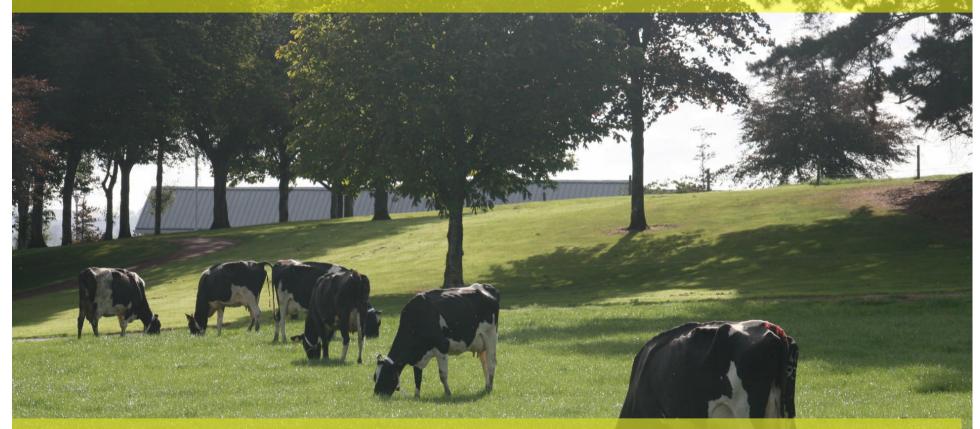
Tipperary Co Op



Laurence Shalloo & George Ramsbottom

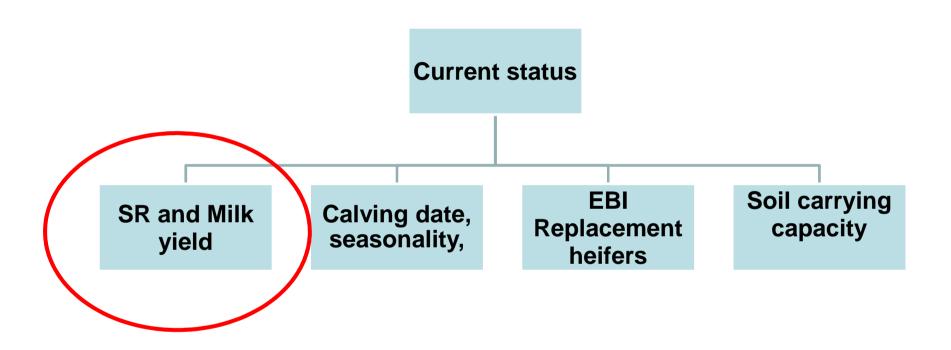
Animal & Grassland Research and Innovation Centre, Teagasc, Moorepark

Background

- Study of key factors affecting productivity in Tipperary region
- Data sources
 - Tipperary Co Op
 - Supplier survey
 - ICBF
 - PastureBaseIreland
- Key outputs from the study
 - SR and milk yield
 - Seasonality
 - Milk supply profiles
 - Calving dates
 - Herd EBI and heifer generation
 - Regional breakdown of soil carrying capacity and potential expansion



Tipperary Region



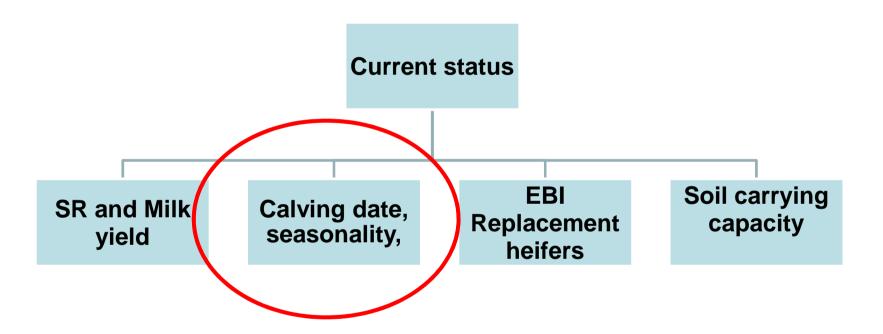


Milk Yield and stocking Rate

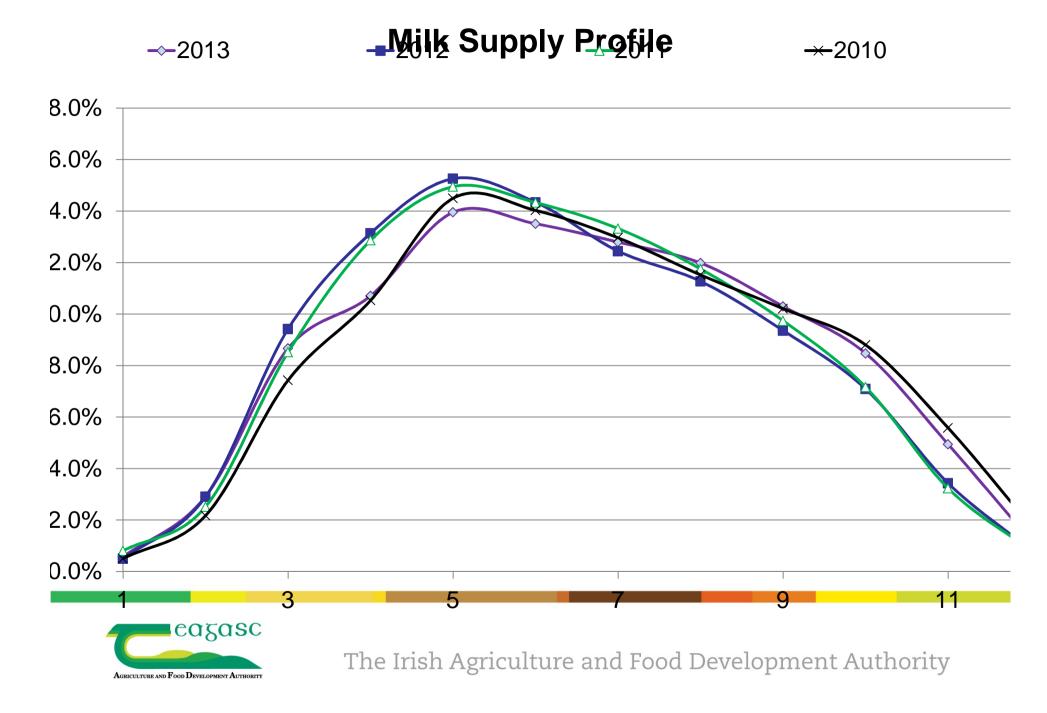
	Tipperary Average	National Average
Milk Yield L/Cow	4,515	*4,645
Stocking rate Cows/Ha Milking Platform	1.88	¹ 1.89
Stocking rate Dairy LU/Ha Total Area	1.42	¹ 1.54
% Area of the outside farm	77	¹ 66

- Significant volumes of milk being lased of Calves
- Every 1 acre on the platform is associated with an additional 0.77 acres on outside block

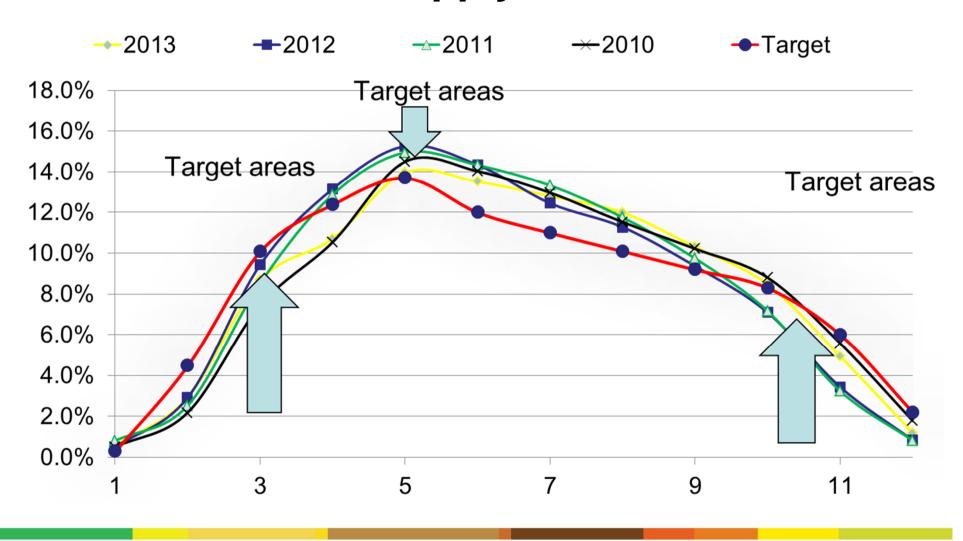
Tipperary Region







Milk Supply Profile





Calving Date

- ICBF Data
 - Mean calving date 7th March
 - Mean calving date Heifers 28th Feb
 - Nationally March 8th



Profitability associated with Calving date and lactation Length

Lactation Length	Jan 15th	Feb 15th	Mar 15th	Apr 15th
Milk yield L/Cow	5,230	5,177	4,811	4,421
Milk yield kgMS/Cow	378	380	352	333

Profitability associated with Calving date and lactation Length

Lactation Length	Jan 15th	Feb 15th	Mar 15th	Apr 15th
Milk yield L/Cow	5,230	5,177	4,811	4,421
Milk yield kgMS/Cow	378	380	352	333
Grass kgDM/Cow	3,434	3,836	3,500	3,245
Silage kgDM/Cow	1,214	1039	1,278	1,538
Concentrate kgDM/Cow	606	299	289	196

Profitability associated with Calving date and lactation Length

Farm profit €

Jan

Feb

Mar

Apr

15th

15th

15th

15th

Projected milk price 24.5c/l

No Quota 40Ha

2,156 12,783

70

-4,508

Profitability associated with Calving date and lactation Length

Farm profit €

Jan

Feb

Mar

Apr

15th

15th

15th

15th

Projected milk price 24.5c/l

No Quota 40Ha

2,156 12,783

70

-4,508

Projected milk price 29.5c/l

No Quota 40Ha

30,107 40,939 25,811 19,855

Profitability associated with Calving date and lactation Length

Farm profit €

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Projected milk price 24.5c/l

No Quota 40Ha

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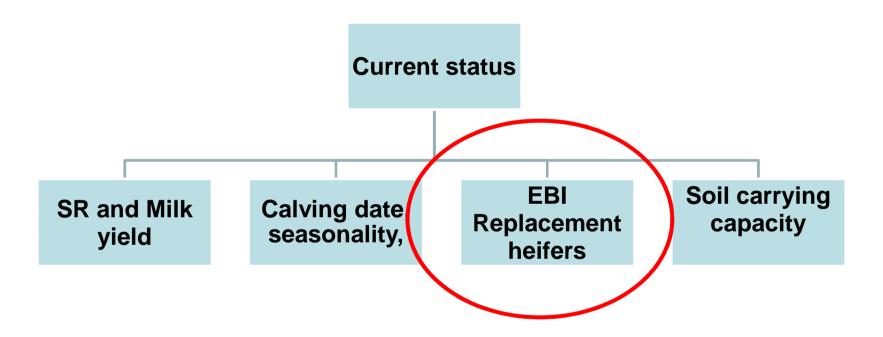
30,107 40,939 25,811 19,855

Calving Date

1 day later than optimum costs €3.51@Milk price of 29.5cpl

Optimum mean calving date between Mid and Late February depending on soil type

Tipperary Region





EBI

	Tipperary Average	National Average
Dairy Cows	117	121
1st lactation animals	123	124
Heifer calves born in 2012	132	133
Heifer calves born in 2013	143	150



Replacement Heifers

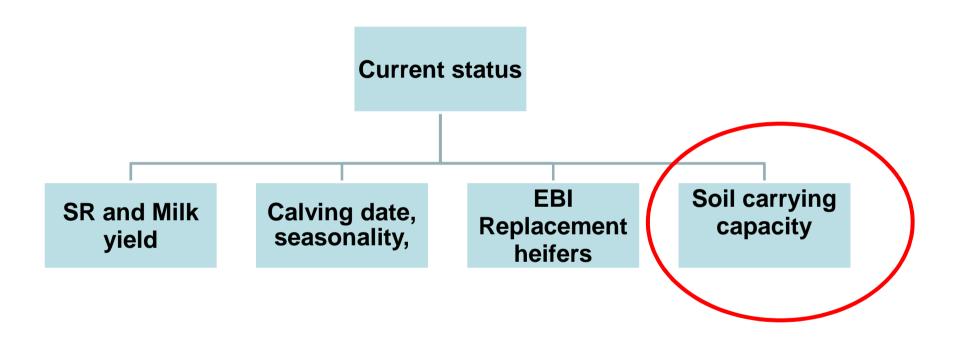
	Heifers per 100 cows		
	Tipperary	National	
2013 born heifers	28	36	
2012 born heifers	25	*32	

Tipperary Region
Enough heifers to maintain herd size
More heifers needed for expansion

nate



Tipperary Region





Soil Type

- All farms were grouped into three categories
 - Dry
 - Mixed
 - Wet

Definition

- Dry > 70% of land area free draining
- Mixed Between 30%-70% free draining
- Wet < 30% of land area free draining

Current Performance

	Dry	Mixed	Wet
No. of farms	134	147	111
% of farms	34.2	37.5	28.3
Av. milk plat size (Ha)	41.1	40.8	32.8
Cow SR (cows/ha on MP)	2.03	1.90	1.67
Total Area Ha	5,216	5,514	3,287



Soil carrying capacity & expansion potential

Soil Type	Milking platform SR
Dry	2.8 cows / ha
Mixed	2.5 cows / ha
Wet	2.2 cows / ha

Milking platform stocking rates– silage can come from out farms



Potential expansion on existing land base

	Dry	Mixed	Wet
Stock carrying capacity	2.8	2.5	2.2
Additional cows	4,845	4,086	2,170
Additional Milk (m. litres)	25.4	19.3	10.2
% Increase	70.5	64.0	54.2



Supplier stated expansion

	Actual	Supplier Projections	
	2013	2014	2015
Milk Production L	277,858	293,703	317,629
% Increase		10.9	19.5
No farmers expanding		244	295

Potential is 64% increase



Grass growth required - milking platform self sufficient

	Dry	Mixed	Wet
Stock carrying Capacity	2.8	2.5	2.2
Grass growth (T DM/Ha)	14.8	14.1	12.4
Grass used (T DM/Ha)	12.6	11.3	9.9



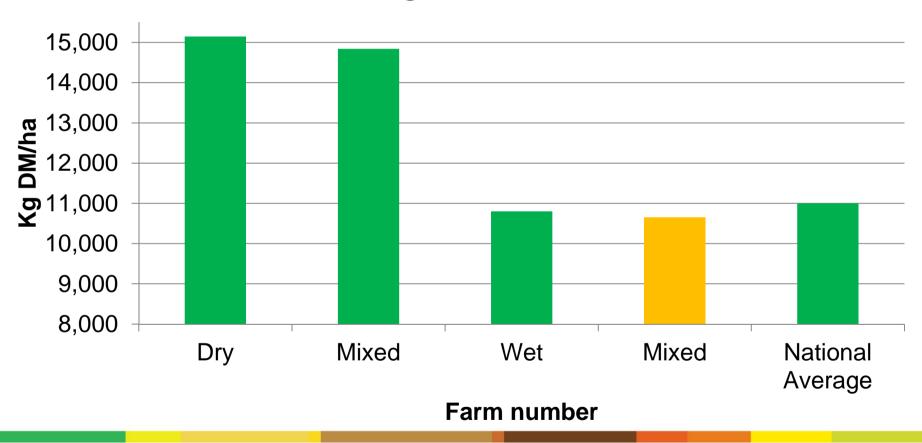
Grass growth required - 50% silage from out farm

	Dry	Mixed	Wet
Stock carrying Capacity	2.8	2.5	2.2
Grass growth (T DM/Ha)	13.2	12.2	10.5
Grass used (T DM/Ha)	11.2	9.8	8.4



Tipperary Farms PastureBASEIreland

Herbage Production





Summary

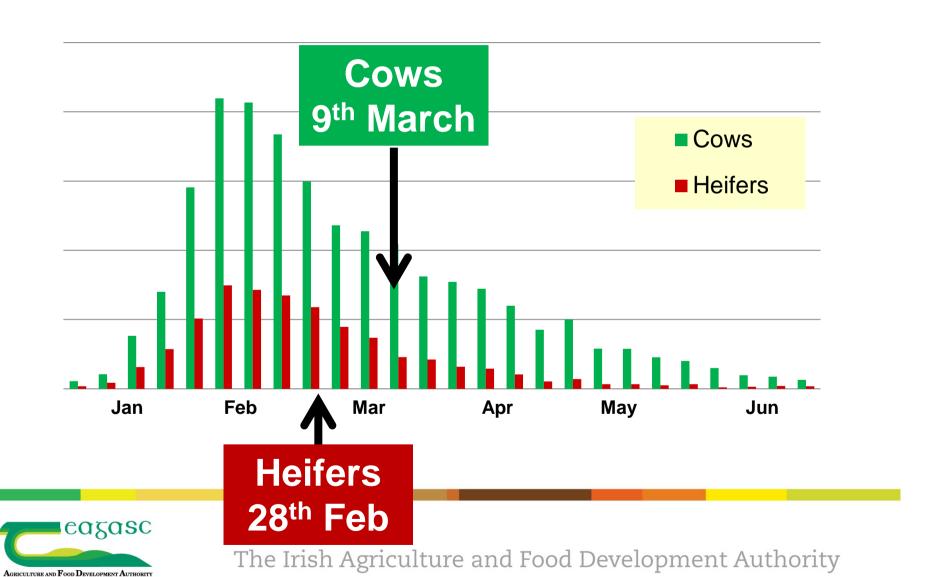
- Significant scope for expansion in Tipperary Region
- Key focus areas at farm level
 - Calving date
 - EBI and replacement heifer generation
 - Grass growth, soil nutrient status & grazing infrastructure
 - Enterprise shift towards dairy
- Profitable expansion will be driven by increasing grassland productivity and increasing the fertility status of the herd
- Increasing fertility status will increase milk yield per cow
 - Replacement rate (age profile circa 200L/year)
 - Calving Date 25 days (circa 400L/cow/year)

Four major factors

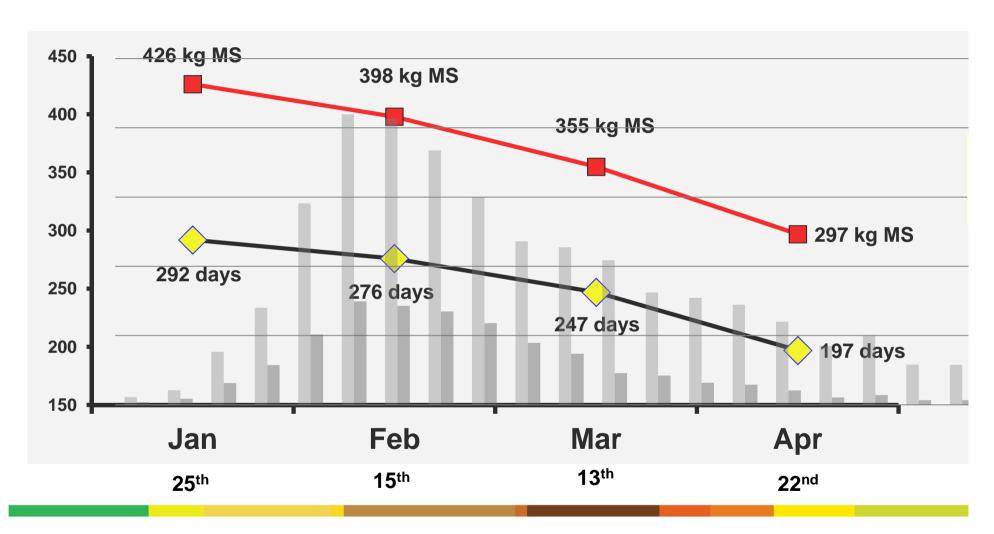
- Calving date
- Heifer numbers
- Increasing grass grown
- Land use change



Calving date



Calving Date





Calving Date

Mean calving date: From 7th Mar to 10th-20th Feb

Co-op	Seasonality scheme
Advisory	Farm walks Discussion groups Newsletters Seminars
Research	Solohead Research Farm



What % of live heifers born in 2007, calved down at 22-26 mths?

	No. ('000's)	
Heifers born alive in 2007	249	100%
Heifers calved at 22-26 m.o.	119	47%
Heifers calved at < 22 m.o.	3	1%
Heifers calved at 27 - 30 m.o.	22	9%
Heifers calved at > 30 m.o.	47	19%



Heifer Numbers

Increase heifer number: 28 to 40 per 100 cows

Increase heifer liveweight

Advisory

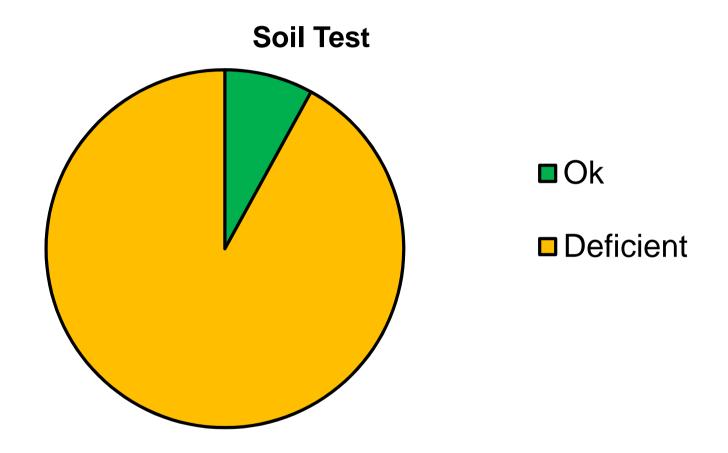
Five year physical plans

Investment appraisal workshops

Weighing demos on focus farms



Increasing grass grown





Increasing grass grown

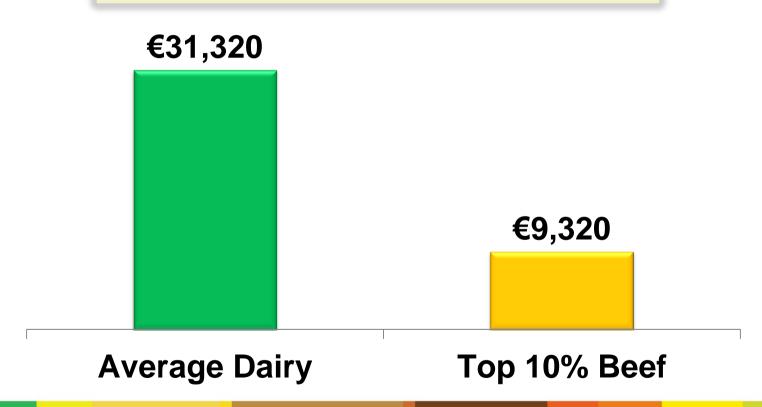
Target for all soils: pH 6.3; index 3 P & K

Со-ор	Soil test subsidy
Advisory	Soil focus farm walks
	Light soil farms
	Mixed soil farms
	Heavy soil farms



Enterprise shift







Enterprise shift

Co-op

&

Advisory

New entrants

Land lease

Partnerships

Share farming

