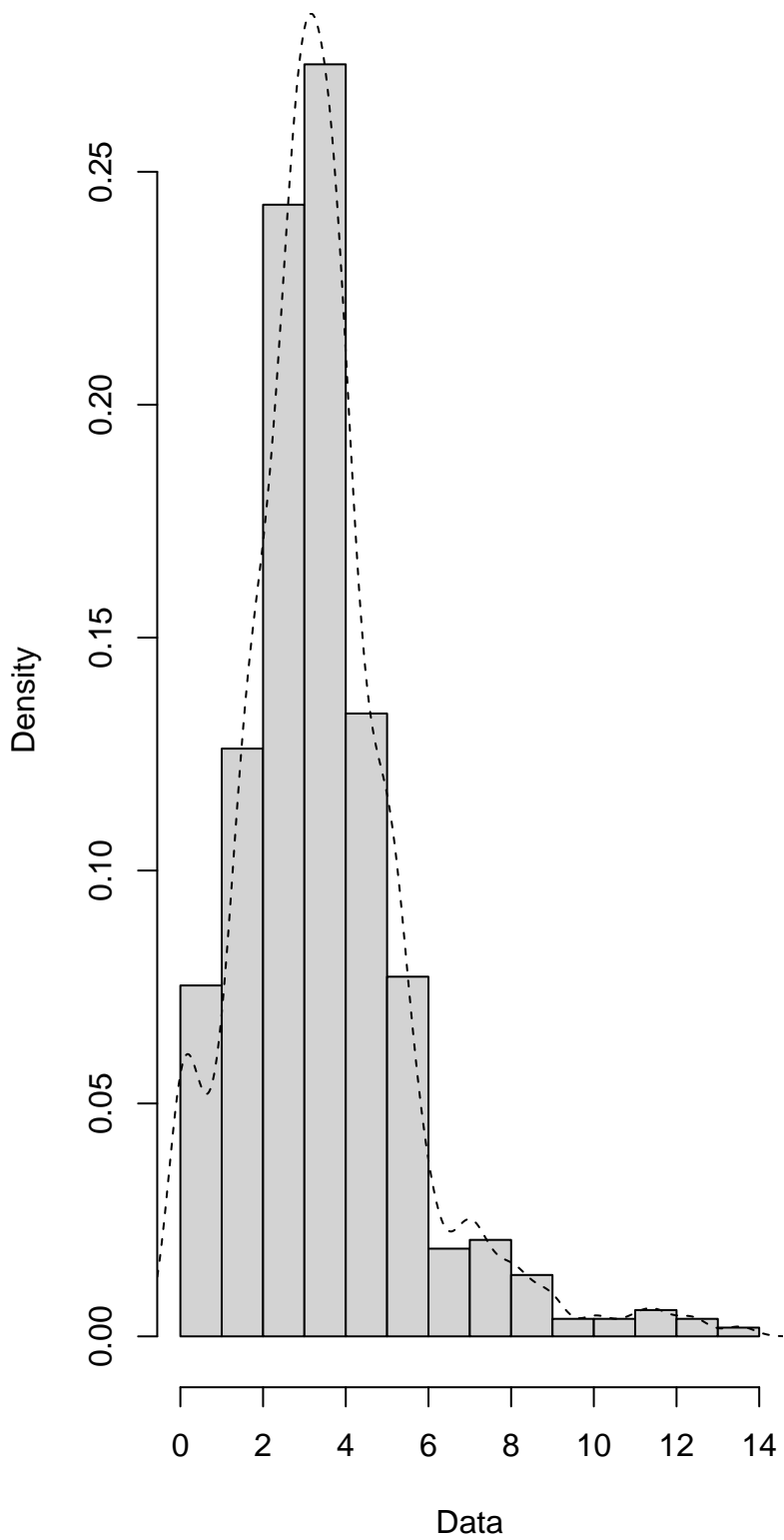


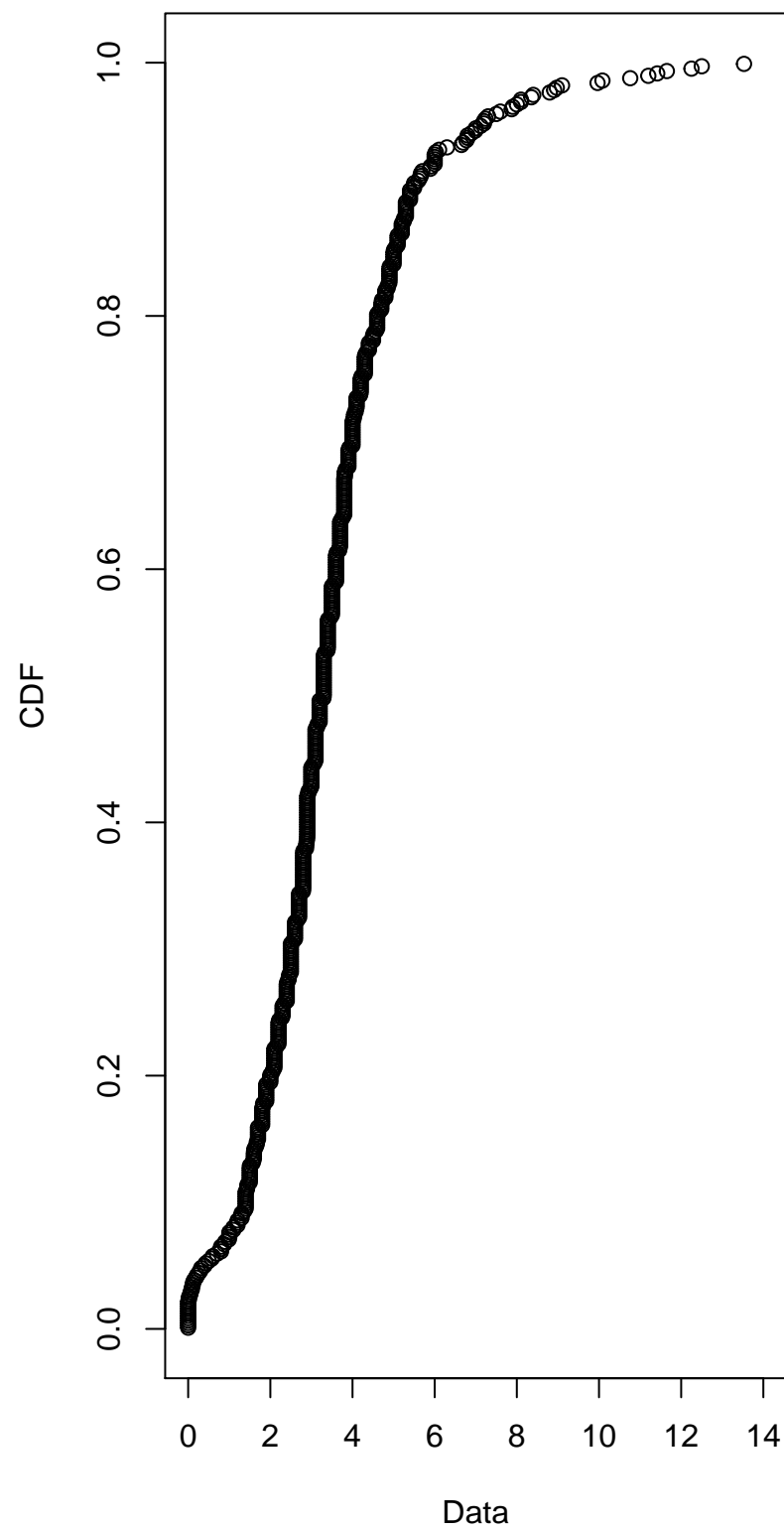
# Summary of the variable

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
0.000	2.300	3.300	3.446	4.200	13.530	84

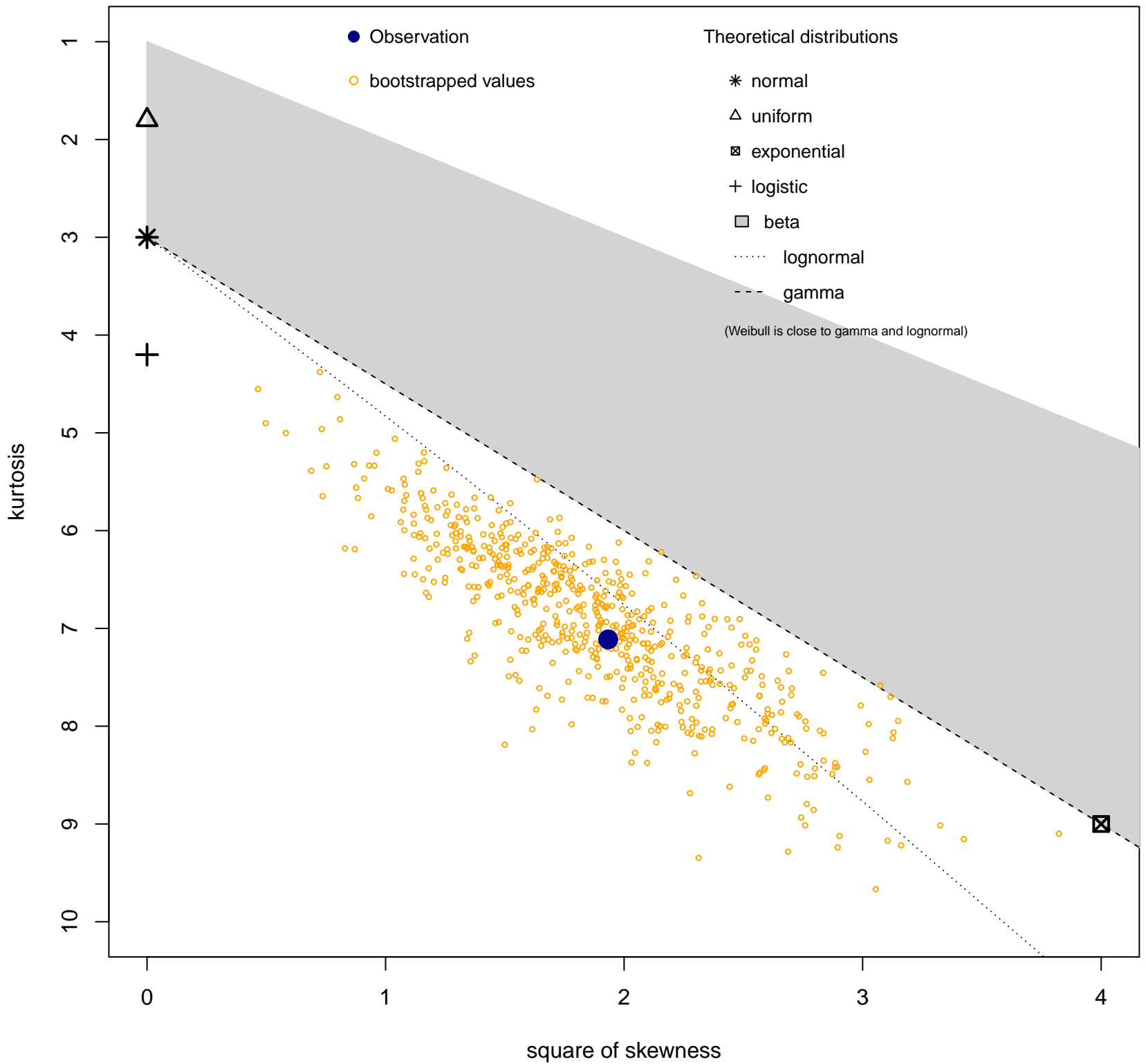
**Empirical density**



**Cumulative distribution**



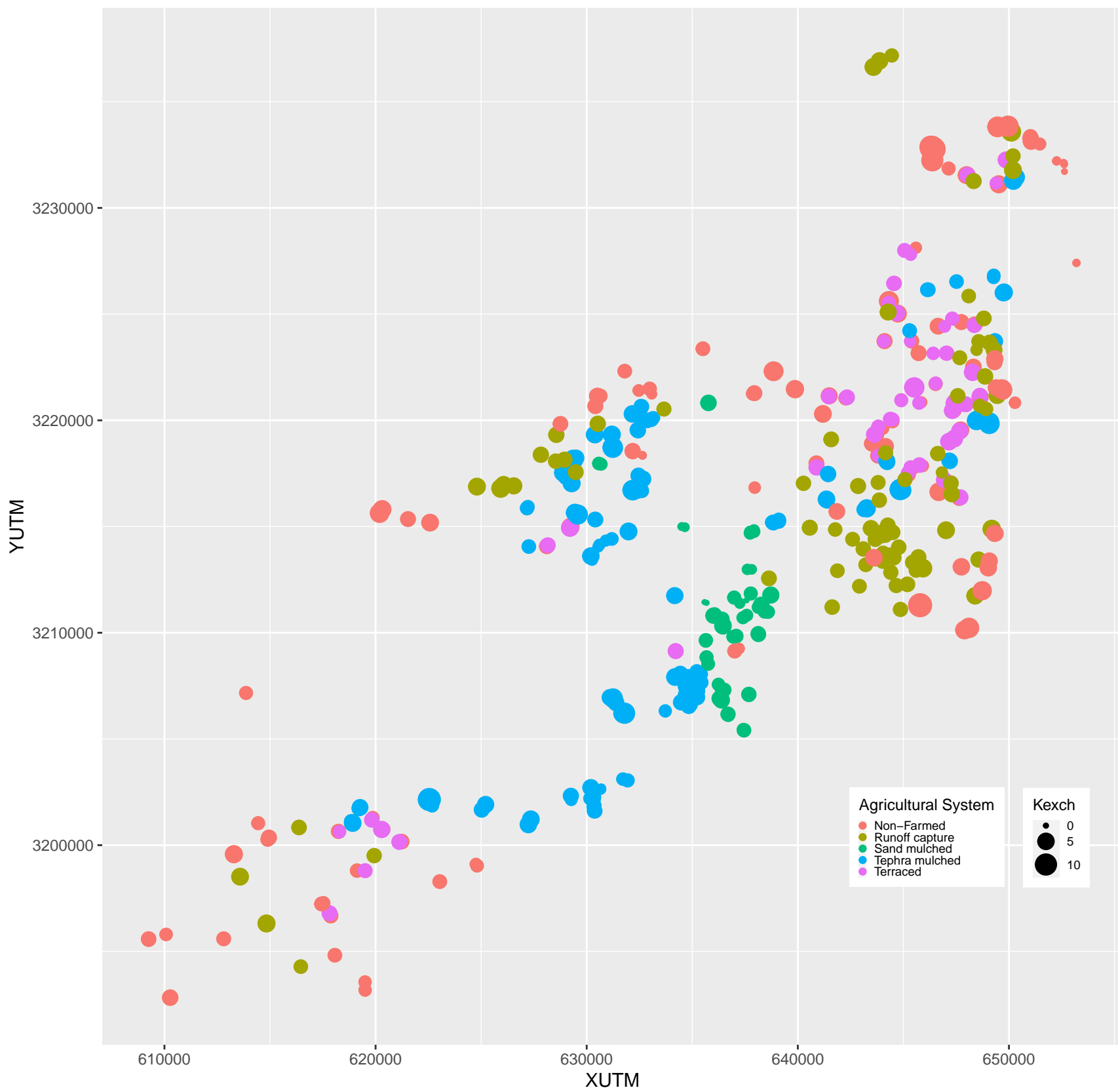
# Cullen and Frey graph



# Shapiro–Wilk test for normality

Shapiro–Wilk normality test
data: dataframe[, variable_chr]
W = 0.9099, p-value < 2.2e-16

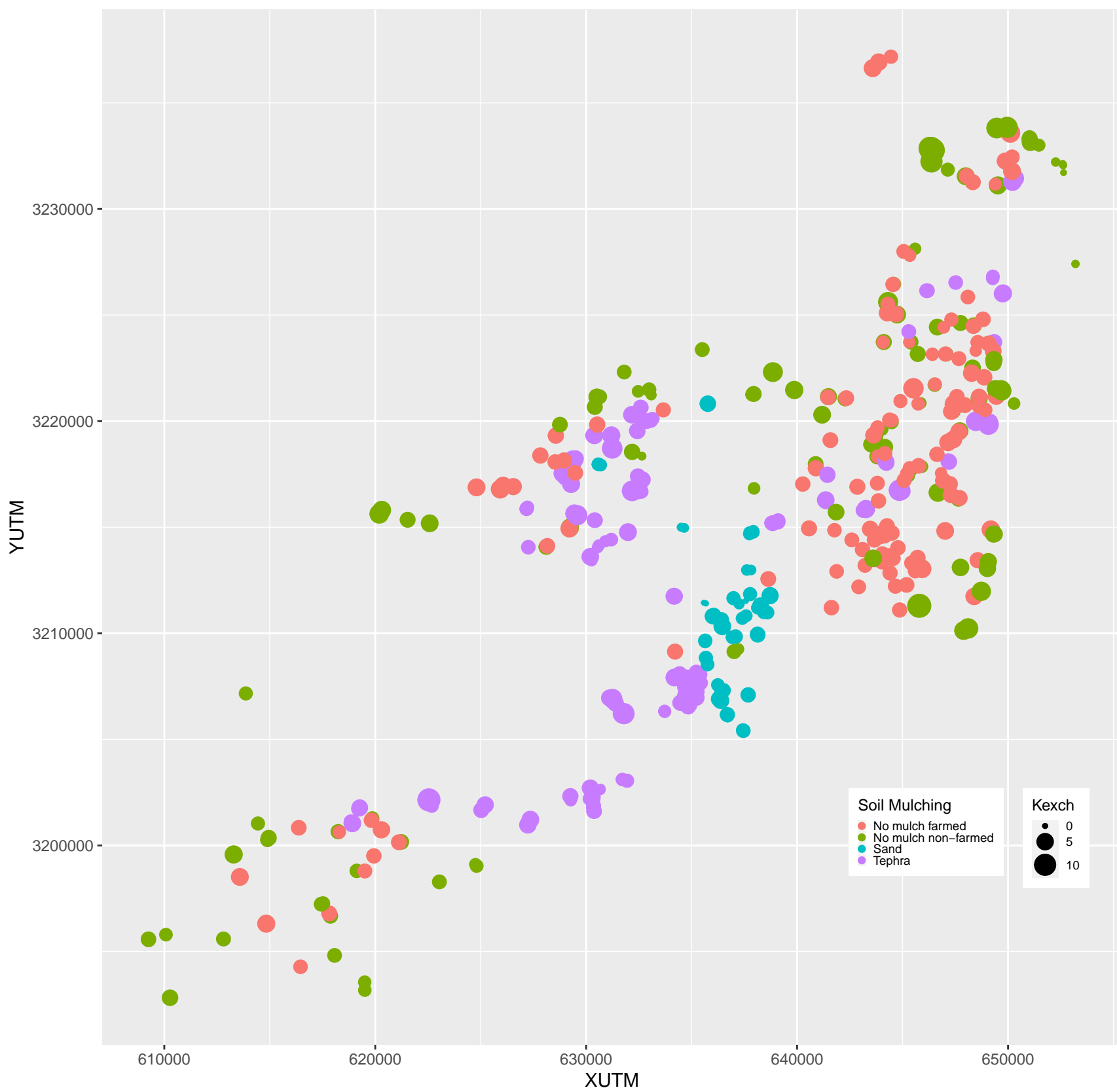
Kexch according to location and Agricultural System



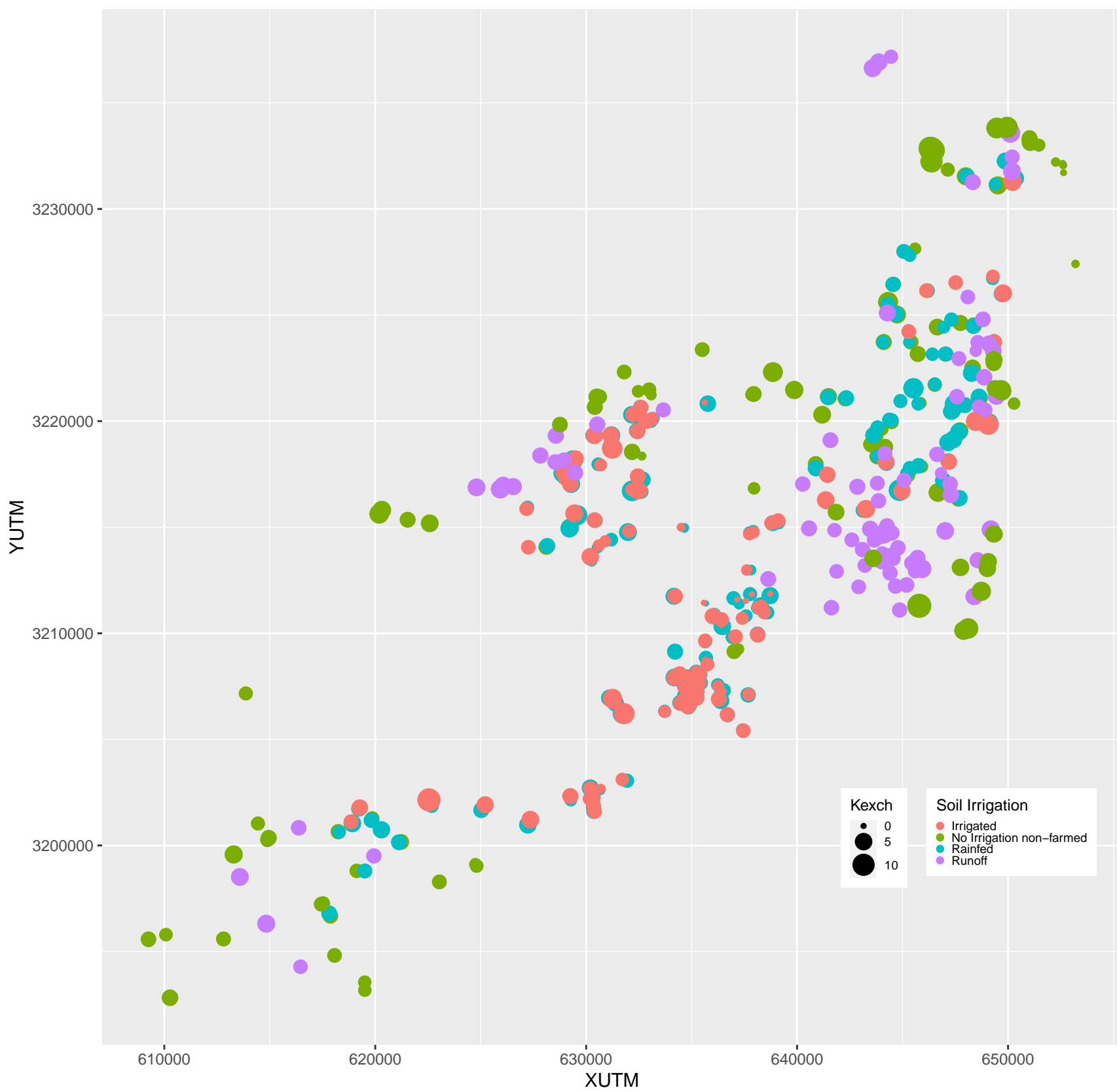
Kexch according to location and Soil Farming



Kexch according to location and Soil Mulching

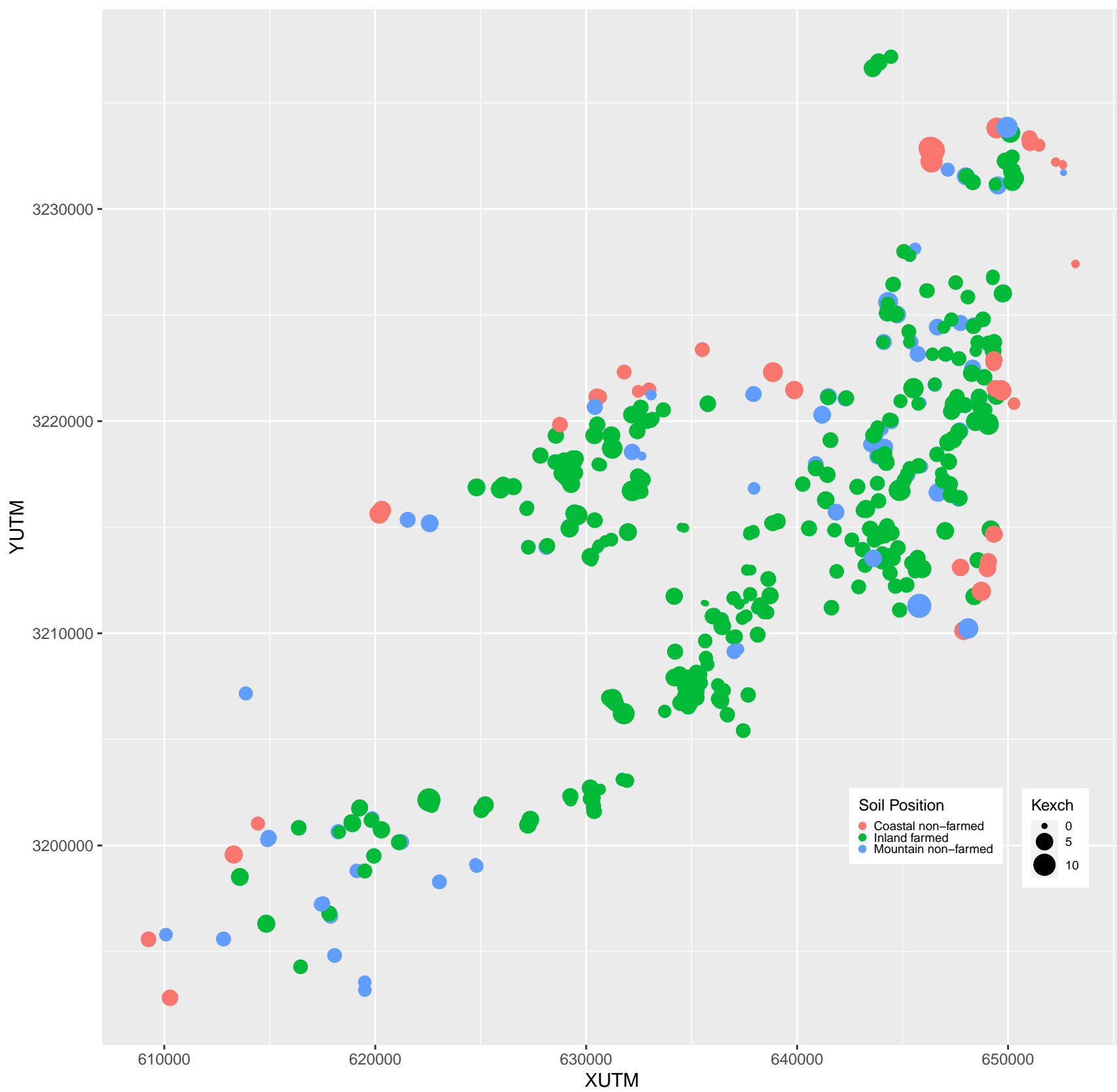


Kexch according to location and Soil Irrigation

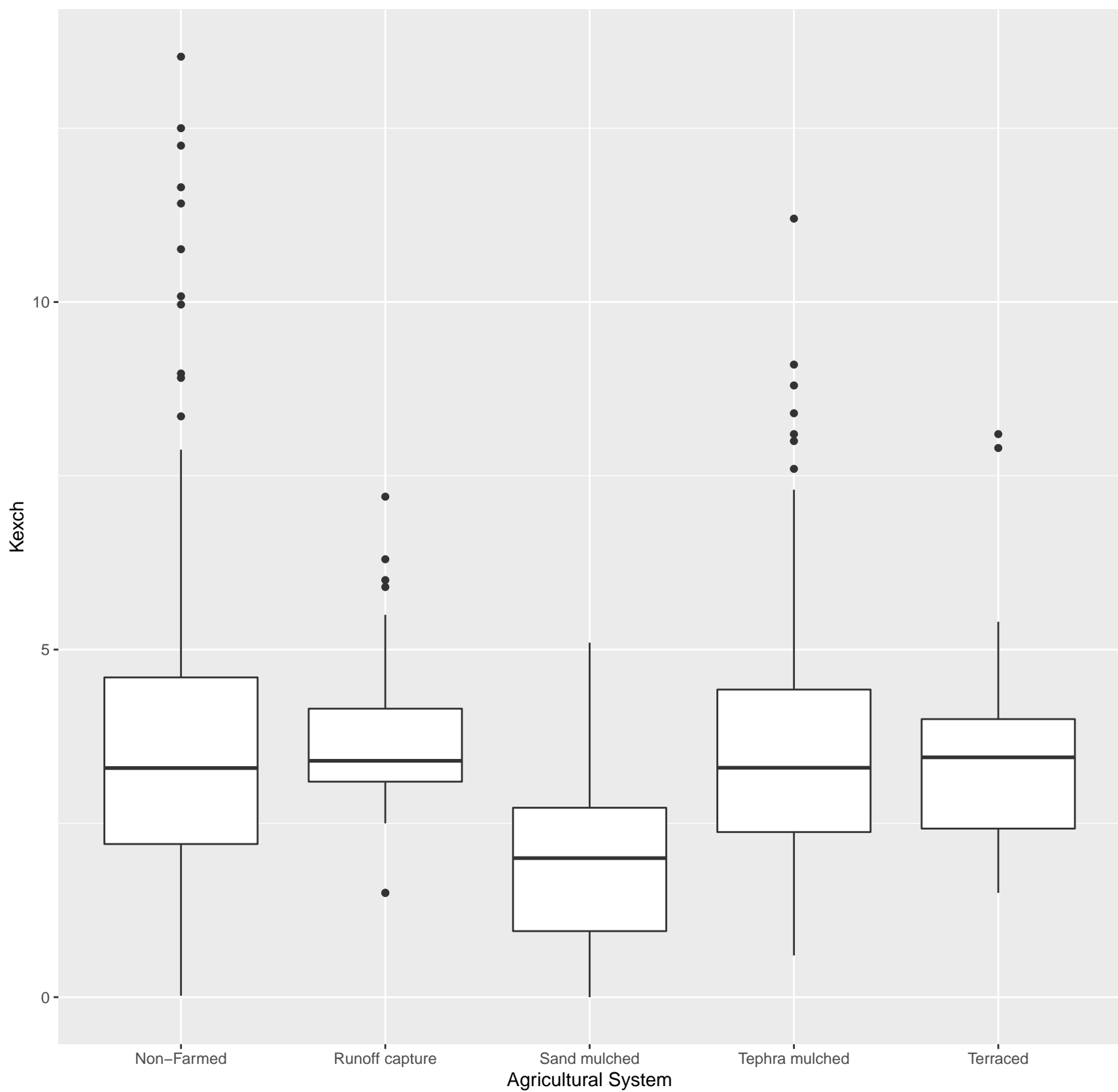




Kexch according to location and Soil Position



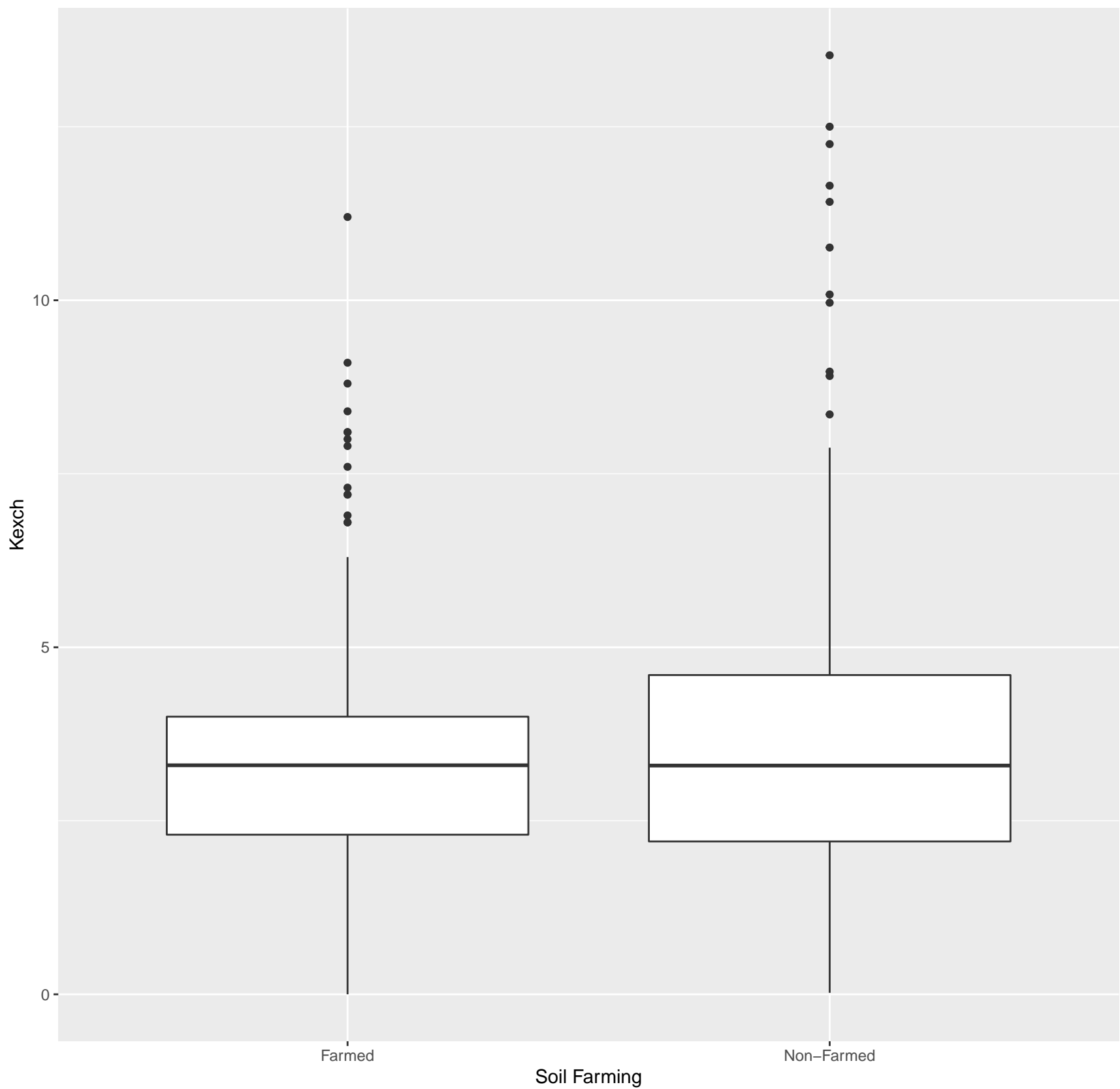
Kexch to Agricultural System



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	Kexch	Non-Farmed	Runoff capture	178	83	6426.0	9.10e-02	4.54e-01	ns
2	Kexch	Non-Farmed	Sand mulched	178	60	7887.0	3.35e-08	2.68e-07	****
3	Kexch	Non-Farmed	Tephra mulched	178	160	14122.0	8.96e-01	1.00e+00	ns
4	Kexch	Non-Farmed	Terraced	178	50	4377.0	8.60e-01	1.00e+00	ns
5	Kexch	Runoff capture	Sand mulched	83	60	4297.5	1.38e-13	1.38e-12	****
6	Kexch	Runoff capture	Tephra mulched	83	160	7581.0	7.00e-02	4.21e-01	ns
7	Kexch	Runoff capture	Terraced	83	50	2377.0	1.61e-01	6.44e-01	ns
8	Kexch	Sand mulched	Tephra mulched	60	160	2308.0	3.08e-09	2.77e-08	****
9	Kexch	Sand mulched	Terraced	60	50	628.0	1.63e-07	1.14e-06	****
10	Kexch	Tephra mulched	Terraced	160	50	3942.5	8.79e-01	1.00e+00	ns

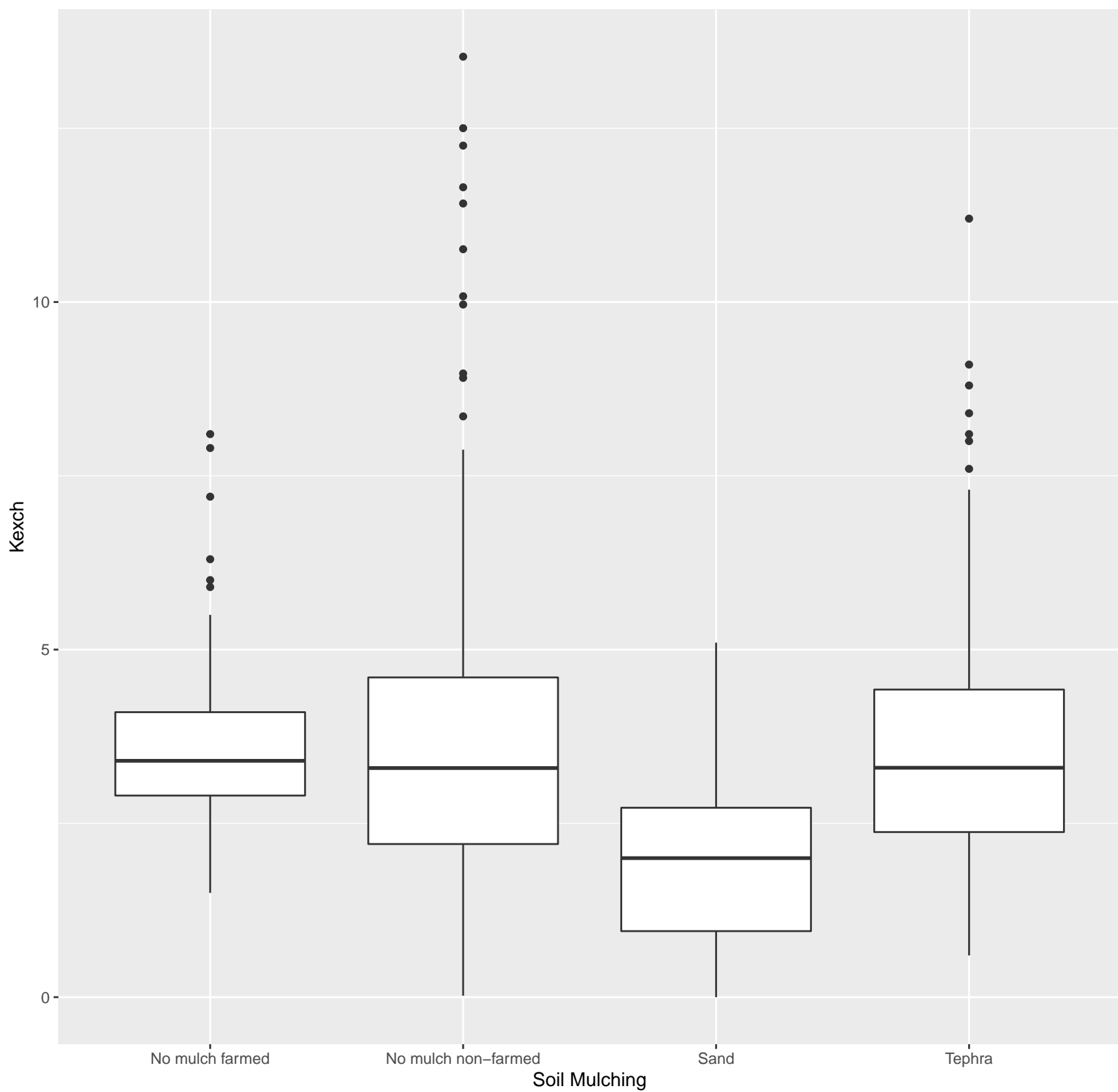
Kexch to Soil Farming



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p
1	Kexch	Farmed	Non-Farmed	353	178	30022	0.403

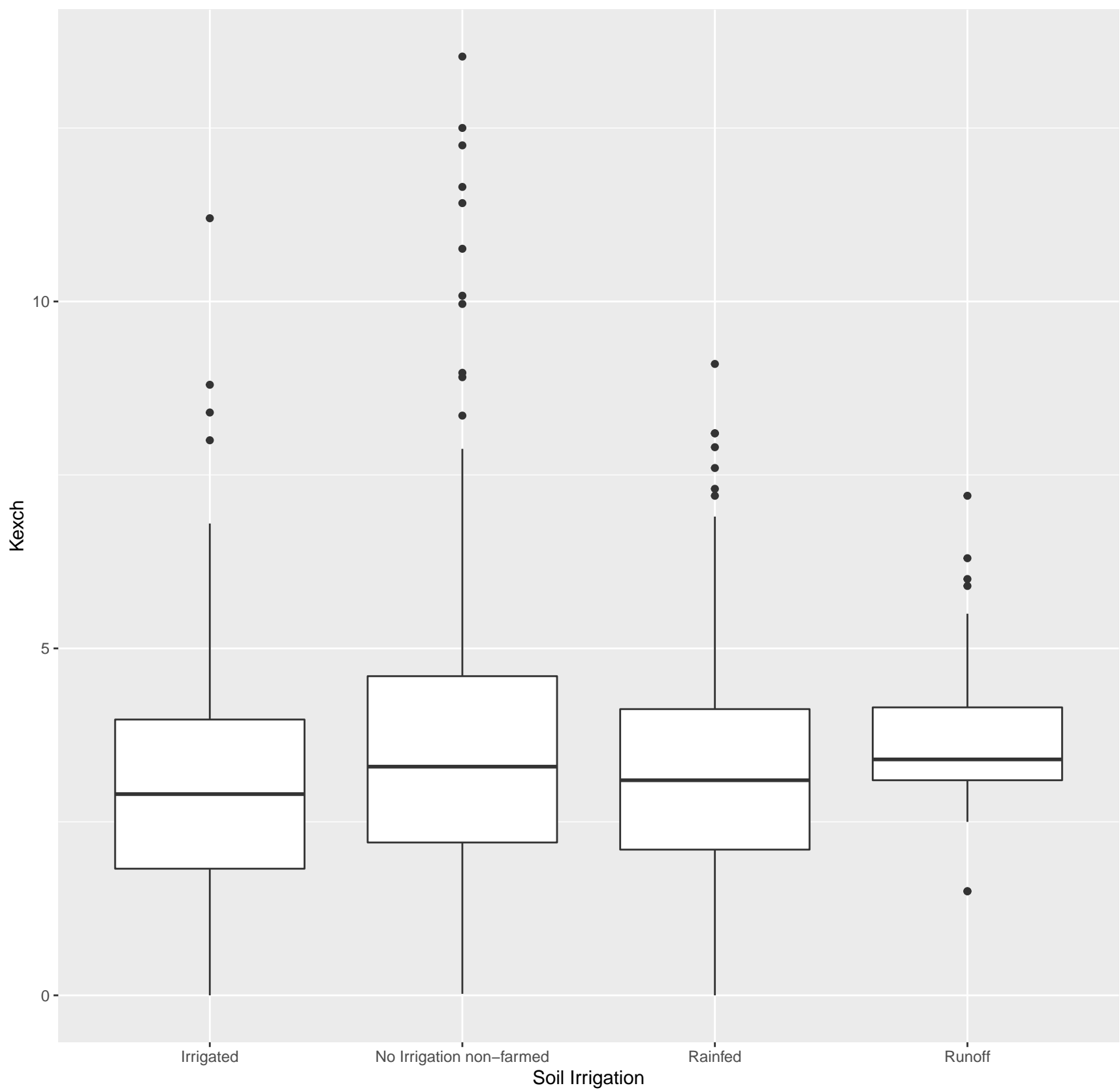
Kexch to Soil Mulching



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	Kexch	No mulch farmed	No mulch non-farmed	133	178	12871.0	1.88e-01	5.01e-01	ns
2	Kexch	No mulch farmed	Sand	133	60	6669.5	8.47e-14	5.08e-13	****
3	Kexch	No mulch farmed	Tephra	133	160	11638.5	1.67e-01	5.01e-01	ns
4	Kexch	No mulch non-farmed	Sand	178	60	7887.0	3.35e-08	1.34e-07	****
5	Kexch	No mulch non-farmed	Tephra	178	160	14122.0	8.96e-01	8.96e-01	ns
6	Kexch	Sand	Tephra	60	160	2308.0	3.08e-09	1.54e-08	****

Kexch to Soil Irrigation

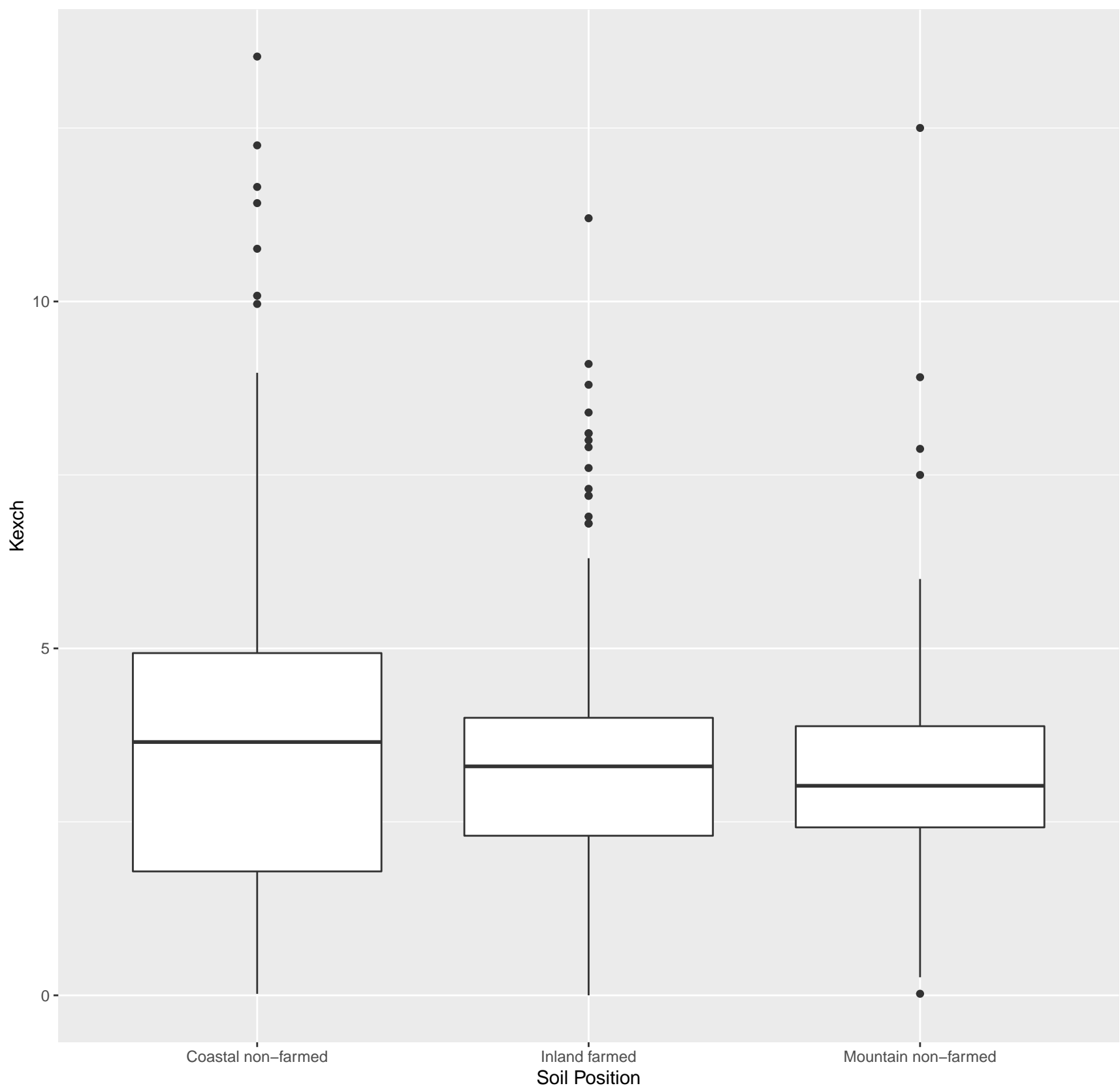




# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	Kexch	Irrigated	No Irrigation non-farmed	110	178	8508.5	0.062000	0.248	ns
2	Kexch	Irrigated	Rainfed	110	160	8318.0	0.445000	0.462	ns
3	Kexch	Irrigated	Runoff	110	83	3234.5	0.000533	0.003	**
4	Kexch	No Irrigation non-farmed	Rainfed	178	160	15314.5	0.231000	0.462	ns
5	Kexch	No Irrigation non-farmed	Runoff	178	83	6426.0	0.091000	0.272	ns
6	Kexch	Rainfed	Runoff	160	83	4920.0	0.000932	0.005	**

Kexch to Soil Position



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	Kexch	Coastal non-farmed	Inland farmed	92	353	18018	0.105	0.315	ns
2	Kexch	Coastal non-farmed	Mountain non-farmed	92	86	4434	0.165	0.330	ns
3	Kexch	Inland farmed	Mountain non-farmed	353	86	15564	0.715	0.715	ns