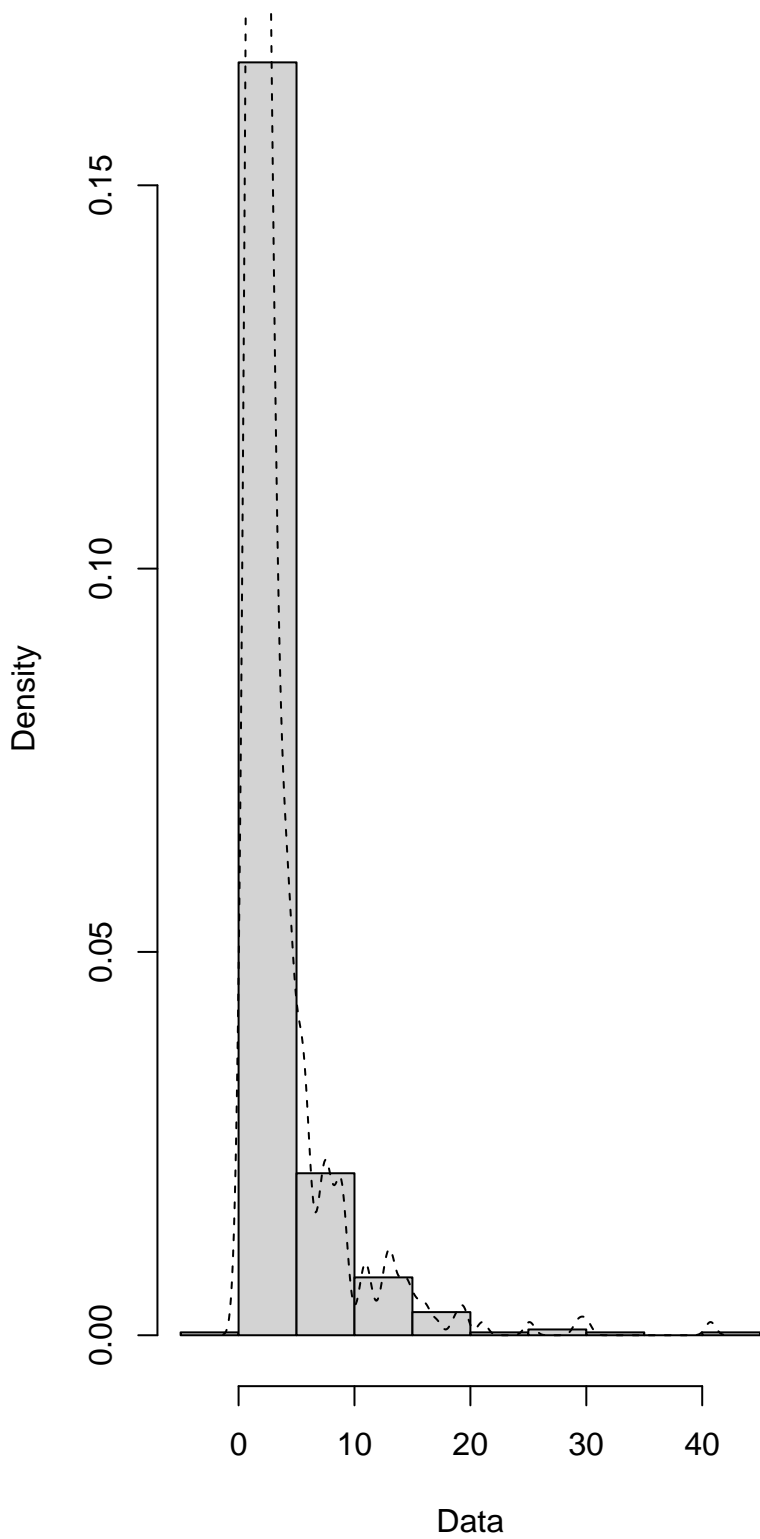


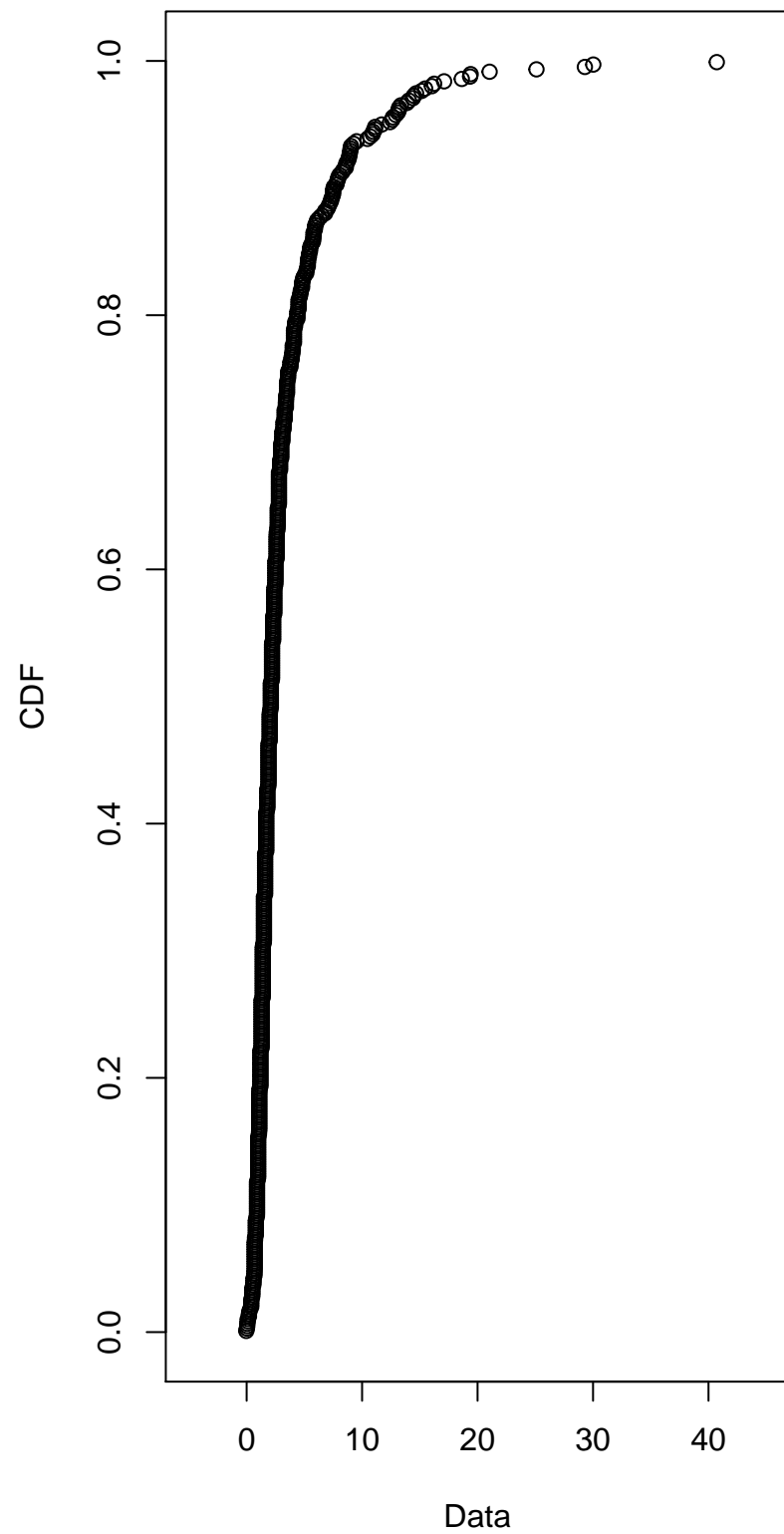
# Summary of the variable

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
−0.03054	1.30000	2.10000	3.40853	3.56547	40.71771	85

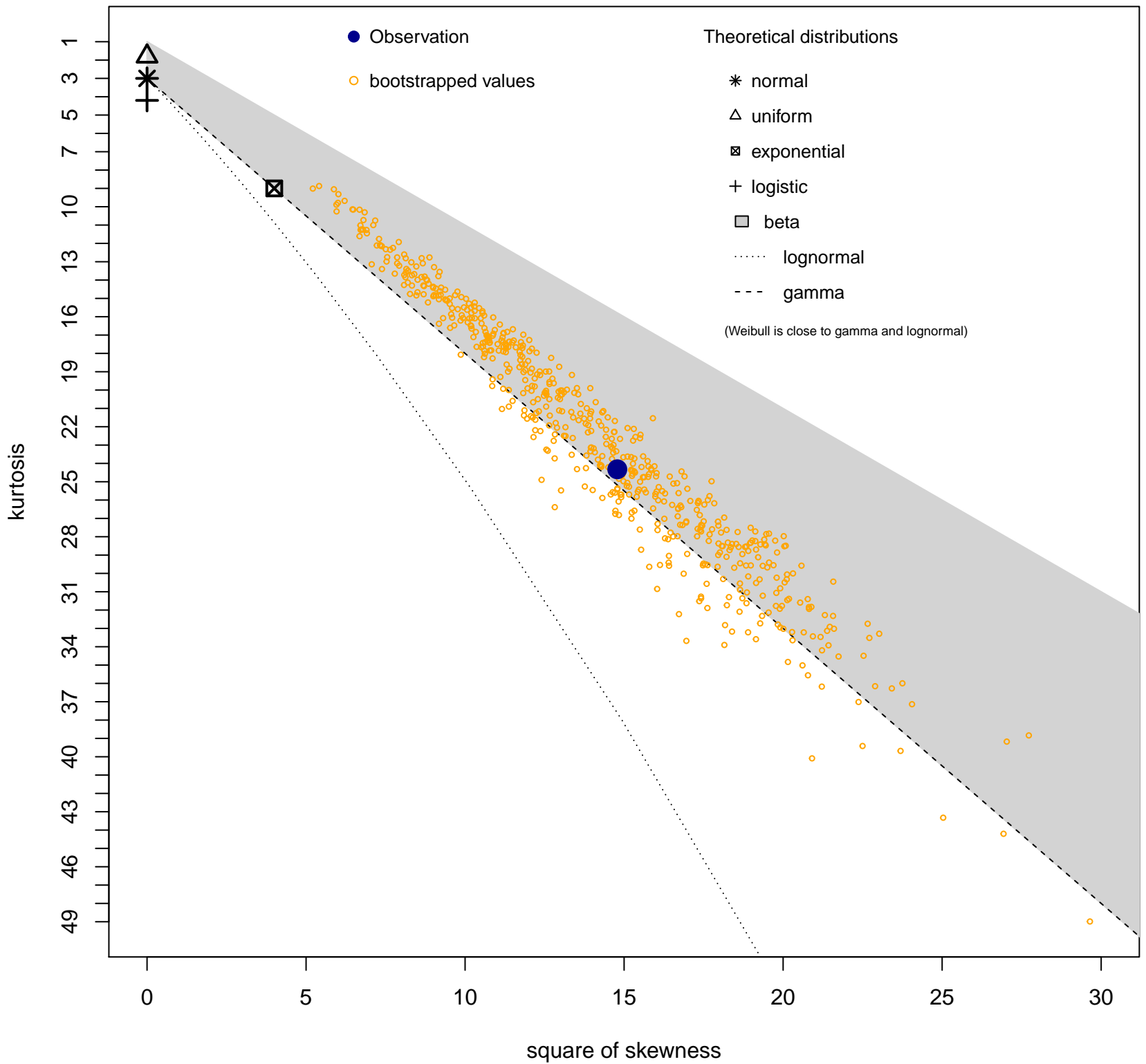
**Empirical density**



**Cumulative distribution**



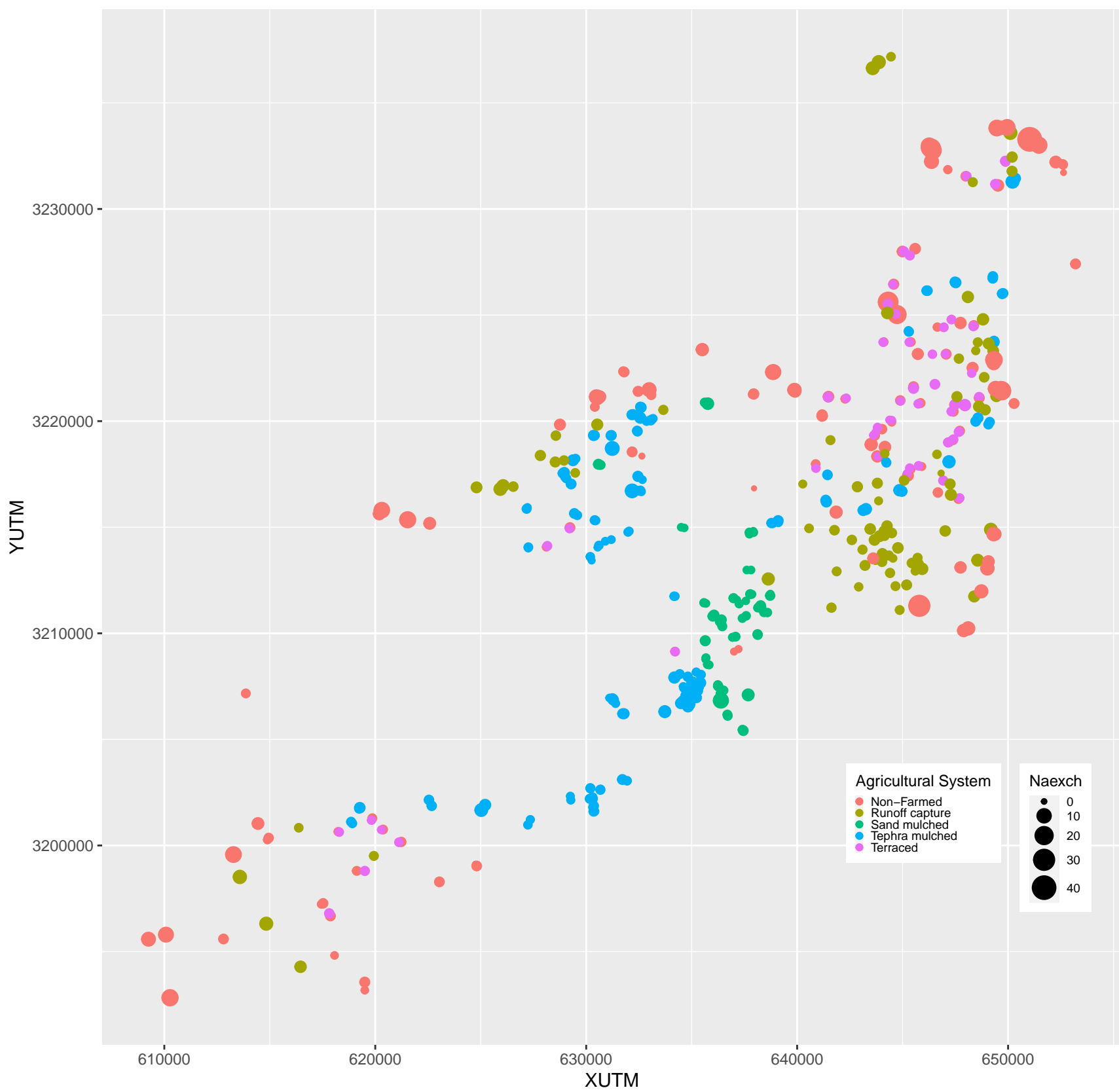
# Cullen and Frey graph



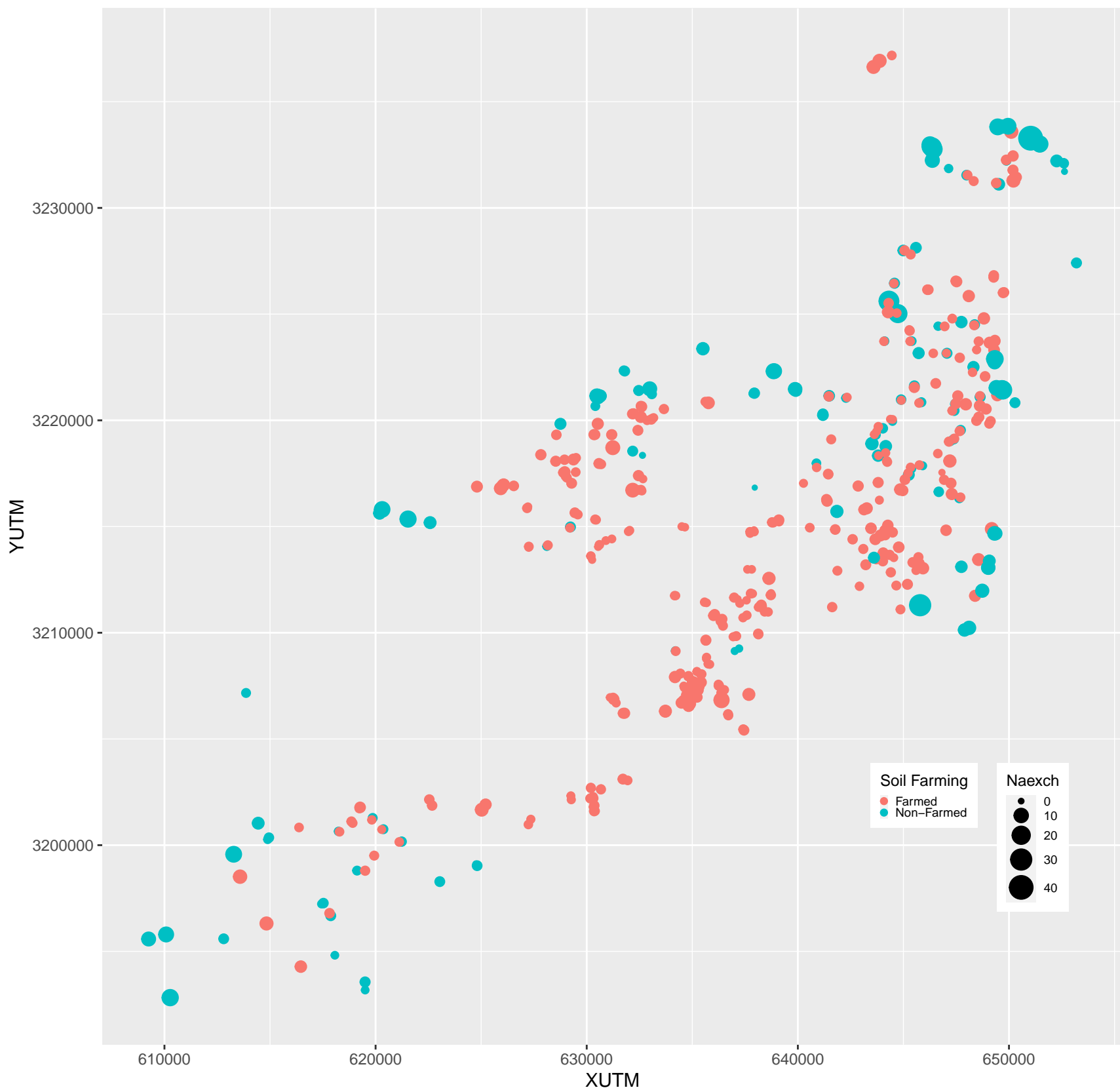
# Shapiro–Wilk test for normality

Shapiro–Wilk normality test
data: dataframe[, variable_chr]
W = 0.60756, p-value < 2.2e-16

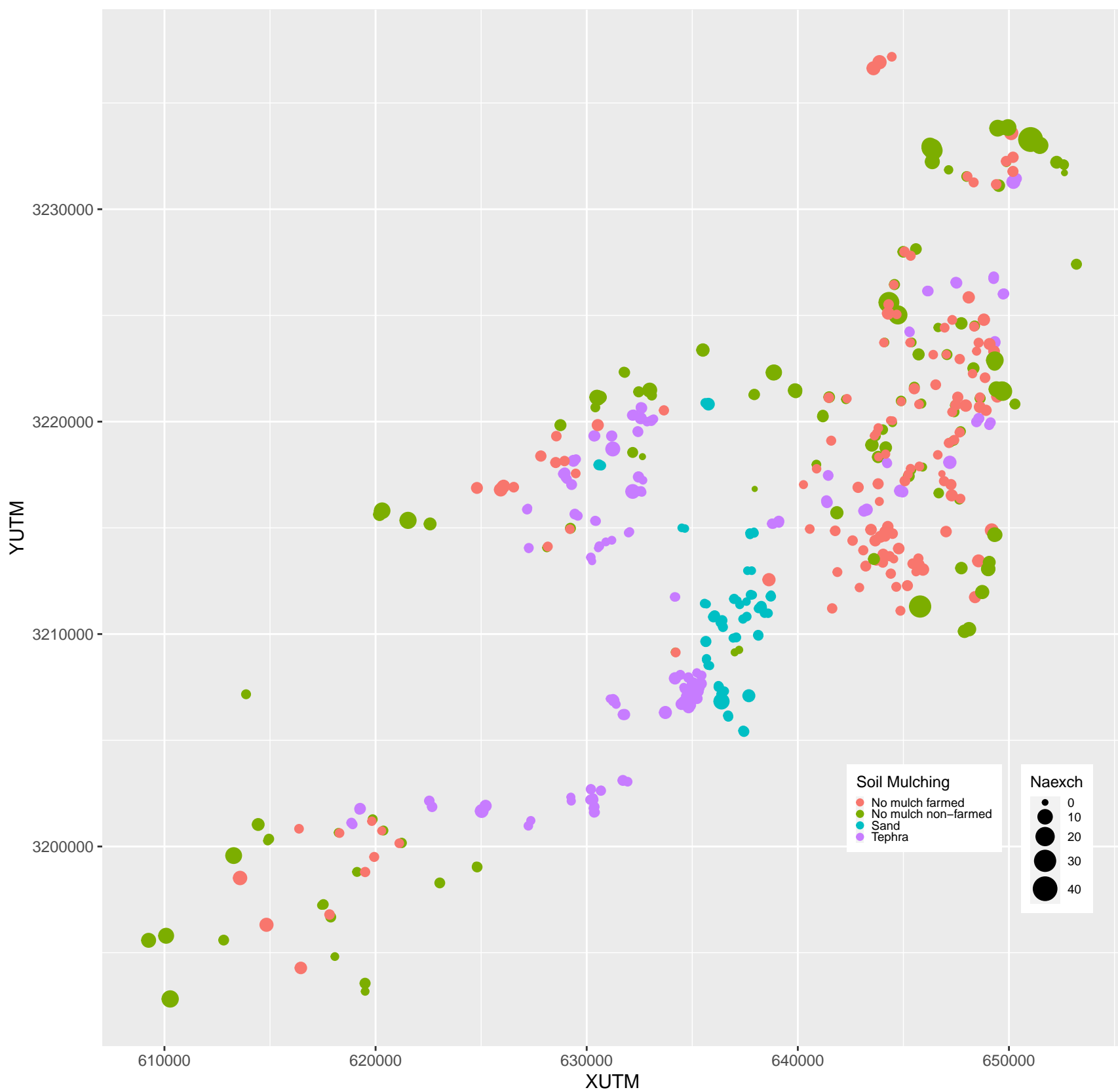
Naexch according to location and Agricultural System



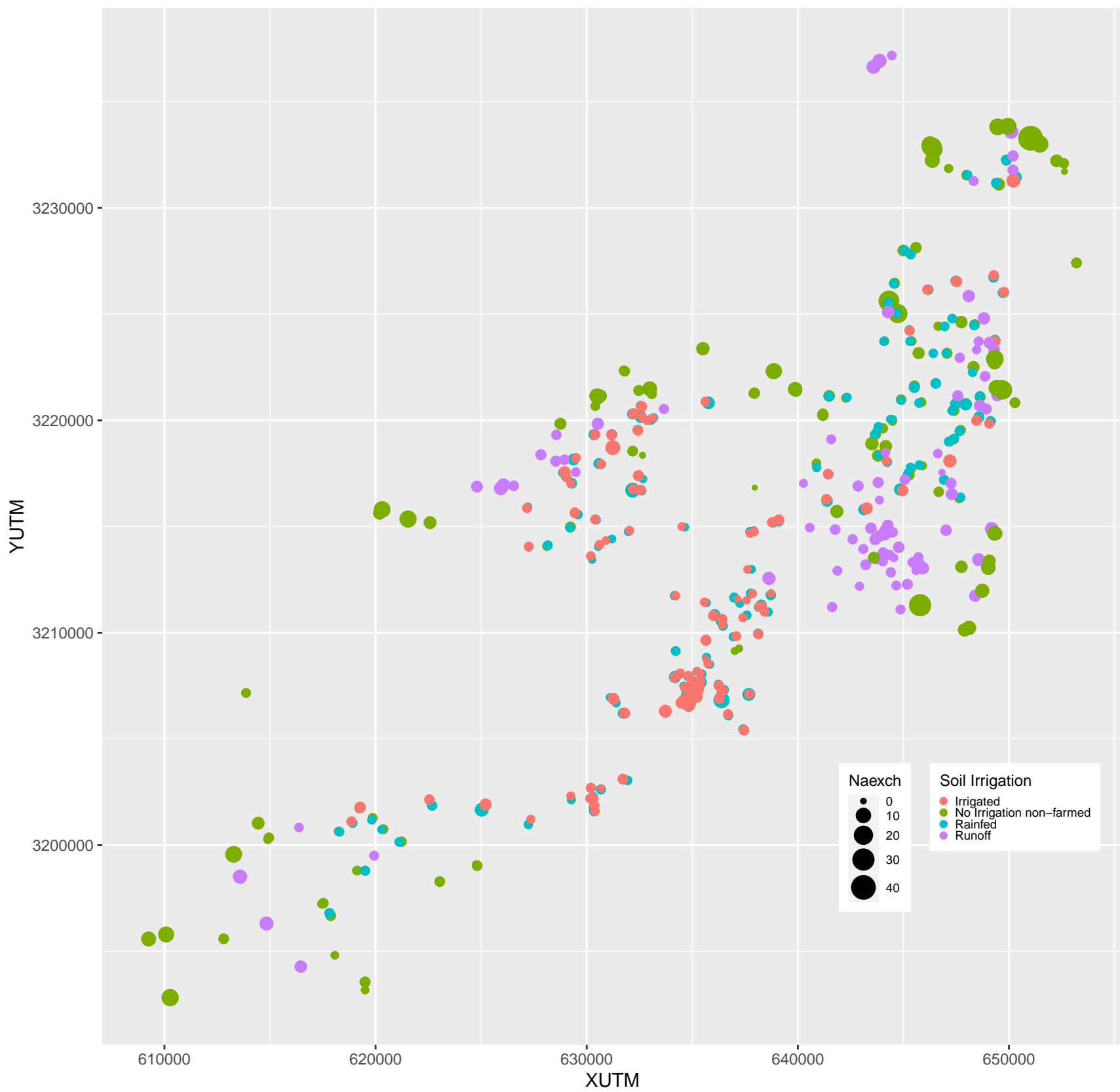
Naexch according to location and Soil Farming



Naexch according to location and Soil Mulching

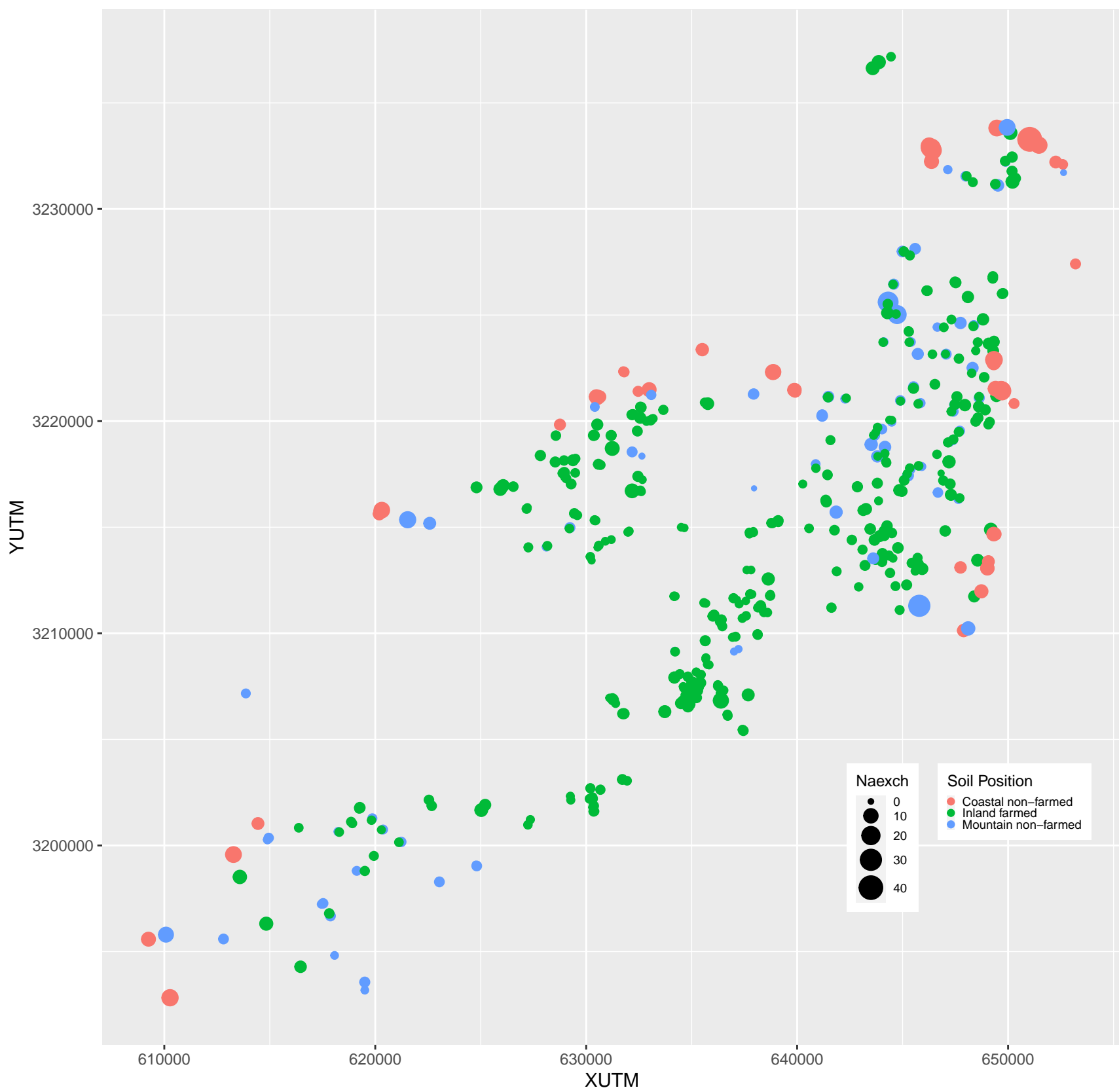


Naexch according to location and Soil Irrigation

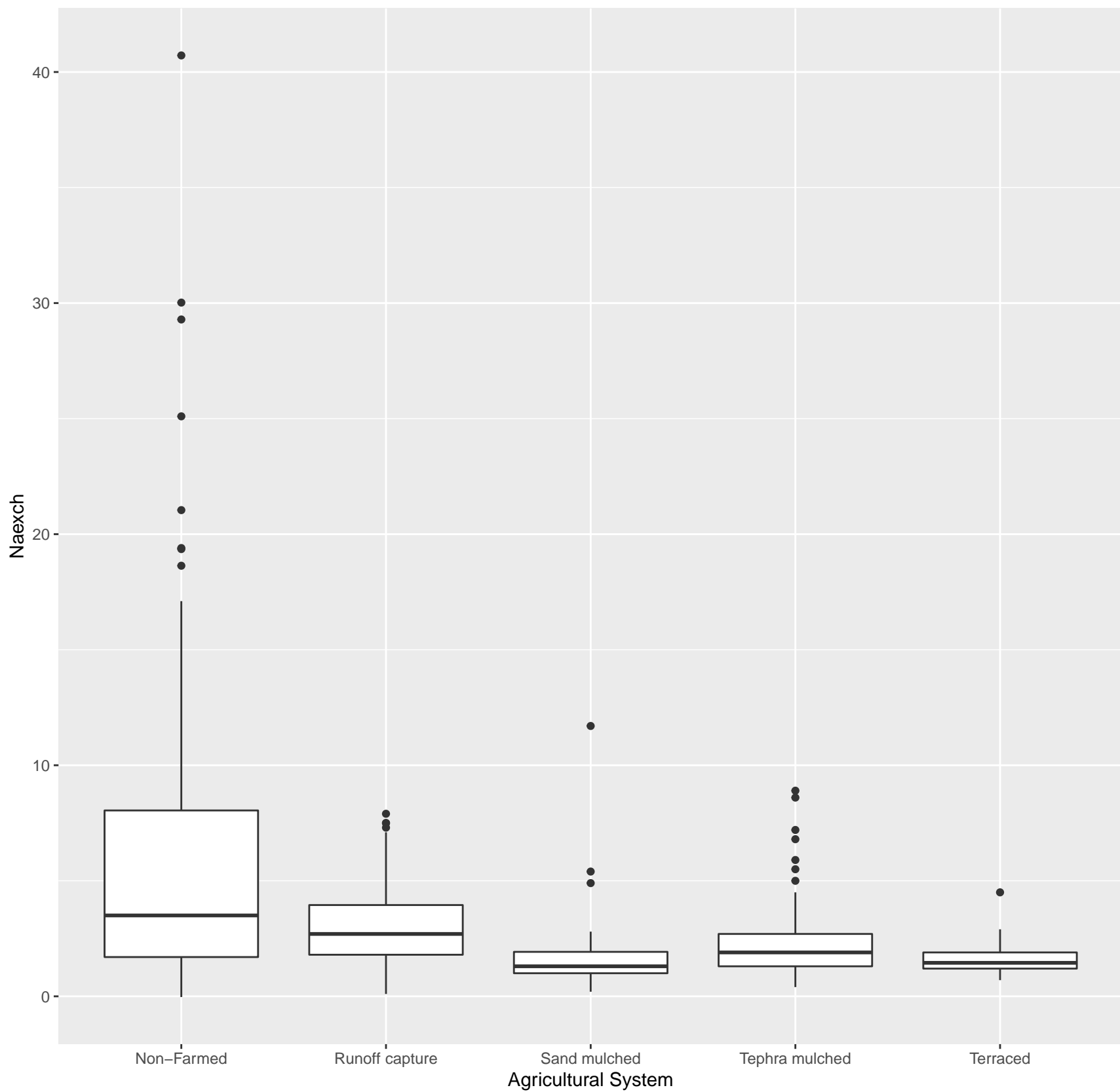




Naexch according to location and Soil Position



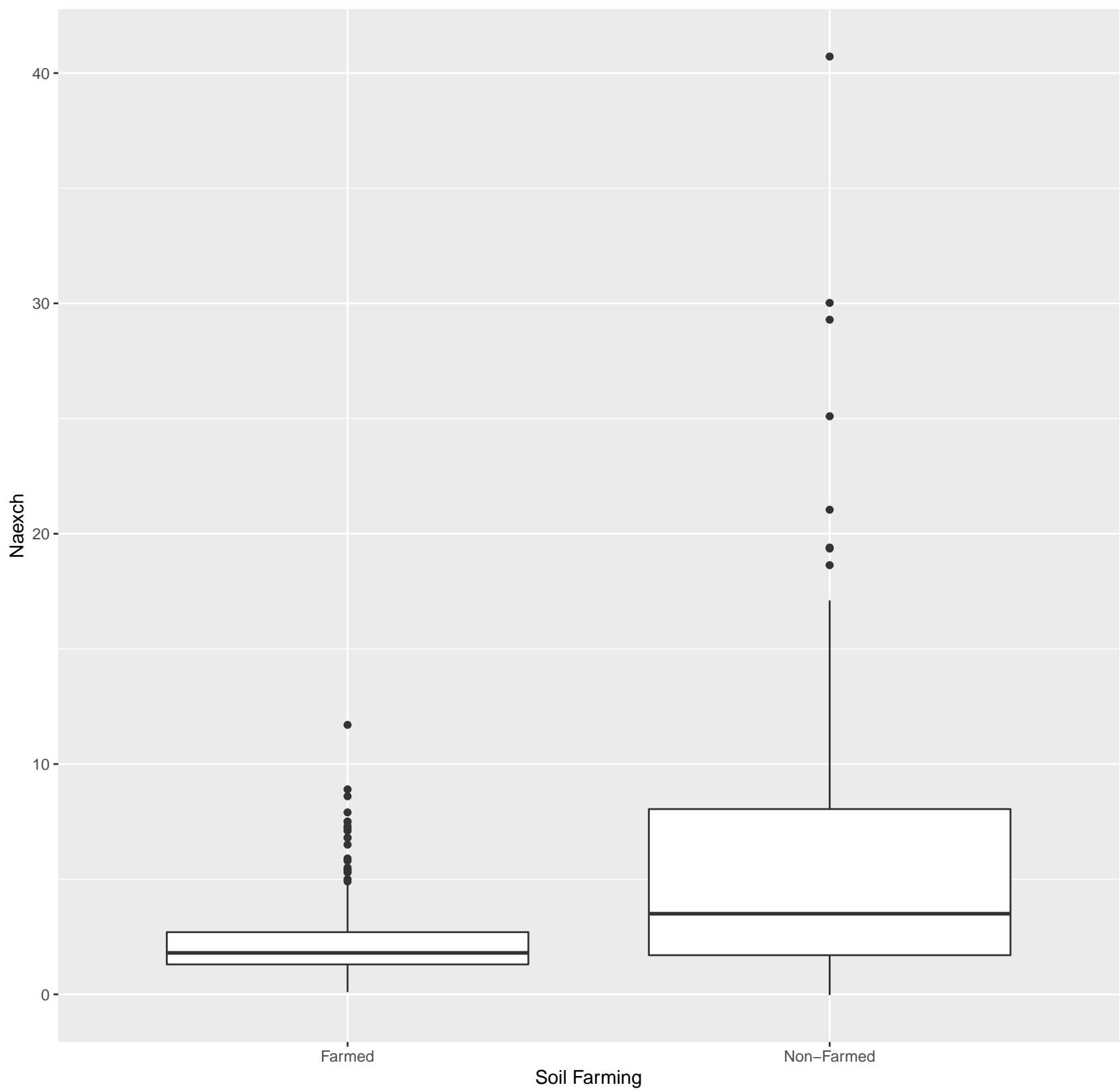
Naexch to Agricultural System



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	Naexch	Non-Farmed	Runoff capture	177	83	8848.0	8.00e-03	2.40e-02	*
2	Naexch	Non-Farmed	Sand mulched	177	60	8254.5	1.41e-10	1.27e-09	****
3	Naexch	Non-Farmed	Tephra mulched	177	160	19965.5	8.00e-11	8.00e-10	****
4	Naexch	Non-Farmed	Terraced	177	50	6874.5	2.33e-09	1.86e-08	****
5	Naexch	Runoff capture	Sand mulched	83	60	3918.5	5.09e-09	3.56e-08	****
6	Naexch	Runoff capture	Tephra mulched	83	160	8887.5	1.52e-05	7.60e-05	****
7	Naexch	Runoff capture	Terraced	83	50	3319.0	7.47e-09	4.48e-08	****
8	Naexch	Sand mulched	Tephra mulched	60	160	3443.0	1.00e-03	5.00e-03	**
9	Naexch	Sand mulched	Terraced	60	50	1356.5	3.90e-01	3.90e-01	ns
10	Naexch	Tephra mulched	Terraced	160	50	4989.5	8.00e-03	2.40e-02	*

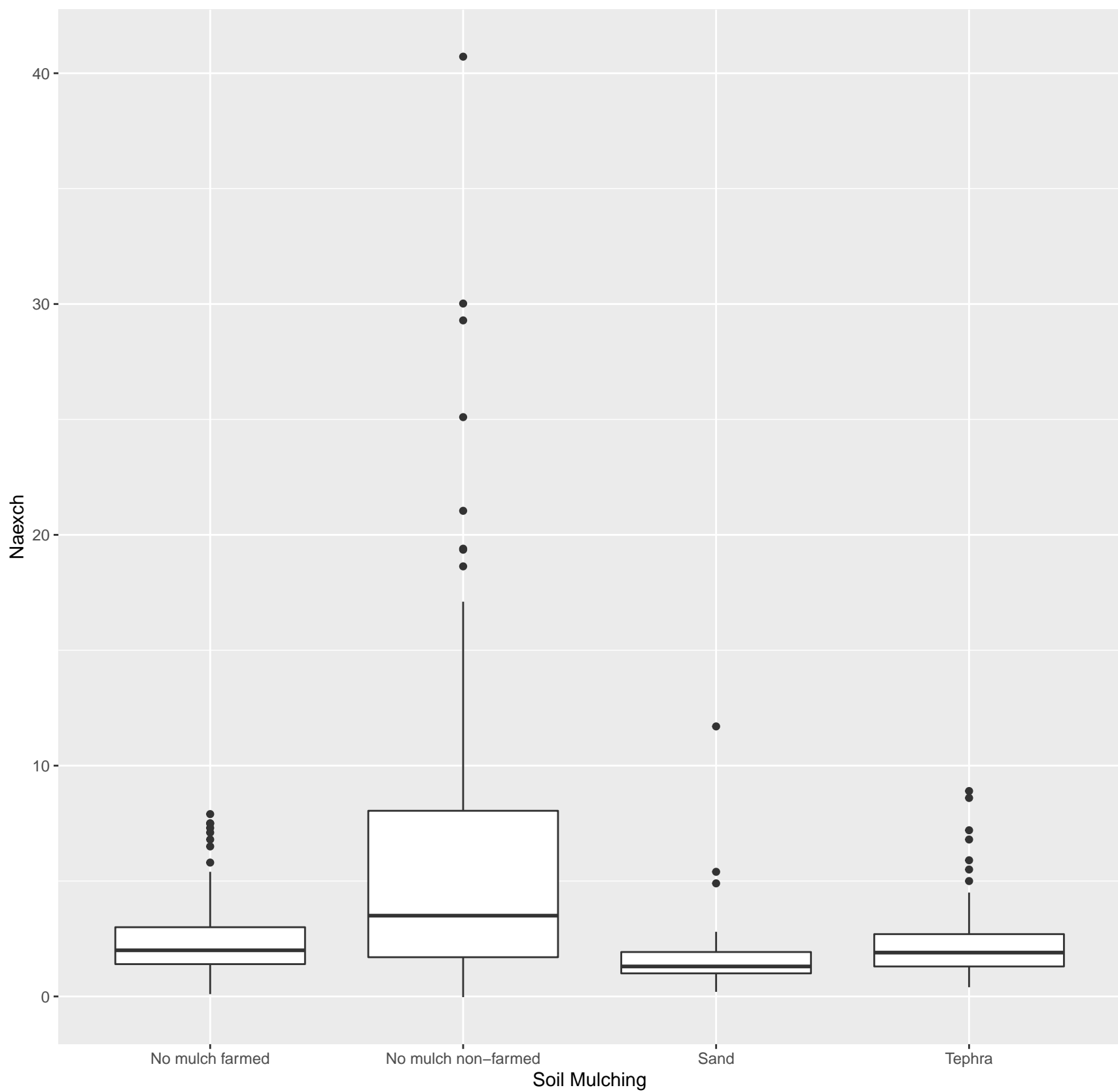
Naexch to Soil Farming



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p
1	Naexch	Farmed	Non-Farmed	353	177	18538.5	2.16e-14

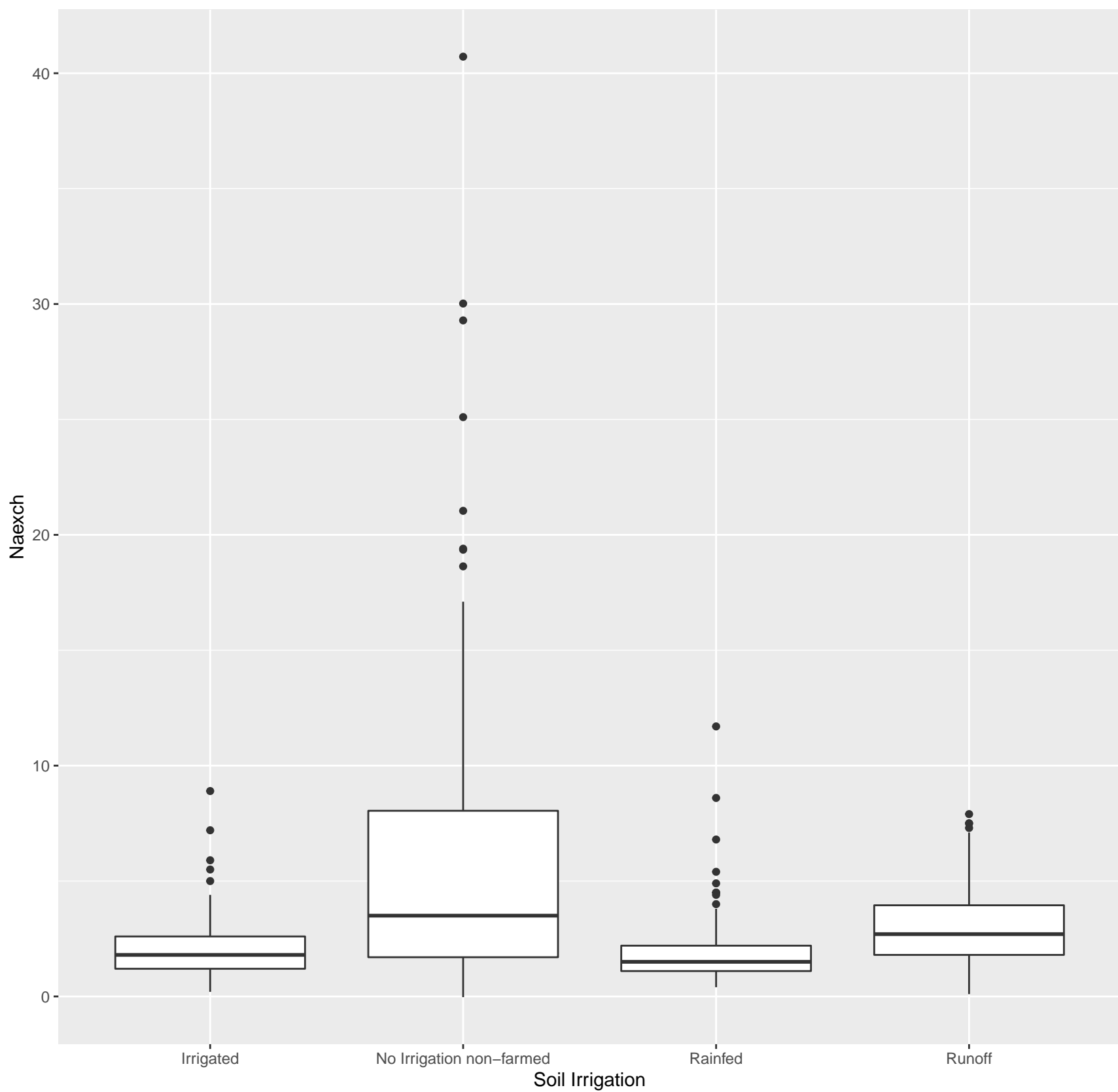
Naexch to Soil Mulching



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	Naexch	No mulch farmed	No mulch non-farmed	133	177	7818.5	4.20e-07	1.68e-06	****
2	Naexch	No mulch farmed	Sand	133	60	5562.0	1.20e-05	3.60e-05	****
3	Naexch	No mulch farmed	Tephra	133	160	11898.0	8.10e-02	8.10e-02	ns
4	Naexch	No mulch non-farmed	Sand	177	60	8254.5	1.41e-10	7.05e-10	****
5	Naexch	No mulch non-farmed	Tephra	177	160	19965.5	8.00e-11	4.80e-10	****
6	Naexch	Sand	Tephra	60	160	3443.0	1.00e-03	2.00e-03	**

Naexch to Soil Irrigation

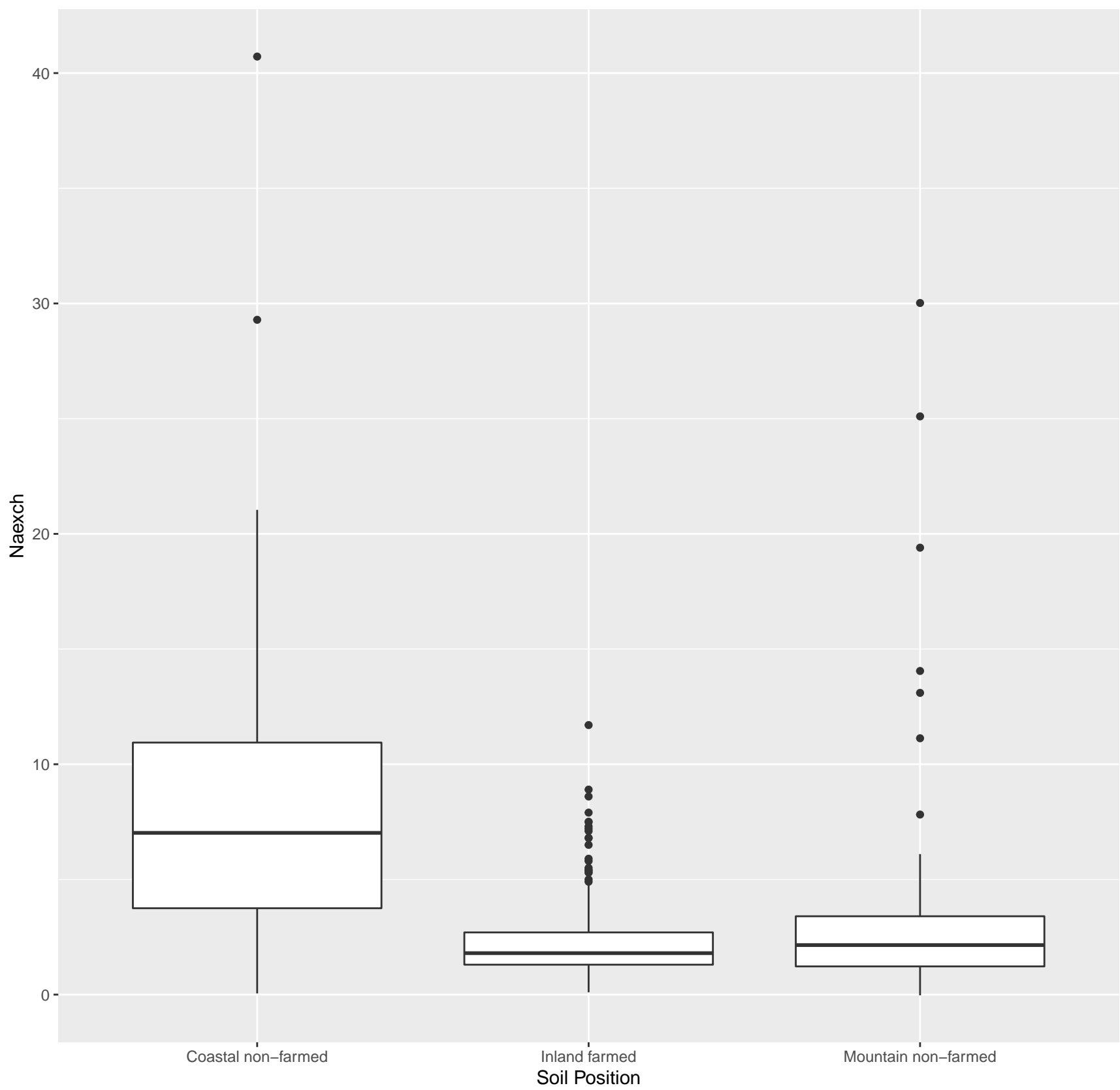




# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.sign
1	Naexch	Irrigated	No Irrigation non-farmed	110	177	5659.5	2.49e-09	9.96e-09	****
2	Naexch	Irrigated	Rainfed	110	160	10290.5	1.80e-02	1.80e-02	*
3	Naexch	Irrigated	Runoff	110	83	2968.0	3.22e-05	9.66e-05	****
4	Naexch	No Irrigation non-farmed	Rainfed	177	160	21284.0	1.49e-15	8.94e-15	****
5	Naexch	No Irrigation non-farmed	Runoff	177	83	8848.0	8.00e-03	1.60e-02	*
6	Naexch	Rainfed	Runoff	160	83	3317.0	1.57e-10	7.85e-10	****

Naexch to Soil Position



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	Naexch	Coastal non-farmed	Inland farmed	91	353	27451.0	1.66e-25	4.98e-25	****
2	Naexch	Coastal non-farmed	Mountain non-farmed	91	86	6258.0	5.93e-12	1.19e-11	****
3	Naexch	Inland farmed	Mountain non-farmed	353	86	13866.5	2.13e-01	2.13e-01	ns