

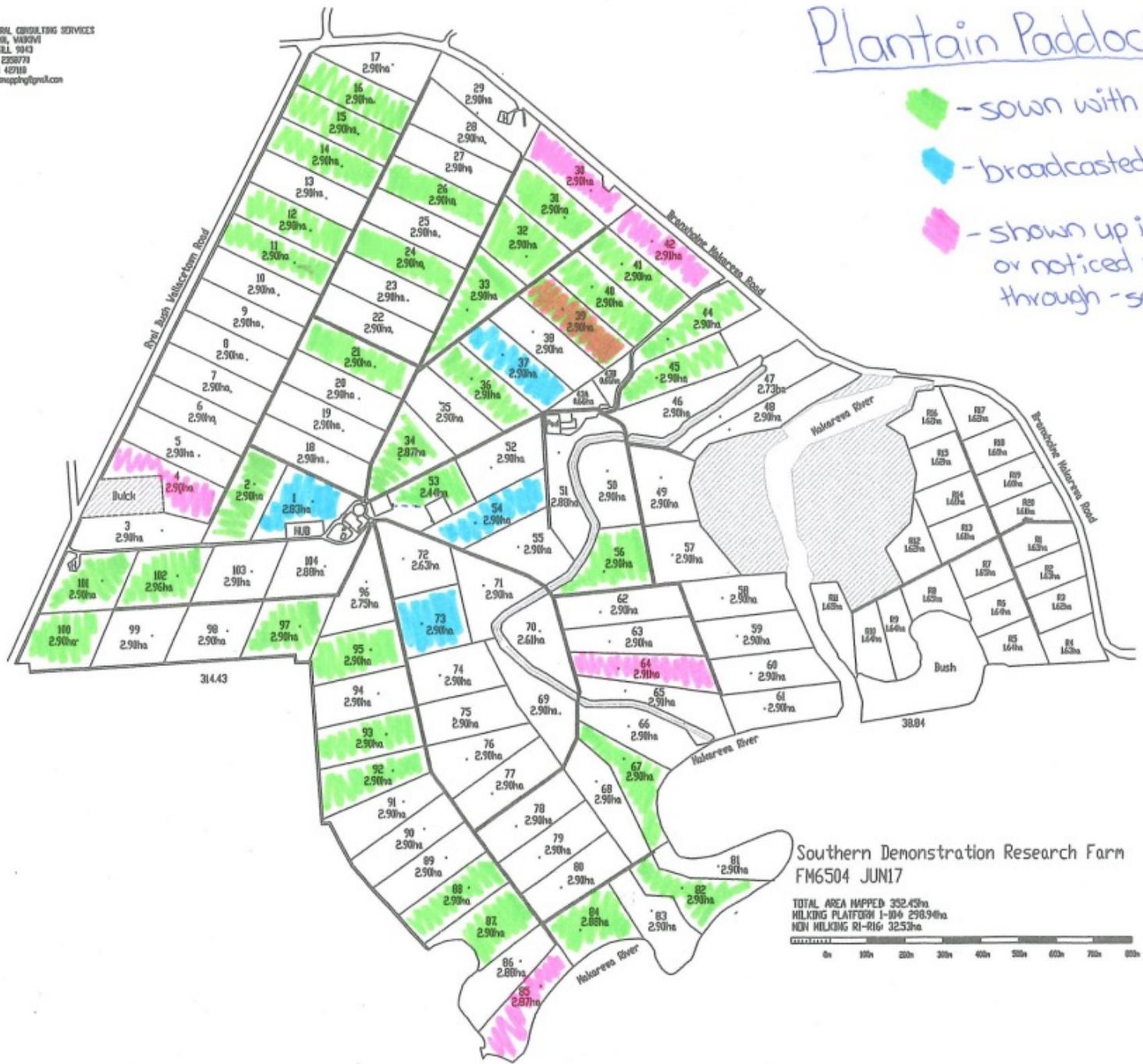
SDH Plantain Journey to date

- Purpose: environmental benefit and demonstrate learnings to Southland region
- 32 paddocks have been sown with plantain in new pasture in Autumn & Spring 23
 - Pasture mix = Ecotain 4kg, Legacy 4kg, Klondike 3kg, Excess AR37 20 kg
- 6 paddocks broadcast with Ecotain 5th December 23
- Excellent success in some new pasture paddocks

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Plantain Paddocks

- - sown with plantain
- - broadcasted 5/12/23
- - shown up in botanicals or noticed while walking through - self broadcasted



Southern Demonstration Research Farm
 FM6504 JUN17

TOTAL AREA MAPPED 332.43ha
 MILKING PLATFORM 1-104 250.94ha
 NEW MILKING RI-16 32.53ha

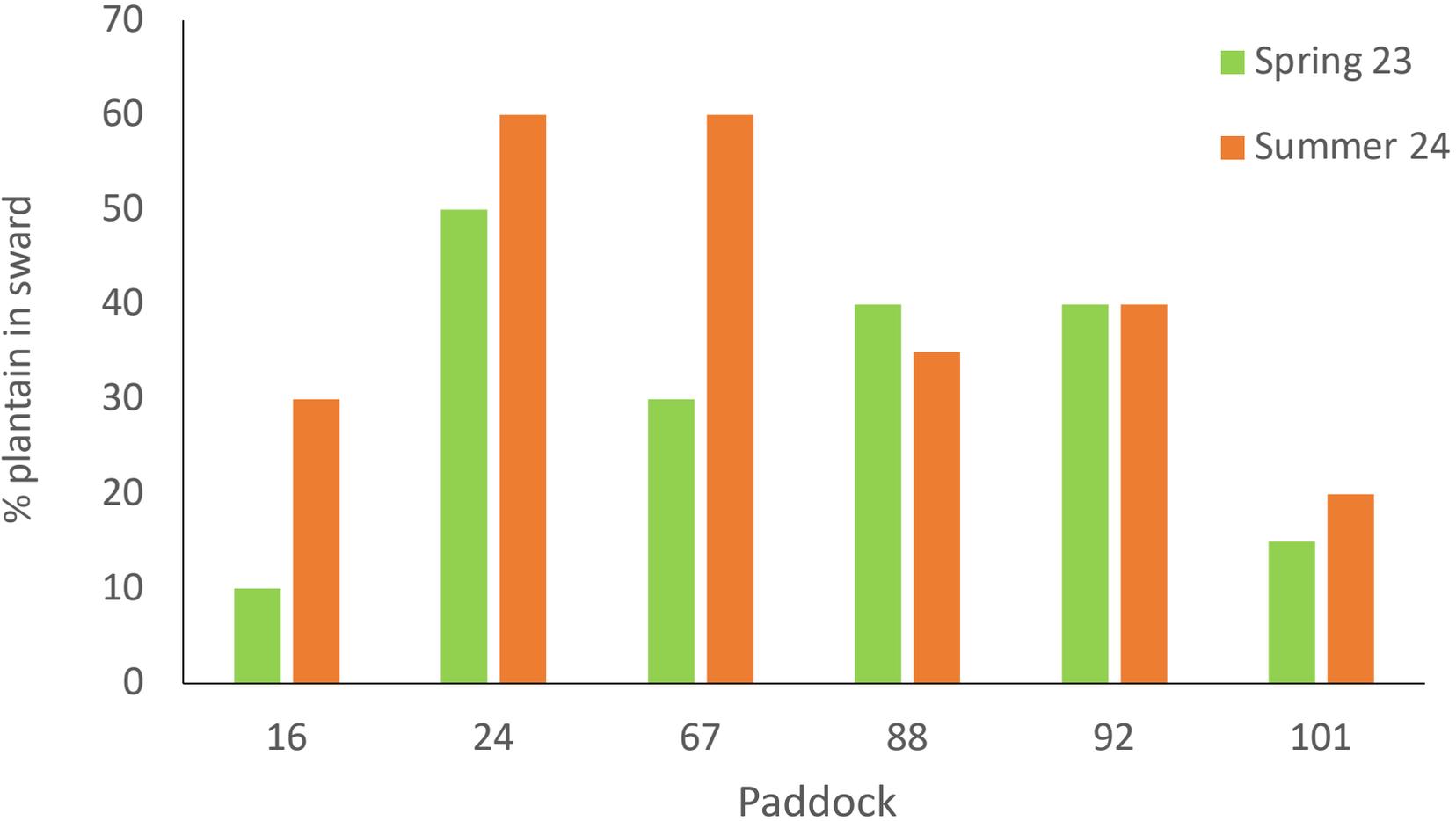


Comparisons at SDH

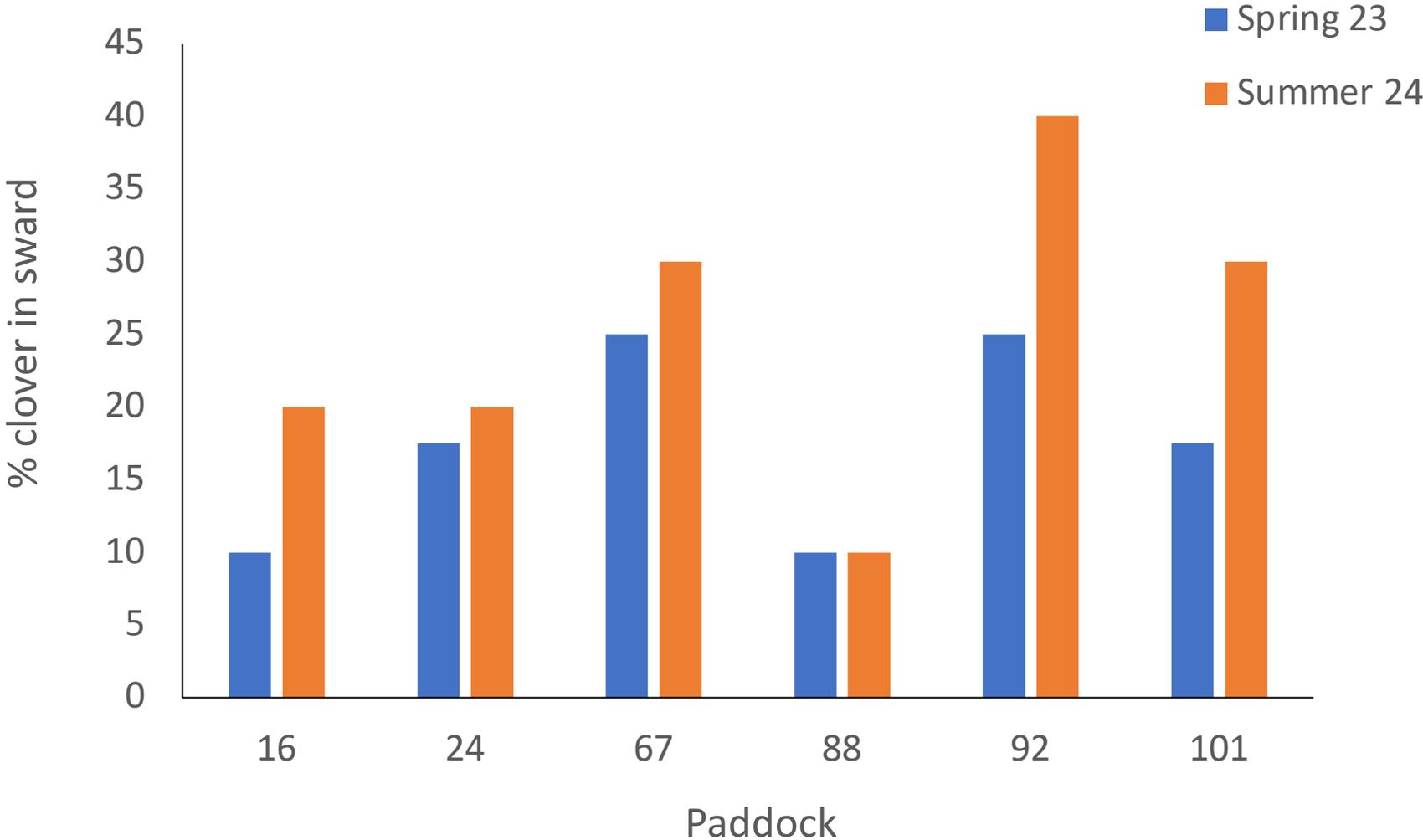
- Ecotain sown in new pasture vs. broadcasting
- Spring vs. Autumn sown
- Direct drill vs. cultivation at sowing
- Lower vs. upper terrace (soil type)
- Farm system type – Standard or Lower
- Effluent vs non-effluent

Paddock	Management	Effluent?	History	Planting type
16	Standard		Kale to permanent pasture	Conventional
24	Lower	Effluent	Swedes to permanent pasture	Min Till
67	Lower		Grass to grass	Direct Drill
88	Standard		Grass to grass	Direct Drill
92	Lower	Effluent	Springer to permanent pasture	Min Till
101	Standard		Swedes to permanent pasture	Conventional

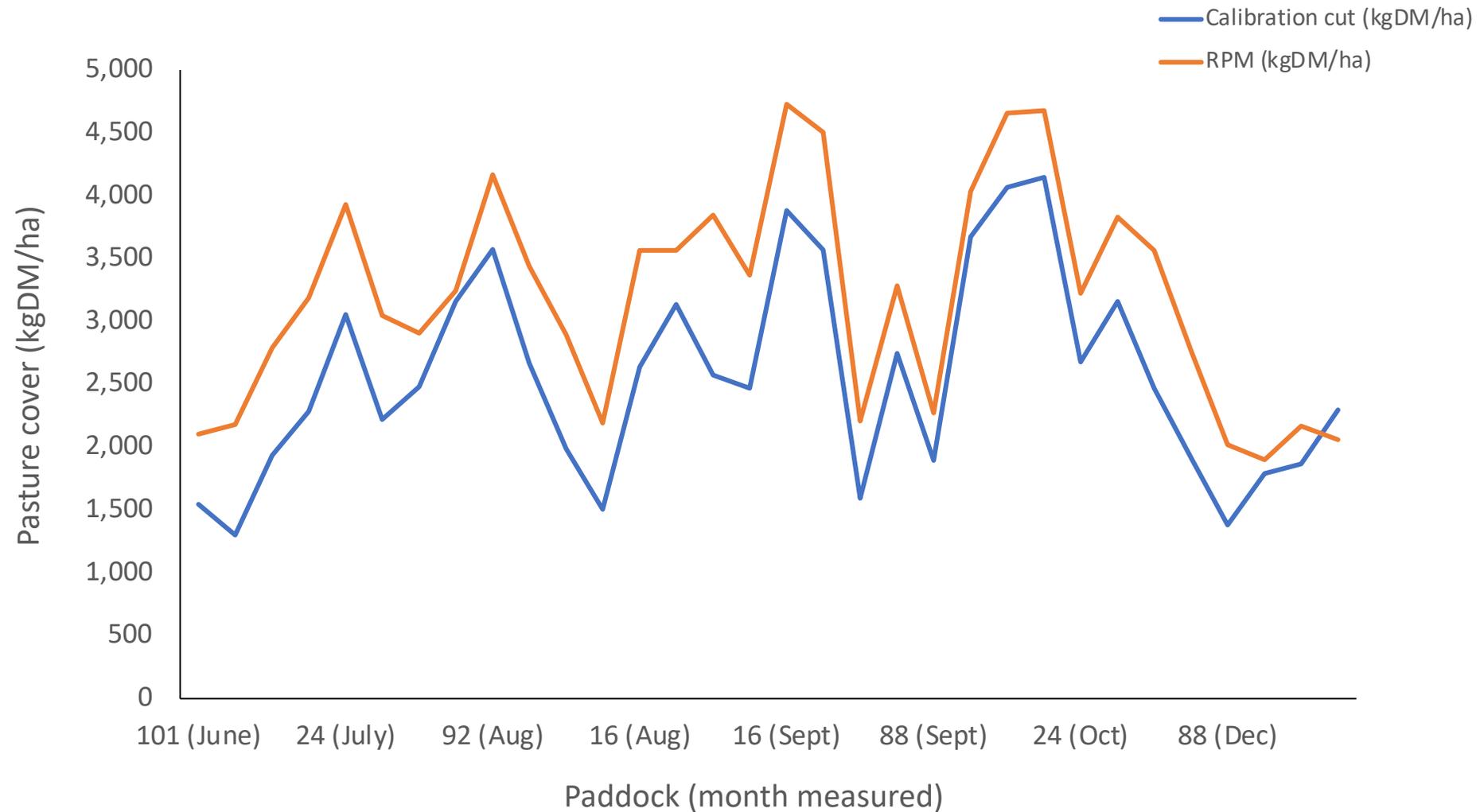
Monitor paddocks - Spring vs. Summer Plantain %



Monitor paddocks - Spring vs. Summer Clover %



Plating comparison – RPM vs. Calibration



Learnings from broadcasting with Fertiliser

- Using Lime as a carrier at 300kg/ha
- 6kg/ha Ecotain (Prillcote)

Considerations

- Risk of seed burn - mixing seed in as close to application as possible
- Apply it within **24-48** hours of mixing the two
- Due to small paddocks, spreader went around the paddock twice
- Spinner speed - slowing down provides a more uniform spread for seed. Not ideal for lime spreading but going over twice helps.
- When mixing, 25-30% of the seed on top so that not all the seed has fallen to the bottom during transport to the farm



What are other farmers doing in the region?

- Mostly sowing plantain with new pasture mixes
 - ex-crop or pasture renewal - 1-4kg/ha (bare)
- Experimenting broadcasting with fertiliser
- Comparing different sowing rates
- Different drill types/cultivation methods e.g. roller drill quite successful
- Compare success of plantain on different soils and topography on the farm
- Range of sowing dates Spring-Autumn

RaeMac Dairying Ltd Intro

- 256ha Dairy platform + support @ Seaward downs
- 470 peak cows
- Grows swedes, fodder beet, wheat, tulips
- Plantain has been successfully included in the re-grassing regime for four years.
- Trialled different sowing rates in new pasture
- Excellent success establishing plantain in new pastures using a roller drill.
- Broadcasting 1st time with fertiliser in Spring 23.
- Has water quality monitoring on site

