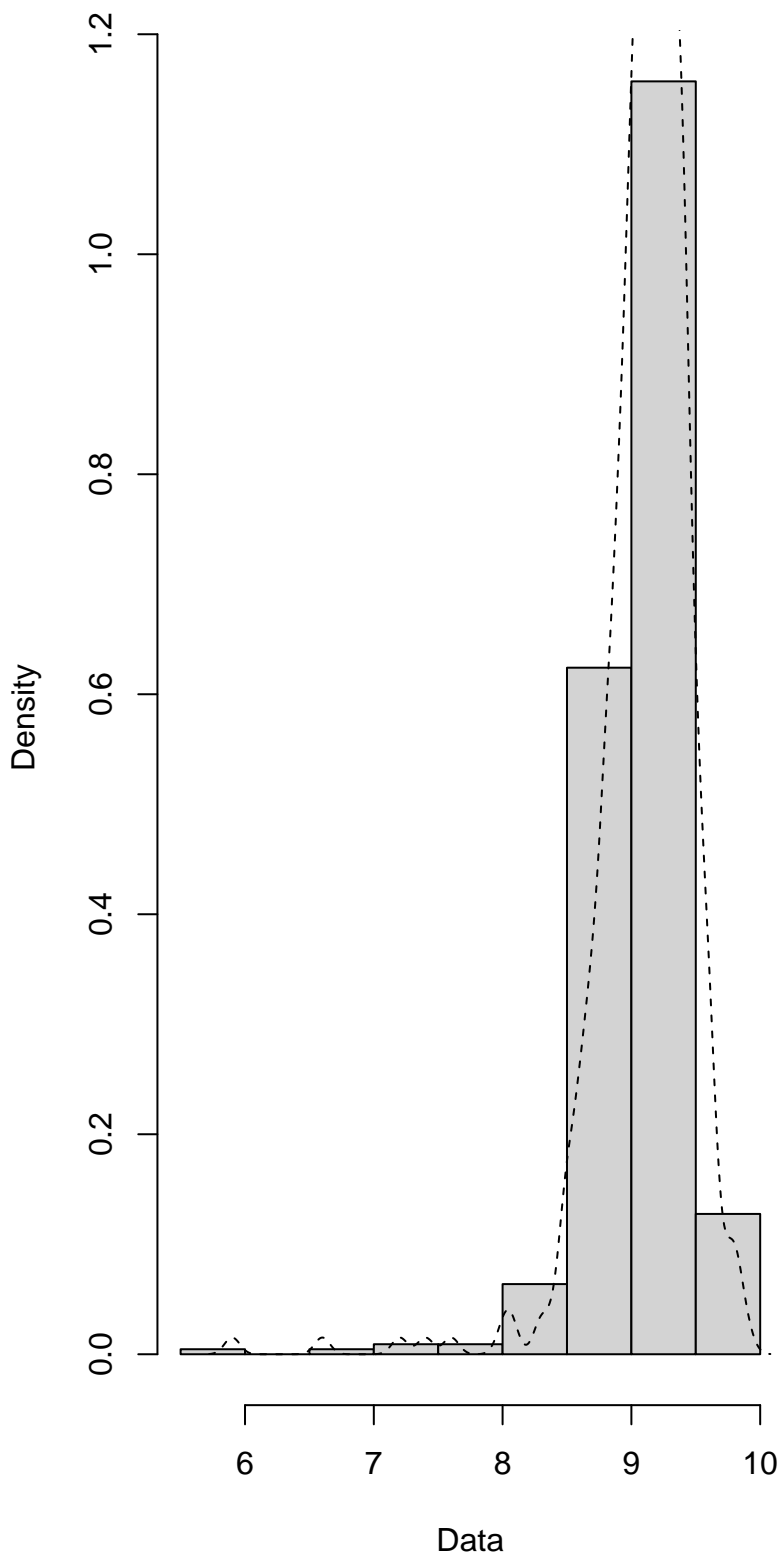


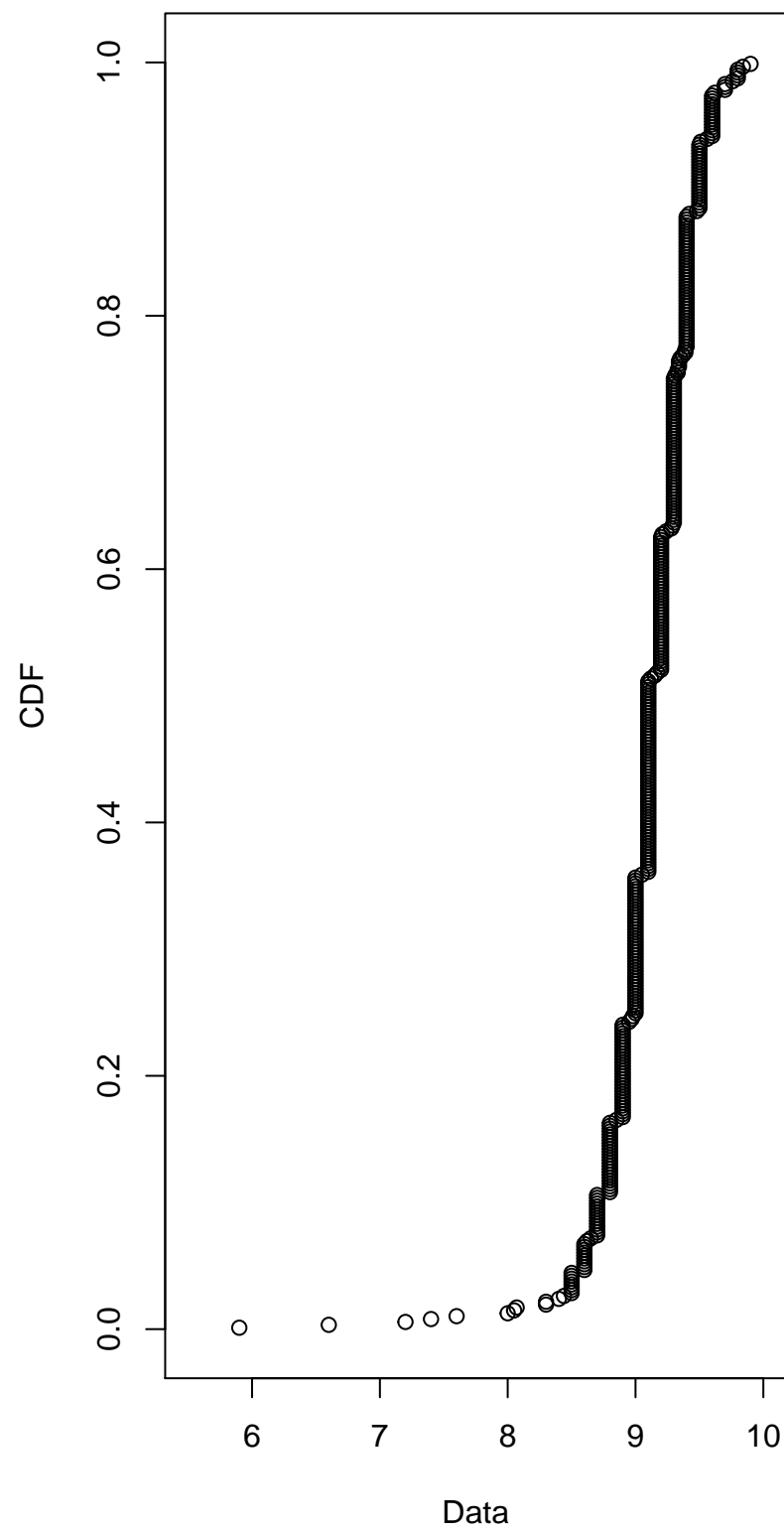
# Summary of the variable

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
5.90	9.00	9.10	9.11	9.30	9.90	176

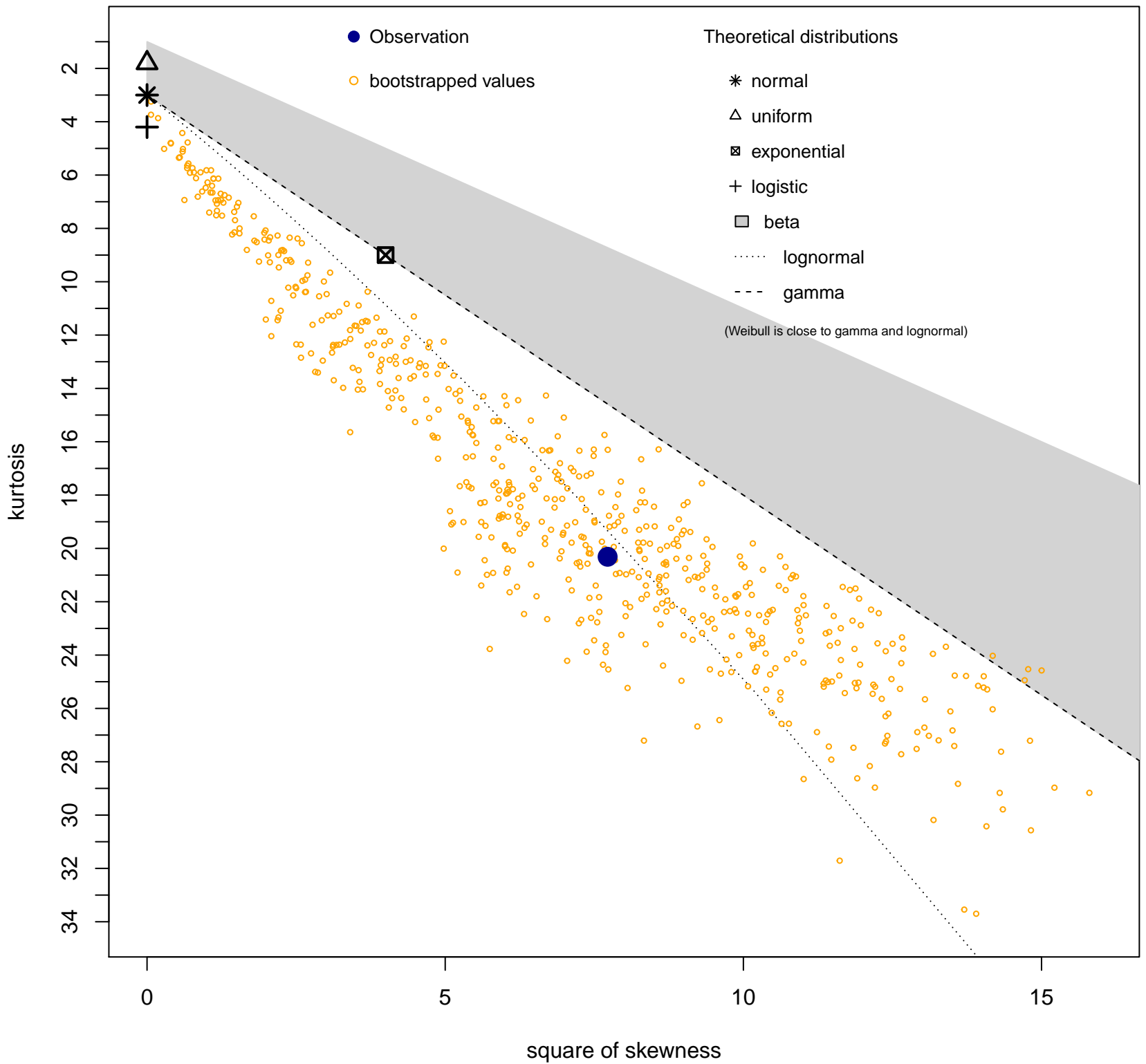
**Empirical density**



**Cumulative distribution**



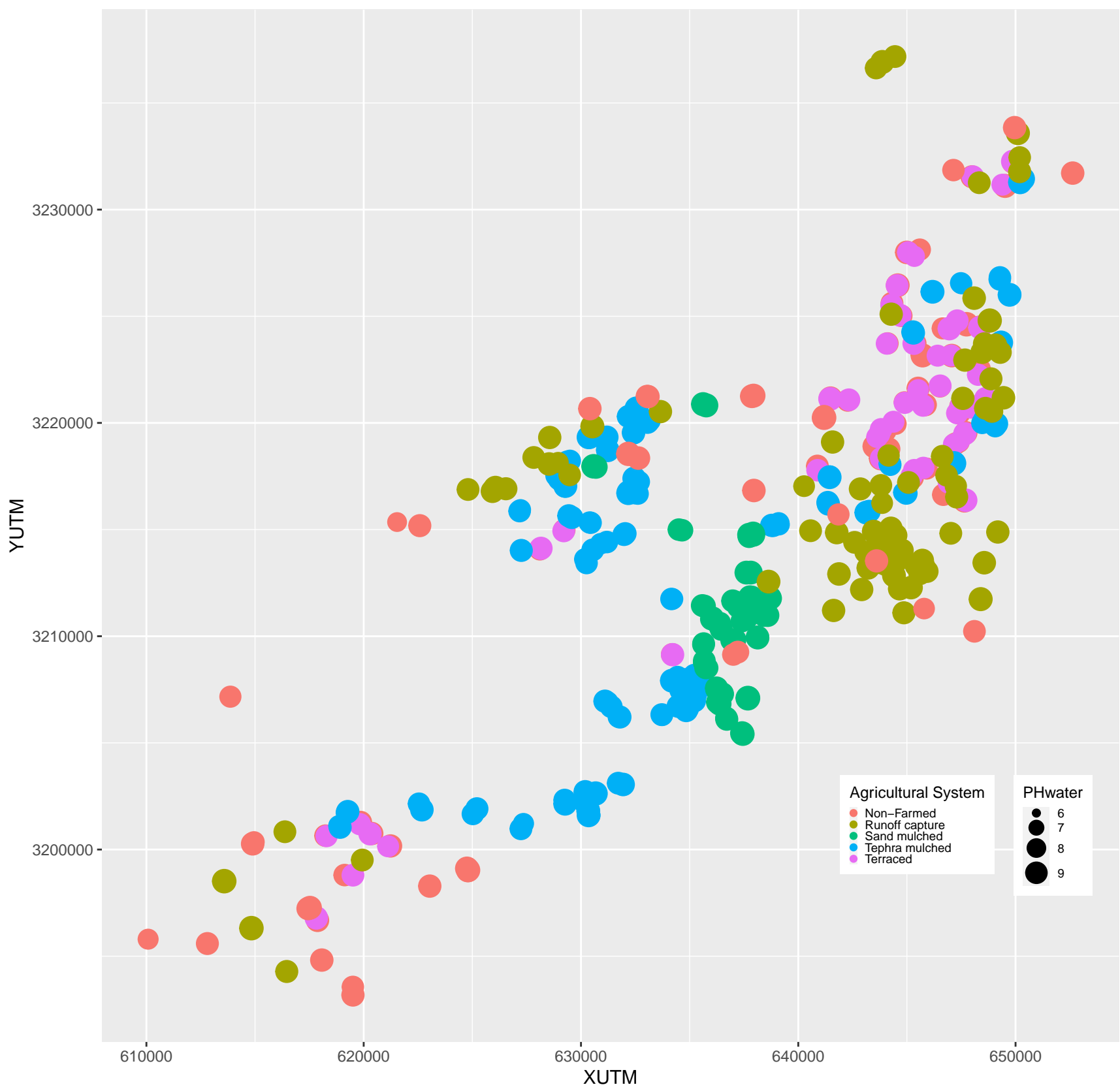
# Cullen and Frey graph



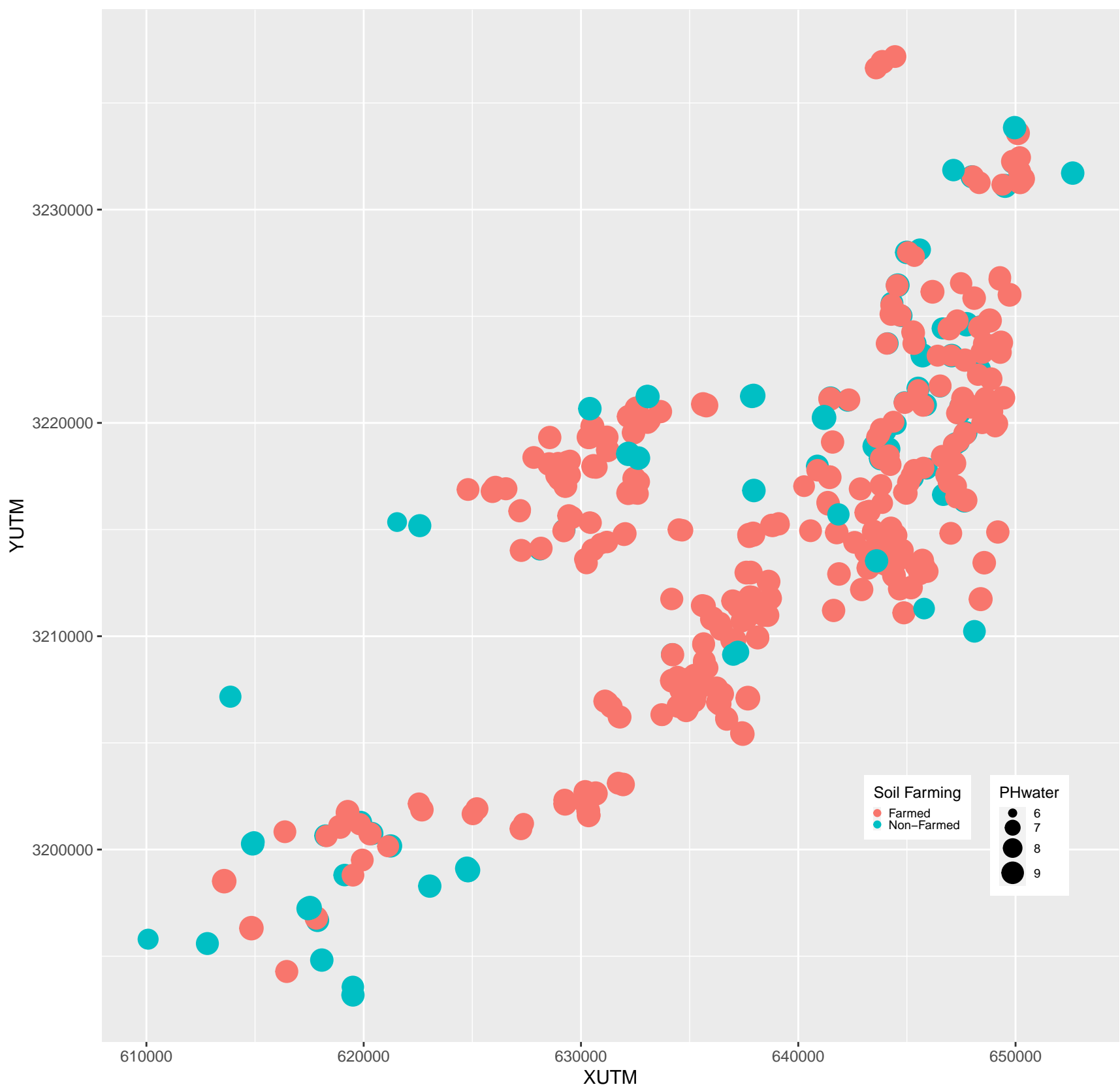
# Shapiro–Wilk test for normality

Shapiro–Wilk normality test
data: dataframe[, variable_chr]
W = 0.81801, p-value < 2.2e-16

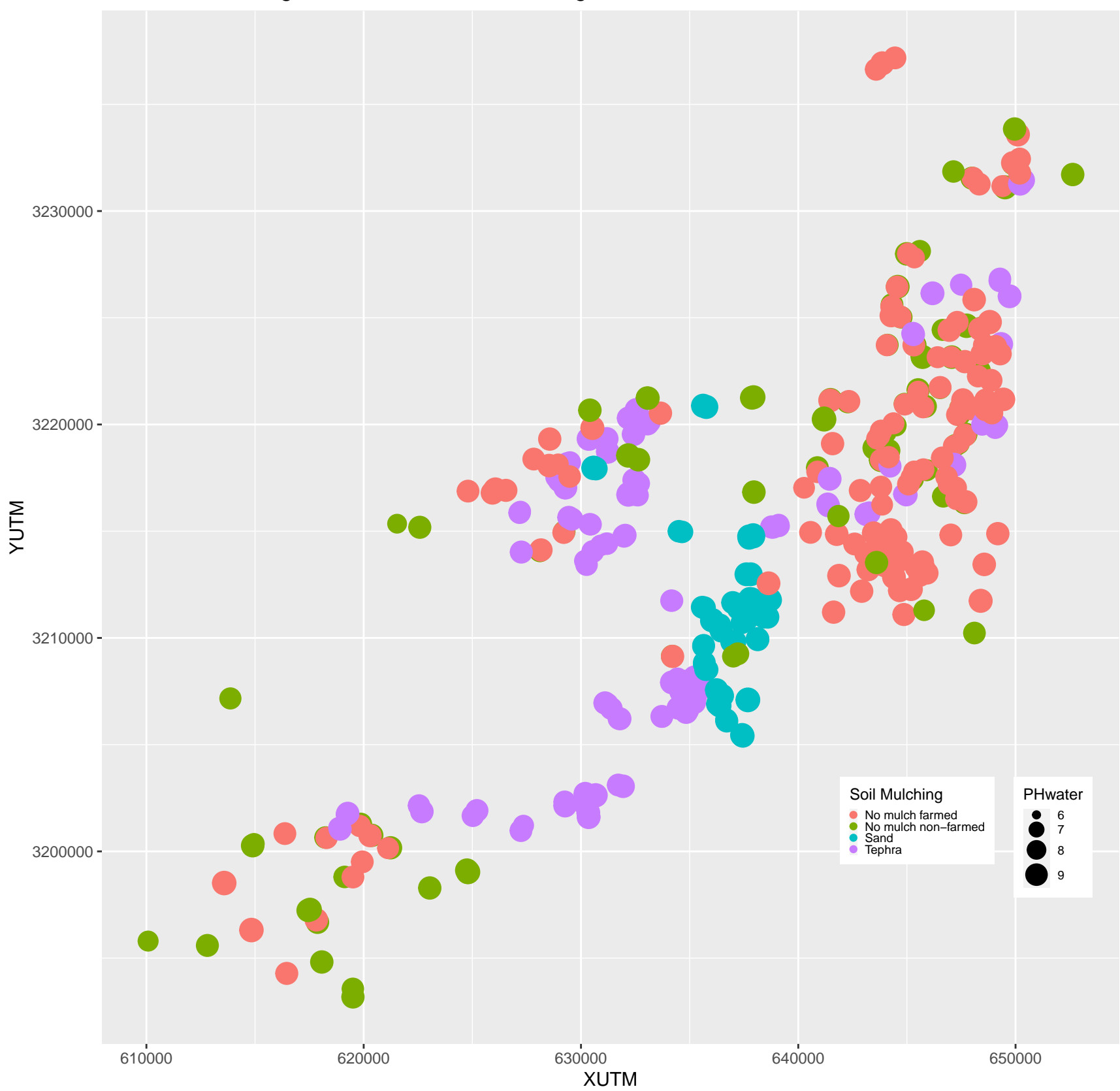
PHwater according to location and Agricultural System



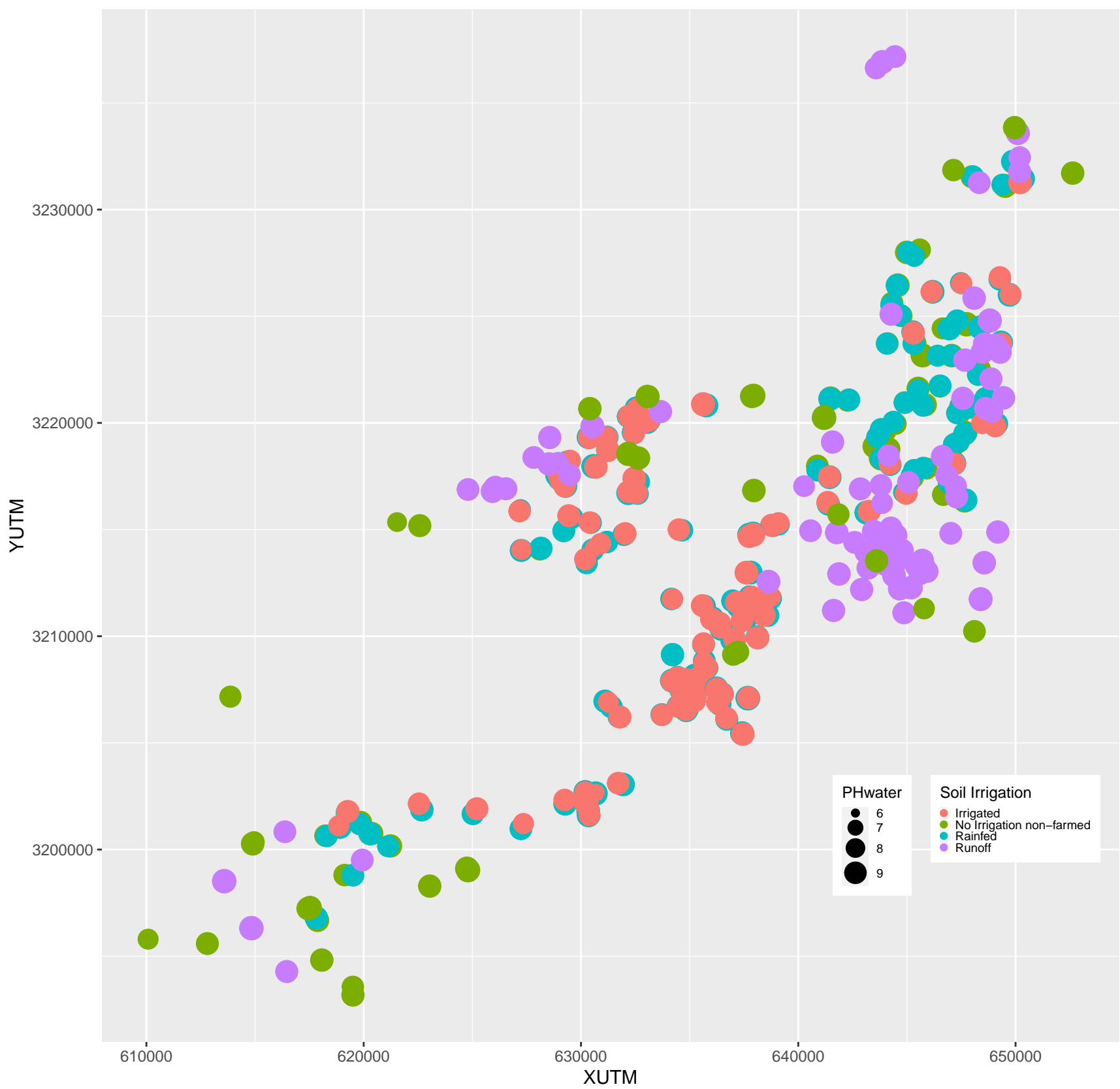
PHwater according to location and Soil Farming



PHwater according to location and Soil Mulching

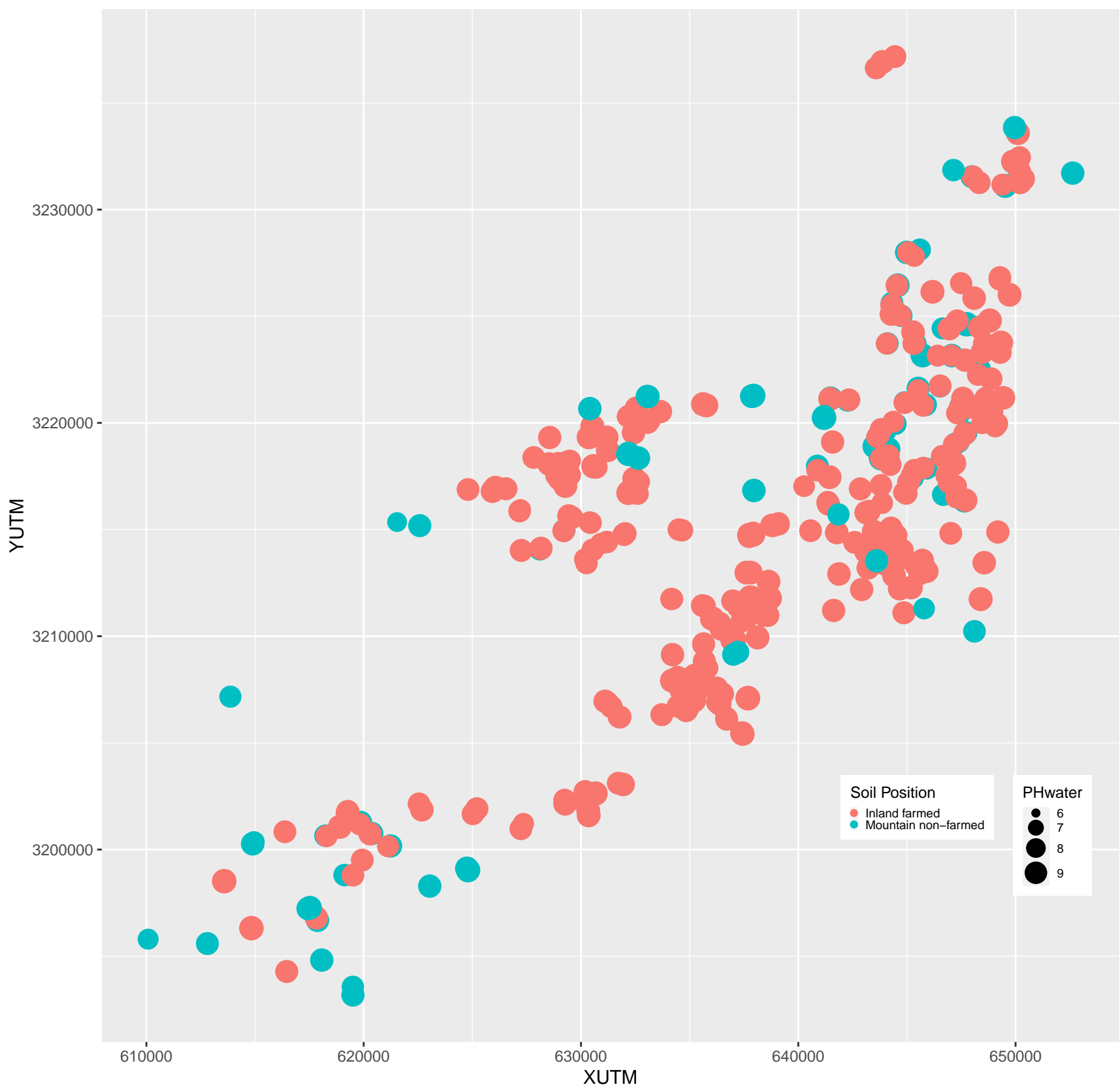


PHwater according to location and Soil Irrigation

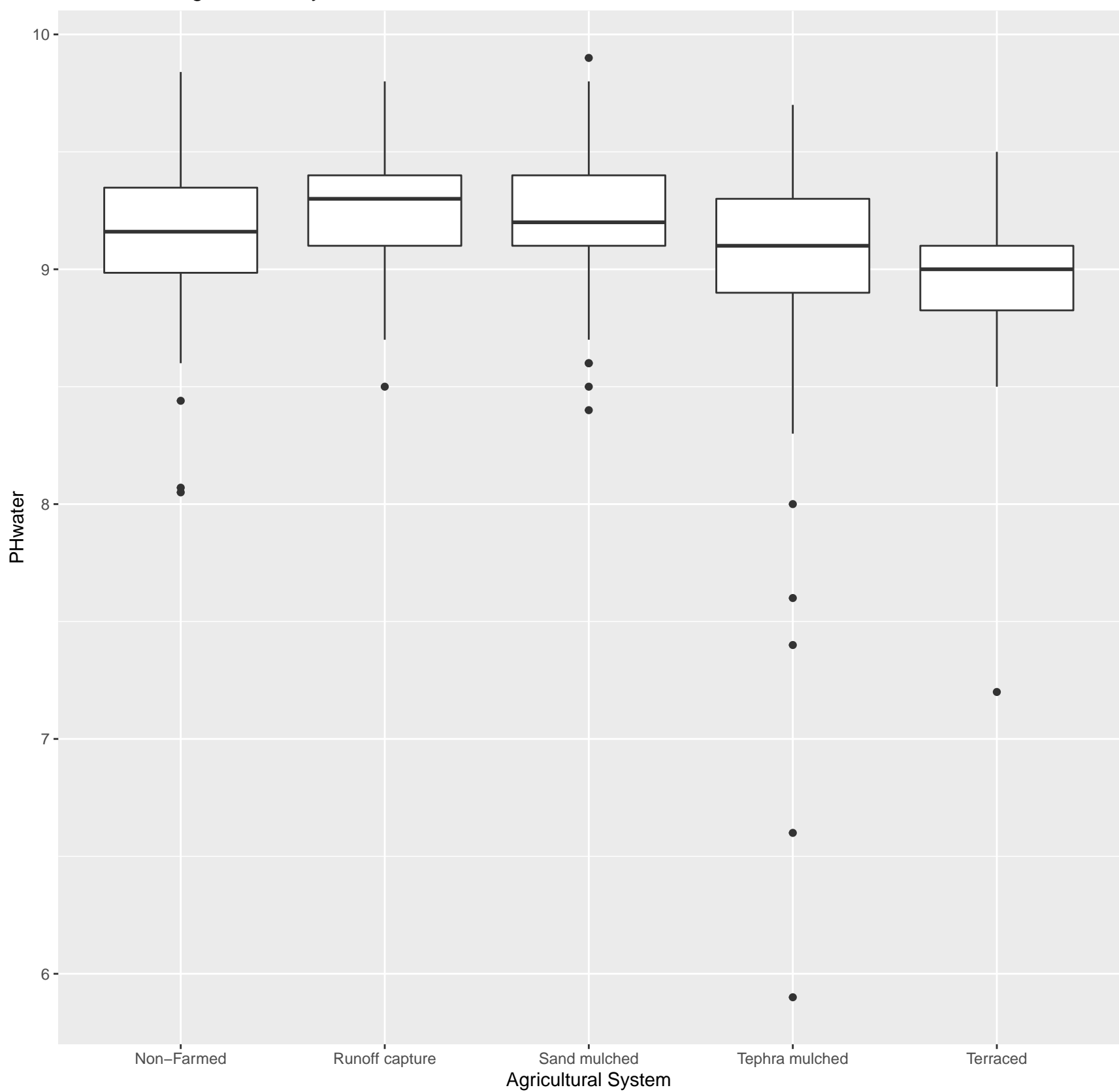




PHwater according to location and Soil Position



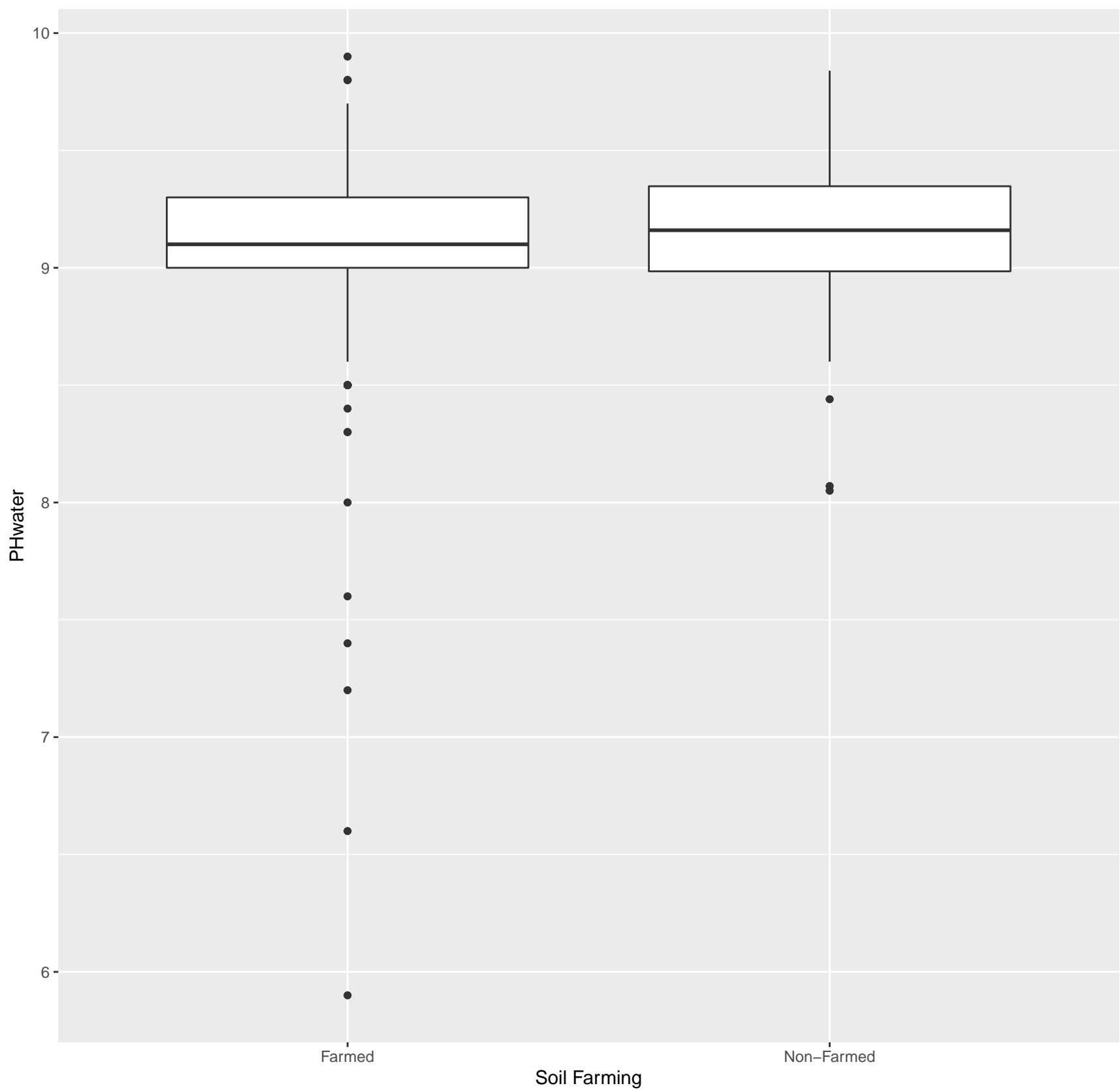
PHwater to Agricultural System



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	PHwater	Non-Farmed	Runoff capture	86	83	2882.5	3.00e-02	1.21e-01	ns
2	PHwater	Non-Farmed	Sand mulched	86	60	2251.0	1.90e-01	5.28e-01	ns
3	PHwater	Non-Farmed	Tephra mulched	86	160	8077.0	2.40e-02	1.20e-01	ns
4	PHwater	Non-Farmed	Terraced	86	50	2809.0	3.00e-03	1.70e-02	*
5	PHwater	Runoff capture	Sand mulched	83	60	2666.5	4.66e-01	5.28e-01	ns
6	PHwater	Runoff capture	Tephra mulched	83	160	9161.5	1.06e-06	9.54e-06	****
7	PHwater	Runoff capture	Terraced	83	50	3192.5	1.66e-07	1.66e-06	****
8	PHwater	Sand mulched	Tephra mulched	60	160	6291.5	3.63e-04	3.00e-03	**
9	PHwater	Sand mulched	Terraced	60	50	2198.0	2.43e-05	1.94e-04	***
10	PHwater	Tephra mulched	Terraced	160	50	4505.5	1.76e-01	5.28e-01	ns

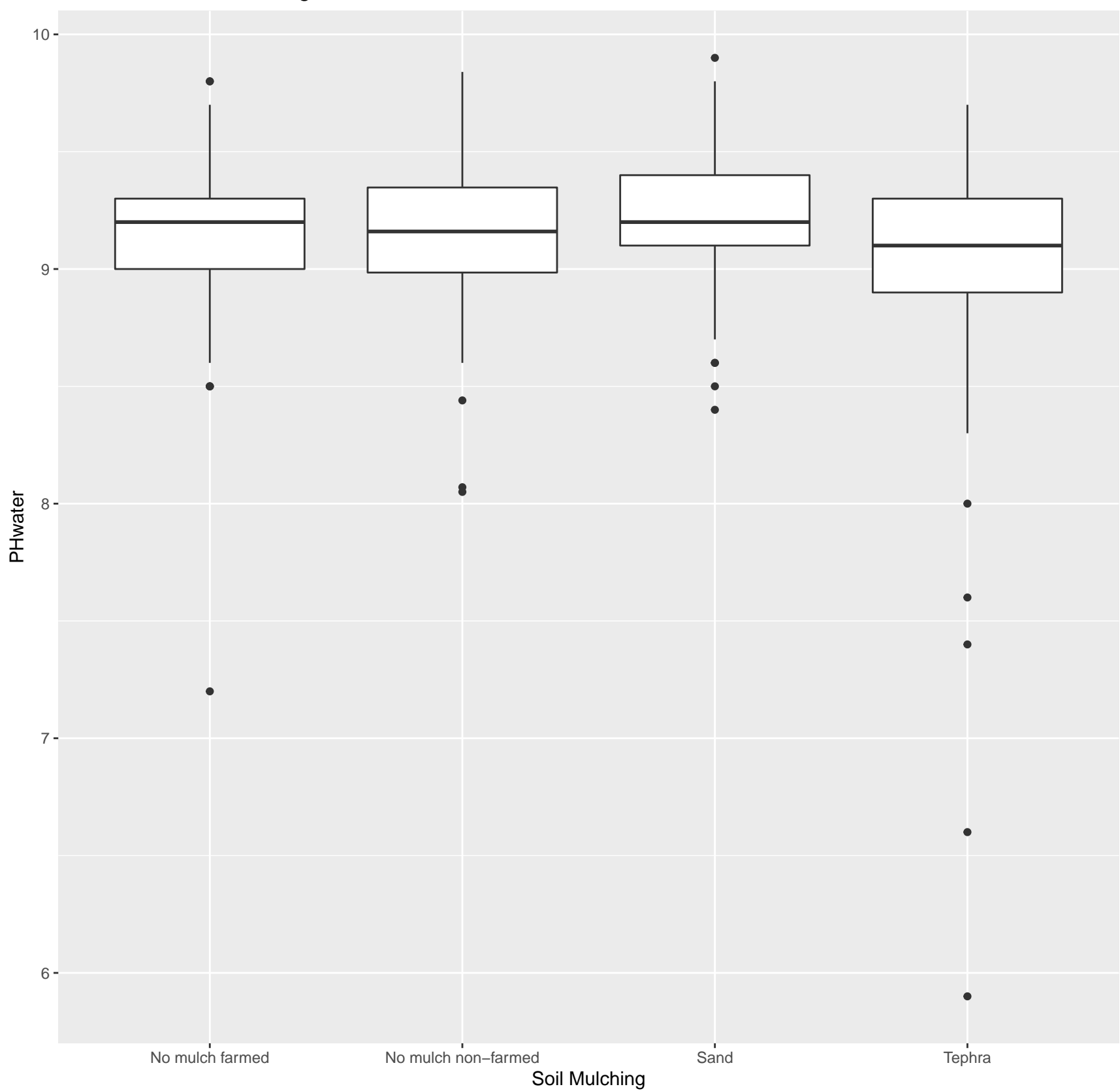
PHwater to Soil Farming



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p
1	PHwater	Farmed	Non-Farmed	353	86	14338.5	0.424

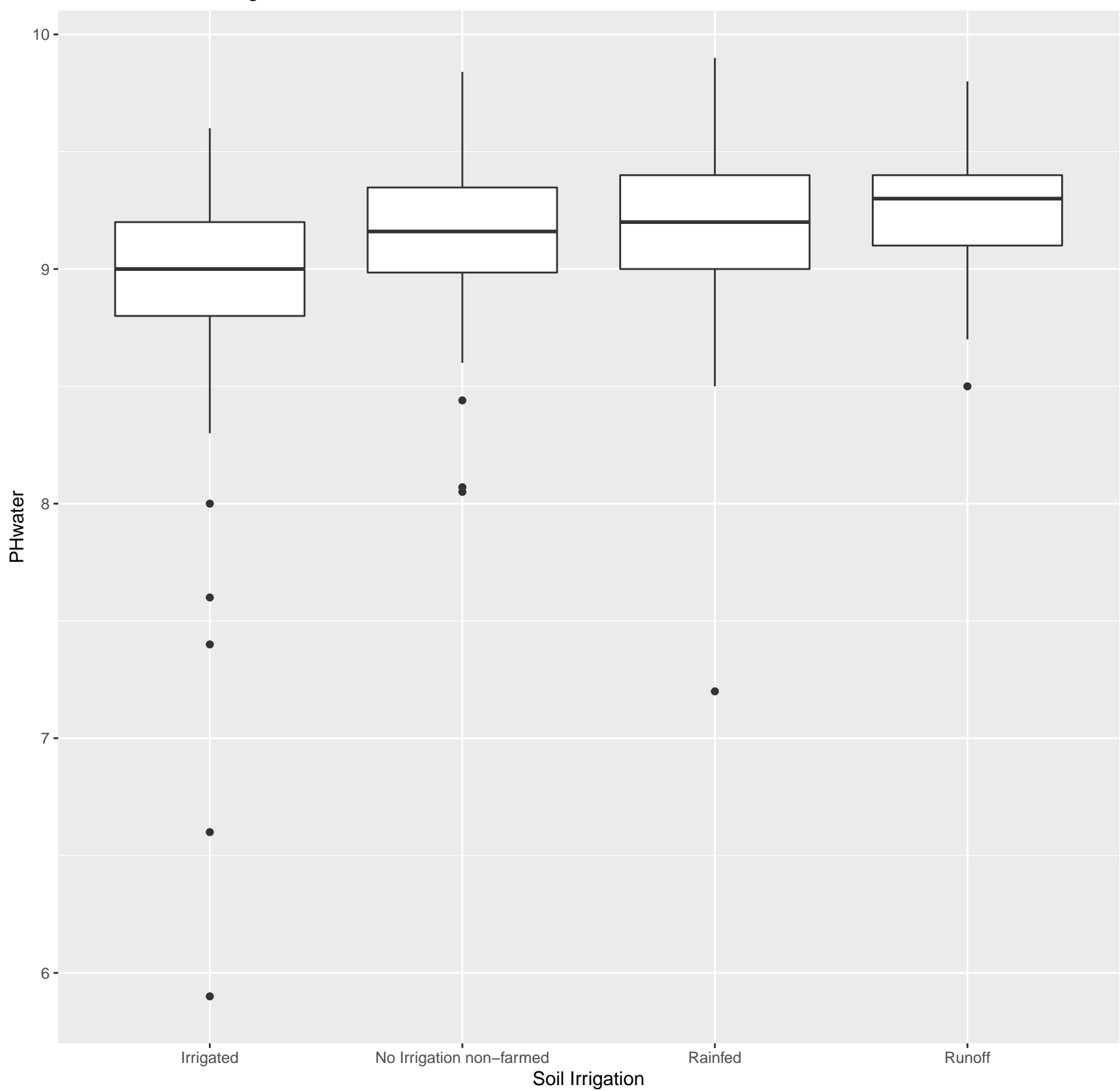
# PHwater to Soil Mulching



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
1	PHwater	No mulch farmed	No mulch non–farmed	133	86	5746.5	0.953000	0.953	ns
2	PHwater	No mulch farmed	Sand	133	60	3468.5	0.143000	0.429	ns
3	PHwater	No mulch farmed	Tephra	133	160	12656.0	0.005000	0.025	*
4	PHwater	No mulch non–farmed	Sand	86	60	2251.0	0.190000	0.429	ns
5	PHwater	No mulch non–farmed	Tephra	86	160	8077.0	0.024000	0.096	ns
6	PHwater	Sand	Tephra	60	160	6291.5	0.000363	0.002	**

PHwater to Soil Irrigation

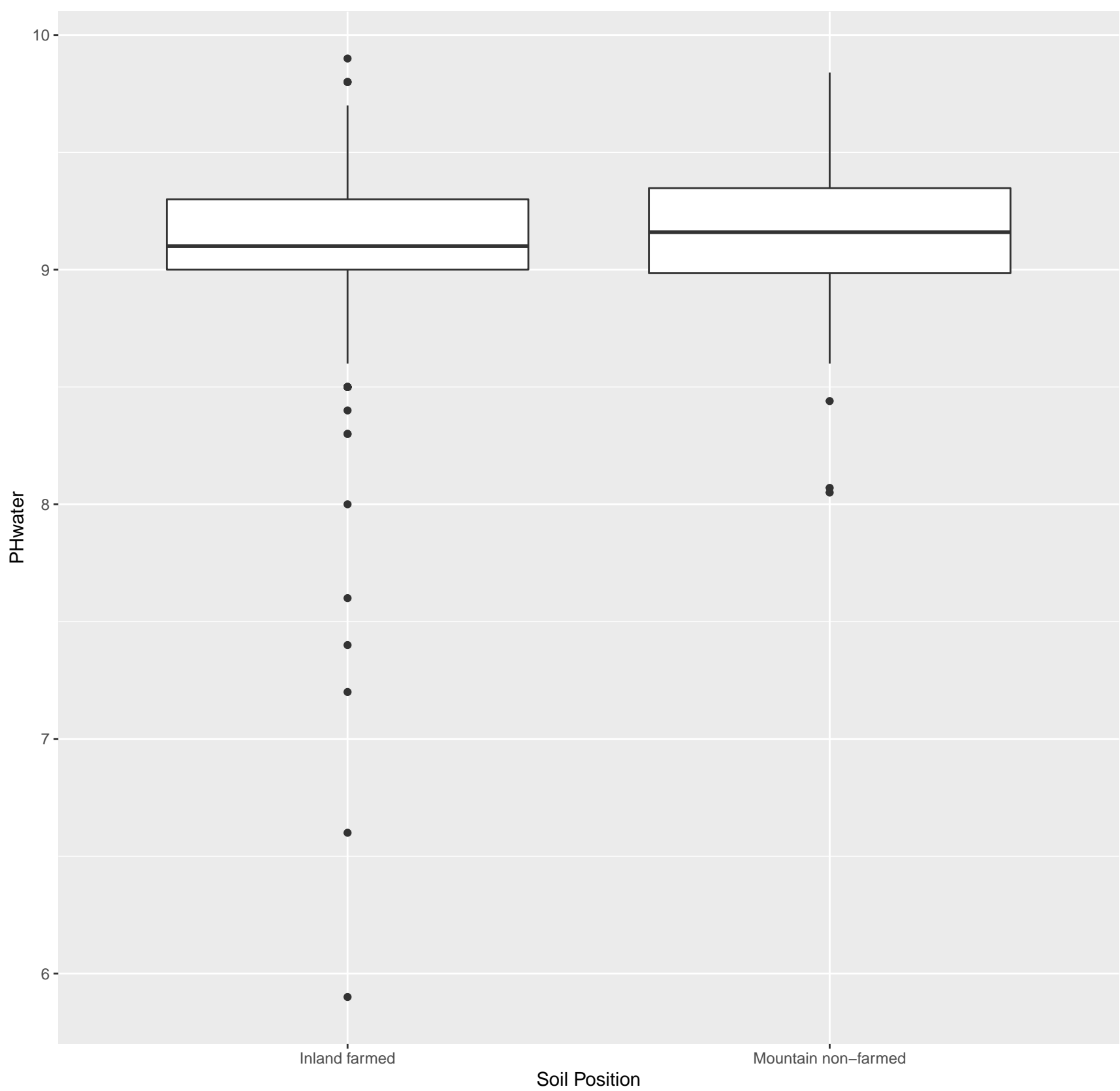




# Wilcox test for mean comparison

.y.	group1	group2	n1	n2	statistic	p	p.adj	p.adj.signif
PHwater	Irrigated	No Irrigation non-farmed	110	86	3259.5	1.82e-04	7.28e-04	***
PHwater	Irrigated	Rainfed	110	160	5980.5	6.89e-06	3.44e-05	****
PHwater	Irrigated	Runoff	110	83	2135.0	1.97e-10	1.18e-09	****
PHwater	No Irrigation non-farmed	Rainfed	86	160	6936.5	9.16e-01	9.16e-01	ns
PHwater	No Irrigation non-farmed	Runoff	86	83	2882.5	3.00e-02	6.10e-02	ns
PHwater	Rainfed	Runoff	160	83	5254.5	7.00e-03	2.20e-02	*

PHwater to Soil Position



# Wilcox test for mean comparison

	.y.	group1	group2	n1	n2	statistic
1	PHwater	Inland farmed	Mountain non-farmed	353	86	14338.5
						0.424