

Teagasc Heavy Soils Programme

2019: Summary of Weather Data across programme farms

2019 Monthly Rainfall summary

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Kishkeam	133.6	98.6	214.5	101.0	48.4	85.2	56.0	210.0	113.4	139.8	189.4	207.0	1596.9
Ballinagree	110.6	123.2	179.2	153.0	55.1	65.0	98.8	144.9	103.7	166.6	191.8	153.4	1545.3
Athea	120.2	80.2	204.6	58.8	63.6	82.4	73.2	161.6	154.0	117.2	161.8	142.4	1420.0
Castleisland	121.4	102.4	175.4	82.0	37.8	75.5	45.1	193.6	120.4	139.8	154.8	164.8	1413.0
Lisselton	130.1	80.6	176.8	65.2	40.6	49.4	63.2	195.3	118.8	103.8	122.2	109.2	1255.2
Stradone	43.2	63.4	167.0	79.0	44.2	110.2	45.0	179.6	143.8	99.4	137.8	94.6	1207.2
Crossmolina	56.8	108.7	189.8	93.4	52.2	64.0	53.2	173.6	91.4	128.2	112.4	80.4	1204.1
Doonbeg	74.4	79.6	150.6	58.6	40.4	42.6	43.4	178.8	110.6	108.8	120.8	111.2	1119.8
Rossmore	70.0	58.2	163.8	80.4	27.6	52.0	25.2	95.2	114.0	125.0	138.8	133.4	1083.6
Swans Cross	42.2	60.2	141.0	64.8	51.4	102.8	75.6	75.2	130.0	103.4	108.8	91.8	1047.2
Average	90.2	85.5	176.3	83.6	46.1	72.9	57.9	160.8	120.0	123.2	143.9	128.8	1289.2

2019 Totals summary

	Rainfall (mm)	Evap. (mm)	Excess (Rain- Evap.)	Long Term Average (mm)	Difference from LTA (mm)
Kishkeam	1596.9	442.7	1154.2	1621.5	-24.6
Ballinagree	1545.3	512.5	1032.8	1756.7	-211.4
Athea	1420.0	591.4	828.6	1320.2	99.8
Castleisland	1413.0	539.0	874.0	1297.6	115.4
Lisselton	1255.2	477.5	777.7	1095.3	159.9
Stradone	1207.2	433.0	774.2	1093.3	113.9
Crossmolina	1204.1	478.4	725.7	1161.5	42.6
Doonbeg	1119.8	537.7	582.1	1185.1	-65.3
Rossmore	1083.6	484.8	598.8	981.8	101.8
Swans Cross	1047.0	440.3	606.7	1078.5	-31.5
Mean	1289.2	493.7	795.5	1259.2	30.1

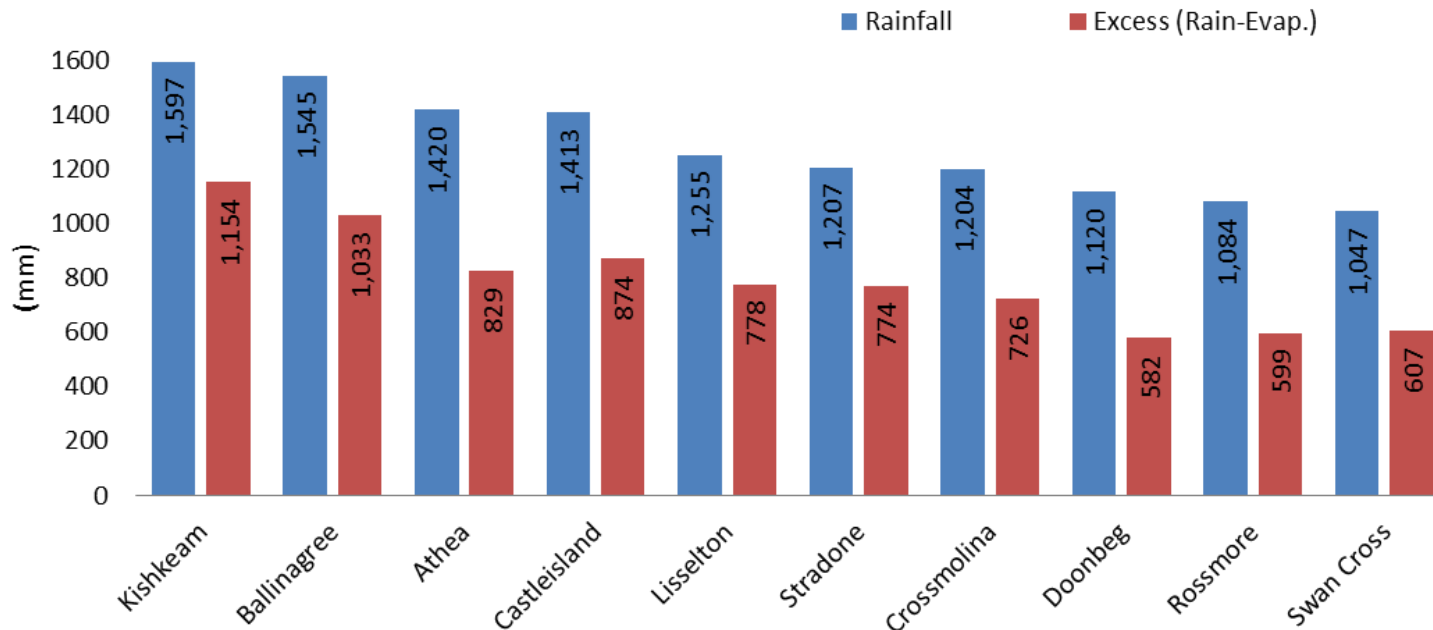
Site details

Site	Northing	Westing	Elevation (m) ASL
Kishkeam	52°12'	09°08'	233
Ballinagree	51°59'	08°56'	231
Athea	52°27'	09°19'	139
Castleisland	52°13'	09°28'	36
Stradone	53°57'	07°11'	180
Crossmolina	54°06'	09°17'	15
Doonbeg	52°44'	09°30'	9
Lisselton	52°28'	09°33'	8
Rossmore	52°36'	08°01'	105
Swans Cross	54°09'	07°02'	115

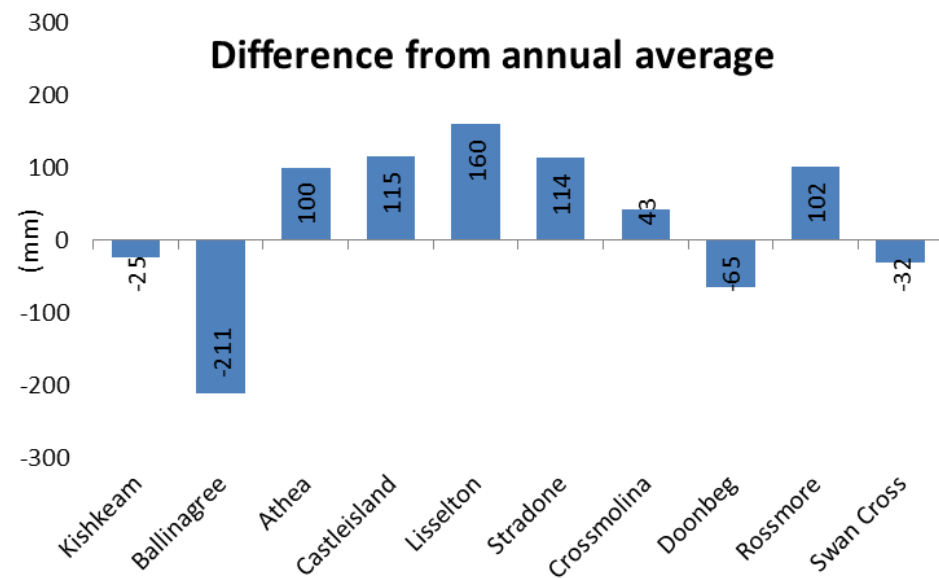
Note: ASL = above sea level

<https://www.teagasc.ie/crops/grassland/heavy-soils/weather-data/>

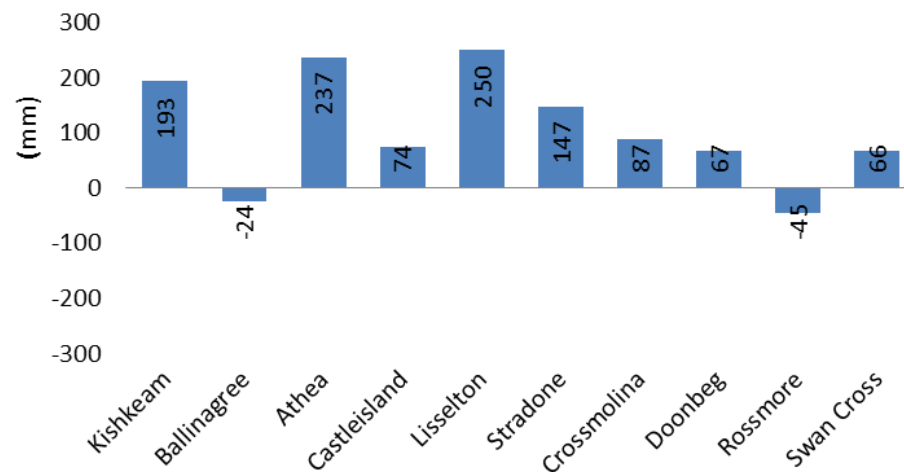
2019 Weather Summaries



Difference from annual average



Difference from 2018



Athea						
	Rain	Evap.	Air Temp.	Soil Temp.		Long Term average Rain
Jan	120.2	36.3	6.3	7.6		140.2
Feb	80.2	30.5	7.3	6.9		100.3
Mar	204.6	49.9	6.7	7.1		106.8
Apr	58.8	59.3	8.7	8.2		77.8
May	63.6	74.8	10.3	9.7		83.5
Jun	82.4	73.0	12.2	11.4		81.6
Jul	73.2	77.9	15.4	14.5		92.1
Aug	161.6	65.2	14.5	14.4		110.3
Sep	154.0	55.0	13.1	13.0		102.9
Oct	117.2	32.9	9.0	10.4		140.9
Nov	161.8	20.0	5.5	7.5		137.1
Dec	142.4	16.5	6.2	6.6		146.7
	1420.0	591.4	9.6	9.8		1320.2

Crossmolina						
	Rain	Evap.	Air Temp.	Soil Temp.		Long Term average Rain
Jan	56.8	9.1	5.0	6.0		130.8
Feb	108.7	15.1	6.5	5.7		94.8
Mar	189.8	35.0	7.8	7.3		97.7
Apr	93.4	50.8	9.6	8.5		69.7
May	52.2	73.5	10.2	11.4		70.0
Jun	64.0	72.8	11.7	13.2		70.1
Jul	53.2	69.2	16.0	14.1		69.3
Aug	173.6	55.9	15.0	14.5		83.6
Sep	91.4	45.0	13.2	13.2		94.9
Oct	128.2	29.3	9.3	10.7		132.2
Nov	112.4	12.9	6.7	7.9		124.5
Dec	80.4	9.8	6.2	6.9		123.9
	1204.1	478.4	9.8	10.0		1161.5

Doonbeg						
	Rain	Evap.	Air Temp.	Soil Temp.		Long Term average Rain
Jan	74.4	14.4	7.5	7.7		124.9
Feb	79.6	24.6	8.2	7.1		87.2
Mar	150.6	37.9	7.7	7.3		89.9
Apr	58.6	55.2	9.5	8.5		63.7
May	40.4	70.4	11.0	9.9		73.5
Jun	42.6	74.9	13.2	11.7		76.3
Jul	43.4	79.3	16.3	14.1		79.2
Aug	178.8	58.9	15.5	14.3		98.0
Sep	110.6	51.7	14.0	13.3		101.0
Oct	108.8	35.0	10.1	10.7		131.5
Nov	120.8	18.7	7.3	7.7		127.2
Dec	111.2	16.7	7.1	6.0		132.7
	1119.8	537.7	10.6	9.9		1185.1

Rossmore						
	Rain	Evap.	Air Temp.	Soil Temp.		Long Term average Rain
Jan	70.0	11.7	5.8	7.0		99.2
Feb	58.2	20.9	7.0	6.3		75.4
Mar	163.8	36.2	6.9	7.2		79.3
Apr	80.4	47.1	8.6	8.5		57.7
May	27.6	68.3	10.7	10.2		66.8
Jun	52.0	67.3	12.7	12.3		71.1
Jul	25.2	73.1	16.2	14.7		64.1
Aug	95.2	59.9	15.0	14.9		82.7
Sep	114.0	47.7	13.0	13.4		77.7
Oct	125.0	28.2	8.7	10.2		112.2
Nov	138.8	12.8	6.2	6.9		95.5
Dec	133.4	11.6	5.6	5.8		100.1
	1083.6	484.8	9.7	9.8		981.8

Ballinagree						
	Rain	Evap.	Air Temp.	Soil Temp.		Long Term average Rain
Jan	110.6	9.2	5.6	7.1		199.5
Feb	123.2	13.7	6.2	6.4		154.1
Mar	179.2	31.1	6.1	6.5		151.2
Apr	153.0	44.3	7.6	7.2		113.6
May	55.1	81.0	9.6	8.5		114.8
Jun	65.0	79.4	12.5	13.3		98.2
Jul	98.8	87.6	16.0	16.6		106.2
Aug	144.9	67.7	15.2	15.0		119.7
Sep	103.7	47.0	13.6	13.5		132.9
Oct	166.6	28.9	8.7	10.4		197.3
Nov	191.8	13.8	5.9	7.6		183.1
Dec	153.4	8.9	5.5	6.8		186.1
	1545.3	512.5	9.4	9.9		1756.7

Lisselton						
	Rain	Evap.	Air Temp.	Soil Temp.		Long Term average Rain
Jan	130.1	13.1	6.8	6.2		117.5
Feb	80.6	23.1	8.6	7.3		85.8
Mar	176.8	35.2	7.4	7.9		85.9
Apr	65.2	51.7	9.7	9.7		64.8
May	40.6	62.9	11.0	11.0		66.0
Jun	49.4	66.1	13.0	9.3		69.6
Jul	63.2	69.9	16.4	15.2		70.2
Aug	195.3	57.9	15.4	15.1		86.2
Sep	118.8	46.0	13.8	13.9		88.5
Oct	103.8	29.2	9.7	10.9		120.8
Nov	122.2	13.4	7.1	8.0		118.0
Dec	109.2	8.9	7.0	6.9		122.0
	1255.2	477.5	10.5	10.1		1095.3

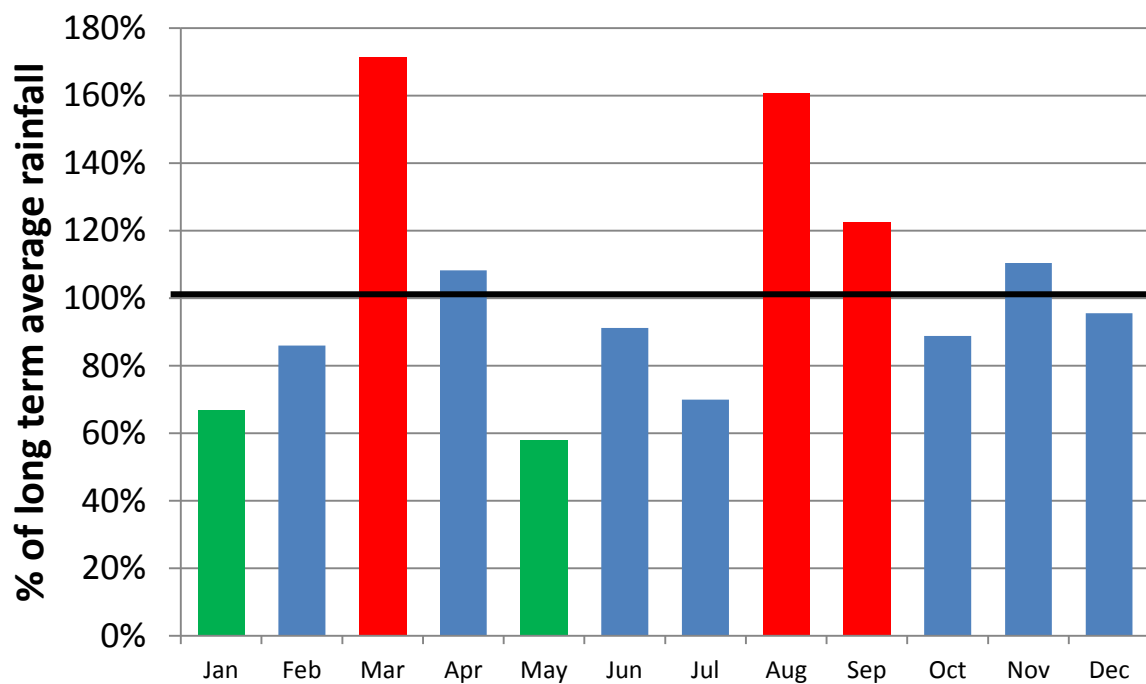
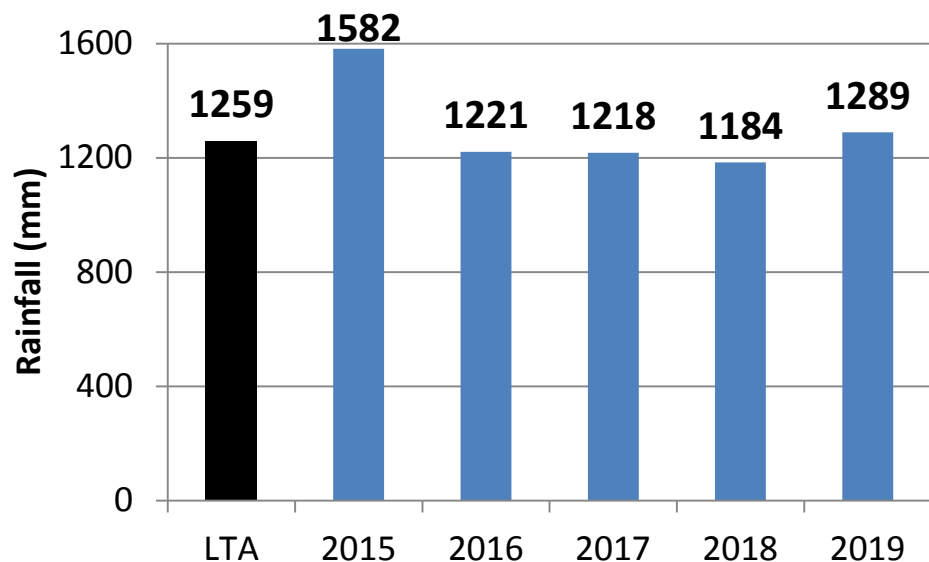
Kishkeam						
	Rain	Evap.	Air Temp.	Soil Temp.		Long Term average Rain
Jan	133.6	12.0	6.5	6.3		185.0
Feb	98.6	18.8	7.7	6.5		138.5
Mar	214.5	37.4	7.5	7.0		136.9
Apr	101.0	45.7	8.2	8.0		101.0
May	48.4	59.9	10.1	9.5		93.4
Jun	85.2	59.3	11.9	11.5		95.3
Jul	56.0	65.7	15.4	14.7		98.8
Aug	210.0	53.0	14.0	14.3		117.9
Sep	113.4	44.5	12.9	12.8		118.2
Oct	139.8	24.5	9.0	9.6		179.4
Nov	189.4	12.7	6.2	6.2		174.6
Dec	207.0	9.2	6.0	5.4		182.5
	1596.9	442.7	9.6	9.3		1621.5

Castleisland						
	Rain	Evap.	Air Temp.	Soil Temp.		Long Term average Rain
Jan	121.4	11.1	7.1	7.9		142.0
Feb	102.4	25.8	8.2	7.3		108.1
Mar	175.4	34.2	7.4	8.0		103.9
Apr	82.0	54.5	9.6	9.9		80.0
May	37.8	65.9	10.9	12.1		78.5
Jun	75.5	86.8	13.6	13.5		78.9
Jul	45.1	96.3	16.8	17.3		81.7
Aug	193.6	55.0	15.2	15.5		100.6
Sep	120.4	46.1	13.7	14.3		100.0
Oct	139.8	32.8	9.7	11.1		146.5
Nov	154.8	15.1	6.9	7.5		135.8
Dec	164.8	15.45679	6.7	5.6		141.6
	1413.0	539.0	10.5	10.8		1297.6

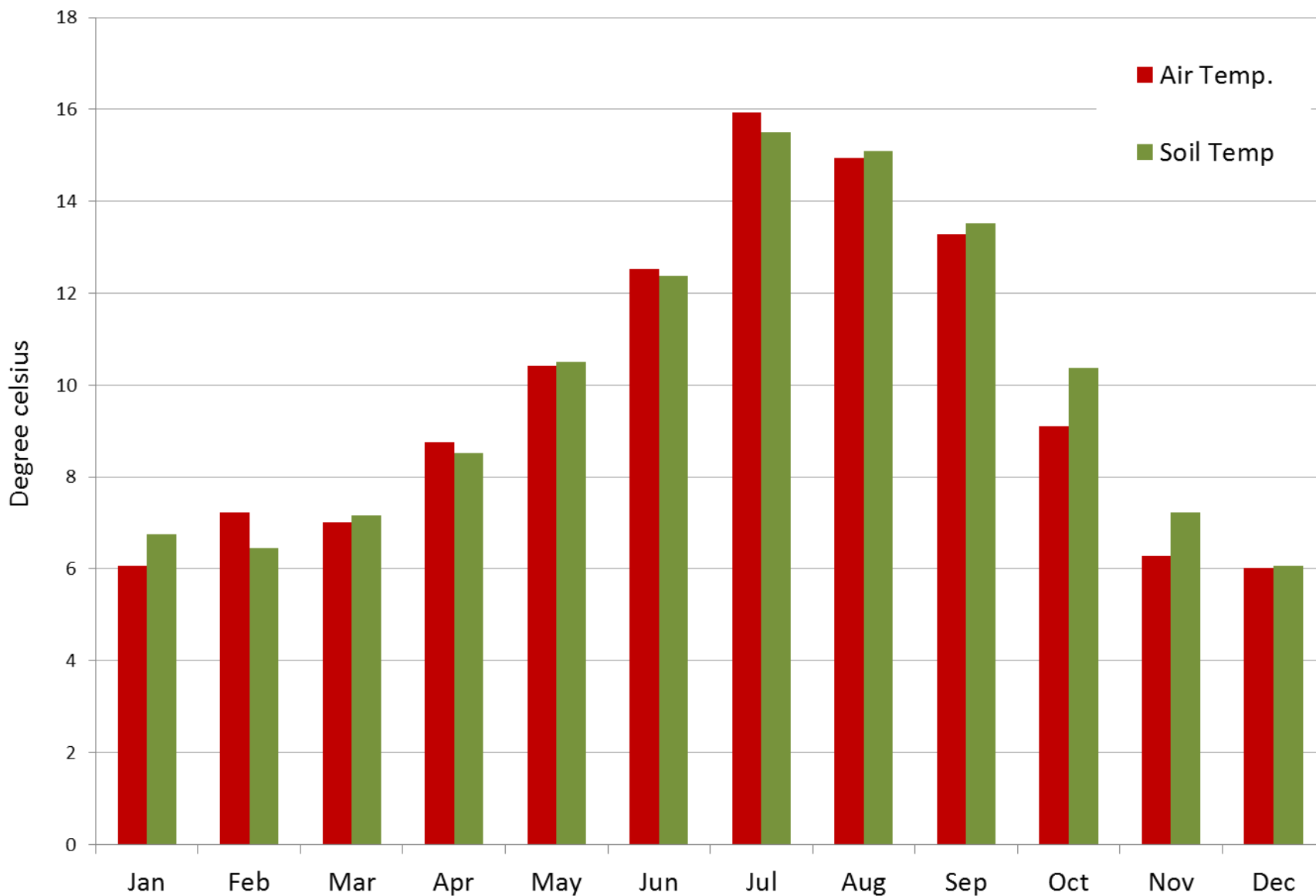
Stradone						
	Rain	Evap.	Air Temp.	Soil Temp.		Long Term average Rain
Jan	43.2	8.4	4.8	5.3		106.2
Feb	63.4	18.0	6.1	5.3		74.9
Mar	167.0	28.0	6.0	6.6		87.2
Apr	79.0	44.0	7.7	8.5		73.1
May	44.2	60.6	10.0	12.2		78.7
Jun	110.2	62.0	12.0	14.5		80.4
Jul	45.0	69.3	15.3	17.8		81.2
Aug	179.6	56.5	14.5	17.1		99.6
Sep	143.8	43.7	12.5	14.2		83.0
Oct	99.4	25.2	8.1	9.4		115.5
Nov	137.8	10.0	5.4	6.2		104.5
Dec	94.6	7.2	4.8	4.9		109.0
	1207.2	433.0	8.9	10.2		1093.3

Swan Cross						
	Rain	Evap.	Air Temp.	Soil Temp.		Long Term average Rain
Jan	42.2	9.3	5.3	6.5		103.8
Feb	60.2	19.1	6.5	5.9		76.0
Mar	141.0	28.0	6.4	6.7		89.5
Apr	64.8	43.5	8.2	8.2		71.3
May	51.4	58.8	10.2	10.5		72.4
Jun	102.8	64.1	12.7	13.1		78.2
Jul	75.6	69.0	15.7	15.9		84.4
Aug	75.2	59.3	15.1	15.7		102.6
Sep	130.0	43.8	12.9	13.7		82.0
Oct	103.4	26.3	8.4	10.1		111.7
Nov	108.8	11.3	5.7	6.9		102.2
Dec	91.8	7.7	5.2	5.8		104.4
	1047.2	440.3	9.4	9.9		1078.5

2019 Weather

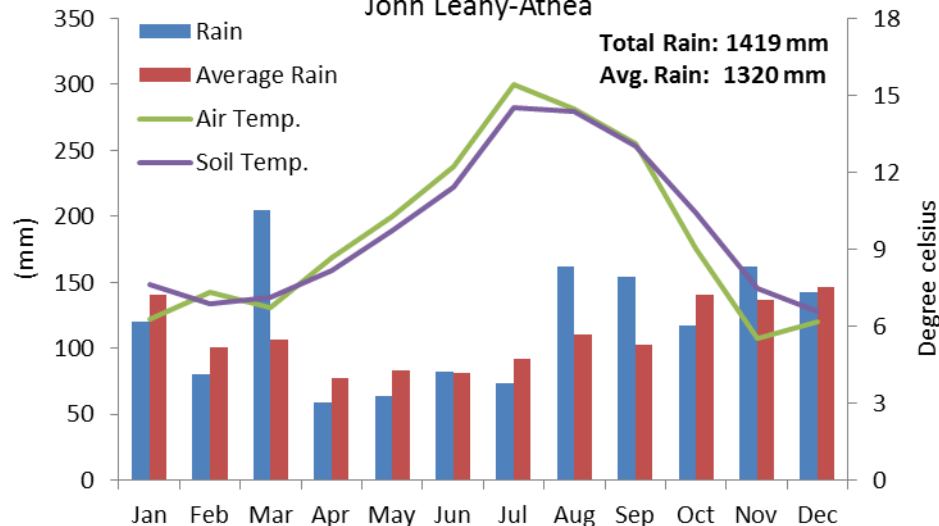


Air & Soil Temperature

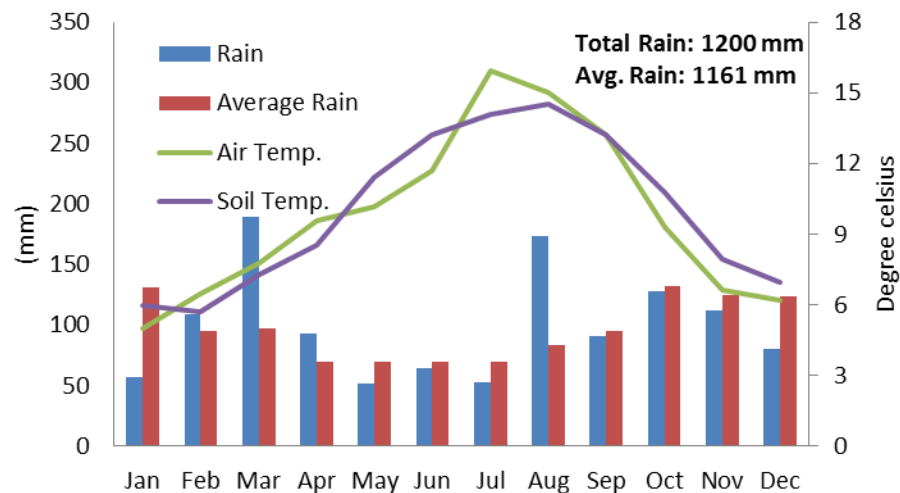


2019 Weather Summaries

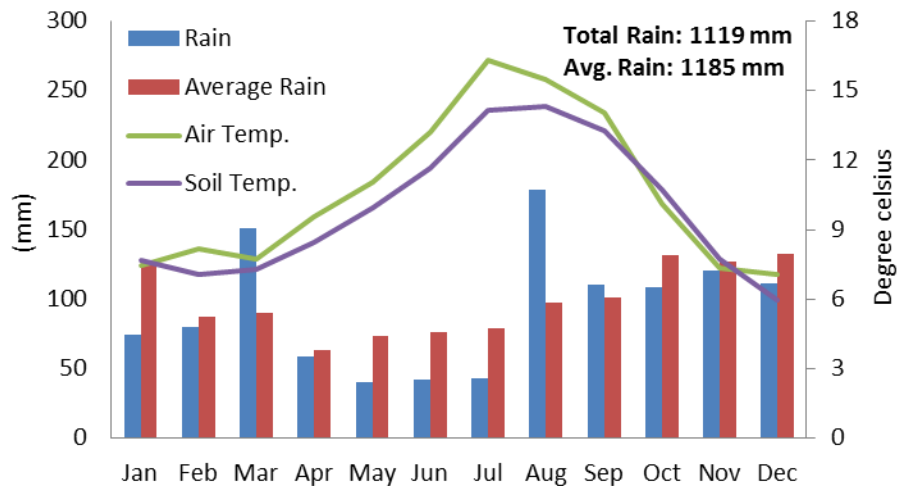
John Leahy-Athea



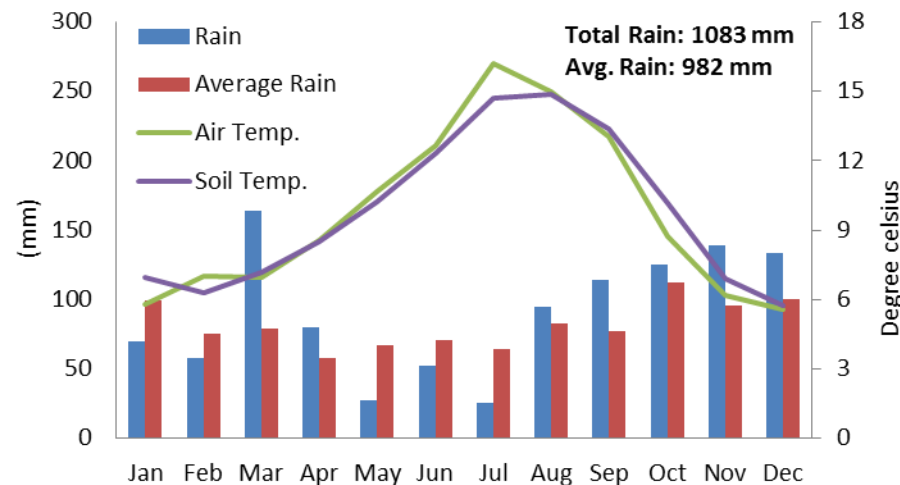
Alan Wood-Crossmolina



Danny Bermingham-Doonbeg

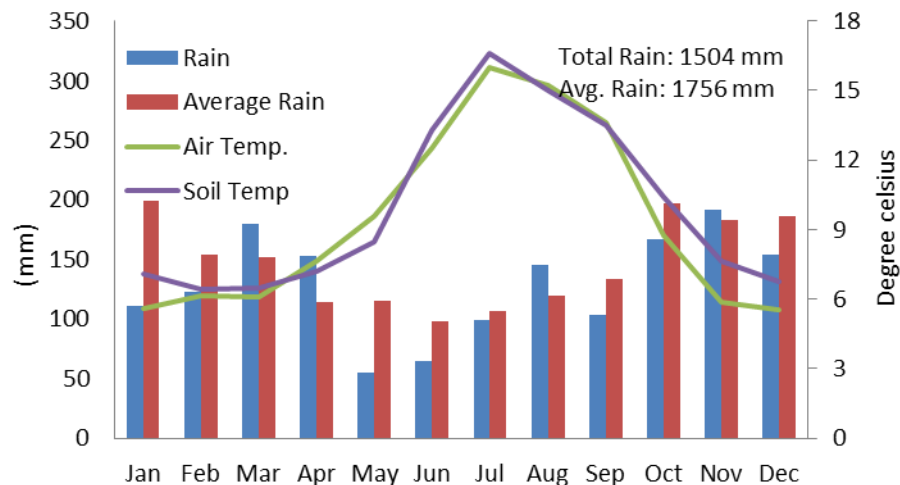


TJ Ryan-Rossmore

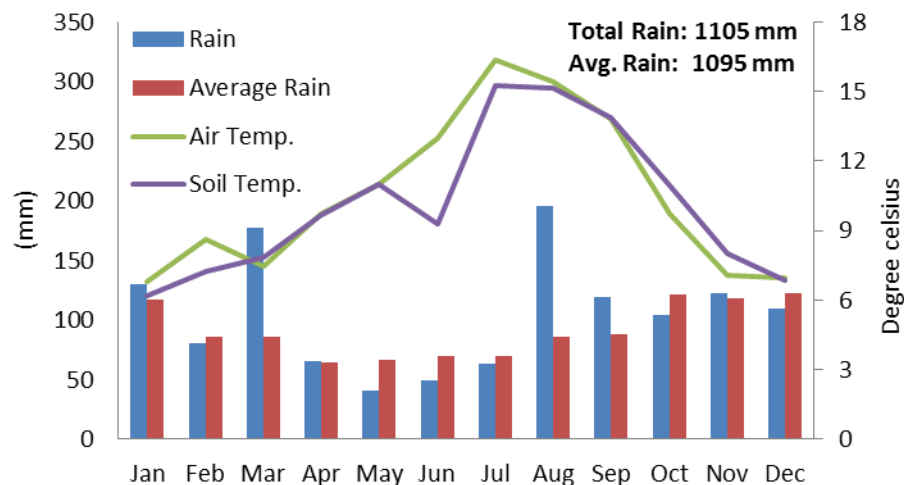


2019 Weather Summaries

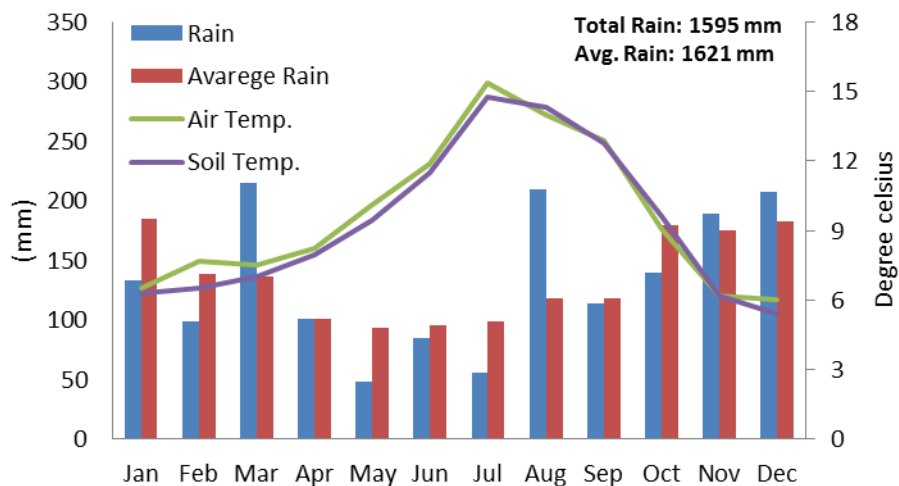
Con Lehane-Ballinagree



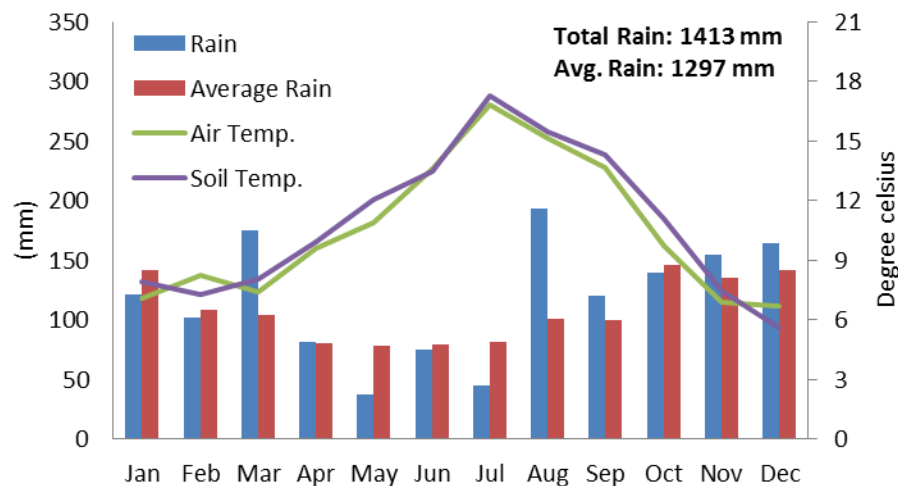
Donal Keane-Lisselton



Sean O'Riordan-Kishkeam

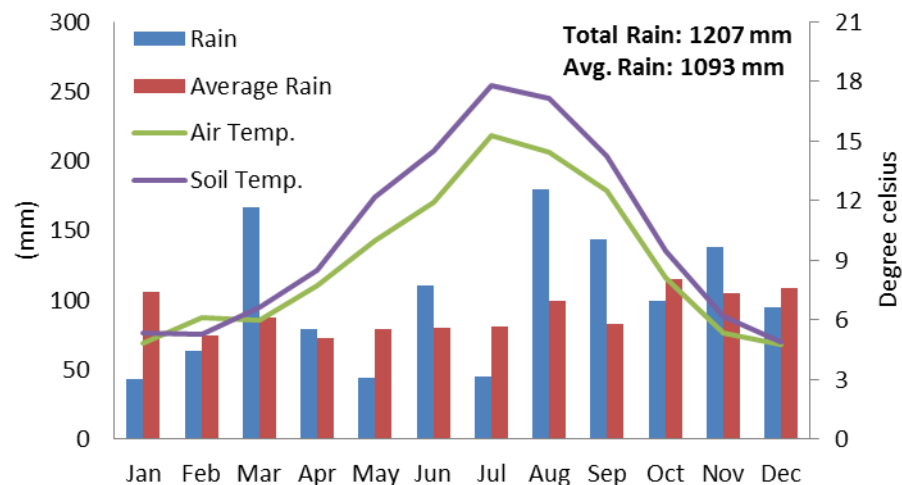


John O'Sullivan-Castleisland



2019 Weather Summaries

David Brady-Stradone



James McMahon-Swan Cross

