Soil Analysis Status and Trends

County	Cork
Year	2015
Enterprise	All Farms
Number of Samples	4,085

teagasc
AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

Soil P Index
(Good Fertility - Index 3 & 4)

- Index 1: 26%
- Index 2: 32%
- Index 3: 24%
- Index 4: 18%

Trend in Soil P Index

Year	P Index 1	P Index 2	P Index 3	P Index 4
2007	10%	25%	32%	33%
2008	10%	21%	30%	39%
2009	12%	23%	29%	37%
2010	17%	27%	27%	29%
2011	18%	29%	28%	25%
2012	29%	28%	24%	20%
2013	21%	28%	25%	25%
2014	23%	25%	26%	25%
2015	26%	32%	24%	18%

Soil K Index
(Good Fertility - Index 3 & 4)

- Index 1: 9%
- Index 2: 37%
- Index 3: 31%
- Index 4: 24%

Trend in Soil K Index

Year	K Index 1	K Index 2	K Index 3	K Index 4
2007	8%	32%	29%	31%
2008	7%	30%	29%	34%
2009	6%	30%	33%	31%
2010	7%	38%	33%	22%
2011	6%	42%	32%	21%
2012	10%	42%	31%	17%
2013	9%	42%	30%	18%
2014	7%	40%	31%	22%
2015	9%	37%	31%	24%

Soil pH
(Good Fertility > pH6.2)

- <5.5: 24%
- 5.5-5.9: 23%
- 5.9-6.2: 18%
- 6.2-6.5: 16%
- >6.5: 18%

Trend in Soil pH

Year	<5.5	5.5-5.9	5.9-6.2	6.2-6.5	>6.5
2007	30%	26%	18%	13%	13%
2008	24%	28%	19%	14%	14%
2009	21%	27%	19%	16%	17%
2010	25%	28%	21%	14%	13%
2011	25%	23%	19%	15%	17%
2012	22%	27%	20%	16%	14%
2013	19%	26%	22%	18%	15%
2014	24%	26%	21%	16%	13%
2015	24%	23%	18%	16%	18%

Good Overall Fertility :
Soil pH > 6.2; Soil P and K Index 3 or 4

- Optimum: 13%
- 87%

Good Overall Fertility -
Soil pH > 6.2; Soil P and K Index 3 or 4

Year	Value
2007	11.7%
2008	13.9%
2009	14.4%
2010	10.3%
2011	12.4%
2012	8.7%
2013	11.4%
2014	11.7%
2015	12.8%

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AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

County	Cork
Year	2016
Enterprise	Dairy
Number of Samples	2,790

Soil P Index
(Good Fertility - Index 3 & 4)

- Index 1: 28%
- Index 2: 29%
- Index 3: 26%
- Index 4: 17%

Trend in Soil P Index

Legend: P Index 4, P Index 3, P Index 2, P Index 1

Year	P Index 4	P Index 3	P Index 2	P Index 1
2007	36%	33%	24%	8%
2008	42%	30%	19%	8%
2009	41%	28%	21%	10%
2010	30%	28%	26%	16%
2011	25%	28%	29%	18%
2012	20%	23%	28%	29%
2013	26%	25%	28%	20%
2014	24%	27%	26%	24%
2015	17%	24%	32%	27%
2016	17%	26%	29%	28%

Soil K Index
(Good Fertility - Index 3 & 4)

- Index 1: 10%
- Index 2: 40%
- Index 3: 30%
- Index 4: 20%

Trend in Soil K Index

Legend: K Index 4, K Index 3, K Index 2, K Index 1

Year	K Index 4	K Index 3	K Index 2	K Index 1
2007	32%	29%	32%	6%
2008	35%	28%	30%	6%
2009	33%	33%	28%	5%
2010	22%	32%	38%	8%
2011	19%	34%	43%	4%
2012	17%	30%	42%	10%
2013	18%	30%	43%	9%
2014	22%	30%	41%	7%
2015	24%	31%	36%	9%
2016	20%	30%	40%	10%

Soil pH
(Good Fertility > pH6.2)

- <5.5: 17%
- 5.5-5.9: 22%
- 5.9-6.2: 22%
- 6.2-6.5: 20%
- >6.5: 19%

Trend in Soil pH

Legend: >6.5, 6.2-6.5, 5.9-6.2, 5.5-5.9, <5.5

Year	>6.5	6.2-6.5	5.9-6.2	5.5-5.9	<5.5
2007	8%	11%	20%	29%	32%
2008	11%	14%	20%	30%	25%
2009	15%	16%	20%	30%	19%
2010	8%	12%	20%	31%	29%
2011	9%	15%	19%	29%	29%
2012	10%	15%	22%	29%	24%
2013	14%	18%	24%	27%	17%
2014	11%	16%	22%	27%	25%
2015	16%	16%	19%	25%	24%
2016	19%	20%	20%	22%	17%

Good Overall Fertility :
Soil pH > 6.2; Soil P and K Index 3 or 4

- Optimum: 12%
- 88%

Good Overall Fertility -
Soil pH > 6.2; Soil P and K Index 3 or 4

Year	Value
2007	9.3%
2008	12.8%
2009	14.2%
2010	8.0%
2011	8.6%
2012	6.7%
2013	10.6%
2014	10.5%
2015	11.5%
2016	12.4%

Soil Analysis Status and Trends

County	Cork
Year	2016
Enterprise	Drystock
Number of Samples	2,200

Soil P Index
(Good Fertility - Index 3 & 4)

Index	%
Index 1	30%
Index 2	29%
Index 3	25%
Index 4	16%

Trend in Soil P Index

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
P Index 4	30%	33%	31%	27%	24%	18%	22%	26%	17%	16%
P Index 3	33%	30%	30%	28%	29%	25%	24%	24%	25%	25%
P Index 2	25%	22%	24%	25%	27%	26%	26%	24%	29%	29%
P Index 1	12%	15%	15%	20%	21%	31%	27%	27%	29%	30%

Soil K Index
(Good Fertility - Index 3 & 4)

Index	%
Index 1	15%
Index 2	40%
Index 3	28%
Index 4	18%

Trend in Soil K Index

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
K Index 4	30%	33%	27%	19%	19%	16%	17%	21%	22%	18%
K Index 3	28%	29%	34%	32%	26%	31%	28%	29%	30%	28%
K Index 2	32%	30%	33%	41%	44%	45%	45%	41%	38%	40%
K Index 1	10%	8%	7%	7%	10%	9%	10%	9%	10%	15%

Soil pH
(Good Fertility > pH6.2)

pH	%
<5.5	28%
5.5-5.9	25%
5.9-6.2	17%
6.2-6.5	14%
>6.5	15%

Trend in Soil pH

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
>6.5	11%	13%	11%	9%	14%	16%	14%	11%	13%	15%
6.2-6.5	13%	13%	15%	13%	13%	16%	17%	14%	17%	14%
5.9-6.2	17%	19%	18%	18%	20%	19%	19%	20%	18%	17%
5.5-5.9	25%	29%	27%	31%	20%	25%	25%	27%	22%	25%
<5.5	34%	27%	28%	30%	33%	24%	25%	28%	30%	28%

Good Overall Fertility :
Soil pH > 6.2; Soil P and K Index 3 or 4

	%
Optimum	11%
	89%

Good Overall Fertility -
Soil pH > 6.2; Soil P and K Index 3 or 4

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
9.8%	11.3%	9.9%	8.3%	10.2%	7.8%	9.6%	9.9%	10.9%	8.1%

Soil Analysis Status and Trends

County	Cork
Year	2016
Enterprise	Tillage
Number of Samples	378

Soil P Index
(Good Fertility - Index 3 & 4)

- Index 1: 13%
- Index 2: 31%
- Index 3: 21%
- Index 4: 34%

Trend in Soil P Index

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
P Index 4	31%	34%	33%	28%	29%	24%	27%	29%	27%	34%
P Index 3	31%	28%	26%	25%	27%	28%	26%	26%	24%	21%
P Index 2	29%	28%	29%	32%	31%	31%	37%	28%	35%	31%
P Index 1	9%	9%	12%	15%	14%	17%	10%	16%	14%	13%

Soil K Index
(Good Fertility - Index 3 & 4)

- Index 1: 5%
- Index 2: 27%
- Index 3: 37%
- Index 4: 31%

Trend in Soil K Index

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
K Index 4	27%	34%	37%	27%	25%	18%	27%	24%	27%	31%
K Index 3	35%	32%	32%	36%	32%	34%	43%	39%	33%	37%
K Index 2	33%	27%	26%	33%	35%	35%	28%	32%	33%	27%
K Index 1	6%	7%	6%	4%	7%	12%	2%	4%	7%	5%

Soil pH
(Good Fertility > pH6.2)

- <5.5: 2%
- 5.5-5.9: 7%
- 5.9-6.2: 16%
- 6.2-6.5: 16%
- >6.5: 59%

Trend in Soil pH

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
>6.5	40%	43%	52%	34%	42%	36%	36%	34%	45%	59%
6.2-6.5	23%	24%	22%	23%	21%	24%	23%	23%	20%	16%
5.9-6.2	15%	13%	10%	27%	17%	18%	23%	20%	15%	16%
5.5-5.9	13%	13%	10%	12%	12%	15%	14%	18%	14%	7%
<5.5	8%	6%	6%	4%	9%	8%	4%	6%	6%	2%

Good Overall Fertility :
Soil pH > 6.2; Soil P and K Index 3 or 4

- Optimum: 20%
- 80%

Good Overall Fertility -
Soil pH > 6.2; Soil P and K Index 3 or 4

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
17.7%	21.9%	23.2%	14.9%	17.7%	15.9%	17.3%	15.0%	20.3%	23.3%