



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



David Alston (Suffolk) Ltd
 Shimpling Park Farm
 Shimpling
 Bury St. Edmunds
 Suffolk
 IP29 4HY

Tests requested - rr :
 Tetrazolium

Date Received : 18/09/2008
 Sample Description : Oats Wild Oat

Labtest Sample No : 81991
 Customer Reference : No Reference Supplied

Test	Result	Specification / Technique used
Tetrazolium	100 % seeds viable by tetrazolium	Documented OSTS method based on ISTA rules. 2

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

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



Mr J Pawsey
 David Alston (Suffolk) Ltd
 The Estate Office
 Shimpling Park Farm
 Shimpling
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 IP29 4HY

Tests requested re :
 Tetrazolium

Date Received : 11/07/2009
 Sample Description : Oats Wild Oat

Labtest Sample No : 86740
 Customer Reference : No Reference Supplied

Test	Result	Specification / Technique used
Tetrazolium	36 % seeds viable by tetrazolium	Documented OSTS method based on ISTA rules.

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

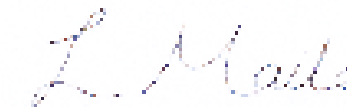
Sample 1 results -
 Nil% seeds viable on Sample 1
 Glumes did not contain a fully formed fertile caryopsis.

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 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 : 20/08/2009



(ISO 9001:2000)
 ISO 9001:2000 Certified

CEO and Director, Process Quality Control
 NIAB Food Quality Research
 Site Director and Company Secretary, Dr. Tina L. Baxby

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 than 1 week
- Need to check oat 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