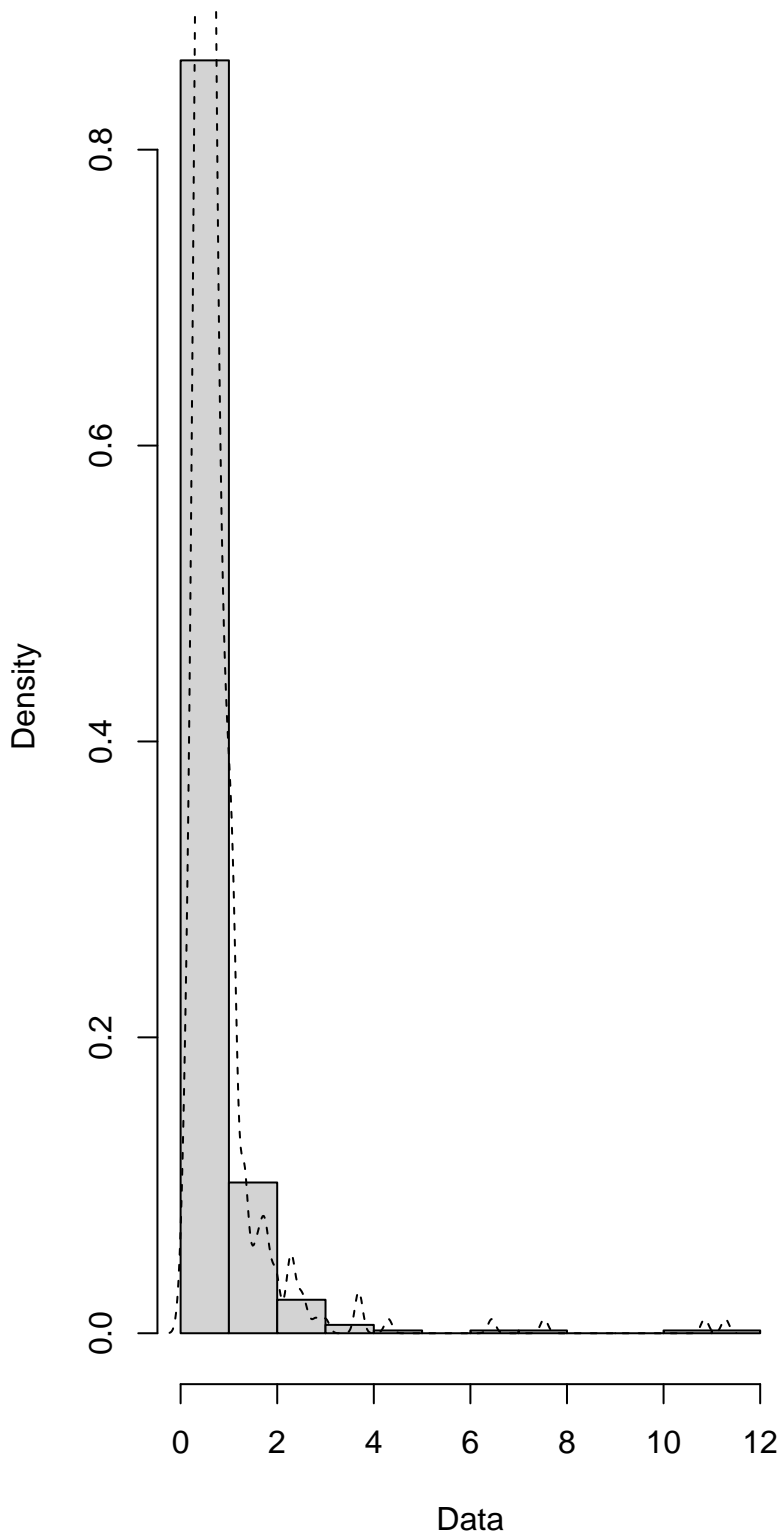


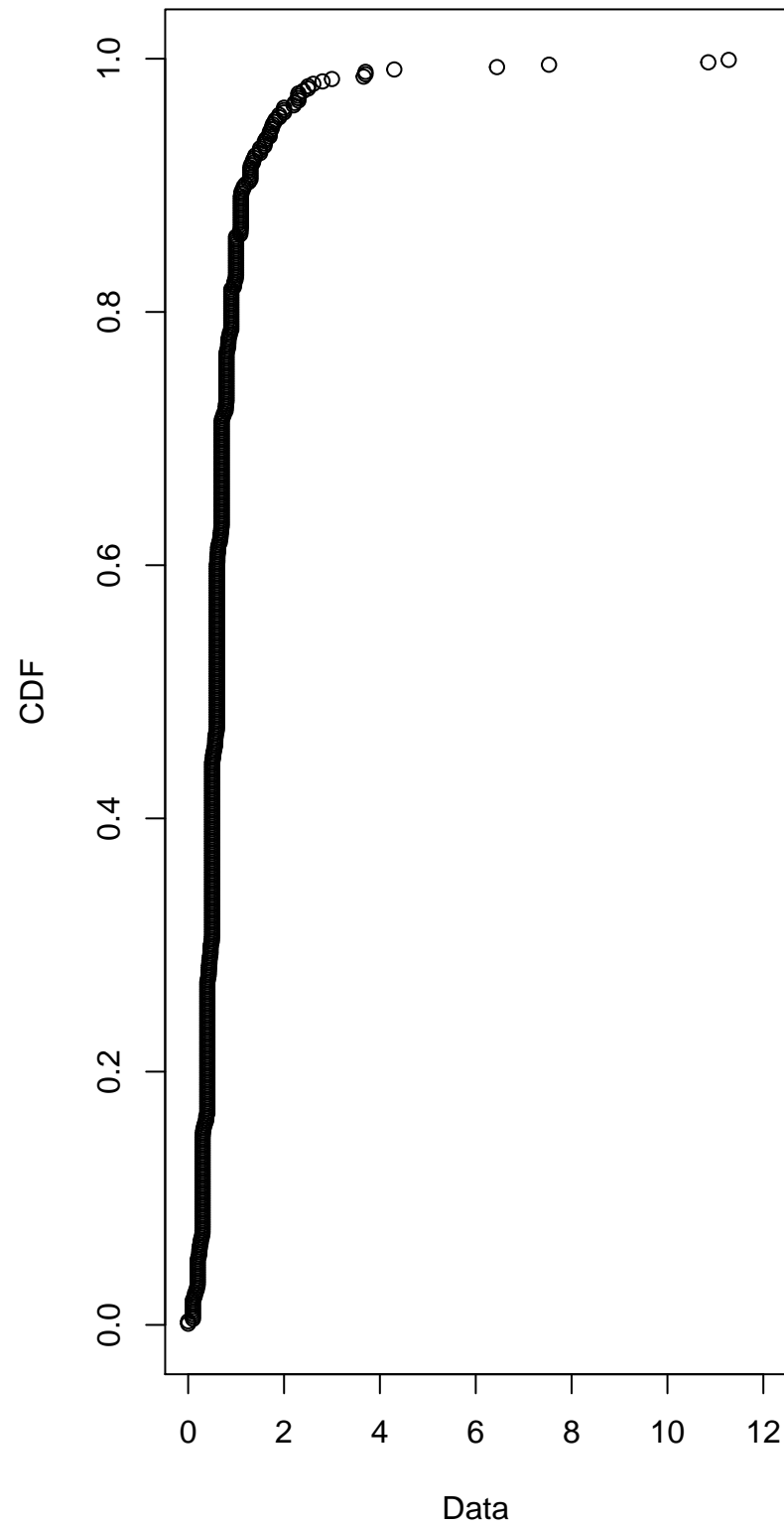
# Summary of the variable

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
0.0000	0.4000	0.6000	0.7613	0.8000	11.2774	85

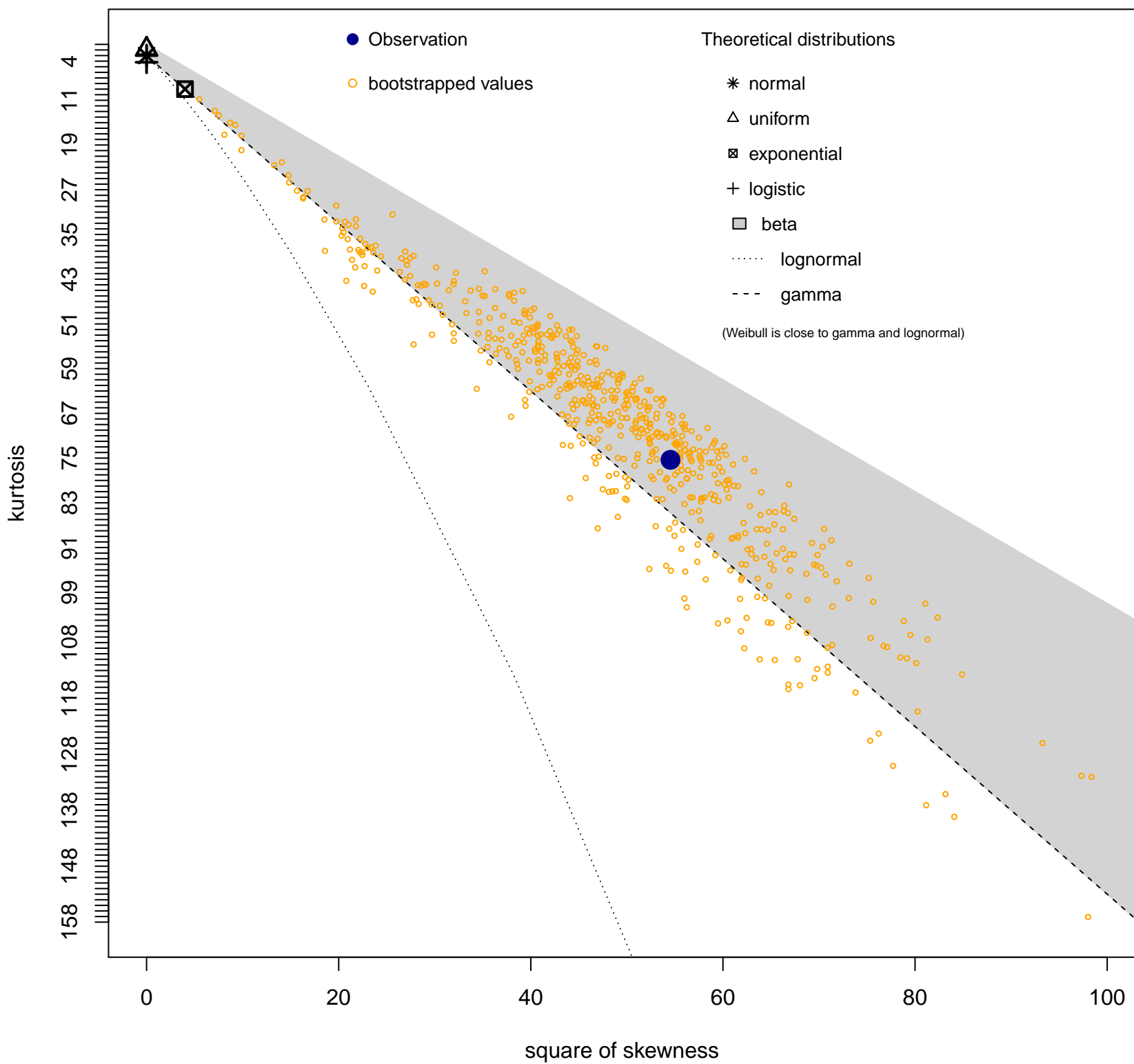
**Empirical density**



**Cumulative distribution**



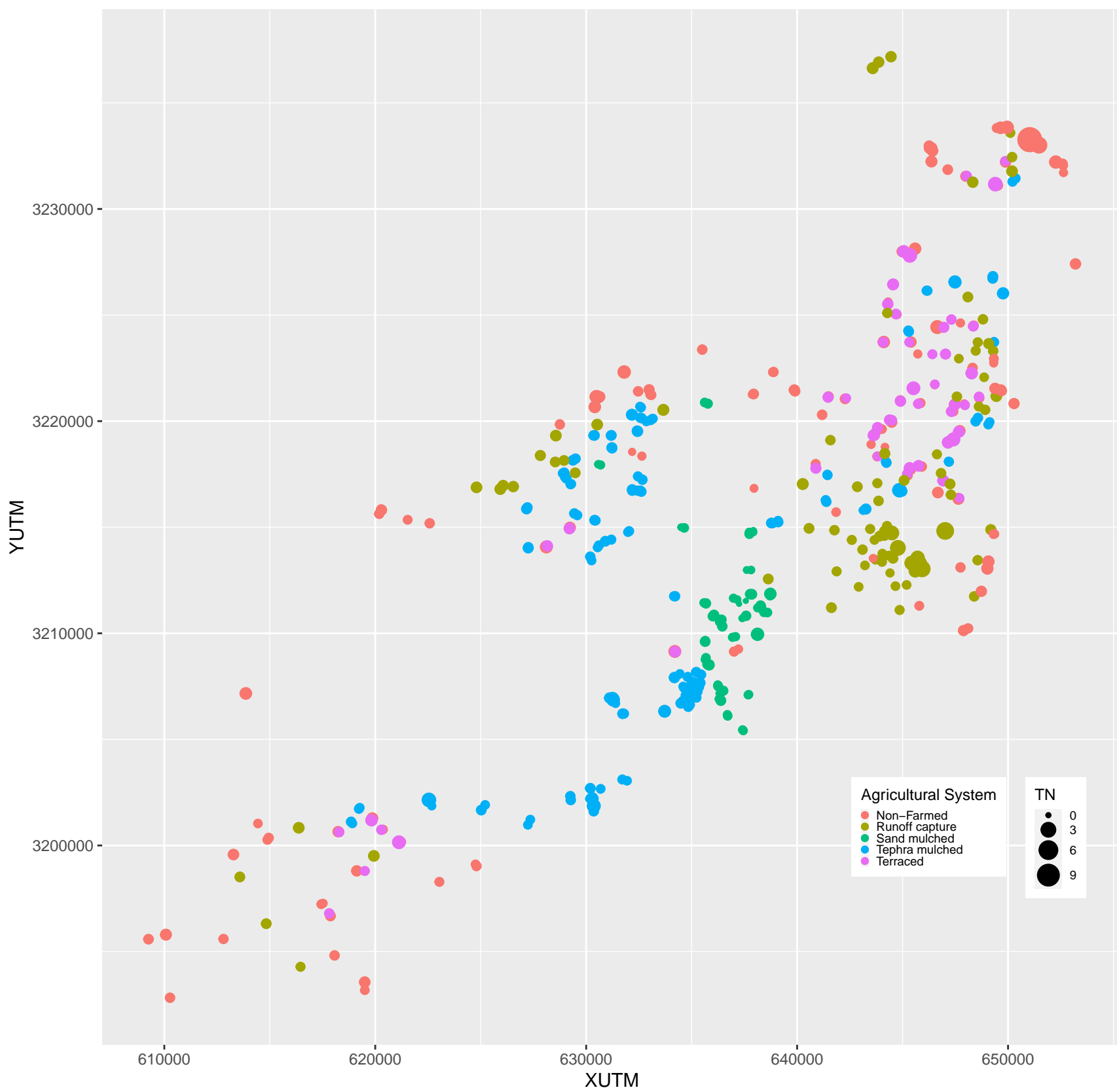
# Cullen and Frey graph



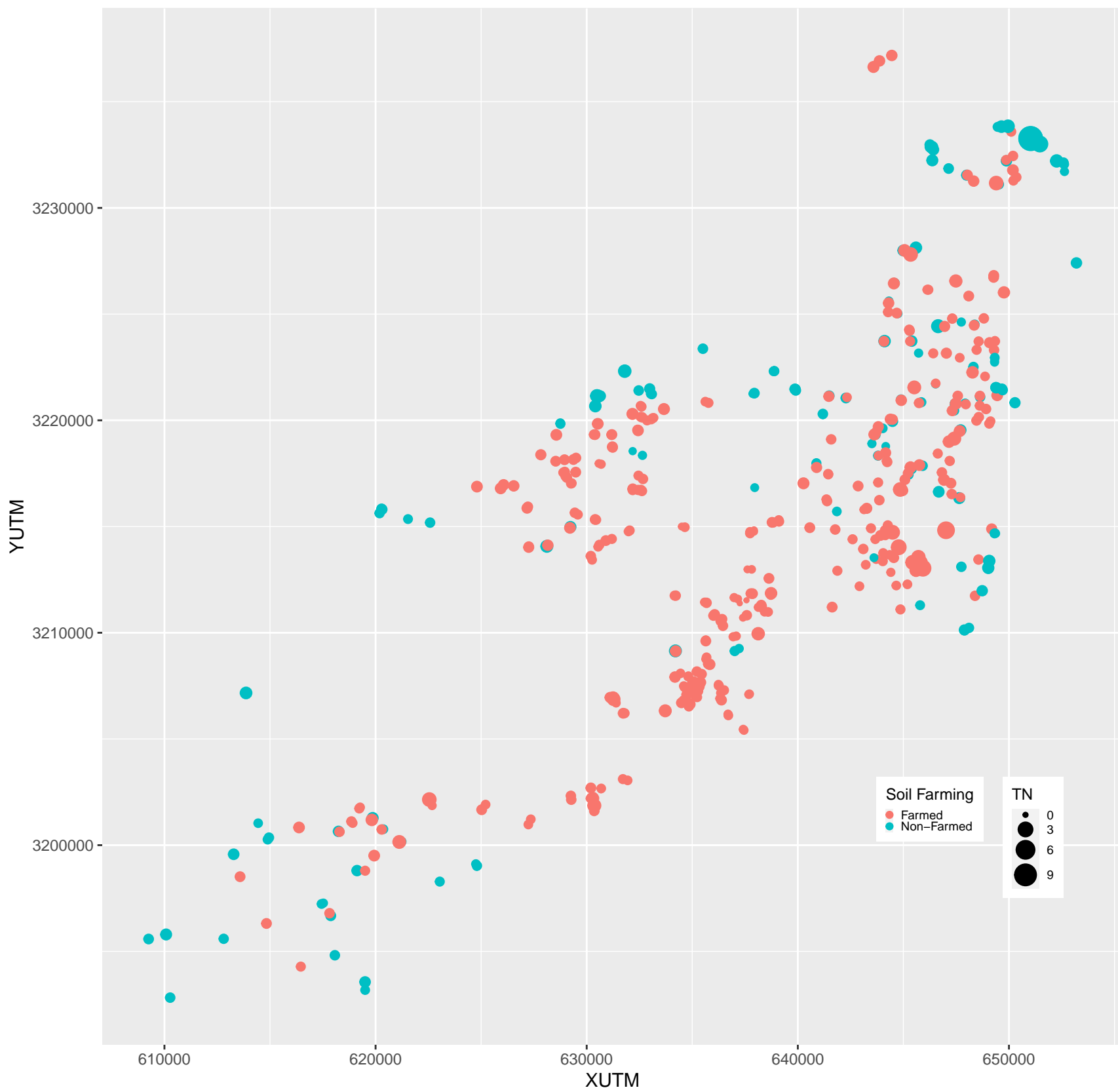
# Shapiro–Wilk test for normality

Shapiro–Wilk normality test
data: dataframe[, variable_chr]
W = 0.428, p-value < 2.2e-16

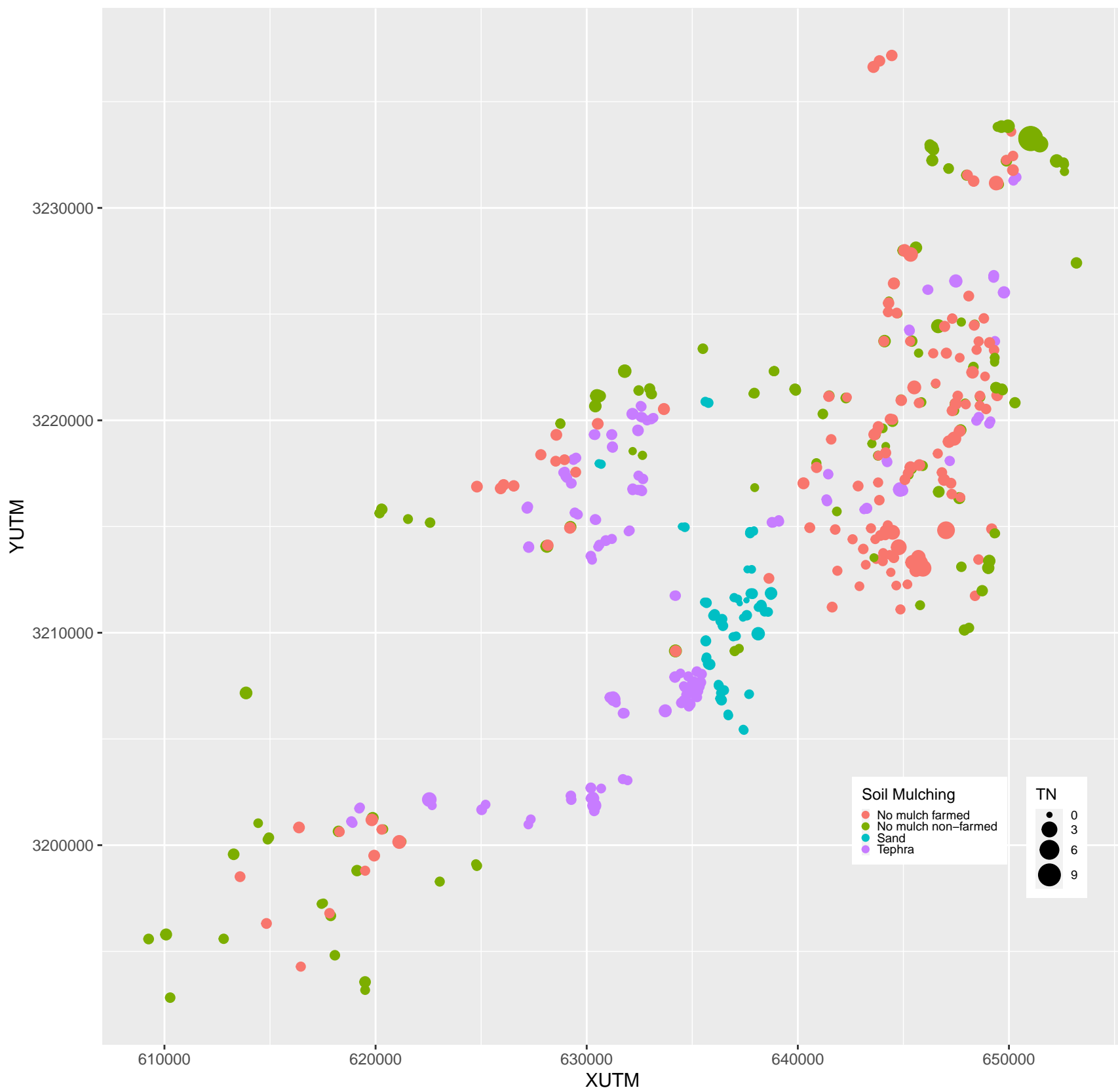
TN according to location and Agricultural System



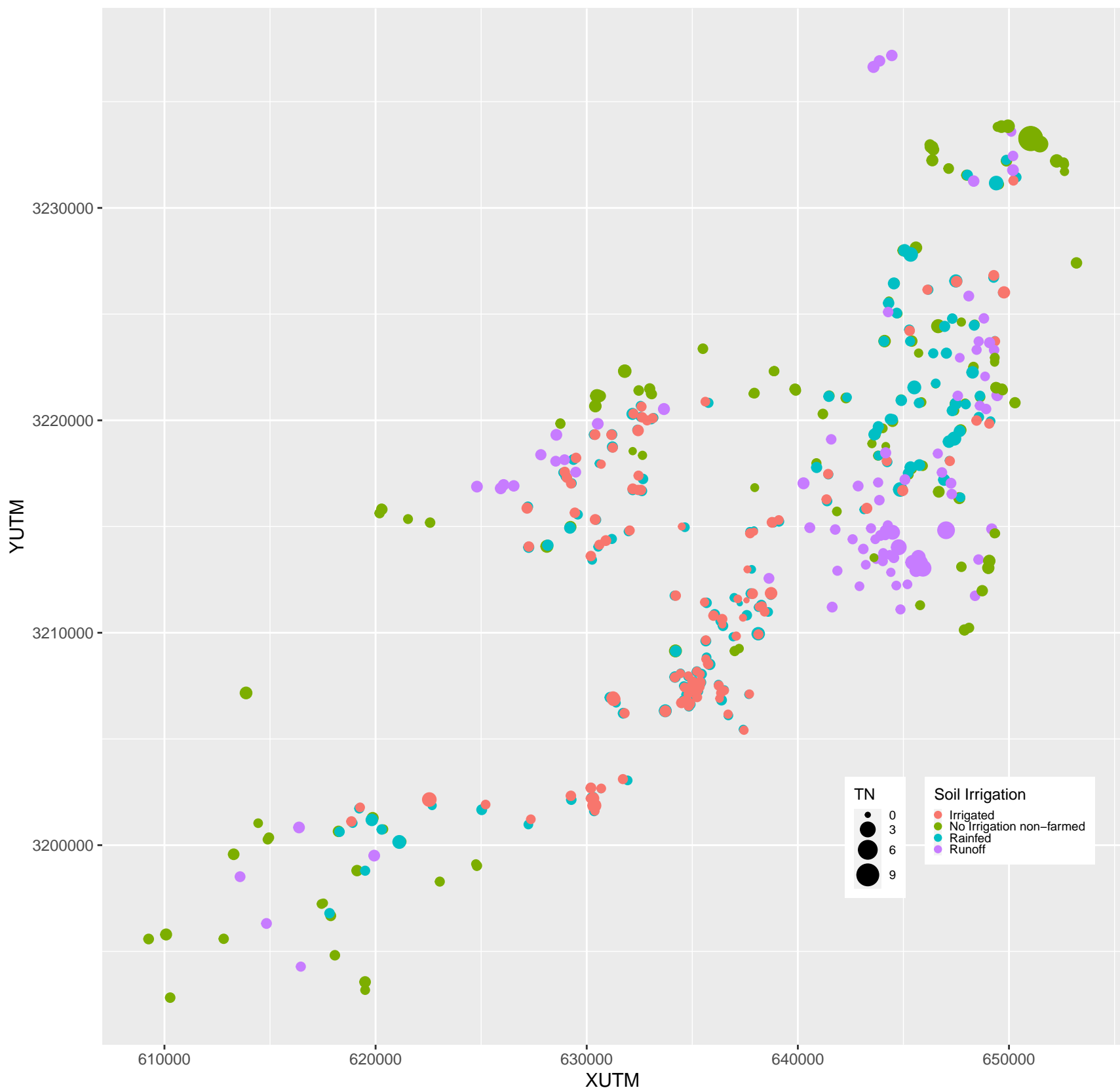
TN according to location and Soil Farming



TN according to location and Soil Mulching

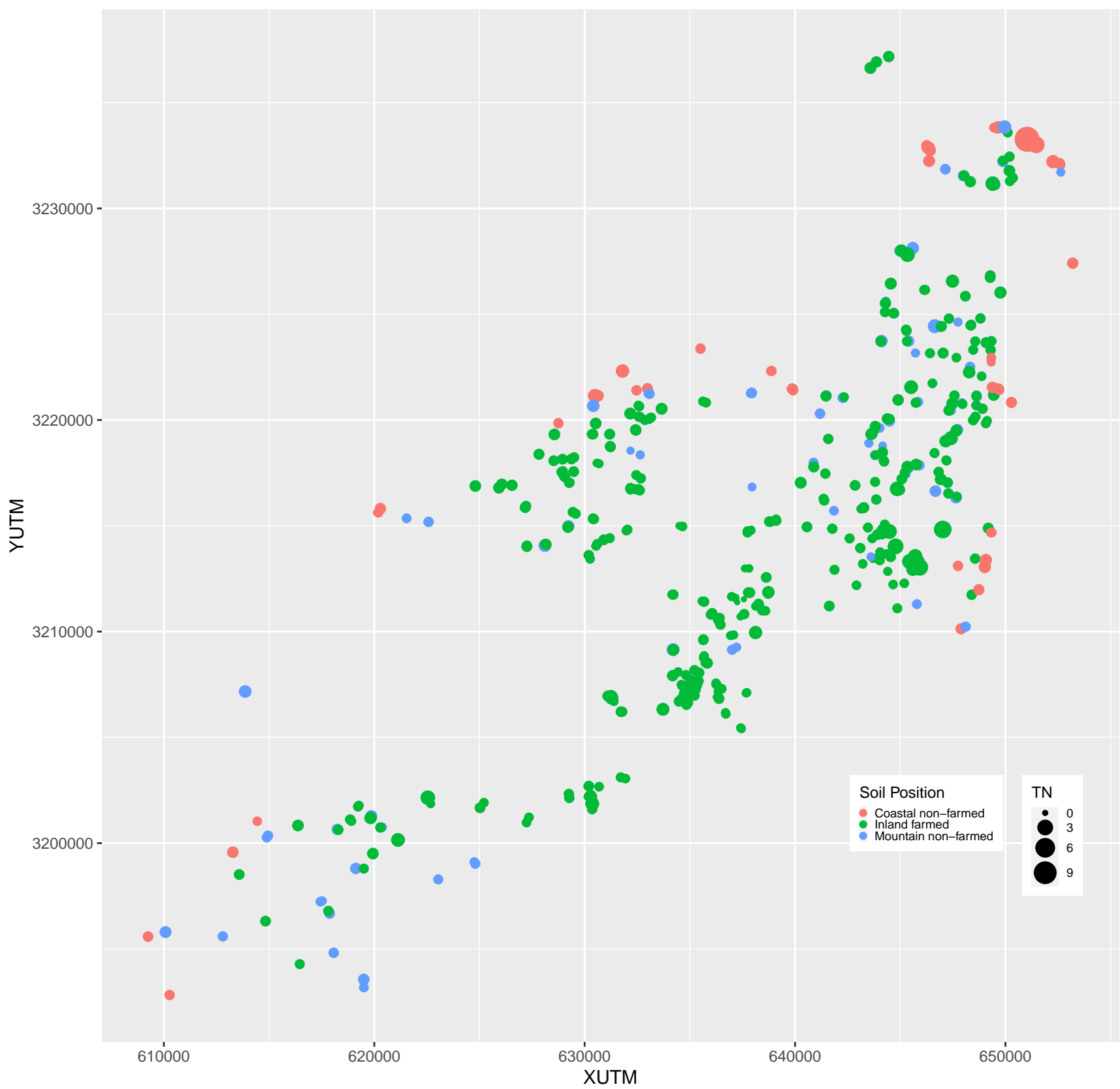


TN according to location and Soil Irrigation

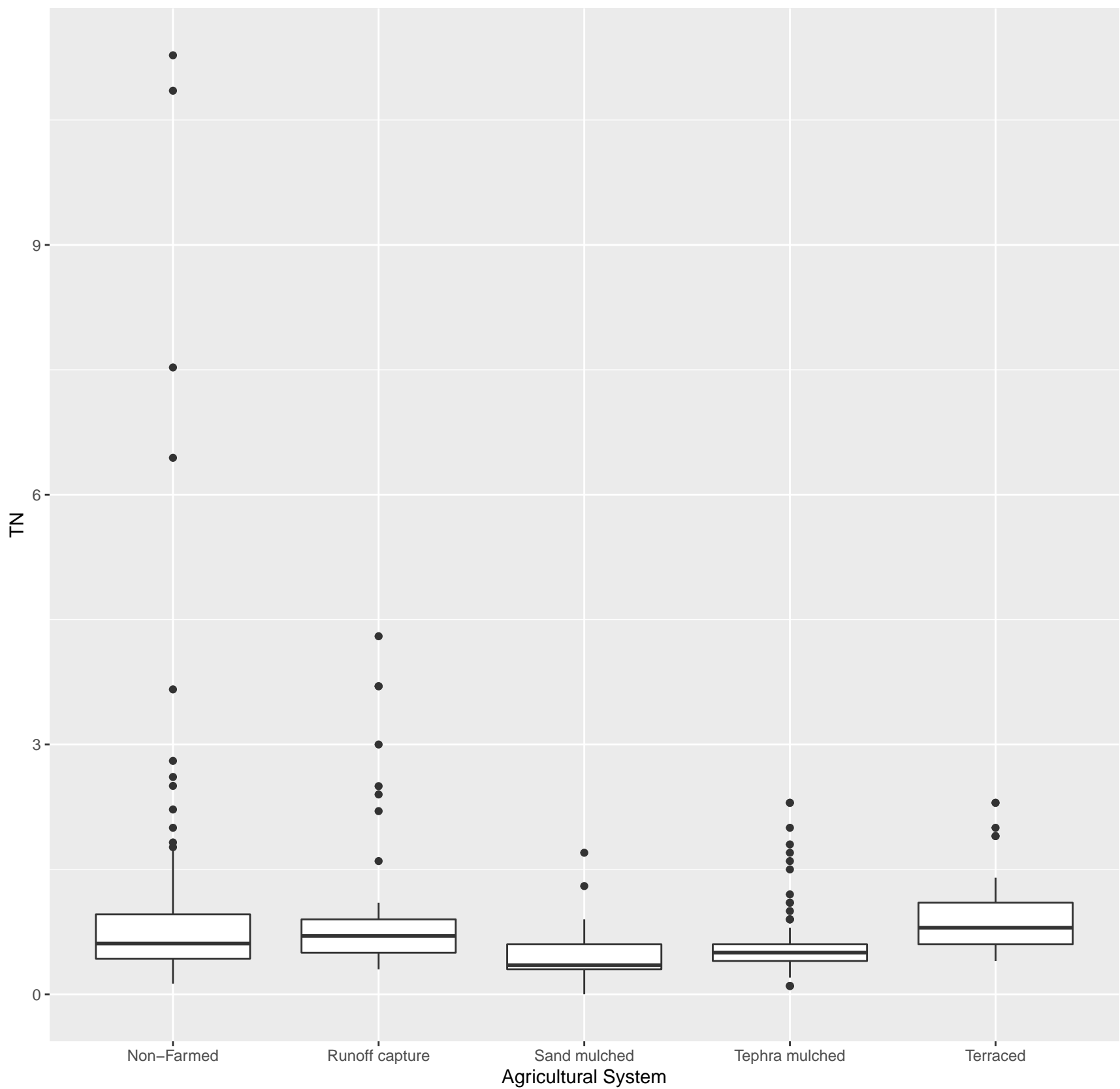




TN according to location and Soil Position



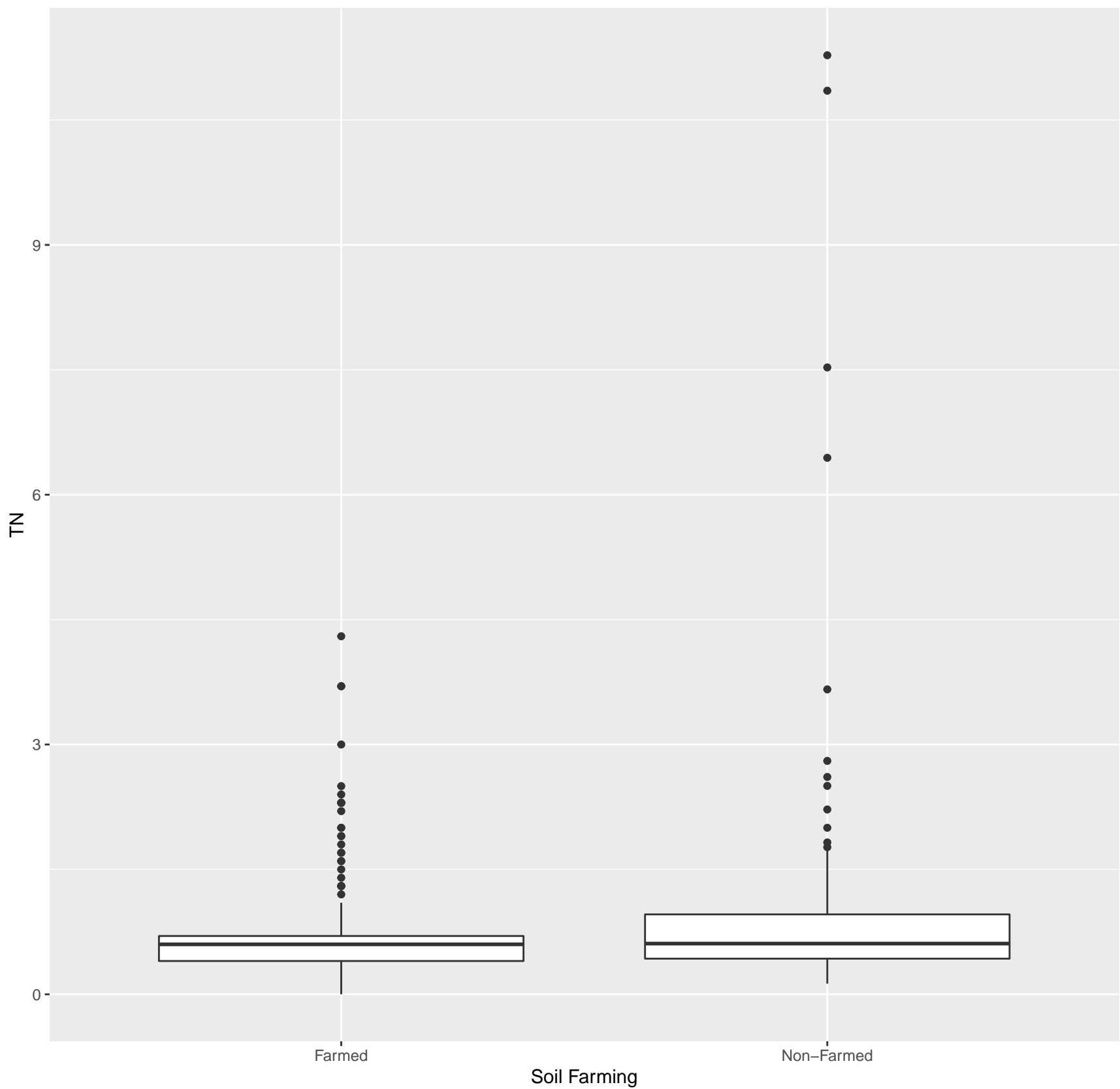
TN to Agricultural System



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	TN	Non-Farmed	Runoff capture	177	83	6597.0	1.85e-01	1.85e-01	ns
2	TN	Non-Farmed	Sand mulched	177	60	7880.5	2.09e-08	1.46e-07	****
3	TN	Non-Farmed	Tephra mulched	177	160	16819.0	3.00e-03	1.10e-02	*
4	TN	Non-Farmed	Terraced	177	50	3248.0	4.00e-03	1.20e-02	*
5	TN	Runoff capture	Sand mulched	83	60	4104.5	2.95e-11	2.66e-10	****
6	TN	Runoff capture	Tephra mulched	83	160	9016.0	3.63e-06	2.17e-05	****
7	TN	Runoff capture	Terraced	83	50	1615.0	3.20e-02	6.30e-02	ns
8	TN	Sand mulched	Tephra mulched	60	160	2875.0	3.61e-06	2.17e-05	****
9	TN	Sand mulched	Terraced	60	50	370.0	9.31e-12	9.31e-11	****
10	TN	Tephra mulched	Terraced	160	50	1833.0	5.10e-09	4.08e-08	****

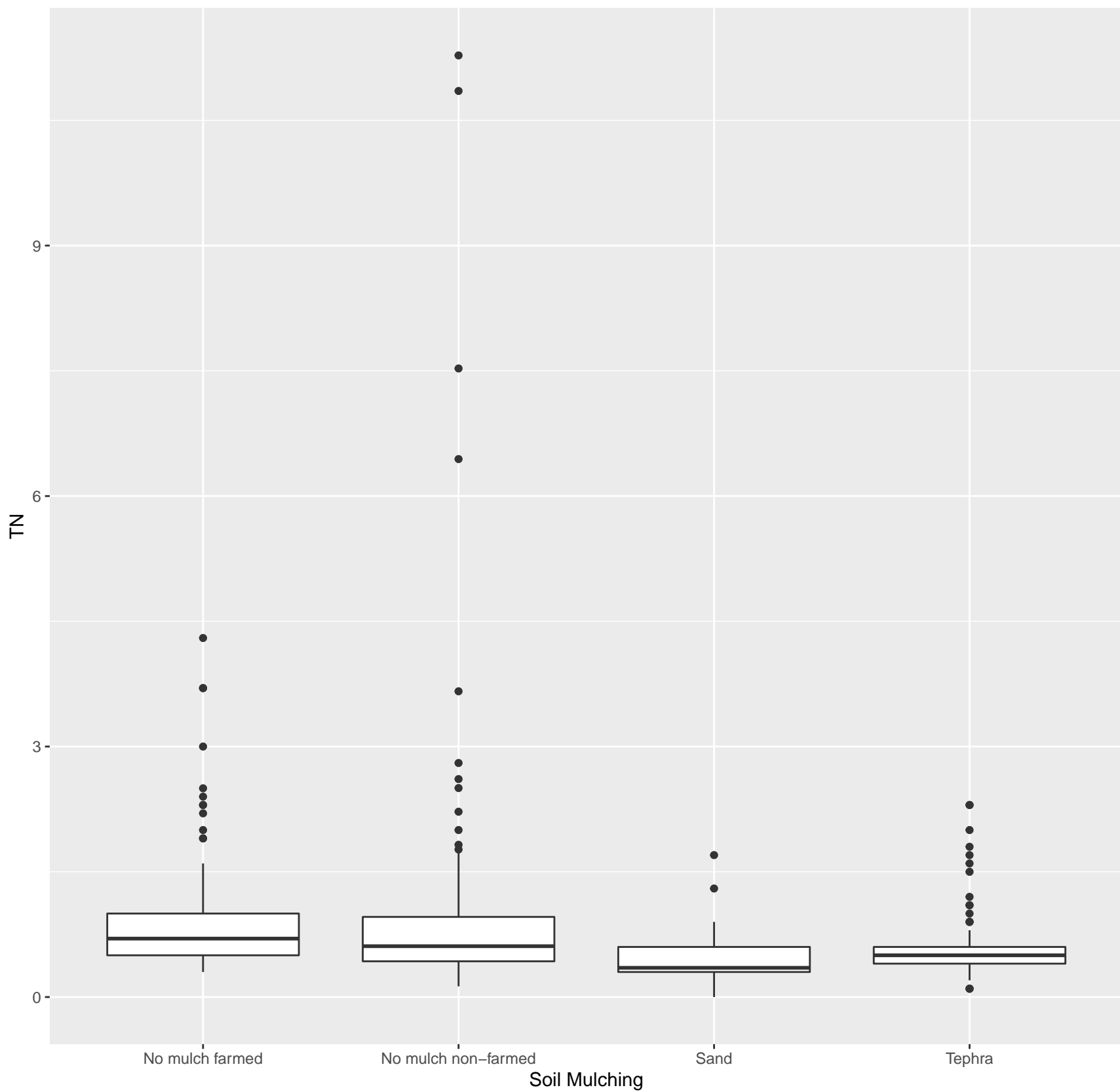
TN to Soil Farming



# Wilcoxon test for mean comparison

	<b>.y.</b>	<b>group1</b>	<b>group2</b>	<b>n1</b>	<b>n2</b>	<b>statistic</b>	<b>p</b>
1	TN	Farmed	Non-Farmed	353	177	27936.5	0.0462

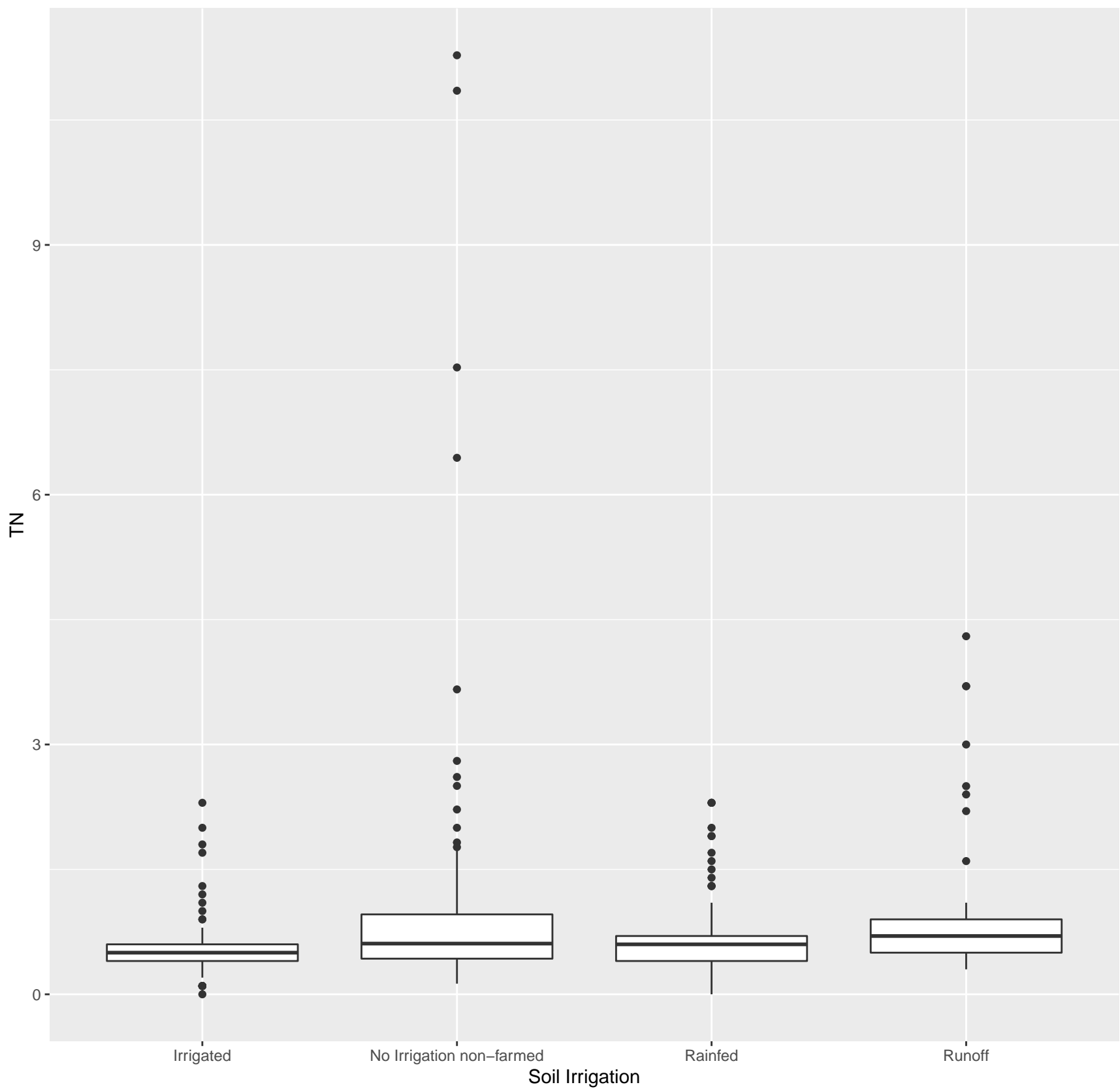
TN to Soil Mulching



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	TN	No mulch farmed	No mulch non-farmed	133	177	13696.0	1.40e-02	1.40e-02	*
2	TN	No mulch farmed	Sand	133	60	6734.5	1.55e-14	9.30e-14	****
3	TN	No mulch farmed	Tephra	133	160	15183.0	2.04e-10	1.02e-09	****
4	TN	No mulch non-farmed	Sand	177	60	7880.5	2.09e-08	8.36e-08	****
5	TN	No mulch non-farmed	Tephra	177	160	16819.0	3.00e-03	6.00e-03	**
6	TN	Sand	Tephra	60	160	2875.0	3.61e-06	1.08e-05	****

TN to Soil Irrigation

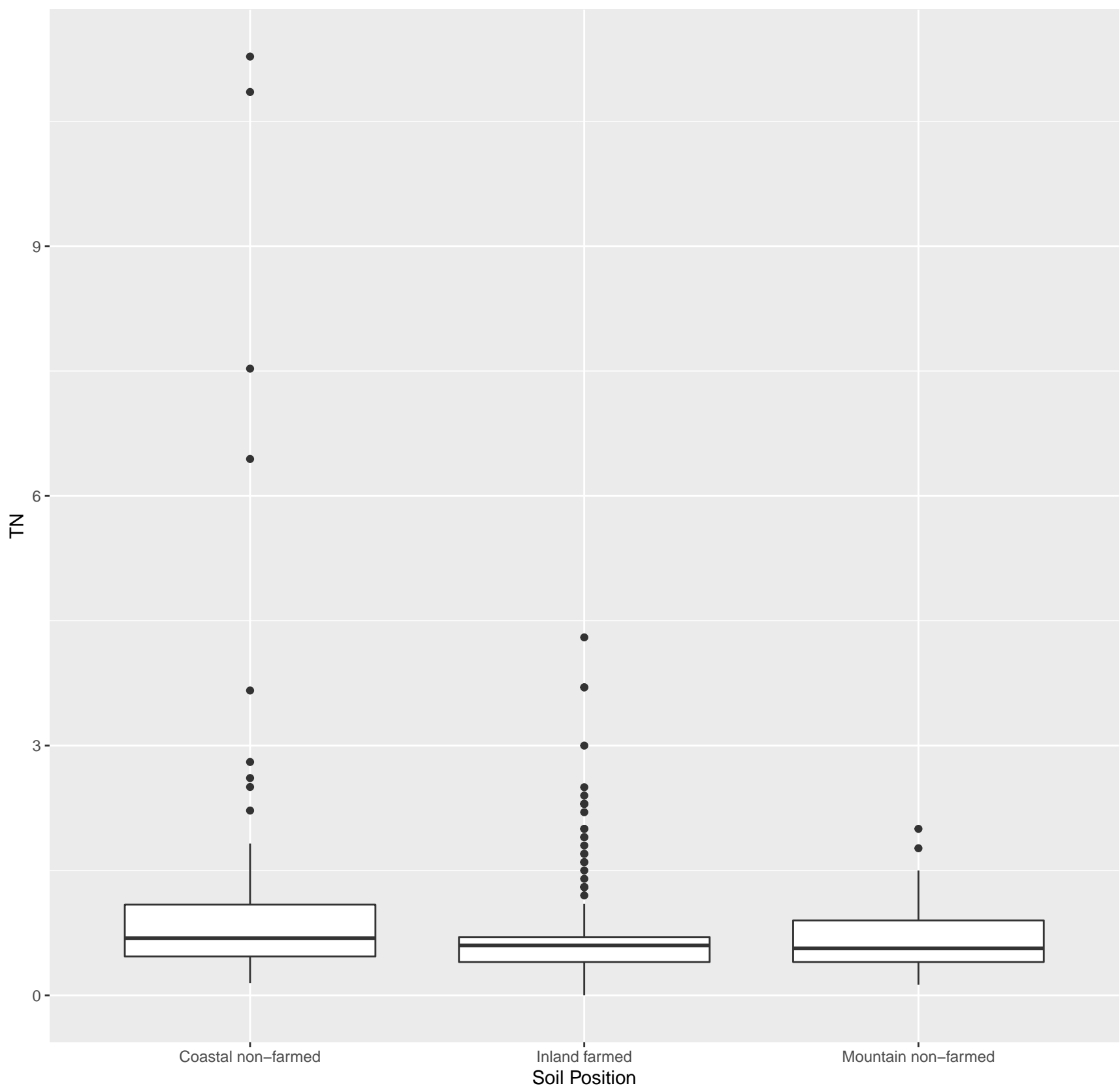




# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	TN	Irrigated	No Irrigation non-farmed	110	177	7280.5	3.24e-04	2.00e-03	**
2	TN	Irrigated	Rainfed	110	160	7390.0	2.40e-02	7.20e-02	ns
3	TN	Irrigated	Runoff	110	83	2667.5	6.03e-07	3.62e-06	****
4	TN	No Irrigation non-farmed	Rainfed	177	160	15758.0	7.30e-02	1.46e-01	ns
5	TN	No Irrigation non-farmed	Runoff	177	83	6597.0	1.85e-01	1.85e-01	ns
6	TN	Rainfed	Runoff	160	83	5007.0	2.00e-03	6.00e-03	**

TN to Soil Position



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	TN	Coastal non-farmed	Inland farmed	91	353	19587.0	0.001	0.004	**
2	TN	Coastal non-farmed	Mountain non-farmed	91	86	4718.0	0.018	0.036	*
3	TN	Inland farmed	Mountain non-farmed	353	86	15400.5	0.833	0.833	ns