



### Heavy Soils Programme Review Jan. 30th 2019

#### **Grazing Infrastructure**





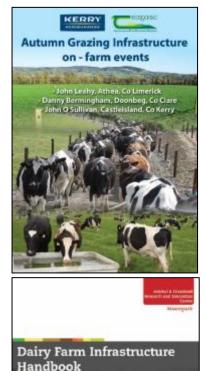




# **Grazing Infrastructure**



- An audit of infrastructure carried out on HSP farms during 2018
- The audit looked at grazing infrastructure under a number of headings, namely;
  - Paddock size, shape and access
  - Extent, quality and condition of the farm roadway network
  - The supply of water to paddocks
- A number of issues were apparent on all farms.
- These issues create difficulties with grassland management and utilisation, animal performance and labour input
- Plans in place to focus on correcting these issues in 2018 and the coming years
- Infrastructure focused Events held on 3 farms in September/October





O Ulster Bank





### Infrastructure Audit



	% Adequate	% Needs Attention	% Not fit for purpose							
Paddocks										
Size	75	25	0							
Access	66	34	0							
Drainage	70	21	9							
Fragmentation	72	24	4							
Roadways										
Sufficient	83	10	7							
Width	81	19	0							
Cow flow/quality	59	29	12							
Spurs	74	19	7							
Water Supply										
Source/pressure	67	33	0							
Pipe network	79	21	0							
Troughs no & size	69	30	1							



## **Main Issues**



- Paddocks
  - Inadequate sizes
  - Access-too far from roadway network or too few gaps
  - Poor use of spur roads in larger paddocks
- Roadways
  - Large variations in surface condition
  - Inadequate width
  - Poor layout/configuration in places
- Water supply
  - Not enough troughs
  - Poor flow rates

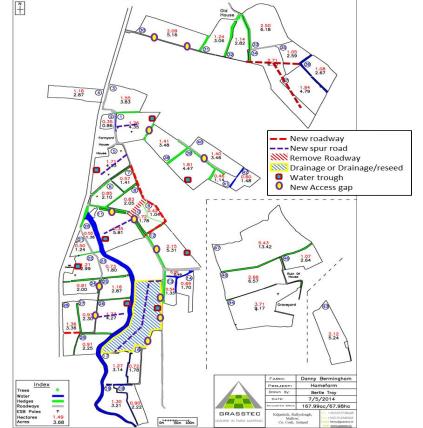




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- Drainage of Paddock 15. 1,900 m of drains, spur roadways, reseeding and fencing
- Re-alignment and re-surfacing of 300 meters of roadway
- Spur roadways to be installed in Paddocks 1, 5, 11 and 26
- Additional water troughs
- Enhanced paddock access-installing bridges on open drains, gaps in ditches etc.
- During 2017, 9.3Ha were reconfigured, serviced by a new road, water troughs and fencing with multiple access

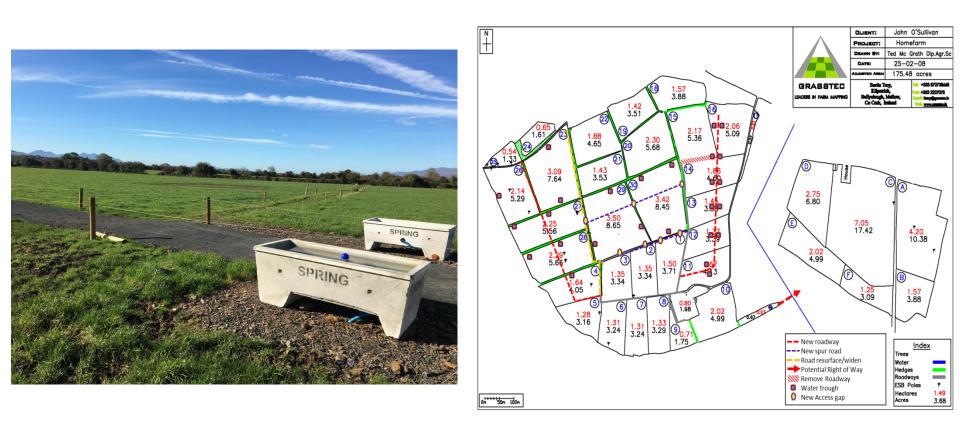








- 570 m of roadway (Paddocks 11 16) plus fencing
- Additional water troughs
- 615 m of spur roadways
- Additional gaps through boundary ditch (rented ground)
- Road surfaces and gaps, particularly those on rented ground need attention.
- 550 meters of new roadway to service rented ground planned
- Potential access to nearby out-block, 320 m away (Right of way)

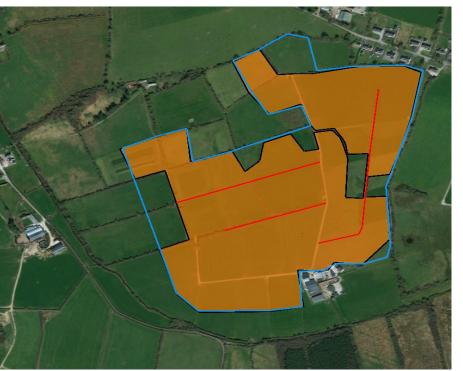






#### <u>Previously</u>





**Currently** 



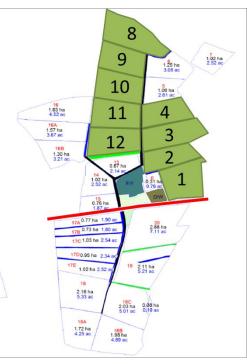
## **Use of Infrastructure-J. Leahy**



#### March Grazing Planner

Mai	rch	Rainfall (mm)	Paddock	No. of Cows	Hours Grazing	Silage Fed (bales)	kg Meal Offered	Damage (Yes, No, Moderate)
1	am	0.0				(22.22)		,
1	pm	0.0						
2	am	0.0						
2	pm							
3	am	9.6						
3	pm							
4	am	6.8						
4	pm							
5	am	0.0						
		0.0						
5	pm							
6	am	1.2						
6	pm							
7	am	1.8	1	80	3	3	4	Yes
7	pm							
8	am	1.4		1				
8								
	pm	2.0						
9	am	2.8	2	82	3	4	4	Mod
9	pm							
10	am	3.0	2	82	3	3	4	Mod
10	pm							
11	am	0.2						
11	pm							
12	am	2.4						
		2.4						
12	pm							
13	am	0.2	11	85	3	3	4	Mod
13	pm							
14	am	11.0						
14	pm							
15	am	12.6						
15	pm	1210						
		1.4						
16	am	1.4						
16	pm							
17	am	0.0						
17	pm							
18	am	0.4						
18	pm							
19	am	0.2	11	88	3.5			Mod
19	pm	0.2	11	88	3	1.5	4	Mod
			11	88		1.5	4	
20	am	0.0			4.5			Mod
20	pm		11	88	3	1	4	Mod
21	am	0.0	12	89	4.5			Mod
21	pm		12	89	3	1	3	Mod
22	am	2.4	8	91	3.5			
22	pm		8	91	3	1	4	Mod
23	am	4.2	8	91	3.5			
23			8	91	3	1	4	Mod
	pm							
24	am	0.4	8	93	3	3	5	Mod
24	pm	_						
25	am	0.0	4	93	3	3	5	
25	pm							
26	am	6.8	4	93	2.5	3	5	
26	pm							
27	am	1.8	4	94	2.5	3	5	Mod
27	pm							
28	am	4.6						
28	pm							
29	am	0.0	3	96				
20	pm							
29								
		0.2	3	96				
30	am	0.2	3	96				
<b>30</b> 30	am pm							
30	am	0.2	3	96 96				





#### **Grazing strategies**

- Aggressive On/off grazing
- 2.5-4.5 hour periods
- Use of spur roadways
- What level of damage is acceptable?
- Dictated by ground conditions
- Underpass will allow flexibility across whole platform