









### **Farm Overview**





- Farming 25.31 adjusted ha, 4 blocks
- Suckling to beef, grass-based system
  - 35 spring-calving suckler cows
  - Heifers are slaughtered at 23-24 months
  - Bulls are finished under 16 months
  - Breeding own replacements, 100% artificial insemination





### **Farm Overview**



#### **Environmental Conditions**

- Highest point is 918 feet above sea level (Irish average is 387 feet)
- Average rainfall is 1685 mm, 12 to 47% of this falling in the first 3 months of the year
- The average air temperature has risen by 0.9 °C in the last 5 years alone









## **Key Focus Areas**



#### Joined the programme in 2017

#### Breeding

- Improved fertility in cows
- Increasing the weaning weight
- Reduced age at slaughter of cattle
- Increased carcass weight
- Reduced cow size

#### Grassland

- Paddocks
- Measuring
- Improved soil fertility
- Increased weight gain from grass



Health, Nutrition, Profitability, Reducing my Carbon Footprint per Kg of beef





# **Weanling Performance**





KPI	2017	2018	2019	Difference		
Average daily weight gain (Kg/day)						
Heifers	1	1.09	1.19	+19%, 0.19 kg/day		
Bulls	1.29	1.36	1.39	+8%, 0.1 kg/day		





# **Finishing Performance**





Breeding

Car

Bulls	002
Heifers	322

2018

nonths)

15.9

24.6

g)

394	417	+25 kg
336	340	+18 kg

Grassland Management



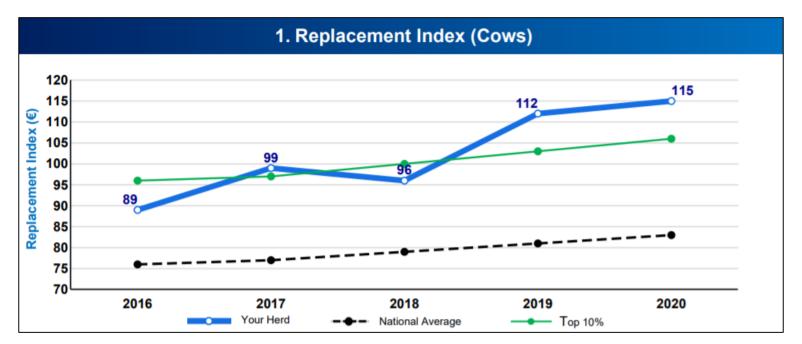


## 1) Breeding Performance



#### 100% Artificial Insemination

- Using top AI bulls for both Replacement and Terminal traits
- Using High Maternal bulls for replacements
- Breeding from best cows
- Culling unproductive cows







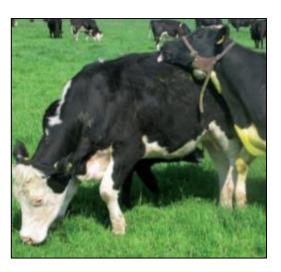


# **Breeding Performance**



- Heat Detection is KEY
  - Using Allflex SenseHub for heat detection
  - Was using vasectomised bull and tail paint
- Recording information: calving, bulling, breeding dates etc

```
14 NEC AN H 607 6 APR LM 2065
                                            392 3 MAR LALLY $ 630
1205 Z MAR LALLY $ 629
   DECENSORS H 6109 APR LM2065
                                            443 17 APRLM2117
                                           1156 17 APR LMZIA
      12 CLANZONS H 612 10 APR CH4321
                                                                  516 6 AM LM2117
     1 5 EL FWO B 616 28 MAR
                                              104/21
                                                                  589 6AR SA 4461
   OPSAN SAUS H 613 6 APR ZAG
                                                                  594 8 APR SAZIS3
   05 SAN GUO H 614 1 APR
    28 JAN FWO H 624 21 MAR
                     6 APR CH4321
    OF JAN SANS B 622 9 APR LM4217
    OF SAN SIZISZ H 617 21 MAR
     11 JAN FSZ B 618 16 FEB
     FSM FSZ H 621 10 APR FSZ
     914 FEB LAZOUS B 628
        SON FOL B 6238APR FSZ
        SALMZONS H 62610 APR LM 2065
440 25 SAN LINZUF B 625 24 MAR
403 2 52 B 62727 FB
1075 24 TANLER OUS B 619 29 MAR
                                                         TAGS 403,409,193
```





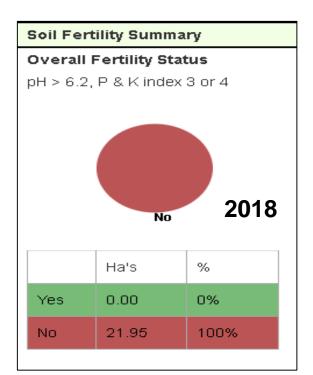


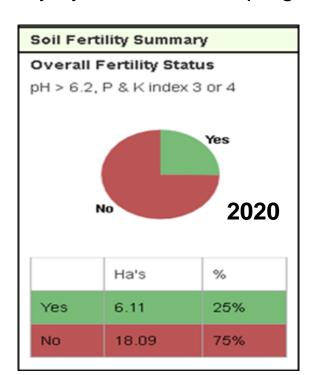
### 2) Grassland Management



#### Soil Fertility

- Soil samples taken in late 2018
- Implemented fertiliser plan recommendations for pH, Phosphorus & Potassium
- Improved overall soil fertility by 25% Work in progress











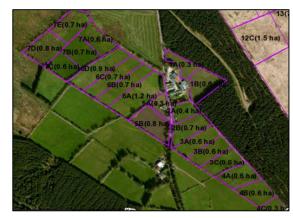
Source: Teagasc NMP



## **Grassland Management**



- Improved infrastructure
  - Increased the number of paddocks from 12 to 37
  - Added more water troughs
  - Improved access roadways and gates













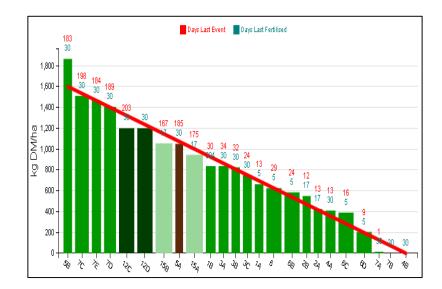
### **Grassland Management**



- Measuring
  - Measuring grass weekly, using PastureBase Ireland
  - Can measure my progress
  - Using the grass wedge to manage grass better

Increased grass production on farm by >2 t DM/ha

since 2017







### **Grassland Management**



- Reseeding poorest performing paddocks
- Using top quality grass seeds
- Incorporating clover in reseeds
- Using Protected Urea









### **Overall Performance**



- Increased live weight gain of beef stock
- Reduction of finishing age, increase in carcass weight
- Reducing methane & carbon footprint per kg beef

More efficient use of inputs: feed, organic & chemical manure, farming time

Measure	2017	2019	Difference
Calving rate – calves/cow/year	0.97	0.95	-0.02
Heifers calving <24 mths	86%	90%	+4%
Stocking rate (LU/ha)	1.68	2.13	+27%
Concentrate feeding (kg/LU)	458	795	+76% (Bulls)
Grass grown (t DM/ha)	9.85	11.84	+20%
Live weight gain (kg/ha)	648	818	+26%

