### **Project Objectives**

- To develop a profitable high-output grass-based spring milk production system
- To incorporate the most recent advances in grassland management for dairy farms into a high- output system
- Use a type of dairy cow that has good genetic indices for both milk production and fertility
- Employ the best practices from nutrition research and dairy cow husbandry
- Incorporate nutritional studies into a high-output system
- To incorporate management technologies and system attributes that enhance the sustainability of dairy production

For more details on the High Output Systems Research Herd visit https://www.ucd.ie/agfood/about/lyonsresearchfarm/lyonsdairyherd/

### Lyons Systems Research Herd Notes Week 11/11/2024

## Farm Details:

Area Available	17.43	На
Current SR (MP)	3.27	LU/ha
Farm Cover	569	kg DM/ha
Cover/LU	0	Kg DM/day
Growth Rate	11	kg DM/ha/day
Demand	0	kg DM/ha/day
Average Conc.	4	kg/day
Average DIM	253	days
Grass DM	18	%

YIELD	14.6	kg/cow/day
Fat	4.74	%
Protein	3.89	%
MS	1.28	kg
SCC	94.9	Cells/ml milk

### Grazing plan:

The AFC is 569 kg DM/ha (range 144–1102 kg DM/ha), with a growth rate of 11 kg DM/ha/day. Soil temperatures have cooled to an average of 6.6°C across the milking platform. The final grazing rotation began on Monday 30<sup>th</sup> of September and the herd was fully housed for the winter on the Sunday 10<sup>th</sup> of November. Our target was to have 100% of the milking platform (17.43 ha) grazed by housing on the 10<sup>th</sup> of November. However, we concluded the season with 88% of the platform (15.47 ha) grazed, just short of our intended goal. The herd is currently on a diet of 15 kg DM silage and 4 kg DM concentrates.

### **Comments:**

Compared to the same week in 2021, which was our best year for performance, this year's herd performance shows some changes. The yield per cow has decreased by



#### Cow Details:

approximately 10.4%, dropping from 16.3 kg to 14.6 kg per cow per day. Milk solids have also declined, falling by 15.7%, from 1.53 kg to 1.29 kg. The fat content has slightly decreased by 9.7%, from 5.25% in 2021 to 4.74% in 2024. The protein percentage has experienced a small reduction, dropping from 4.09% in 2021 to 3.89% in 2024. Although yield and milk solids are down, the herd continues to maintain a stable fat and protein content, with only minor changes in protein levels.

# BCS:

The herds BCS was assessed on the 5<sup>th</sup> of November. 89% of them scored between 2.75-3.25 and 11% scored between 2.25-2.5.