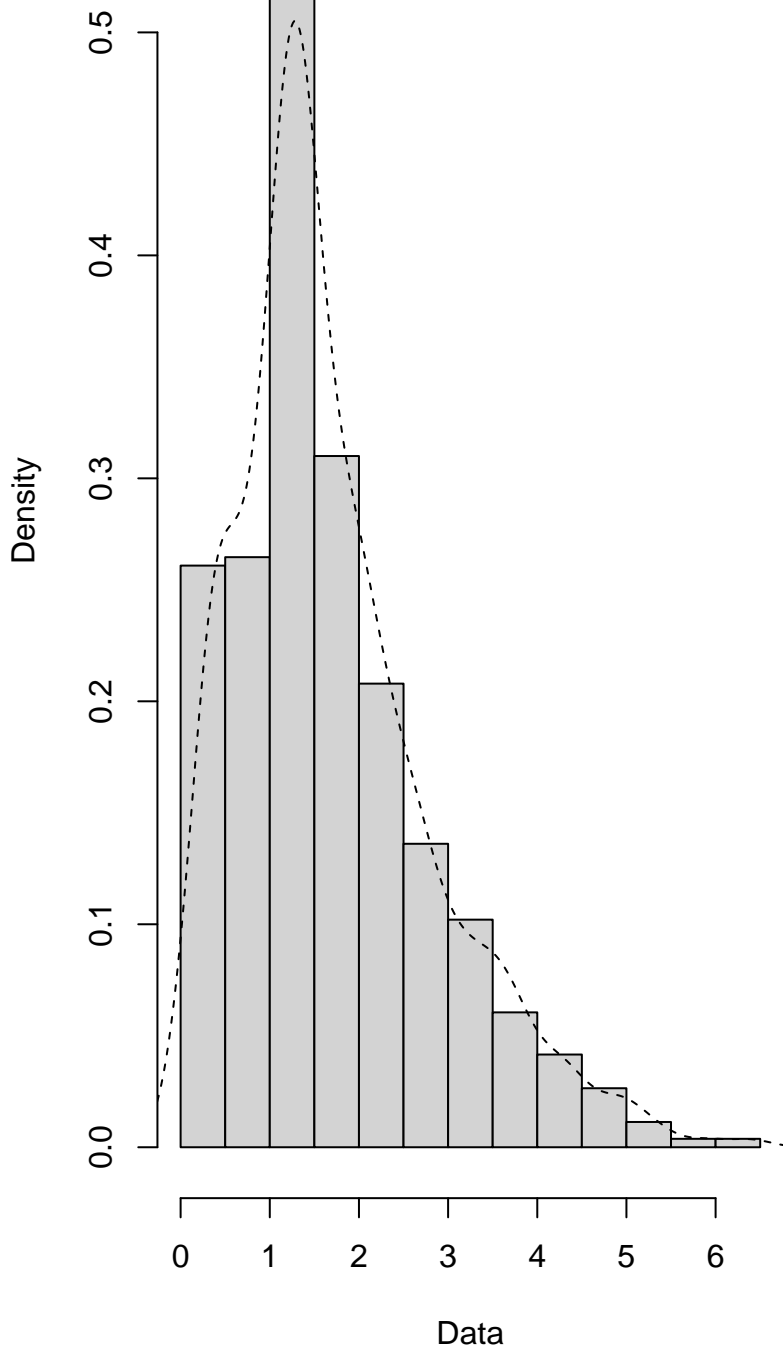


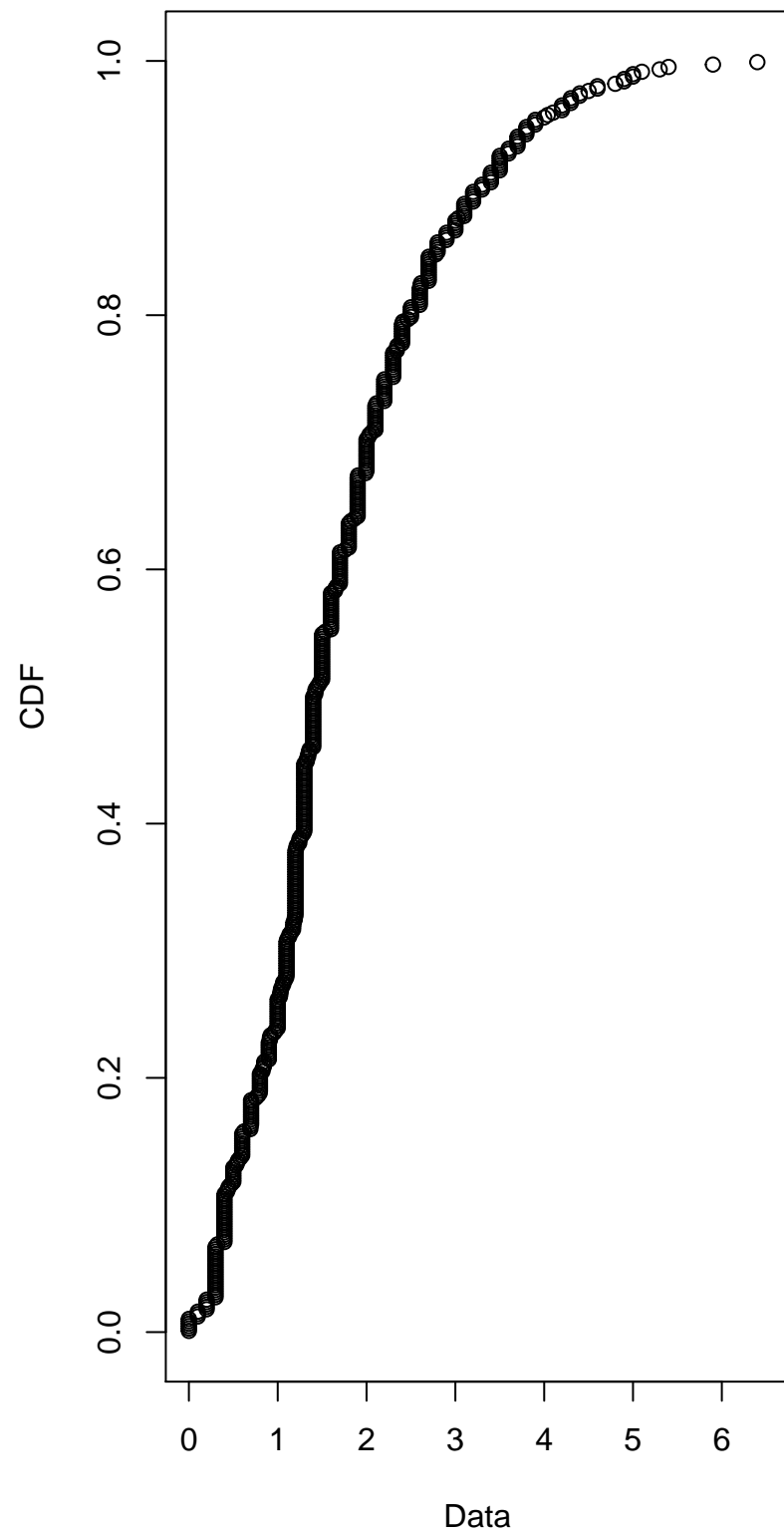
# Summary of the variable

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
0.000	1.000	1.400	1.701	2.200	6.400	86

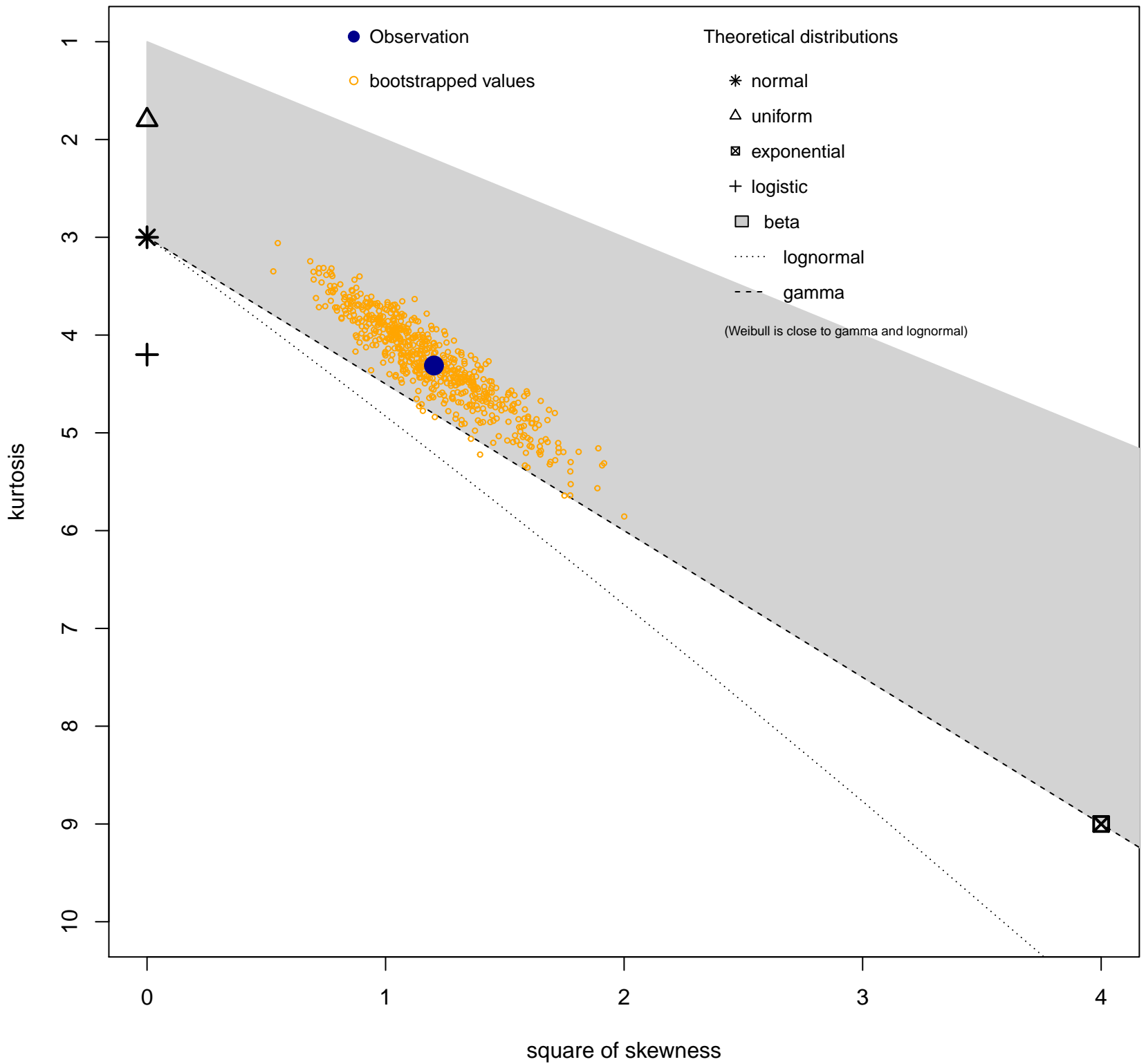
**Empirical density**



**Cumulative distribution**



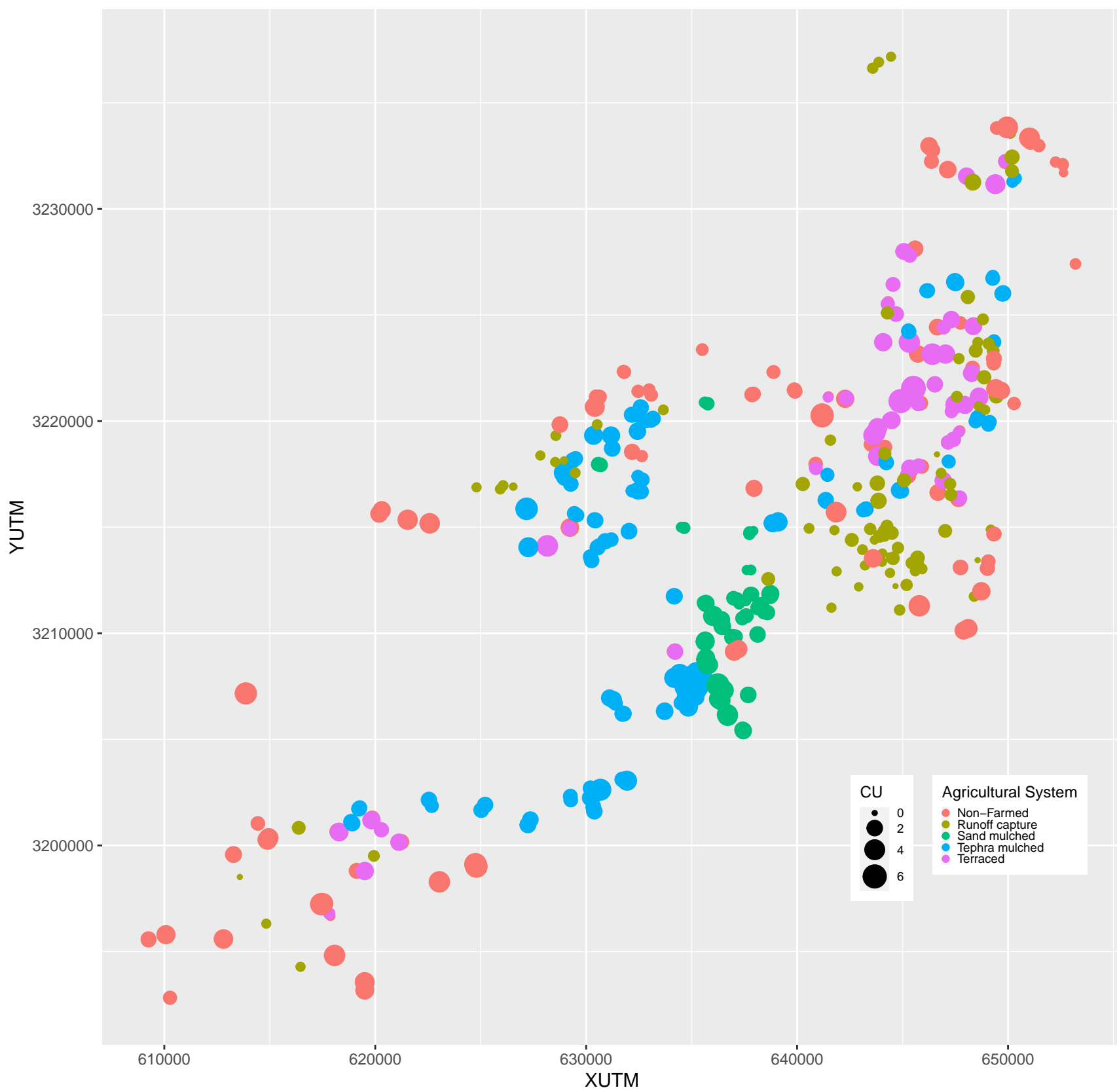
# Cullen and Frey graph



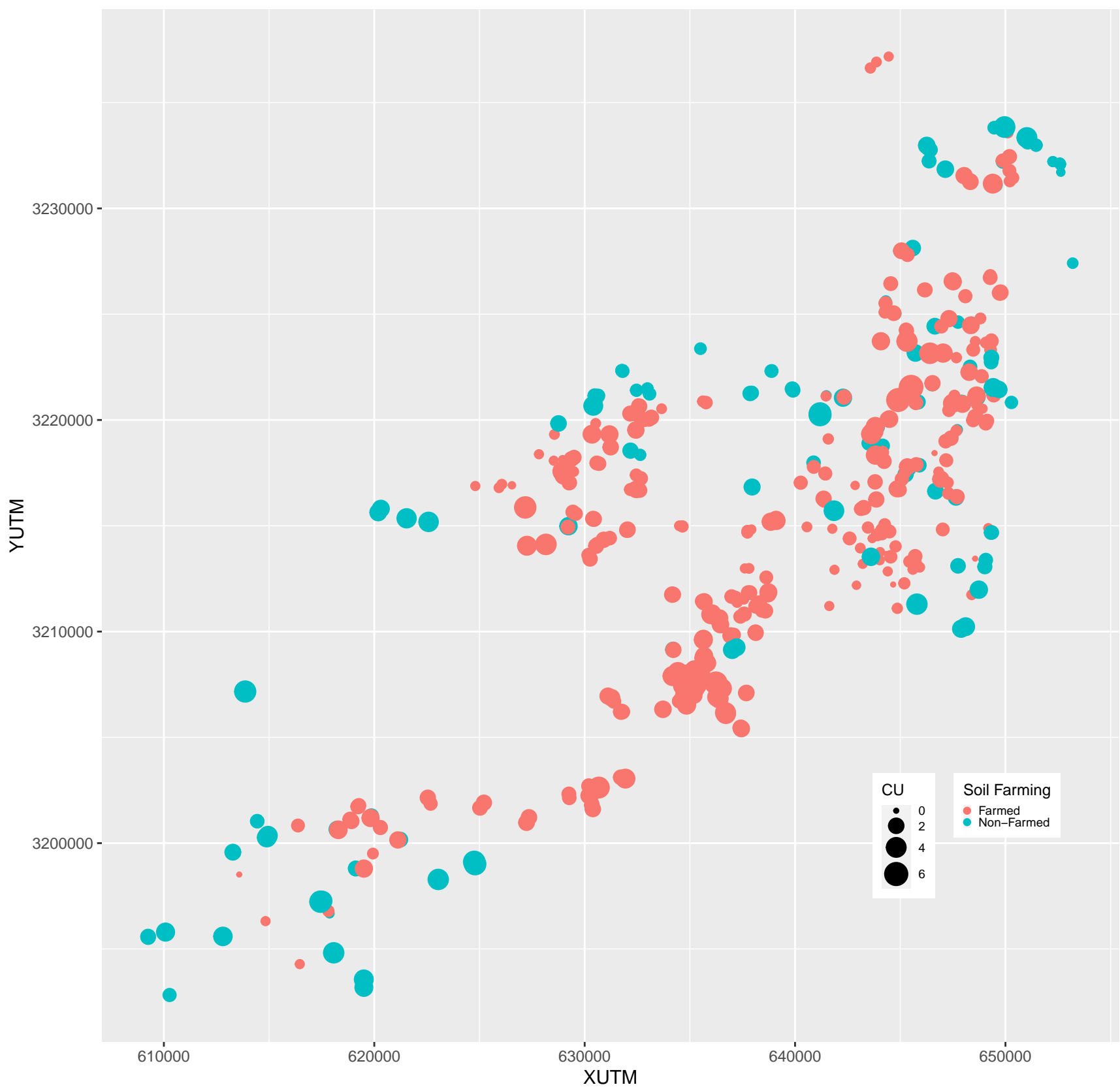
# Shapiro–Wilk test for normality

Shapiro–Wilk normality test
data: dataframe[, variable_chr]
W = 0.92627, p-value = 1.911e-15

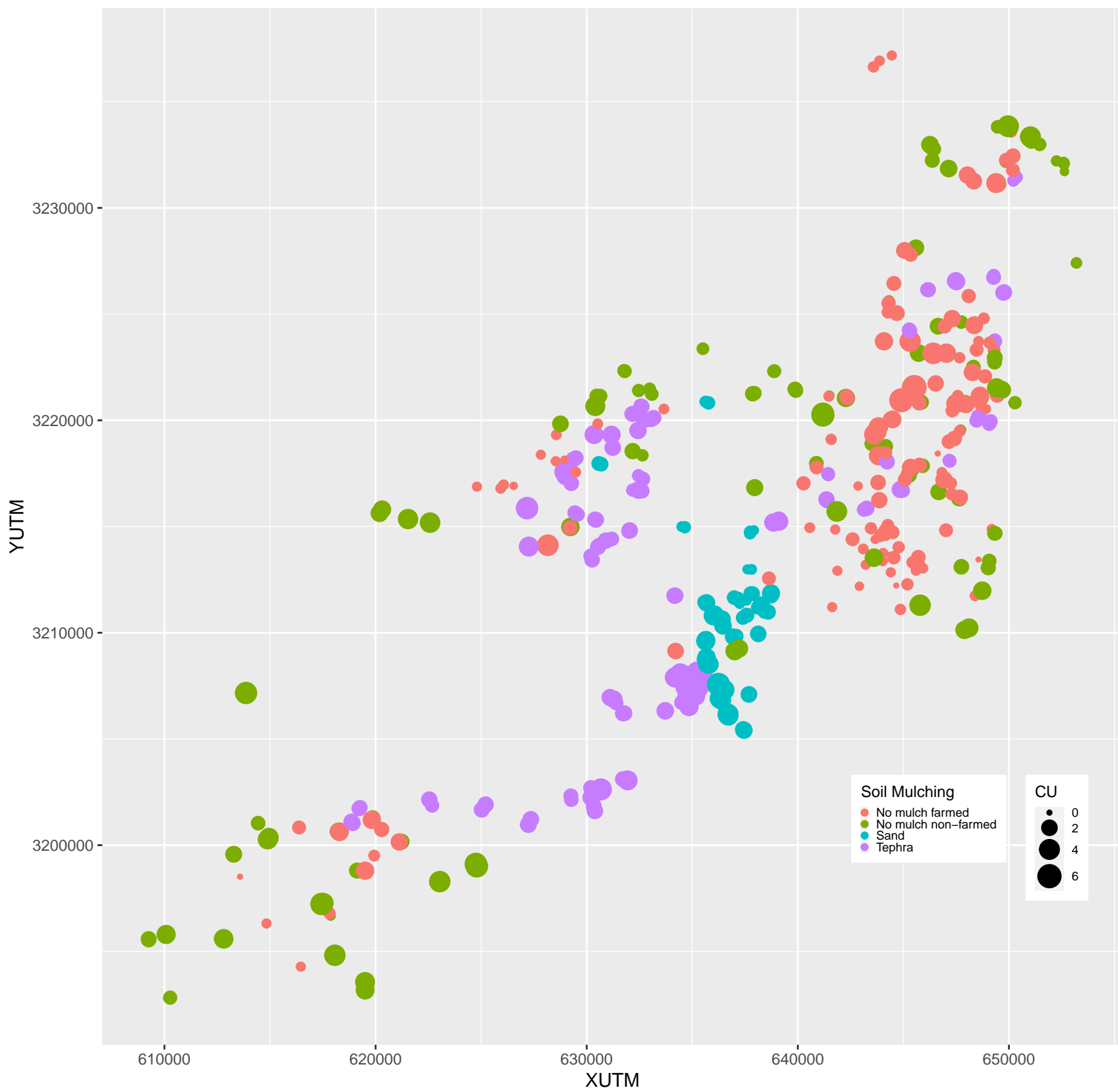
CU according to location and Agricultural System



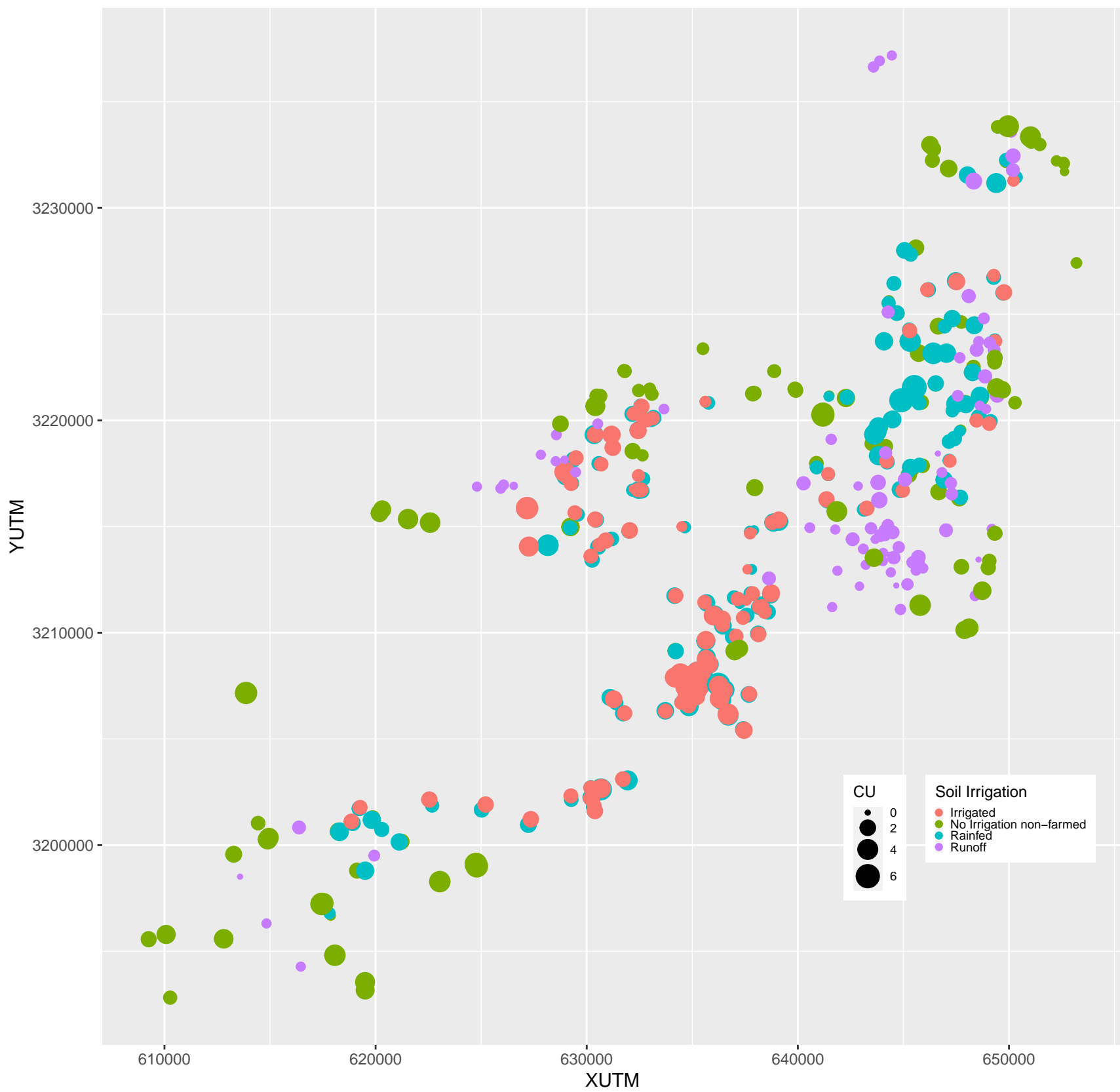
CU according to location and Soil Farming



CU according to location and Soil Mulching

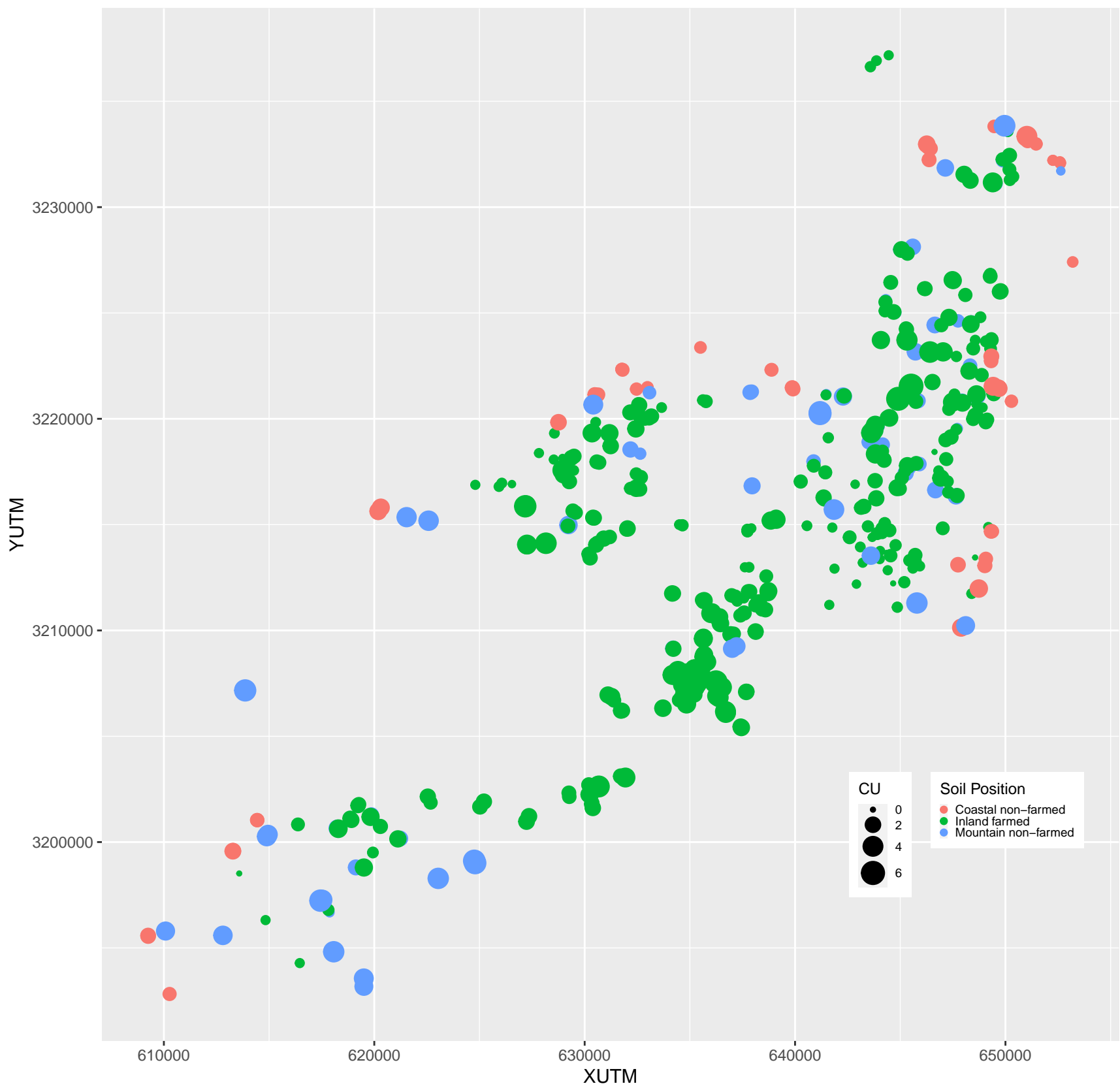


CU according to location and Soil Irrigation

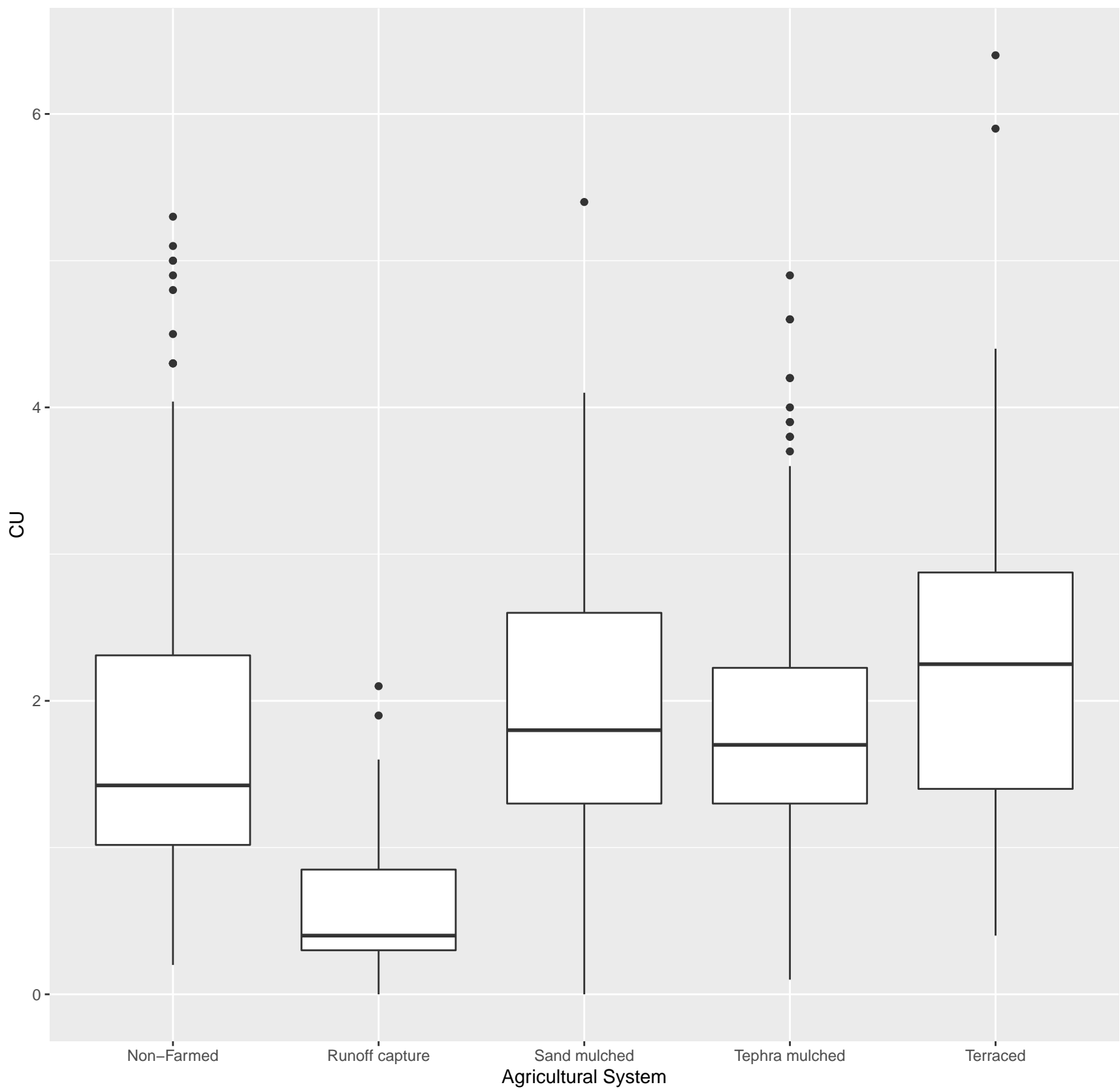




CU according to location and Soil Position



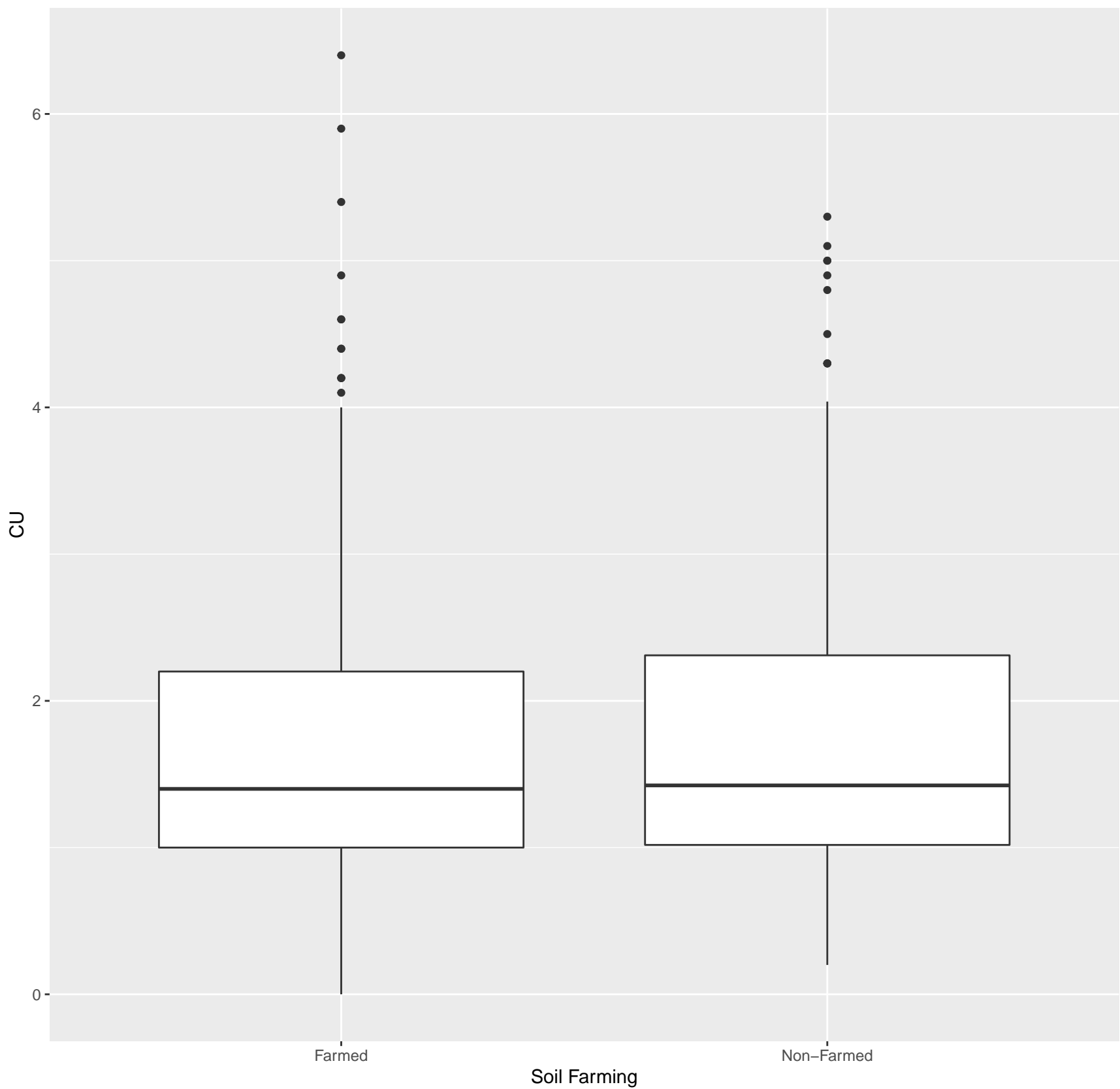
CU to Agricultural System



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	CU	Non-Farmed	Runoff capture	176	83	12705.5	7.66e-22	6.89e-21	****
2	CU	Non-Farmed	Sand mulched	176	60	4661.0	1.76e-01	3.52e-01	ns
3	CU	Non-Farmed	Tephra mulched	176	160	11599.0	5.00e-03	2.60e-02	*
4	CU	Non-Farmed	Terraced	176	50	3101.5	1.00e-03	9.00e-03	**
5	CU	Runoff capture	Sand mulched	83	60	623.5	1.93e-14	1.35e-13	****
6	CU	Runoff capture	Tephra mulched	83	160	740.0	6.18e-30	6.18e-29	****
7	CU	Runoff capture	Terraced	83	50	239.0	1.25e-17	1.00e-16	****
8	CU	Sand mulched	Tephra mulched	60	160	4779.0	9.61e-01	9.61e-01	ns
9	CU	Sand mulched	Terraced	60	50	1234.0	1.11e-01	3.33e-01	ns
10	CU	Tephra mulched	Terraced	160	50	3318.0	6.90e-02	2.75e-01	ns

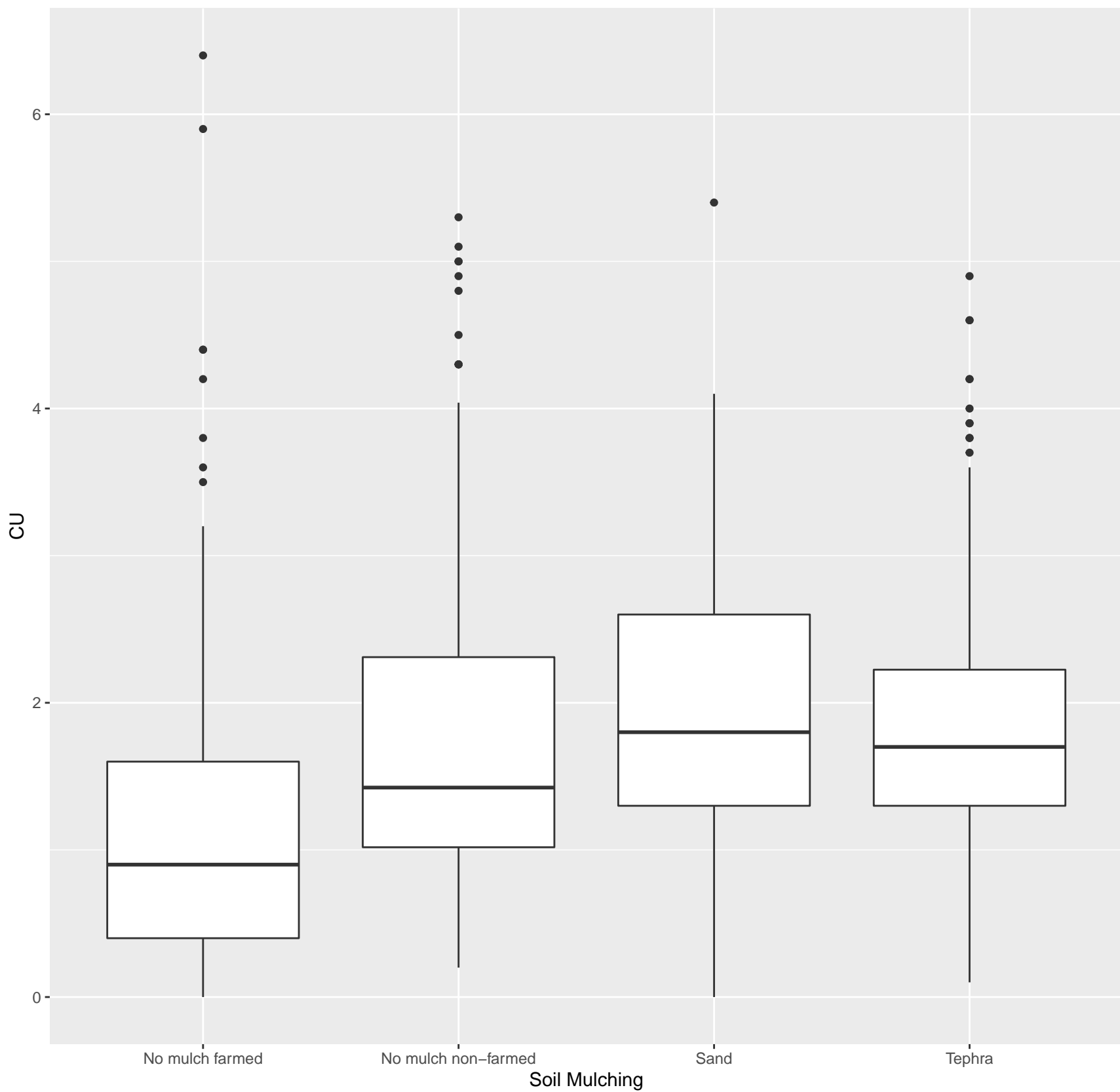
CU to Soil Farming



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p
1	CU	Farmed	Non-Farmed	353	176	30061	0.545

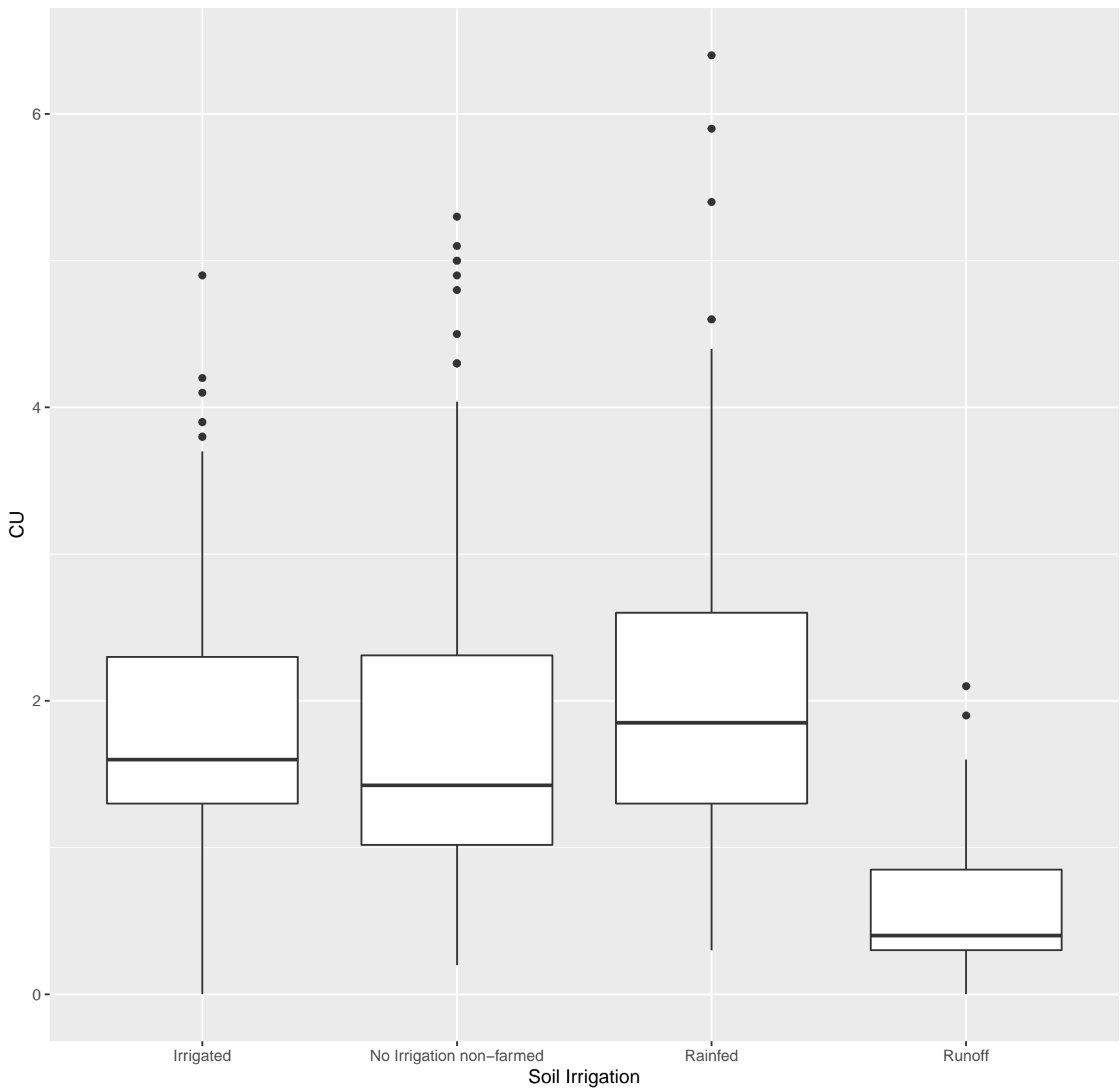
CU to Soil Mulching



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	CU	No mulch farmed	No mulch non-farmed	133	176	7601.0	1.31e-07	6.55e-07	****
2	CU	No mulch farmed	Sand	133	60	2389.5	8.15e-06	3.26e-05	****
3	CU	No mulch farmed	Tephra	133	160	5422.0	4.73e-13	2.84e-12	****
4	CU	No mulch non-farmed	Sand	176	60	4661.0	1.76e-01	3.52e-01	ns
5	CU	No mulch non-farmed	Tephra	176	160	11599.0	5.00e-03	1.60e-02	*
6	CU	Sand	Tephra	60	160	4779.0	9.61e-01	9.61e-01	ns

CU to Soil Irrigation

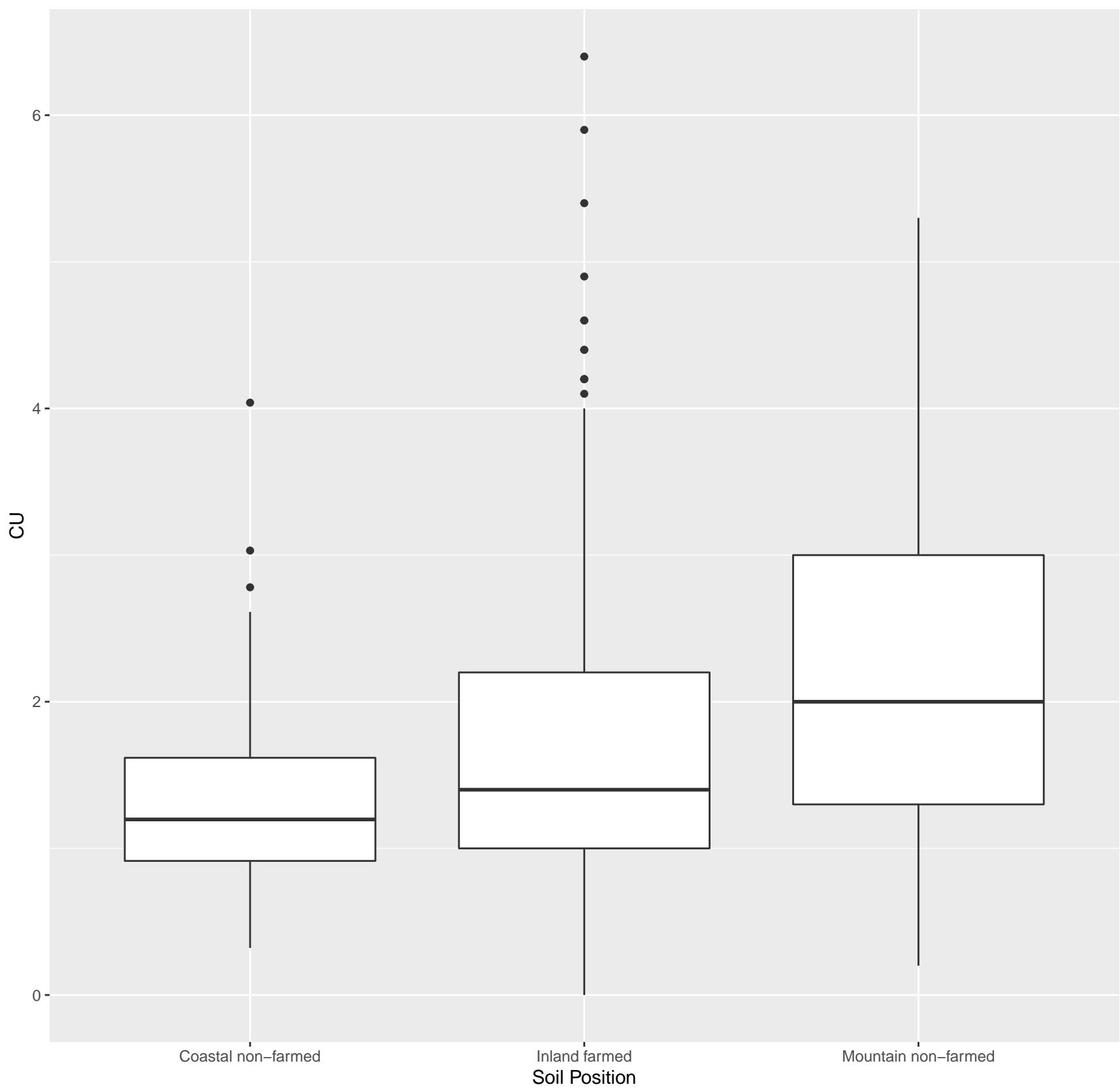




# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	CU	Irrigated	No Irrigation non-farmed	110	176	10945.0	6.30e-02	1.26e-01	ns
2	CU	Irrigated	Rainfed	110	160	7863.5	1.37e-01	1.37e-01	ns
3	CU	Irrigated	Runoff	110	83	8347.5	6.25e-23	3.12e-22	****
4	CU	No Irrigation non-farmed	Rainfed	176	160	10946.5	4.25e-04	1.00e-03	**
5	CU	No Irrigation non-farmed	Runoff	176	83	12705.5	7.66e-22	3.06e-21	****
6	CU	Rainfed	Runoff	160	83	12460.0	3.69e-29	2.21e-28	****

CU to Soil Position



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	CU	Coastal non-farmed	Inland farmed	90	353	13109	1.00e-02	1.00e-02	*
2	CU	Coastal non-farmed	Mountain non-farmed	90	86	2248	1.59e-06	4.77e-06	****
3	CU	Inland farmed	Mountain non-farmed	353	86	11400	3.39e-04	6.78e-04	***