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Rothamsted Long-term Experiments Farm Diary and Yields of the Classical and Other Long-term Experiments Weather Summaries 2023



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2023/R/RS/9 Acid Strip (Hoosfield)

Rothamsted Research

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2023/R/RS/9 ACID STRIP (Hoosfield)

Object: Effects of soil acidity on soil properties under winter wheat. This a narrow strip of land at the northern edge of Hoosfield, Rothamsted with a soil pH ranging from 3.7 to 7.8 (at 0-23 cm depth) due to uneven applications of chalk in the 19th Century (1850). Spring barley was grown continuously for over 100 years. It is now sown to winter wheat each year, given only 100 kg N/ha. The wheat starts to die out about halfway along the plot, when the pH is below 5.5. This area has been used to study the relationship between soil pH, and microbial ecology and nutrient dynamics.

FARM DIARY

Date	Application	Rate	Unit
11/10/2022	Drilled: Winter Wheat (Zyatt) using Accord Combination Drill No. 4 with JD6830	350	seeds/m ²
13/10/2022	Sprayed: Pontos using Knight 24m Sprayer with NH T6030	1	L/ha
13/10/2022	Sprayed: Velomax using Knight 24m Sprayer with NH T6030	0.4	L/ha
10/11/2022	Spraying: Hallmark with Zeon Technology using Knight 24m Sprayer with NH T6030	50	mL/ha
05/04/2023	Sprayed: Orius P using Agribuggy2 AB30	1	L/ha
05/04/2023	Sprayed: Moddus using Agribuggy2 AB30	0.15	L/ha
05/04/2023	Sprayed: Stefes CCC using Agribuggy2 AB30	1.25	L/ha
30/04/2023	Sprayed: Presite SX using Agribuggy2 AB30	60	g/ha
30/04/2023	Sprayed: Lentyma XE using Agribuggy2 AB30	0.8	L/ha
30/04/2023	Sprayed: Arizona using Agribuggy2 AB30	1.5	L/ha
10/05/2023	Applied: Yara Bela Extran using Cascade spreader with JD6830	299	kg/ha
23/05/2023	Sprayed: Lentyma XE using Agribuggy2 AB30	0.9	L/ha
23/05/2023	Sprayed: Hurler using Agribuggy2 AB30	0.75	L/ha
10/06/2023	Sprayed: Oraso Pro using Agribuggy2 AB30	0.85	L/ha
11/09/2023	Harvest (Combine) using Wintersteiger Plot Combine	-	-
04/10/2023	Sprayed: Pontos using Agribuggy2 AB30	1	L/ha
04/10/2023	Sprayed: Velomax using Agribuggy2 AB30	0.4	L/ha