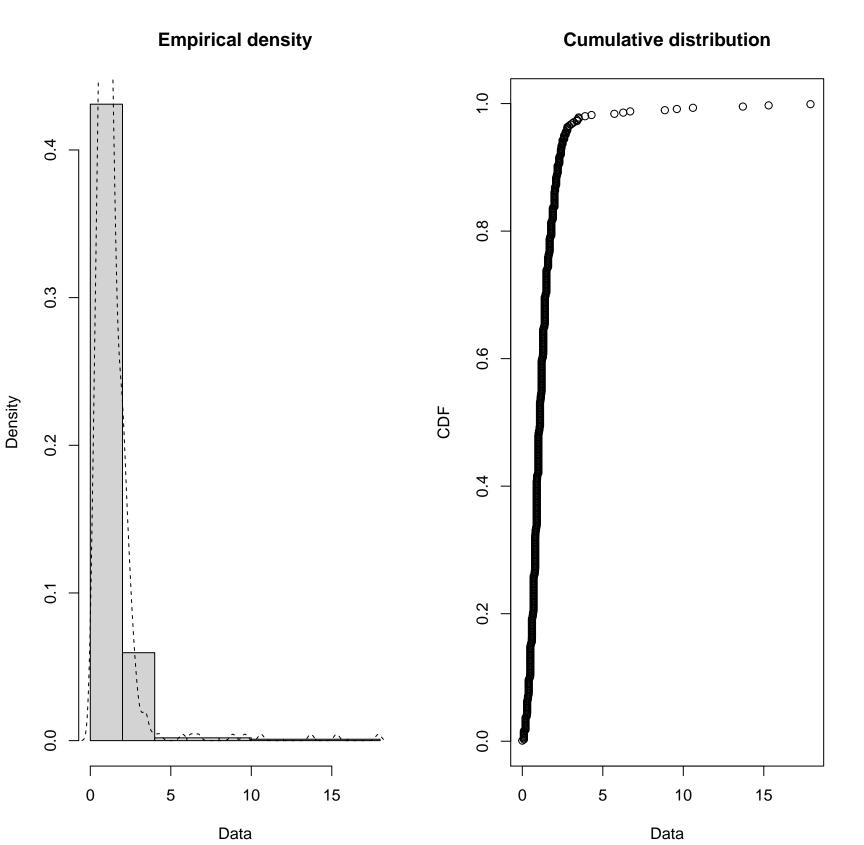
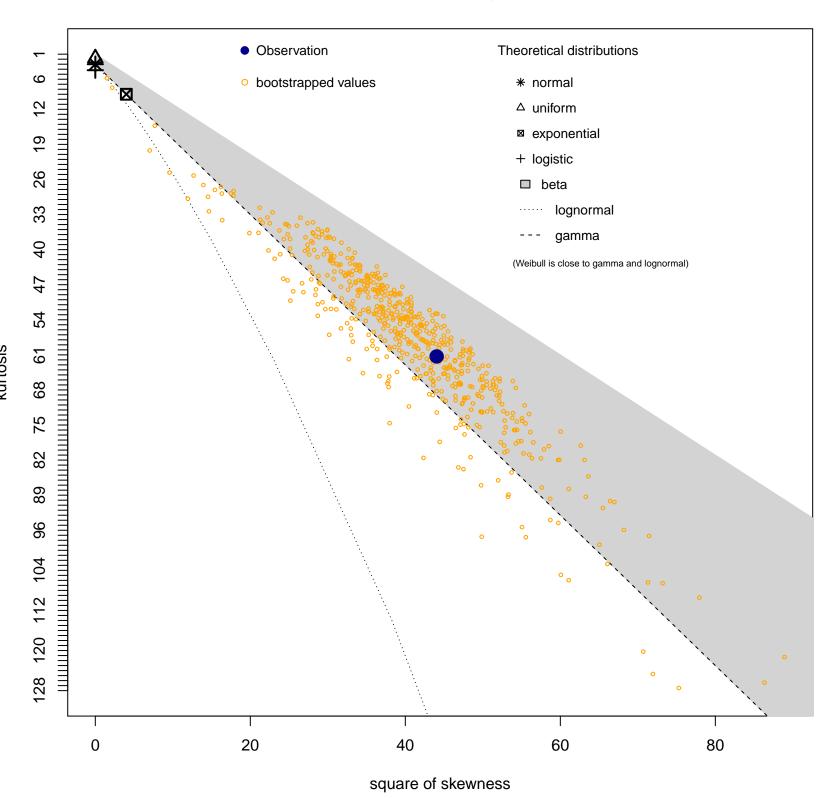
Summary of the variable

Min. 1st Qu. Median Mean 3rd Qu. Max. NA's 0.000 0.700 1.100 1.355 1.600 17.900 86



Cullen and Frey graph



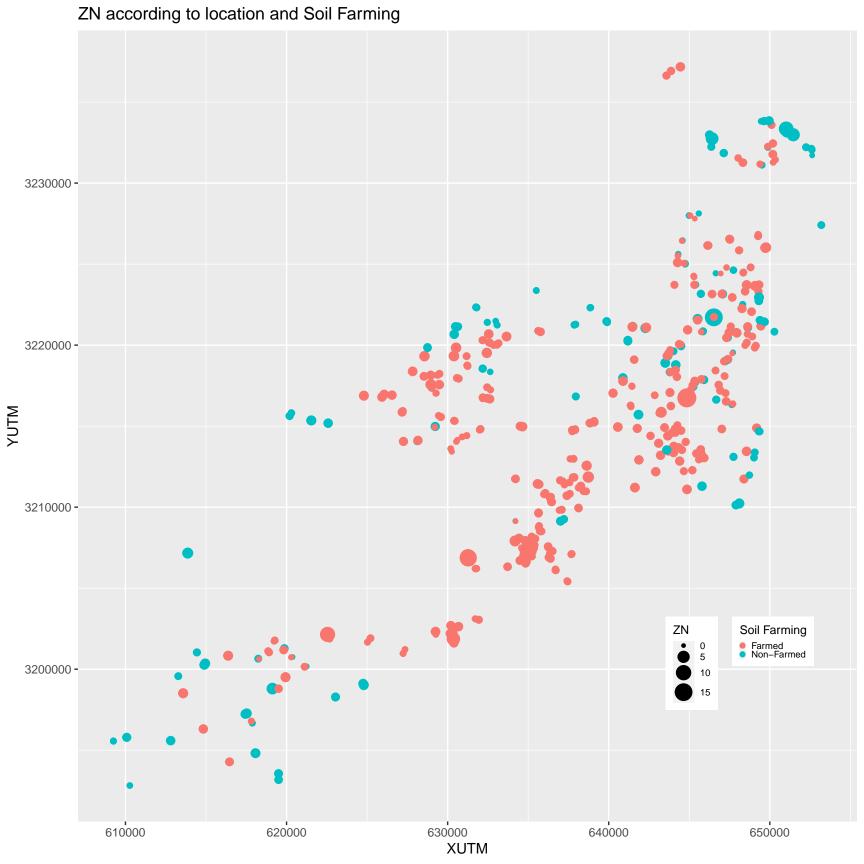
Shapiro-Wilk test for normality

Shapiro-Wilk normality test

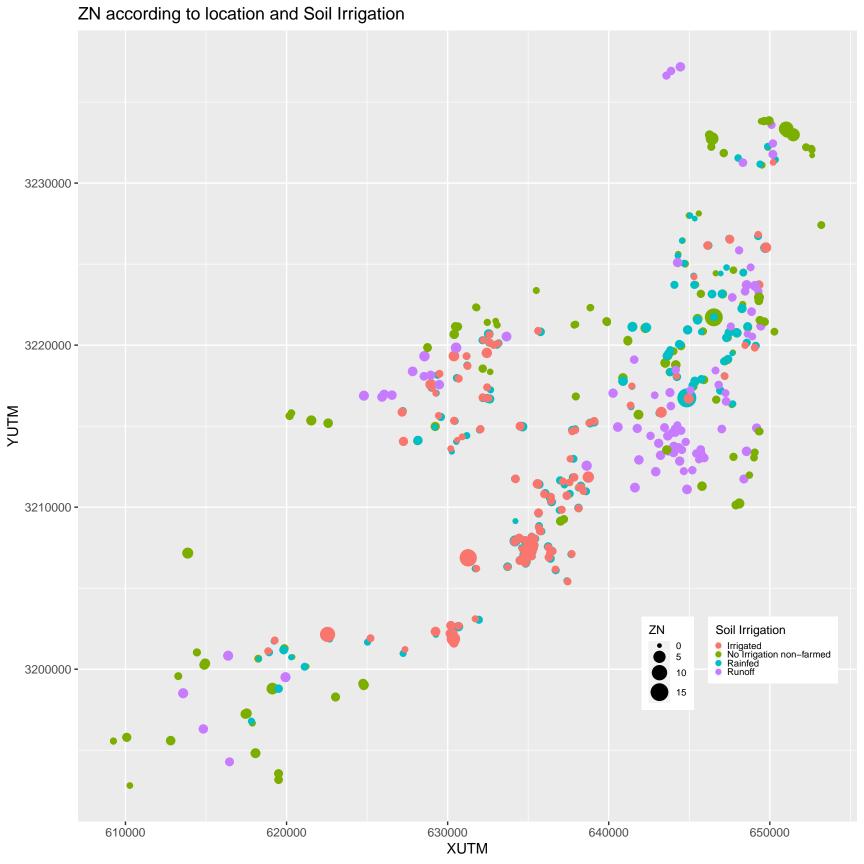
data: dataframe[, variable_chr]

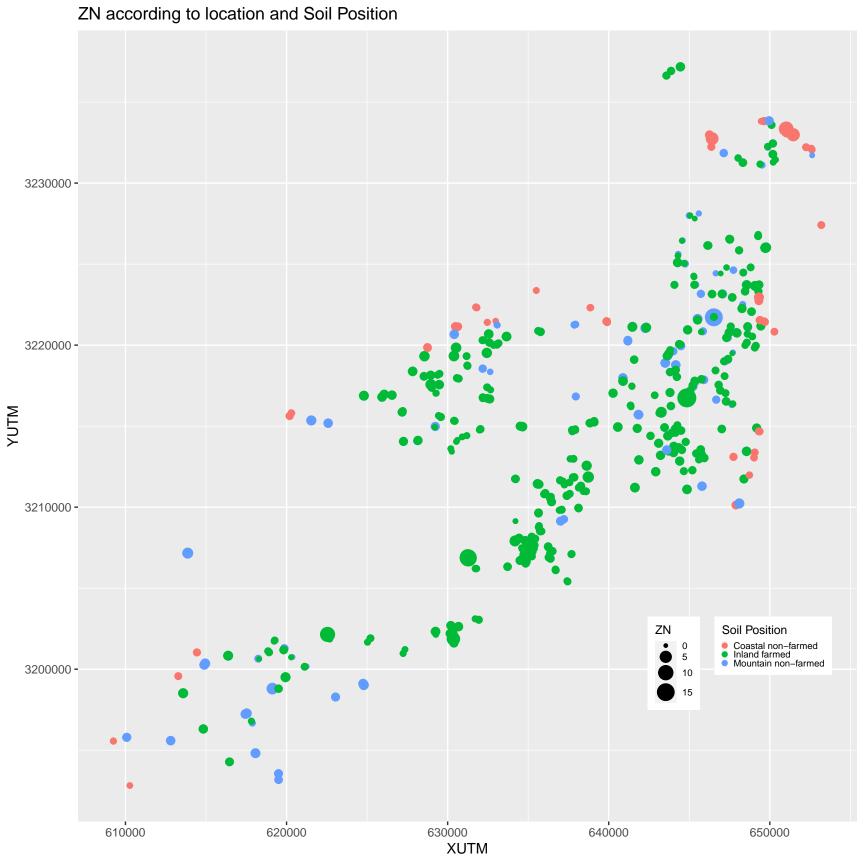
W = 0.48012, p-value < 2.2e-16

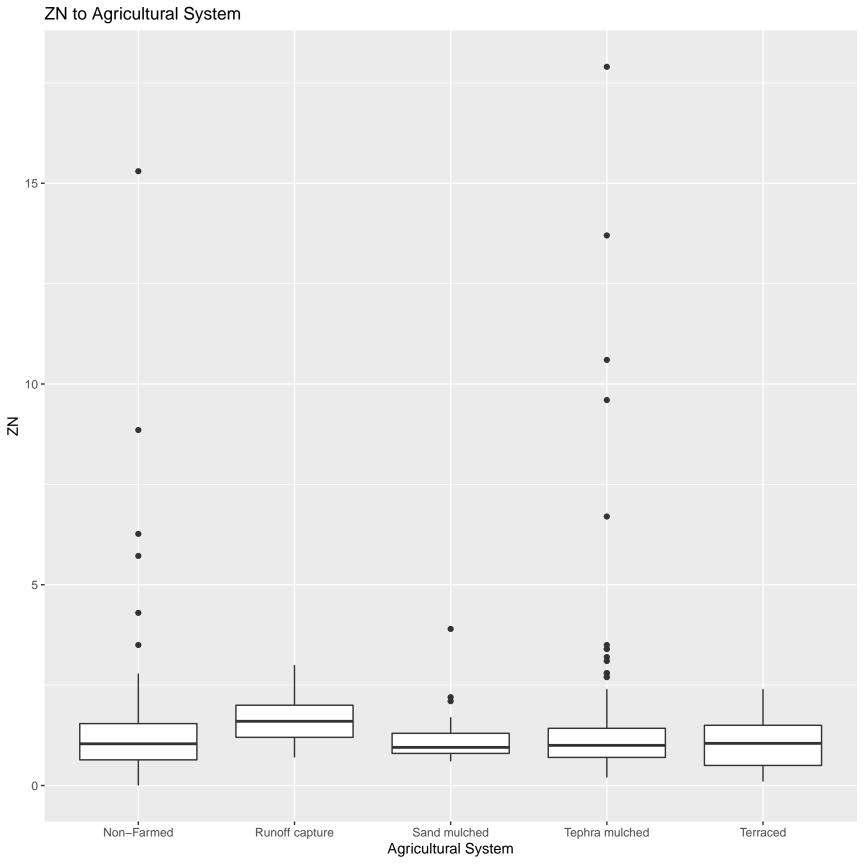




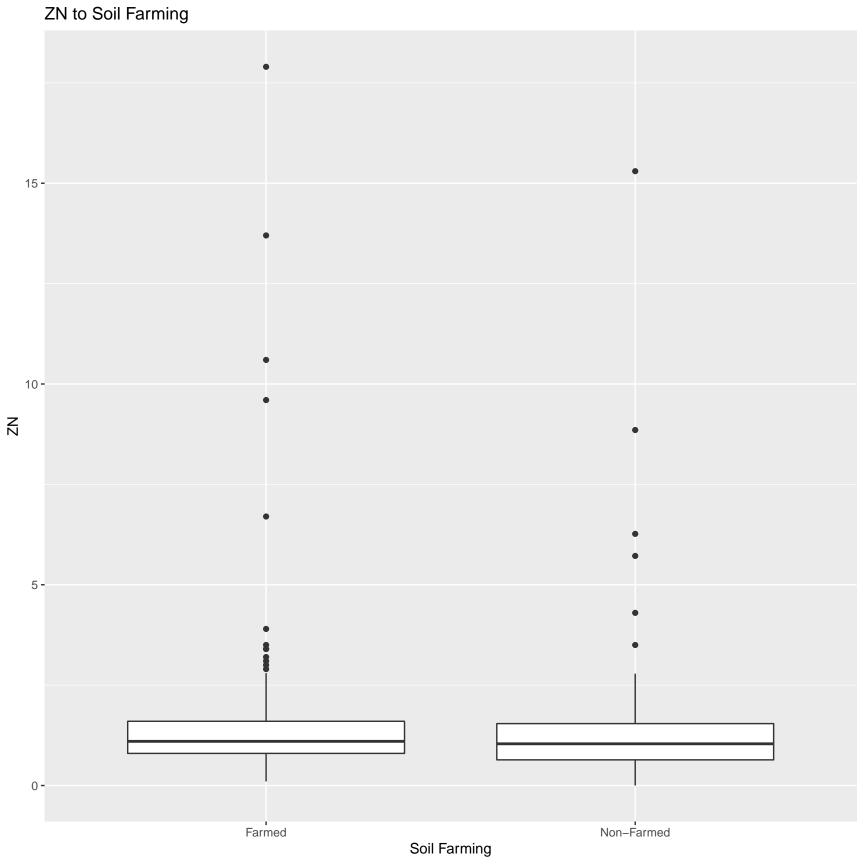
ZN according to location and Soil Mulching 3230000 -3220000 -3210000 **-**Soil Mulching ΖN No mulch farmed
No mulch non-farmed
Sand
Tephra 3200000 -10 630000 XUTM 610000 620000 640000 650000



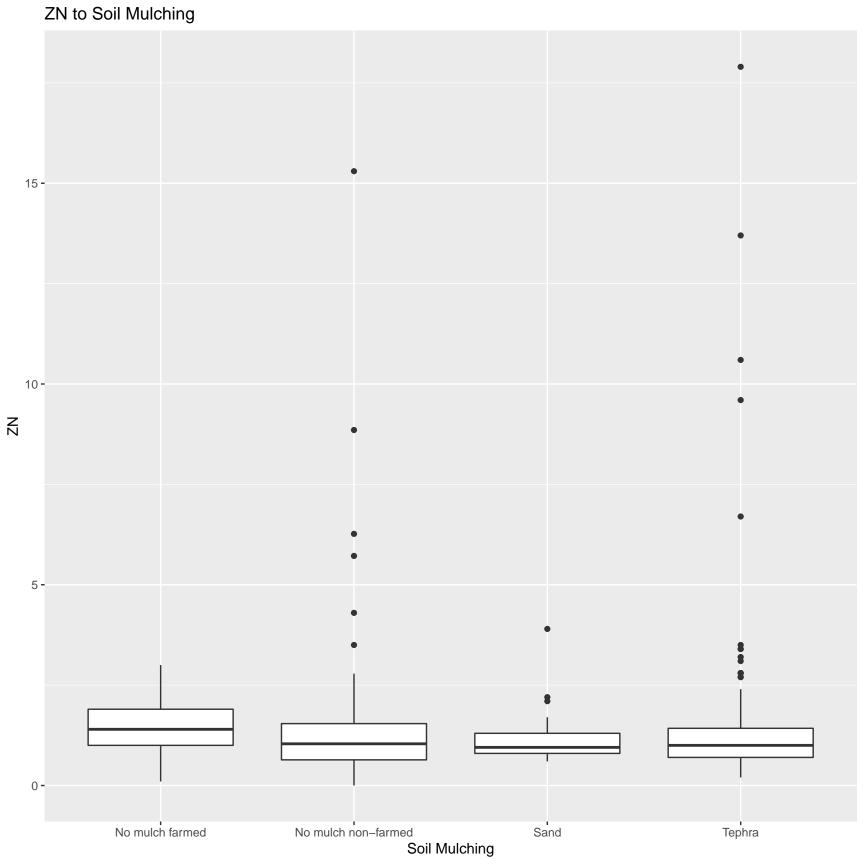




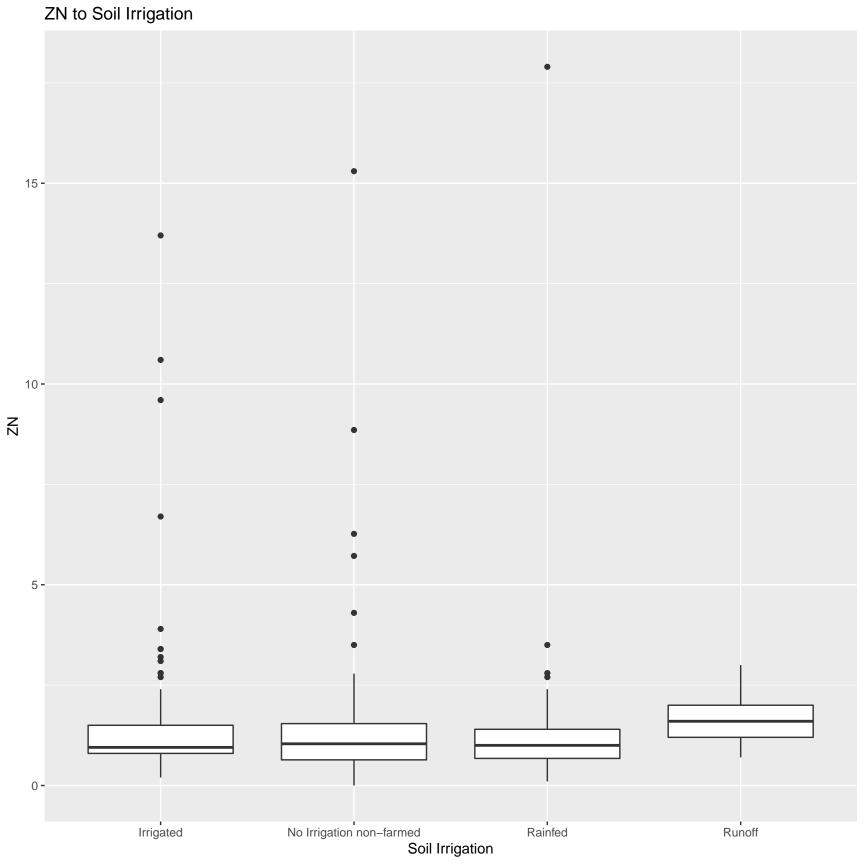
- y	. group1	group2	n1	n2	statistic	р	p.adj	p.adj.signif
1 ZN	Non-Farmed	Runoff capture	176	83	4157.0	2.22e-08	1.78e-07	***
2 ZN	Non-Farmed	Sand mulched	176	60	5350.0	8.79e-01	1.00e+00	ns
3 ZN	Non-Farmed	Tephra mulched	176	160	14419.5	7.03e-01	1.00e+00	ns
4 ZN	Non-Farmed	Terraced	176	50	4743.0	4.01e-01	1.00e+00	ns
5 ZN	Runoff capture	Sand mulched	83	60	4034.0	2.49e-10	2.49e-09	***
6 ZN	Runoff capture	Tephra mulched	83	160	9918.0	2.68e-10	2.49e-09	***
7 ZN	Runoff capture	Terraced	83	50	3064.5	4.22e-06	2.95e-05	***
8 ZN	Sand mulched	Tephra mulched	60	160	5045.5	5.59e-01	1.00e+00	ns
9 ZN	Sand mulched	Terraced	60	50	1538.5	8.19e-01	1.00e+00	ns
10 ZN	Tephra mulched	Terraced	160	50	4214.5	5.68e-01	1.00e+00	ns



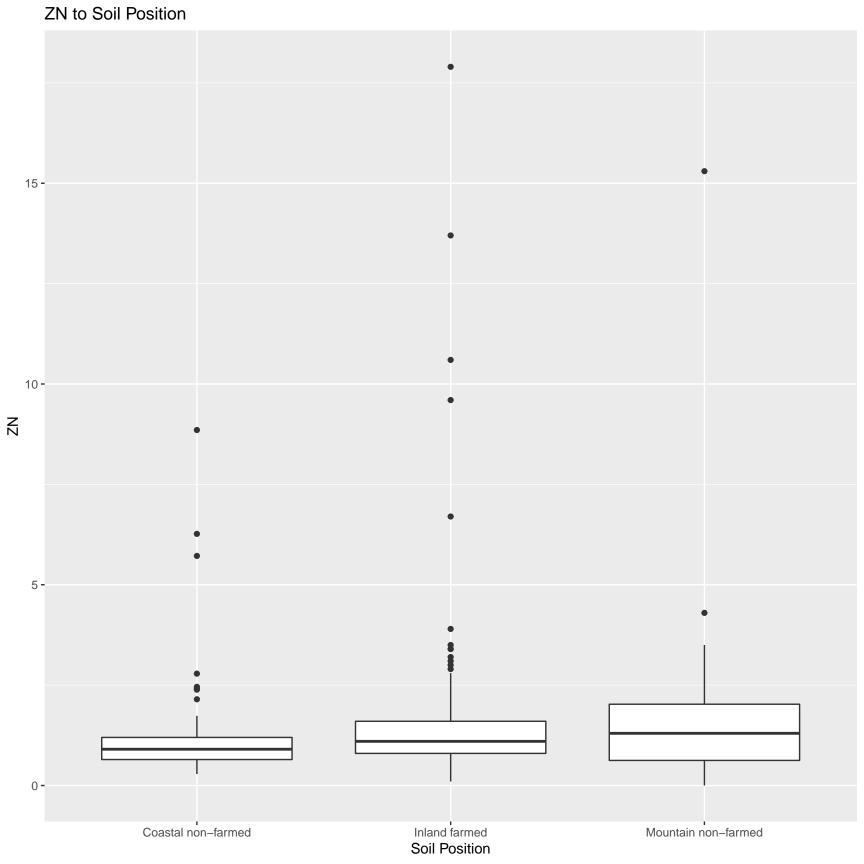
	.y.	group1	group2	n1	n2	statistic	р
1	ZN	Farmed	Non-Farmed	353	176	33458.5	0.148



	.y.	group1	group2	n1	n2	statistic	р	p.adj	p.adj.signif
1	ZN	No mulch farmed	No mulch non-farmed	133	176	14508.0	3.11e-04	0.001000	**
2	ZN	No mulch farmed	Sand	133	60	5495.5	2.71e-05	0.000136	***
3	ZN	No mulch farmed	Tephra	133	160	13703.5	2.16e-05	0.000130	***
4	ZN	No mulch non-farmed	Sand	176	60	5350.0	8.79e-01	1.000000	ns
5	ZN	No mulch non-farmed	Tephra	176	160	14419.5	7.03e-01	1.000000	ns
6	ZN	Sand	Tephra	60	160	5045.5	5.59e-01	1.000000	ns



	.y.	group1	group2	n1	n2	statistic	р	p.adj	p.adj.signif
1	ZN	Irrigated	No Irrigation non-farmed	110	176	10007.5	6.31e-01	6.31e-01	ns
2	ZN	Irrigated	Rainfed	110	160	9708.0	1.49e-01	4.47e-01	ns
3	ZN	Irrigated	Runoff	110	83	2546.5	1.44e-07	5.76e-07	***
4	ZN	No Irrigation non-farmed	Rainfed	176	160	15160.0	2.25e-01	4.50e-01	ns
5	ZN	No Irrigation non-farmed	Runoff	176	83	4157.0	2.22e-08	1.11e-07	***
6	ZN	Rainfed	Runoff	160	83	2847.0	2.69e-13	1.61e-12	***



	.y.	group1	group2	n1	n2	statistic	р	p.adj	p.adj.signif
1	ZN	Coastal non-farmed	Inland farmed	90	353	12527.0	0.002	0.006	**
2	ZN	Coastal non-farmed	Mountain non-farmed	90	86	3031.0	0.013	0.026	*
3	ZN	Inland farmed	Mountain non-farmed	353	86	14215.5	0.361	0.361	ns