetrazol	ium

Sample 2 results -36% seeds viable on Sample 2 6% non-viable 58% immature with no fully formed fortile caryopsis.

Sample 1 results -NiP5 seeds viable on Sample 1 Glomes did not contain a fally formed fertile caryopsis.

2. Samples screened before testing to eliminate small seeds and other materials which would normally be removed during cleaning.

The results given above refer to analyses performed on the material received. Their relationship to the composition of the original balk will depend on the sampling procedure employed. For further information contact: 01223 342243 (Seed Testing), 01223 342248 (Pathology) or 01223 233258 (Biochemistry)

#### Date Reported : 20/08/2009

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### FINAL REPORT.

nple No : 86740 teference : No Reference Supplied.

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(ISO 9001:2000) ISO 9001 2000 Certified CLO and Director Protessor Wayne Powell RSC Vise FID 1056 Site Director and Company Spectary, Dr. Tata L Daraby

## Results so far

- Average work rate = 3.44 ha/hr at a current cost of £10/ha
- Regrowth is season dependent
- Seed viability is season dependent
- Skimming crops = disease!
- Opening crop allows it to reach yield potential
- Flowering and field dynamics
- Back or front of tractor?



## Developments

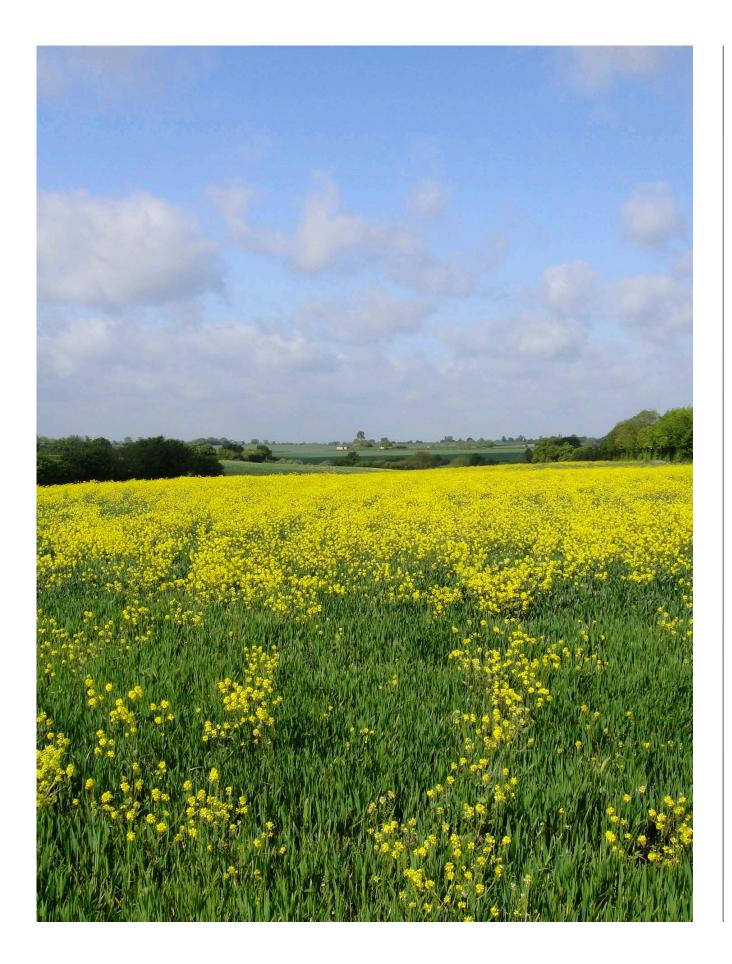


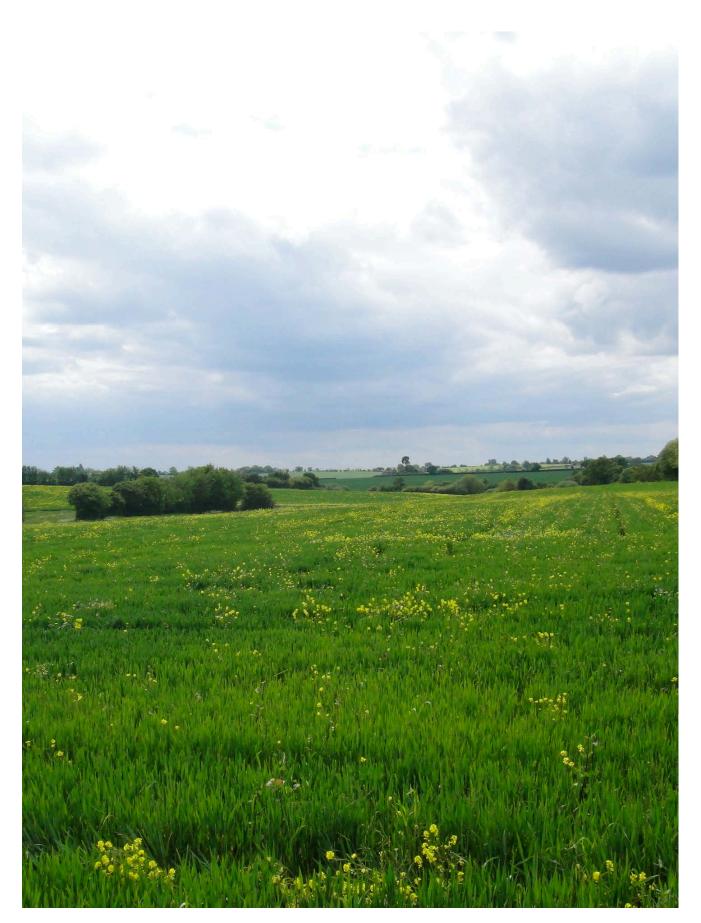
- Hydraulic wheels
- Wheels or tine for narrow rows
- Hydraulically driven
- Addressing instability front pivot?

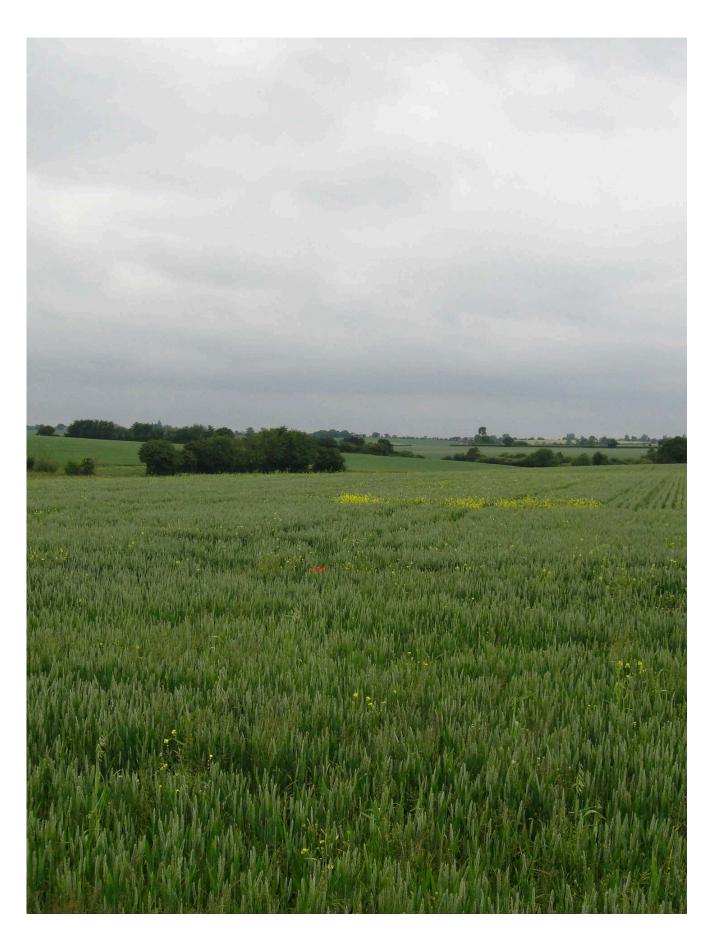




Other crops? Charlock, thistles, docks, blackgrass.....







# Conclusions

- Need to have capacity to get across infested area in less that 1 week
- Need to check oaty fields daily
- Avoid skimming crop heads
- Surfing is a fire engine treatment
- Rogueable fields should still be rogued
- Is an oat population OK if the crop can reach yield potential?





# Thank you

## John Pawsey