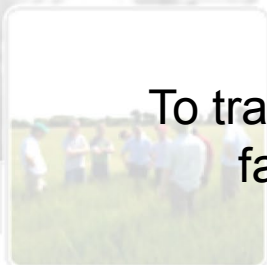


Crops KT Department

To transfer sustainable science based advice to maximise farmer profits and support the wider crops sector.



Teagasc Tillage Team

Teagasc Tillage Team - providing advice and support to farmers on tillage and soil health. www.teagasc.ie/crops/tillage/

Supporting
Livestock & Cattle



Tweets Tweets & replies Photos & videos



Teagasc Tillage Team @TeagascCrops · 1h

High levels of ergot can occur in mature grasses - assess fields for ergot before conserving late fodder

Crops KT Specialist Team

Michael Hennessy (Head of Department)

Specialists - Mark Plunkett, Shay Phelan, Ciaran Collins

Joint Program (Malt barley) – Eoin Lyons

EIP Project – Jimmy Staples,

Who to follow - Retweets - View all



Bernard Conboy @BernardC...
Followed by William Conboy...



Eoin Lyons @EoinLyons...
Followed by Eoin Lyons...



Pádraig Ó Riada @PádraigO...
Followed by Pádraig Ó Riada...

Retweets

Tweets · Retweets

From Friends
Eoin Lyons about this tweet

RT @eagasc: After the Easter, it's time for a Spring/Summer...
17th March

Research Programme Structure

- 4 Programmes

- » Food

- » Animal and Grassland

- » Crops, Environment and Land Use

- Crops KT Department

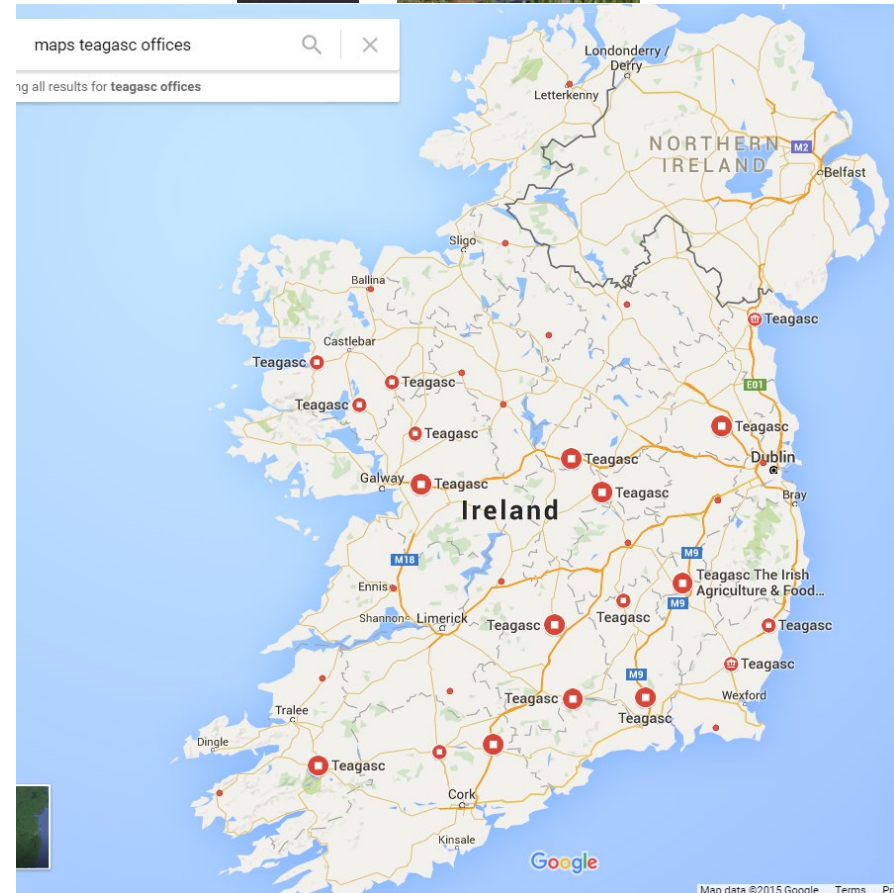
Advisory Service
300 advisors

- » Rural Economy And Development

The Department

- 4 FTE in Department

- Special projects
 - » Industry
 - » EIP – Grass weeds
 - » Masters students (Cd)
- Intensive support for 16 FTE B&T Tillage advisers



Department Focus

- To transfer sustainable science based advice to maximise farmer profits and support the wider crops sector
- Leadership in the area for the wider organisation (Approx. 250 FTE advisors/teachers)
 - Support KT activities for all crops
 - Develop relevant messages
- The wider industry
 - Providing information/catalysis for change
 - Developing joint industry initiatives



Integrating Research and Knowledge Transfer

Researchers create new knowledge



Stakeholders participate in programme reviews

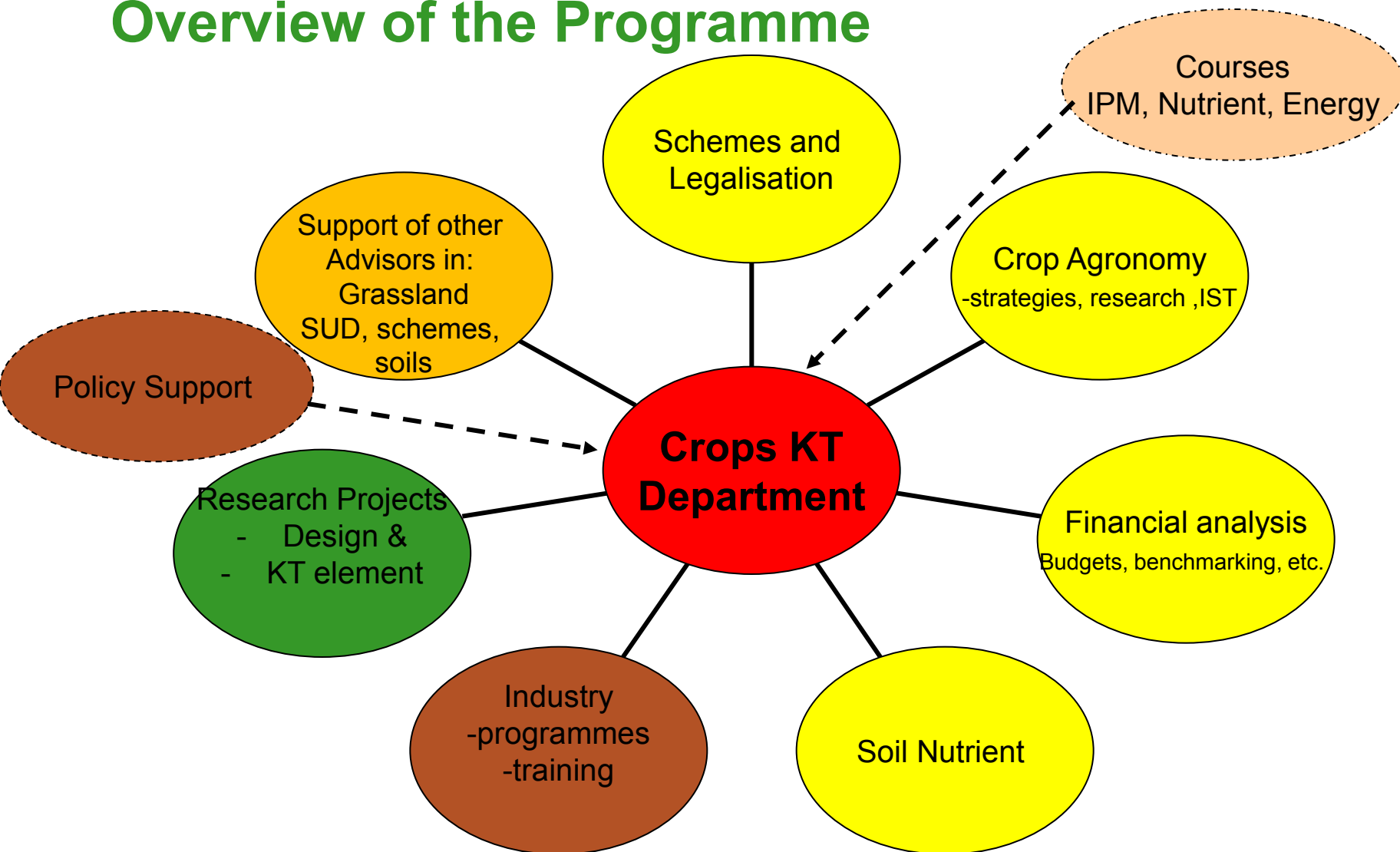


Advisers work with farmers to implement the new technology

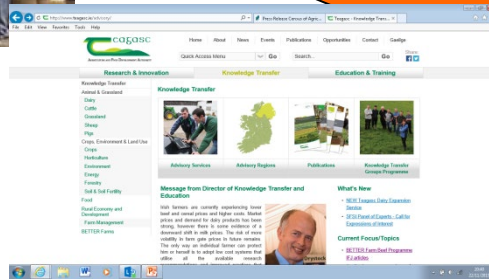
Specialists mould this knowledge into information for farmers



Overview of the Programme



Advisory model - operational version of Teagasc AKIS



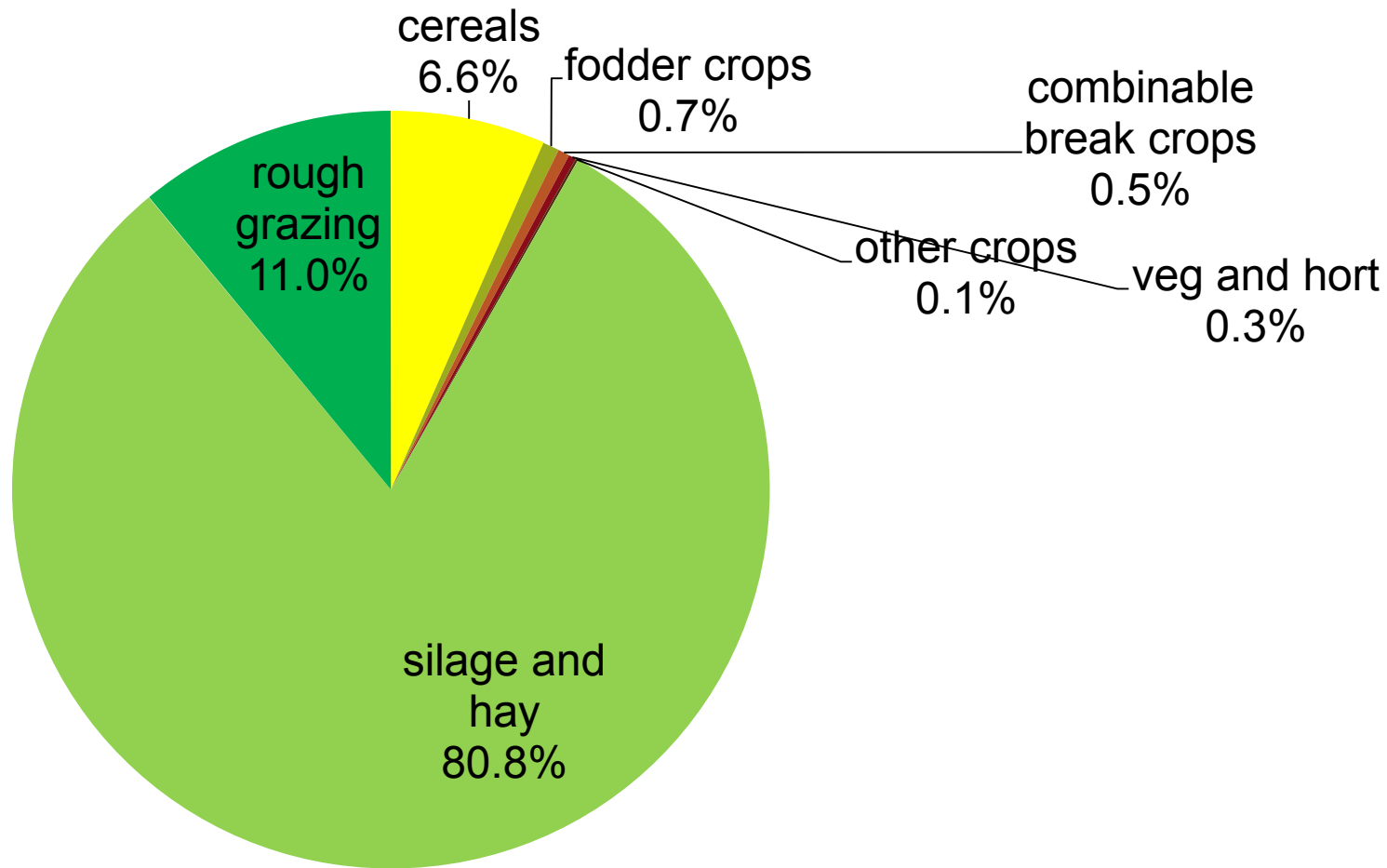
Farming in Ireland

- Total land area
 - 6.9 million hectares
- Total agricultural area
 - 4.4 million hectares
 - 80% grassland
 - 8% arable
- Forestry
 - 745,000 hectares



Land use

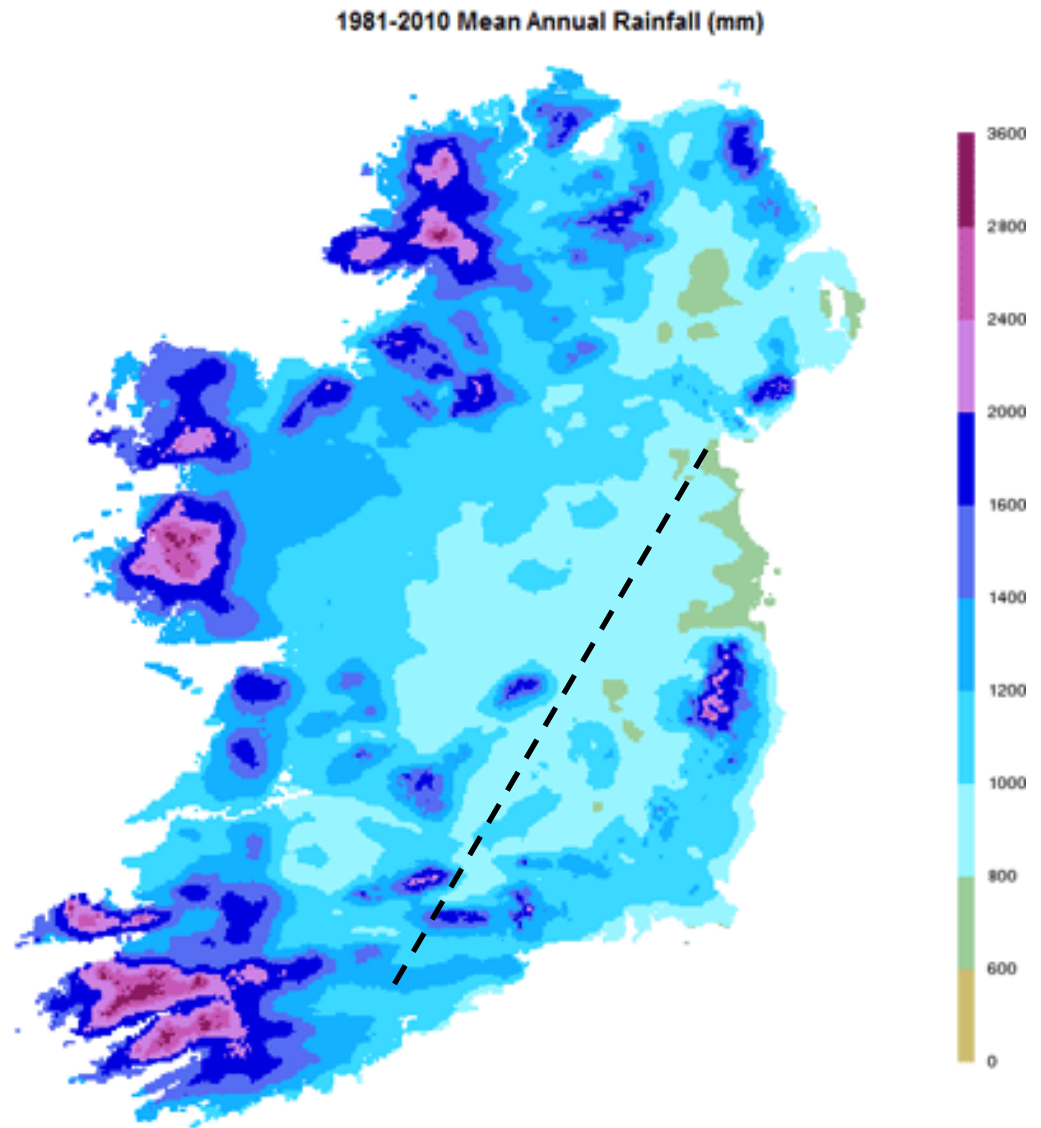
total area 4.4 m hectares



Irish Climate

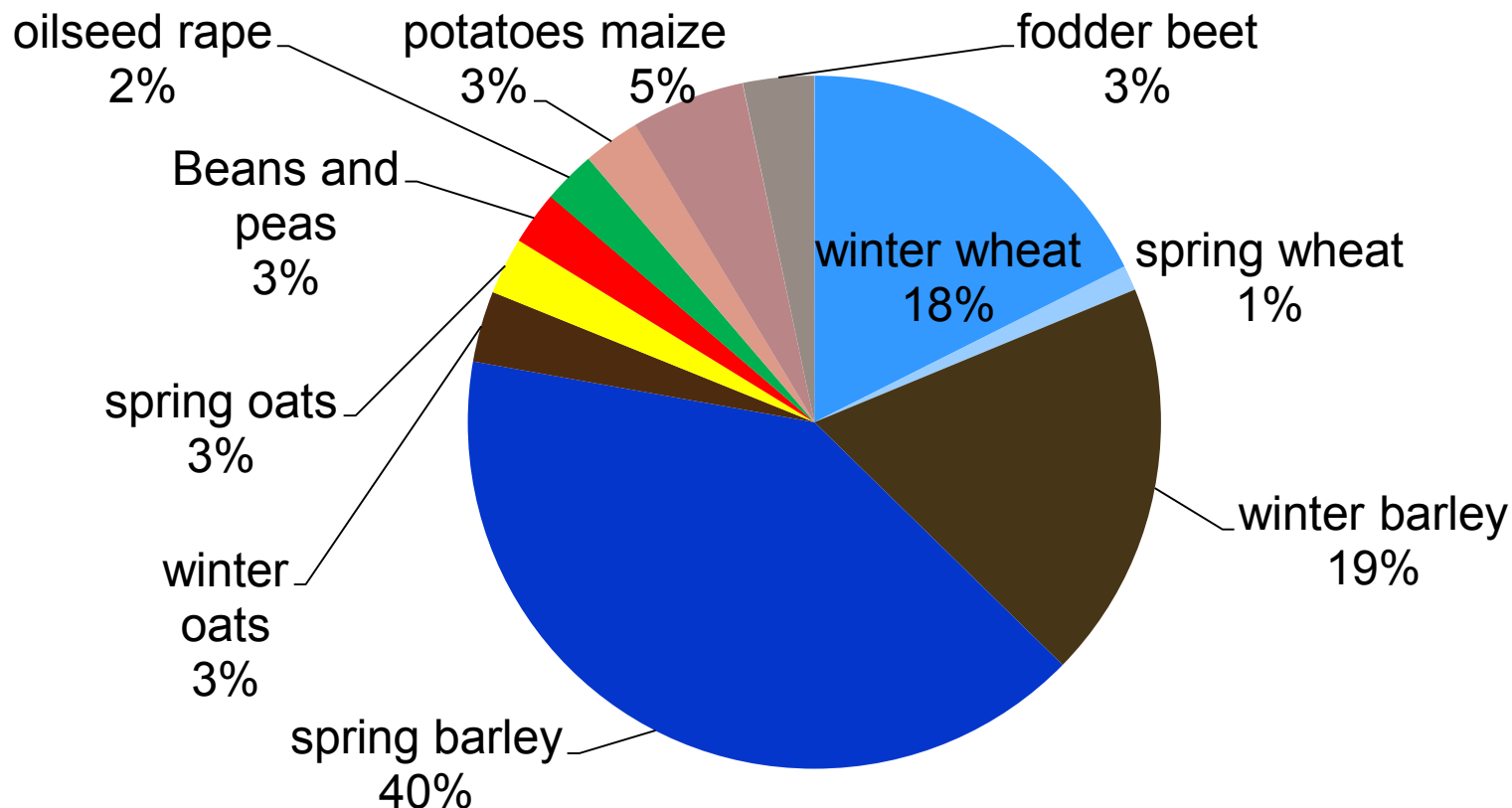
How Often Does it Rain?

The general impression is that it rains quite a lot of the time in Ireland, but two out of three hourly observations will not report an measurable rainfall.

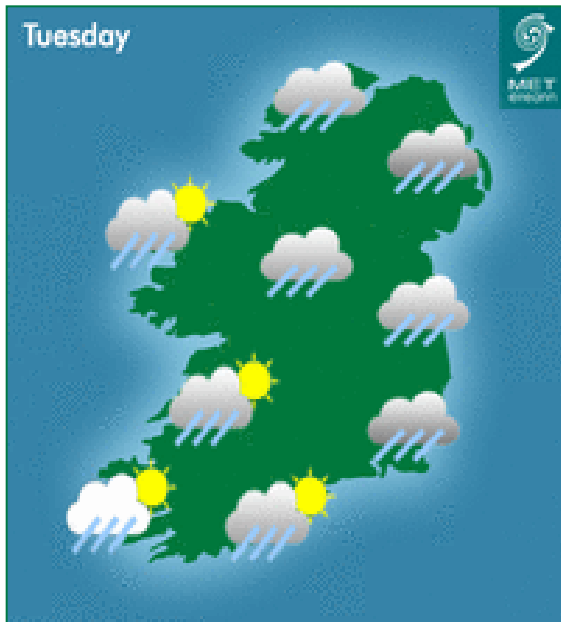


Cropping 2018

total area 307,000 ha

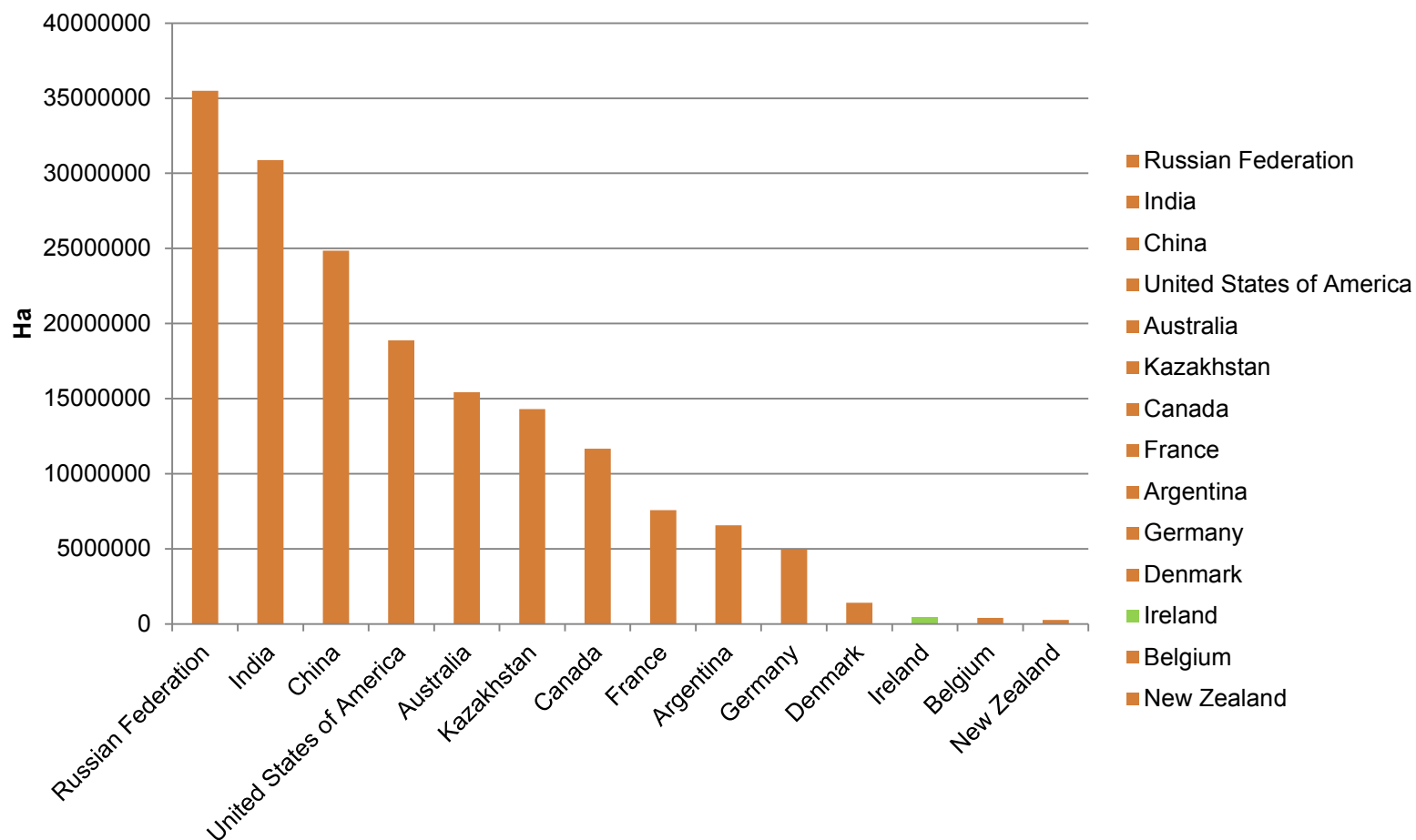


Disease control essential in Irish Crop Production

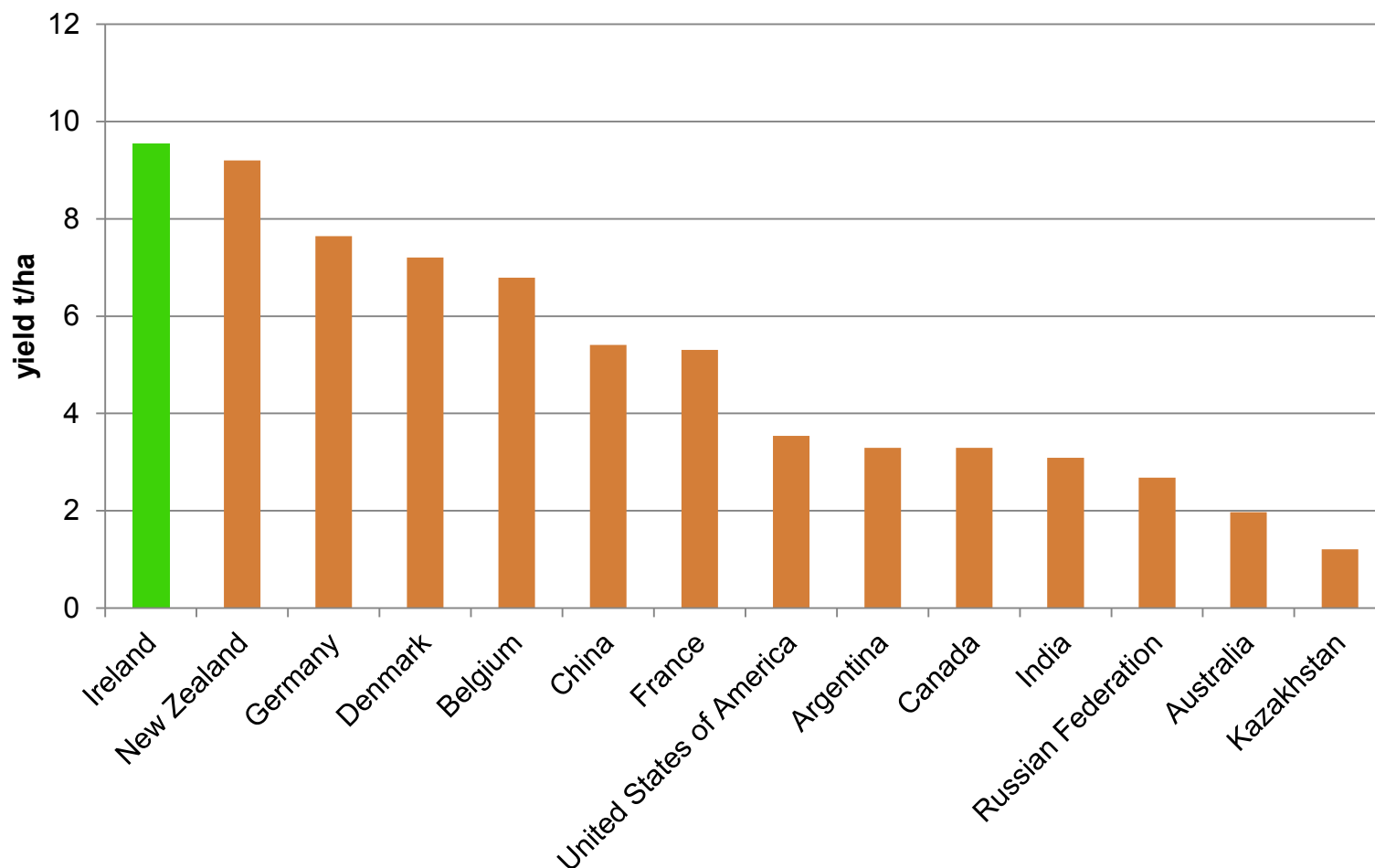


- High yields but...
- Extremely high disease pressure
 - Up to 50% yield reductions

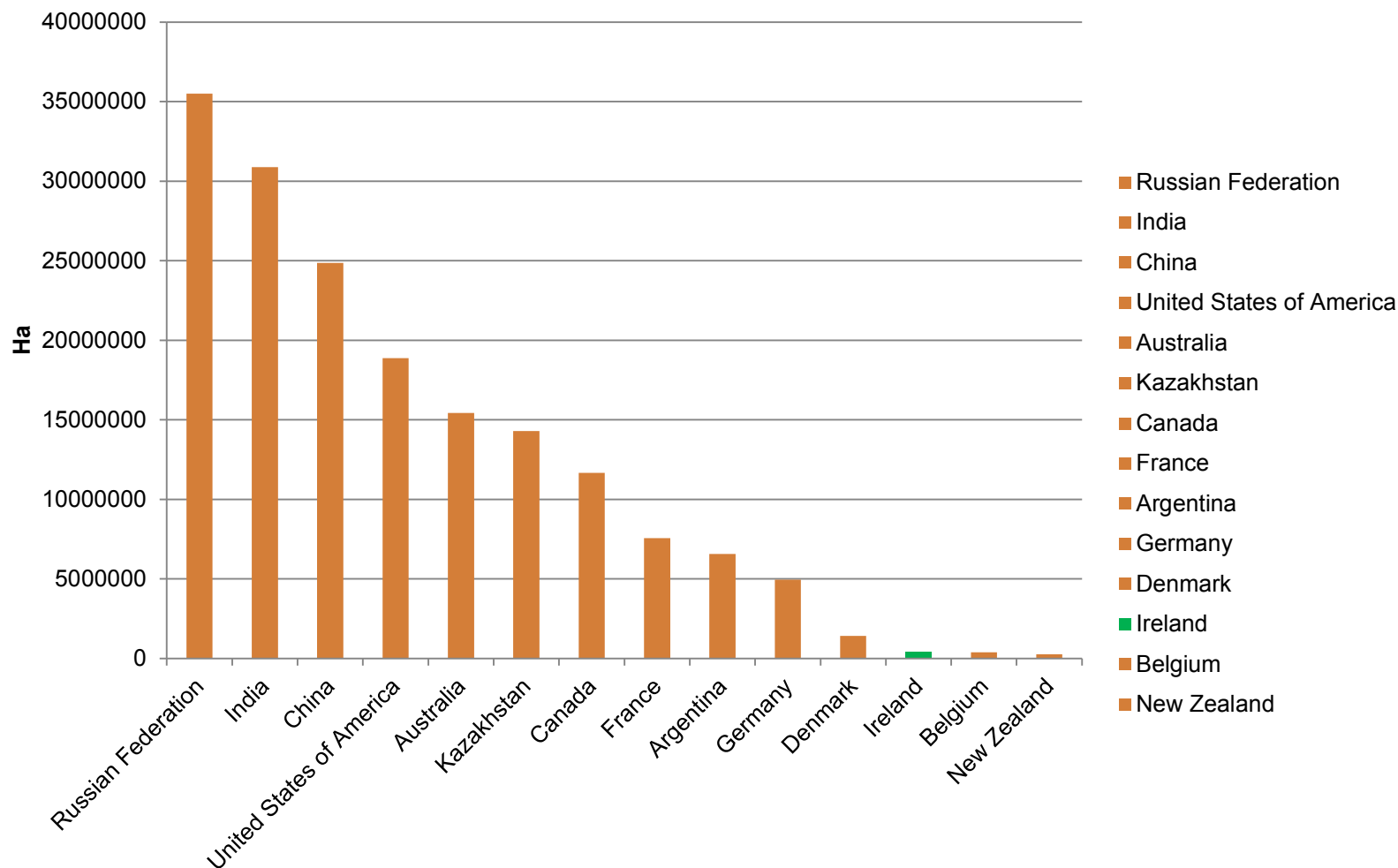
Wheat area 2016



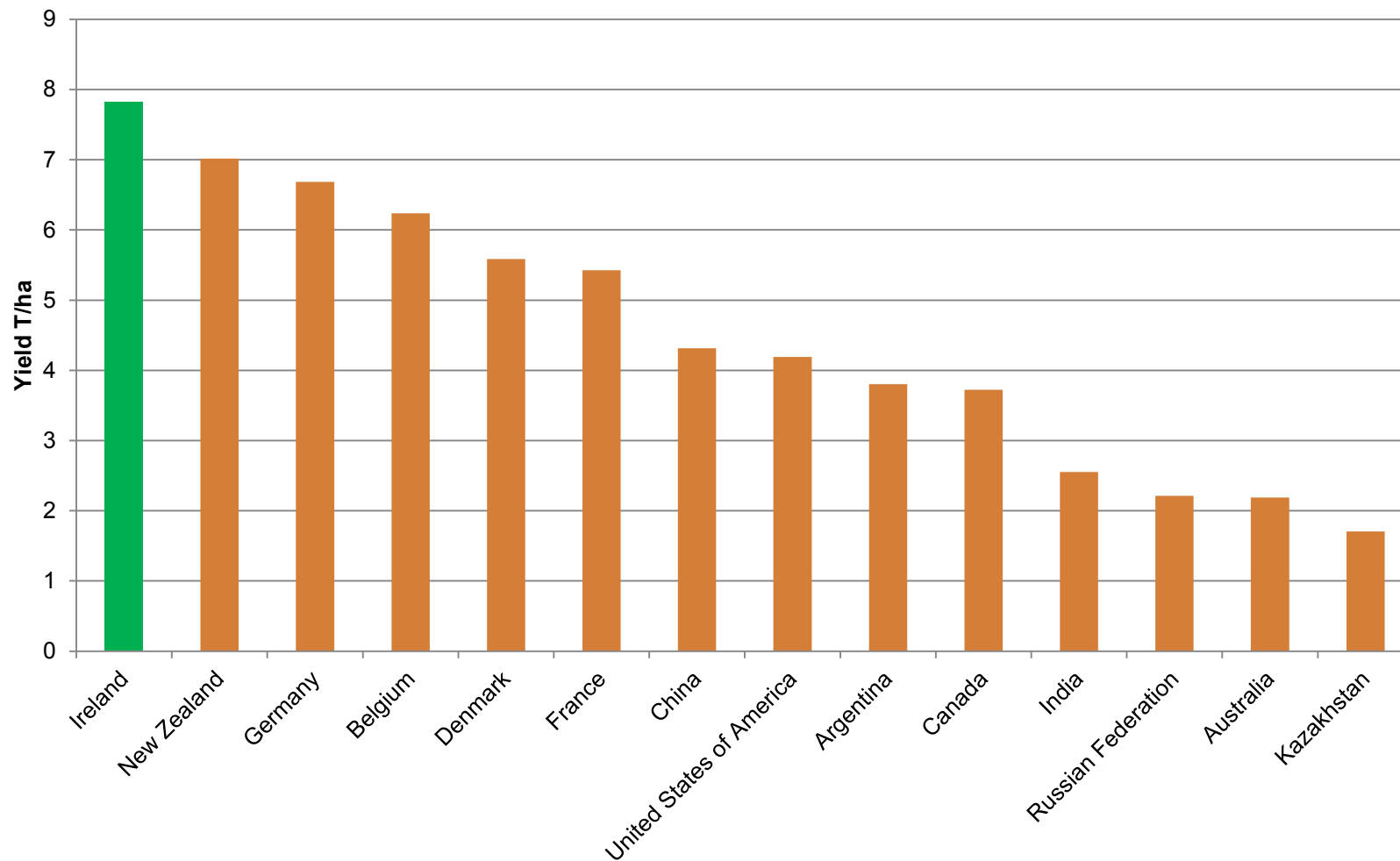
Wheat Yield 2016



Barley area 2016



Barley yield 2016

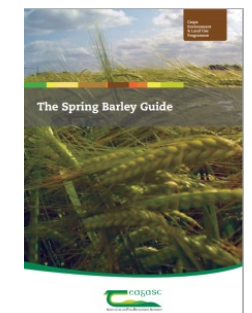
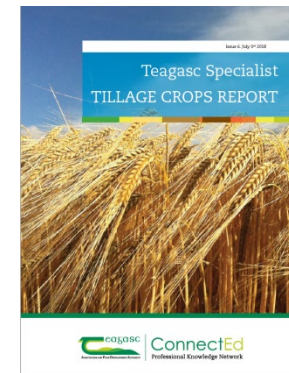
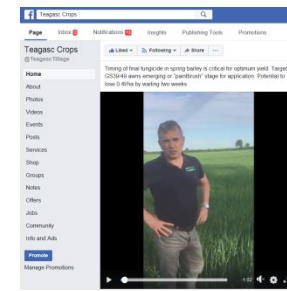


Arable production in Ireland

- High yield
- High costs
 - » Structure
 - » Disease pressure
- Continued reliance on CPP –sustainable?
- Need improved genetic material
- BUT - No native cereal breeding

Programme Key Activities

- In-service training – technical and financial
- Industry Training
 - Key industry publications: Crop Report
- Industry Joint Programmes
 - Malting Barley
- BETTER Farm projects
- National events and competitions
- Membership of internal and external working groups
- Development of decision support tools –manual and computer/online
- Research - KT activities of projects
 - Horizon 2020, Stimulus and Core funded projects
- Social Media, YouTube, videos, etc
- Publications



Adding Value

Agronomy and IPM



Teagasc
Agriculture and Food Development Authority

Winter Crop Walks

Teagasc invites all interested in the tillage sector to a nationwide series of winter cereal walks. Meet the local Teagasc Tillage adviser and get the latest updates from Teagasc specialists.

Topic covered will include:

- Winter Barley Advice
- Fertiliser advice for Winter Crops
- Fungicide Advice for Winter Crops
- Greening/3 crop rule practical issues

Wed, 11 Feb DAEM Farm, Ballyderown, Fermoy, Co. Cork
Teagasc, Oak Park, Carlow
Fri, 13 Feb Teagasc, Kildallon College, Piltown, Co. Kilkenny
Anthony & Bertie Ennis, West Curragh, Naul, Co. Dublin
Mon, 16 Feb John Fortune, Kereight, Crossabeg, Co. Wexford

All walks begin at 11am | All welcome
For more information visit www.teagasc.ie/events or call your local Teagasc office

Scheme Support

Page 2 Crop Diversification Requirements

Name: John Farmer 30/09/2015 v16
Address: Carlow

Permanent pasture: 1 hectares* * use Reference areas for all areas

Allocated Arable Area (from Basic Calculation): 0 ha -1 ha over allocated

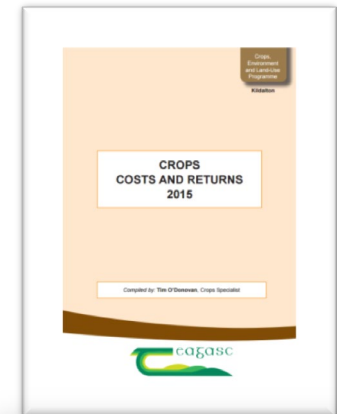
Crop	Arable Silage	hectares	% of Arable
Crop 1	Arable Silage	1	100%
Crop 2			
Crop 3			
Crop 4			
Crop 5			
Crop 6			
Crop 7			
Crop 8			
Crop 9			
Crop 10			
Total Temp Grass		0 ha	0%
Total Arable Area		1 ha	
Permanent Crops		1 ha	

Back

No Greening Required

EFA obligation? Green by Definition
Area for calculation: 0 ha

Financial & Cost Control



Solving: Greening questions

- How I approach EFAs
- Establish if farmer needs EFA (>15Ha)
- If so, how much?



2013		Current Year		Mach. Inflation		Machines with payments outstanding	
Current situation		2013		2.5%		Step 4 Additional Costs	
Total farmed area		500		Acres			
Total Tillage area		500		Acres			
Soil Type							
Machine Name		Original Cost		Year of Purchase		Original Cost @ Today's Price	
Machines with Payments Outstanding							
New Holland 1756	60,000	2006	95,095	10			
Gran Dryer	50,000	2004	62,443	25			
Baler	20,000	2009	22,076	10			
John Deere 8830	72,000	2011	76,696	5			
Bredal	25,000	2010	26,322	5			
NH TM155	38,000	2007	44,068	10			
Ford 7740	20,000	2004	24,577	20			
Valvo L70	16,000	2011	16,810	20			
Volvo L50	15,000	1994	23,980	30			
Plough	12,000	2007	13,916	20			
Oil	4,500	2000	5,203	15			
Harrow	11,500	2008	13,011	5			
Sprayer	30,000	2002	30,750	10			
Trailers	20,000	2000	27,500	25			
Roller	4,000	2008	4,526	15			
Straw Turner	2,000	2003	2,560	15			
Baler 2	13,000	2013	13,000	15			

Example of KT approach

SUD and Integrated Pest Management

- Teagasc SUD Working Group
- In-service training for Teagasc staff (webinar, etc.)
- CPE scheme for 360 Teagasc staff developed
- Specific large events
- Major focus at local event (1500 attendees)
- Newsletter: focus and specific insert
- Co-ordinated an past education data base (14,000 people)
- Crop Report – large section
- IASIS Continuous Professional Development
- Teagasc/UCD Diploma in IPM-Course development/delivery
- Member of EPA Drinking Water working group
- Activities in MCPA and other major risks to water



Example of KT/industry initiative

Aims

- Import substitution
- Increase area by 30% in Ireland

Industry

- Joint approach between IFA, Bord Bia and Teagasc
- Monitor Farm/crops
- Oak Park research

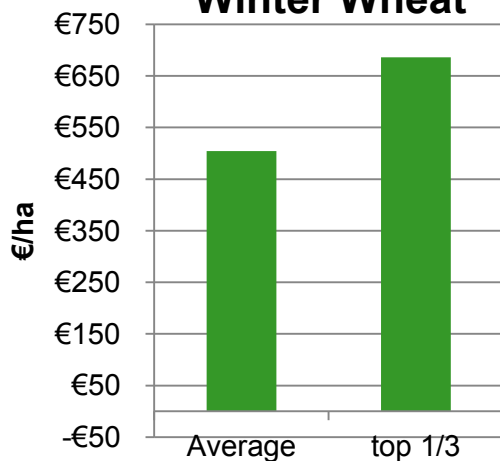
Results

- Increased area by 50%
- Increased growers by 25%
- Retail demand increased for Irish product

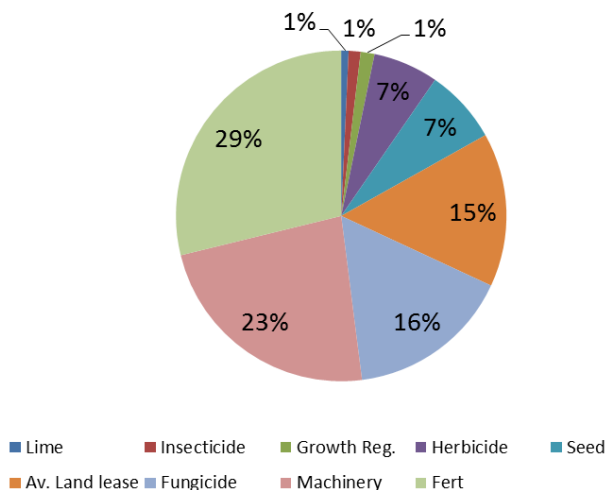


Winter Wheat Returns 2017

**Av. Net Margin Crop:-
Winter Wheat**



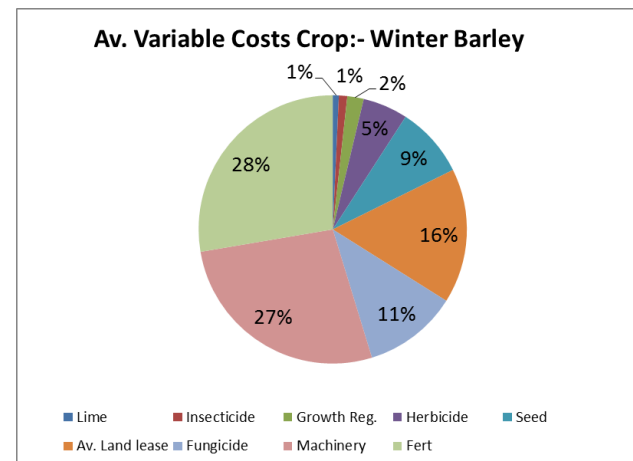
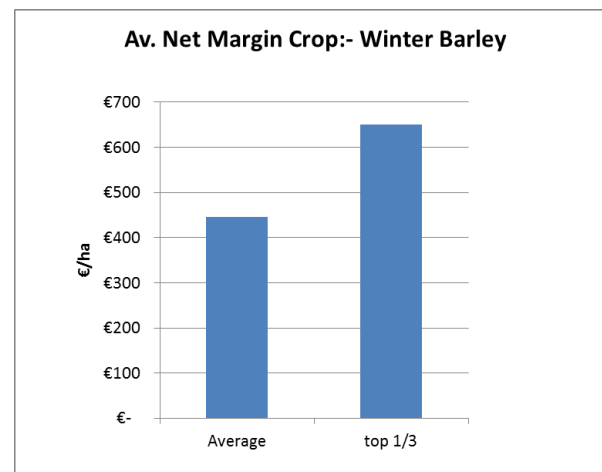
Av. Variable Costs Crop:- Winter Wheat



Crop:- Winter Wheat			
	Average	top 1/3	Top v Average
Physical			
Total No. hectares	5324		
No. Of Farms	154	51	
Tillage Adj. Ha	35	28	- 6
Yield t/Ha	10.4	11.2	+ 0.72
Financial			
Crop Sales €/tonne	€ 163	€ 164	+ 1
Gross Output /ha	€ 1,891	€2,084	+ 193
of which is straw/ha	€ 187	€ 250	+ 63
Material Costs/ha	€ 678	€ 677	- 0
Total Machinery Costs/ha	€ 253	€ 238	- 16
of which are contractor/ha	€ 137	€ 35	- 103
Other Variable Costs/ha	€ 56	€ 51	- 5
Gross Margin / Ha	€ 904	€ 1,117	+ 214
Total F. Costs / Ha	€ 399	€ 431	+ 32
Net Margin/ha	€ 504	€ 686	+ 182
Net Margin (inc DP) /ha	€ 506	€ 688	+ 182
Key Figures			
Total Costs €/ton	€ 133	€ 125	- 8
Av. Lan Lease Costs/ha	€ 164	€ 171	+ 7

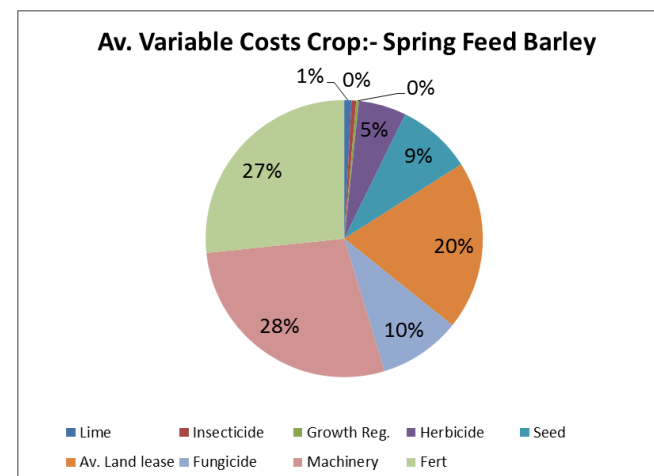
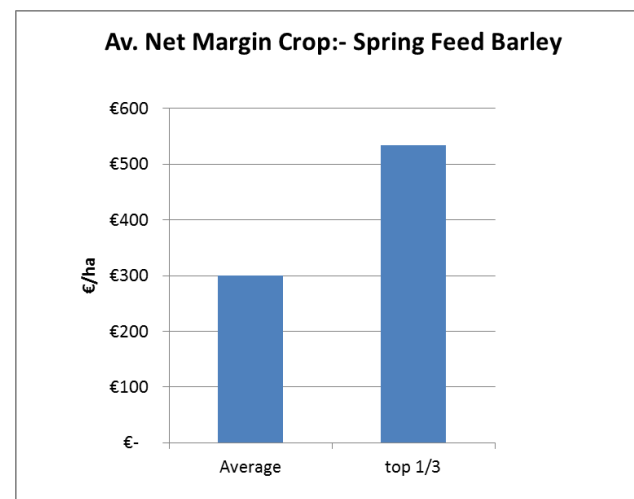
Winter Barley Returns 2017

Crop:- Winter Barley			
	Average	top 1/3	Top v Average
Physical			
Total No. hectares	6145		
No. Of Farms	225	75	
Tillage Adj. Ha	27	33	+ 5
Yield t/Ha	9.3	9.5	+ 0.23
Financial			
Crop Sales €/tonne	€ 156	€ 162	+ 6
Gross Output /ha	€ 1,737	€1,878	+ 142
<i>of which is straw/ha</i>	€ 288	€ 338	+ 51
Material Costs/ha	€ 599	€ 580	- 19
Total Machinery Costs/ha	€ 284	€ 242	- 42
<i>of which are contractor/ha</i>	€ 143	€ 50	- 93
Other Variable Costs/ha	€ 24	€ 14	- 10
Gross Margin / Ha	€ 829	€ 1,041	+ 212
Total F. Costs / Ha	€ 384	€ 391	+ 7
Net Margin/ha	€ 445	€ 650	+ 205
Net Margin (inc DP) /ha	€ 462	€ 675	+ 213
Key Figures			
Total Costs €/ton	€ 139	€ 129	- 10
Av. Lan Lease Costs/ha	€ 171	€ 166	- 5



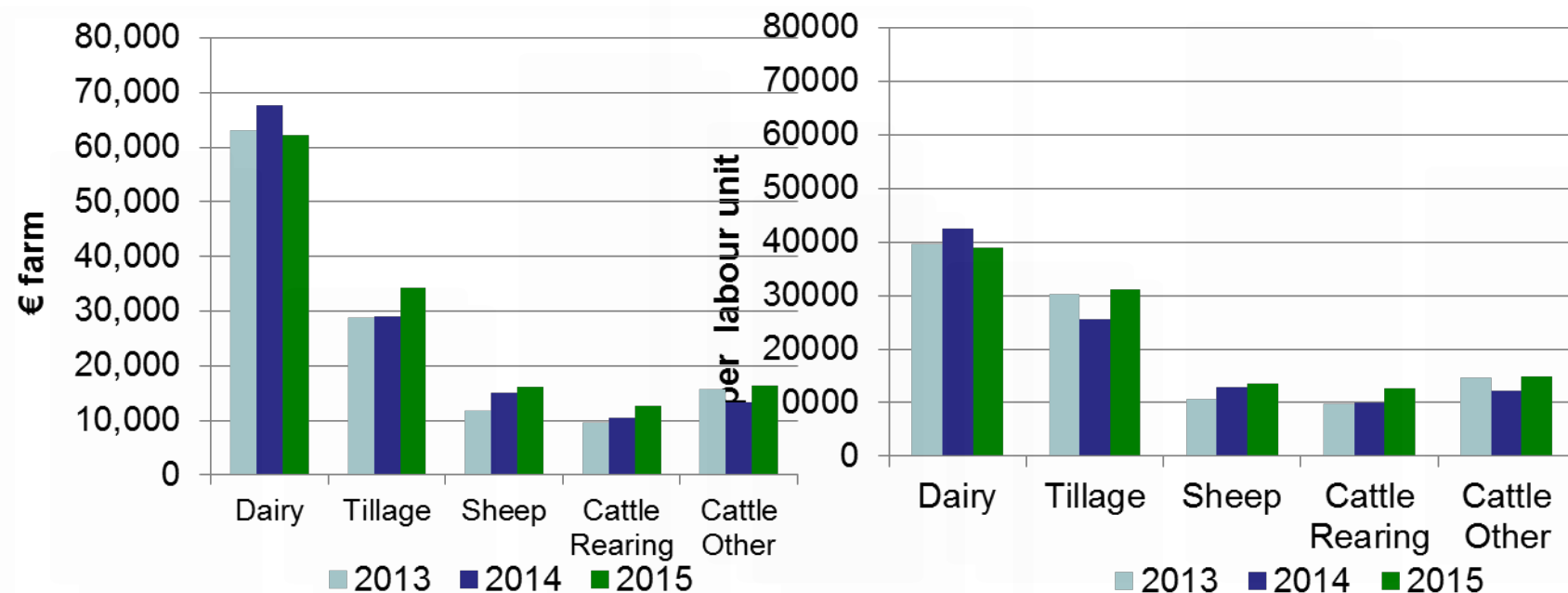
Spring Feed Barley Returns 2017

Crop:- Spring Feed Barley			
	Average	top 1/3	Top v Average
Physical			
Total No. hectares	5053		
No. Of Farms	180	60	
Tillage Adj. Ha	28	34	+ 6
Yield t/Ha	7.8	8.3	+ 0.50
Financial			
Crop Sales €/tonne	€ 153	€ 158	+ 5
Gross Output /ha	€ 1,406	€1,580	+ 174
<i>of which is straw/ha</i>	€ 215	€ 270	+ 55
Material Costs/ha	€ 477	€ 462	- 16
Total Machinery Costs/ha	€ 256	€ 227	- 29
<i>of which are contractor/ha</i>	€ 127	€ 58	- 69
Other Variable Costs/ha	€ 15	€ 4	- 11
Gross Margin / Ha	€ 657	€ 887	+ 229
Total F. Costs / Ha	€ 357	€ 353	- 4
Net Margin/ha	€ 300	€ 534	+ 234
Net Margin (inc DP) /ha	€ 304	€ 543	+ 239
Key Figures			
Total Costs €/ton	€ 142	€ 126	- 16
Av. Lan Lease Costs/ha	€ 180	€ 185	+ 5



Average income by system - per farm and per labour unit

Sector Income per labour unit : Tillage still below dairy, but differences are much reduced



Source: Teagasc, National Farm Survey

Thank You!

Questions?