



Thriplow Trials

2019-2020

Agromony Connection trials with Thriplow Farms

Project 1. Timing of glyphosate around drilling – blackgrass

Project 2. Phosphorus Liberator trial

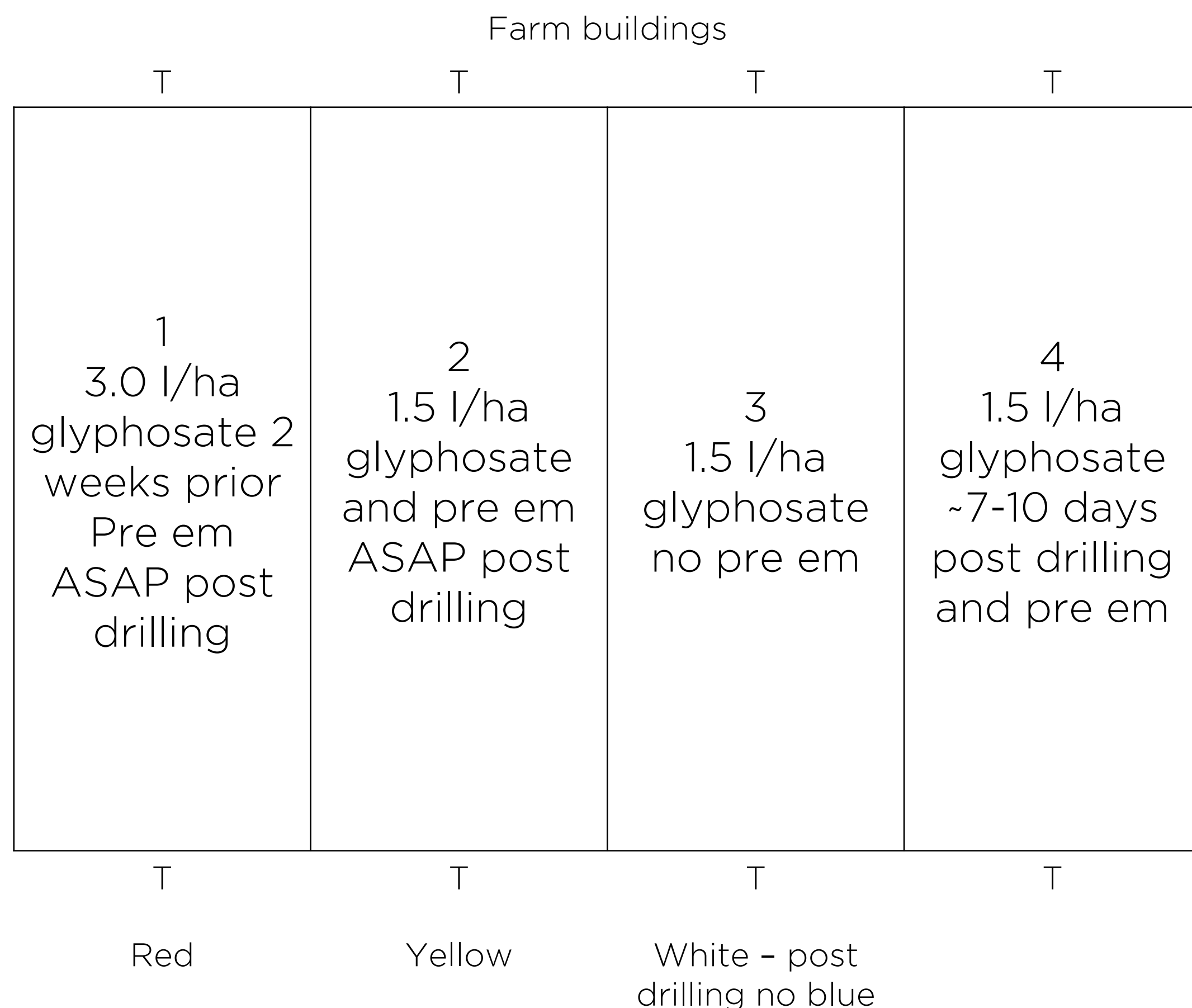
Project 3. Spring oat trial

Project 4. Thriplow Farms trials 2020/2021

Timing of glyphosate around drilling – blackgrass

Site plan and treatment details

Field HC8



+	23 rd September	16 th October	22 nd October
1	Liaison 3.0 l/ha	Pre-em herbicide	-
2	-	Liaison 1.5l/ha +Pre-em herbicide	-
3	-	1.5l/ha Liaison NIL pre-em herbicide	-
4	-	Liaison+Pre-em herbicide	

- cv KWS Siskin 187kg direct drilled (JD750a) on 14th October
- Pre-em = Trooper 4.0 + Quidam 2.0 + Sempra XL 0.2 on 16th or 22nd Oct
- *Trt 3 was sprayed off on 14th May*

Summary results



	23 rd September	16 th October	16th October	23 rd October	Visual control blackgrass 31 st October	Crop tiller count 6 th February	Crop ear count 25 th June	Blackgrass heads 21 st May
1	Liaison 3.0 l/ha	-	Pre-em herbicide	-	100%	722 /m ²	548 /m ²	26 /m ²
2	-	Liaison 1.5 l/ha	Pre-em herbicide	-	90%	602 /m ²	494 /m ²	62 /m ²
3	-	Liaison 1.5l/ha	Nil	-	75%	501 /m ²	-	270 /m ²
4	-	-		Pre-em herbicide Liaison 1.5 l/ha	75%	501 /m ²	524 /m ²	23 /m ²

Phosphorus Liberator

Summary results

Phosphorus Liberator strip trial - Thriplow

Base P (autumn)	Phosphorus Liberator	Plants/m row 17 th Dec	Tillers/m ² 6 th Feb	Ears/m ² 25 th June	Yield T/Ha 22 nd July
NIL	NIL	47	541	503	7.68
NIL	5 l/ha / 5l/ha	58	842	551	7.74
NIL	10 l/ha / Nil	52	903	510	7.52
YES	NIL	41	600	531	7.76
YES	5 l/ha / 5l/ha	33	722	549	7.38
YES	10 l/ha / Nil	37	600	559	7.34

Assessments have shown a positive increases in tillers/m²
Large response, even in absence of applied P

Seasonal factors have potentially limited the yield response

Other RD sites, on calcareous soils have good yield responses

Great indicator to carry on RD and relate dose to timing.

New RD should be directed to 20l/ha in the autumn or spring

Winter Wheat cv KWS Siskin 187kg/ha drilled on 14th October 2019:
7-20-20 at 280l/ha (20kg N + 56kg P + 67kg K) applied pre-drilling on 2nd October

Autumn Phosphorus Liberator applied pre-emergence on 16th October 2019:
Spring Phosphorus Liberator applied on 19th March 2020

Spring oat trial

Spring oats treatment results

Field Neaves. Spring oat seed treatment

Can seed treatment increase yield and grain weight, thereby increasing yield and enhancing quality?

Farm treatment (different variety and different seed treatment) yielded 4.42 t/ha with spec weight of 48

	Ear count/m ²	Spec weight	Yield t/ha
Ellison Vibrance Duo	277	49.9	4.65
Ellison Vibrance Duo + Voltek + Tiros	289	50	4.57

- Early indications are that seed treatments can influence ear count and increase grain weight
- In a different season (non- drought) the increase in ear count from Voltek + Tiros could also result in higher yields.
- Other RD sites have shown that Voltek + Tiros has positive activity in other spring crops.
- Development work should continue in 2021 with Voltex + Tiros.

Drill date 13/03/20

Final ear counts 30/06/20

WOSR nutrition trial (spring applied)

- Once the crop is established nutrient trial L-CBF
Boost with nitrogen applications in spring

WW seed treatment

- Extase Voltek bio + Tiros treated seed
- Seed treatment versus farm standard.
- Monitor autumn growth and spring growth.
- Nutrient applications on the spring

Flowering strips in fields

- Using the existing cover crops established on the farm. 100M apart
- David has agreed to do one field.

Aberace

- HC1 drilled 1 ha 23/07/20 crop will be Spring OATS – establishing a living mulch
- 26/08/20, no emergence
- Aberace HC2 drilled 4 ha 23/07/20 crop is winter wheat - establishing a living mulch.
- 26/08/20- clover emerging. Lots of volunteer OSR

30m replicated tramline trials

- Winter wheat 20L P-Liberator
- Winter wheat 20L P-Liberator + 10L LCBF
- Winter wheat 10L LCBF
- Winter bean 20L P-Liberator

Large scale small plot work to be decided