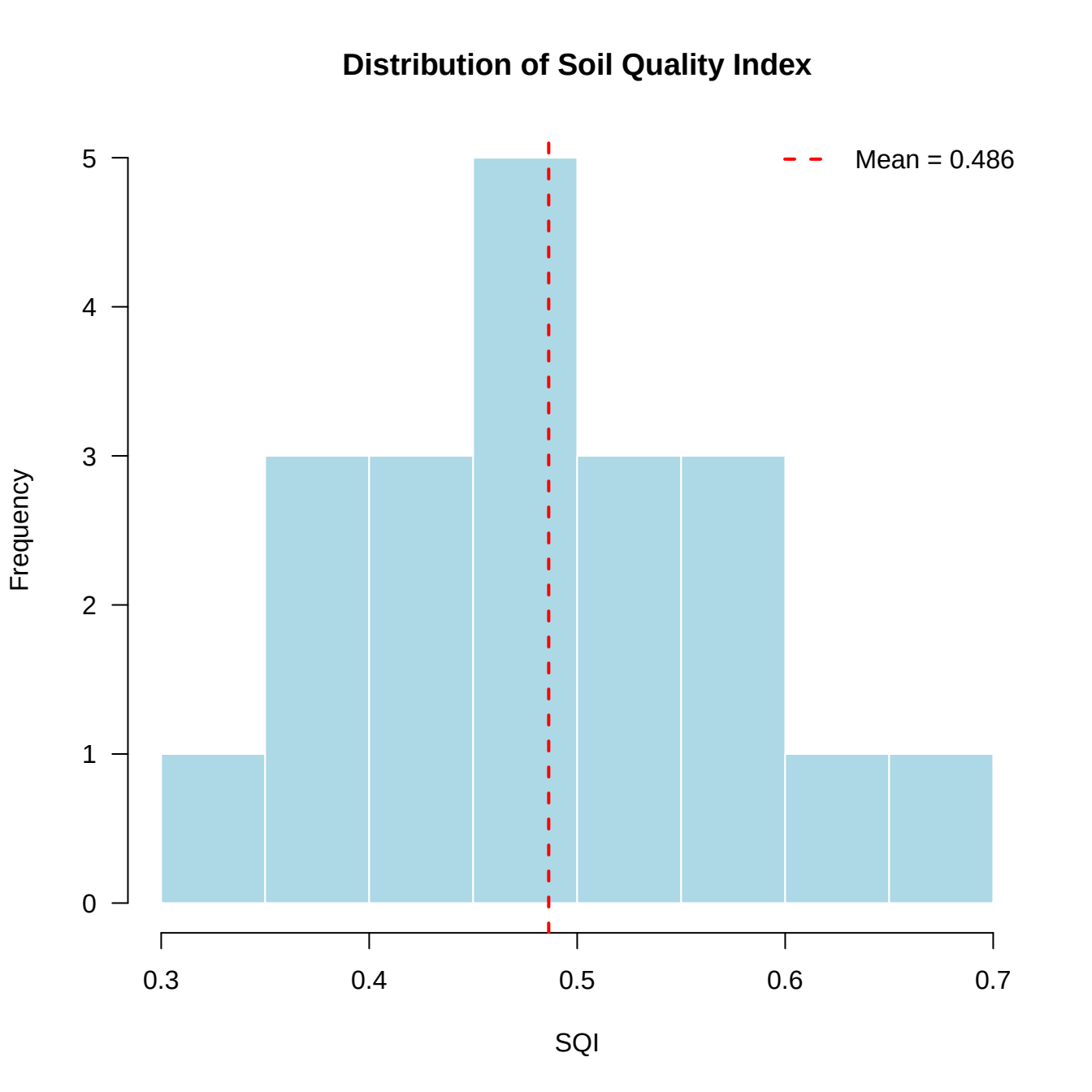
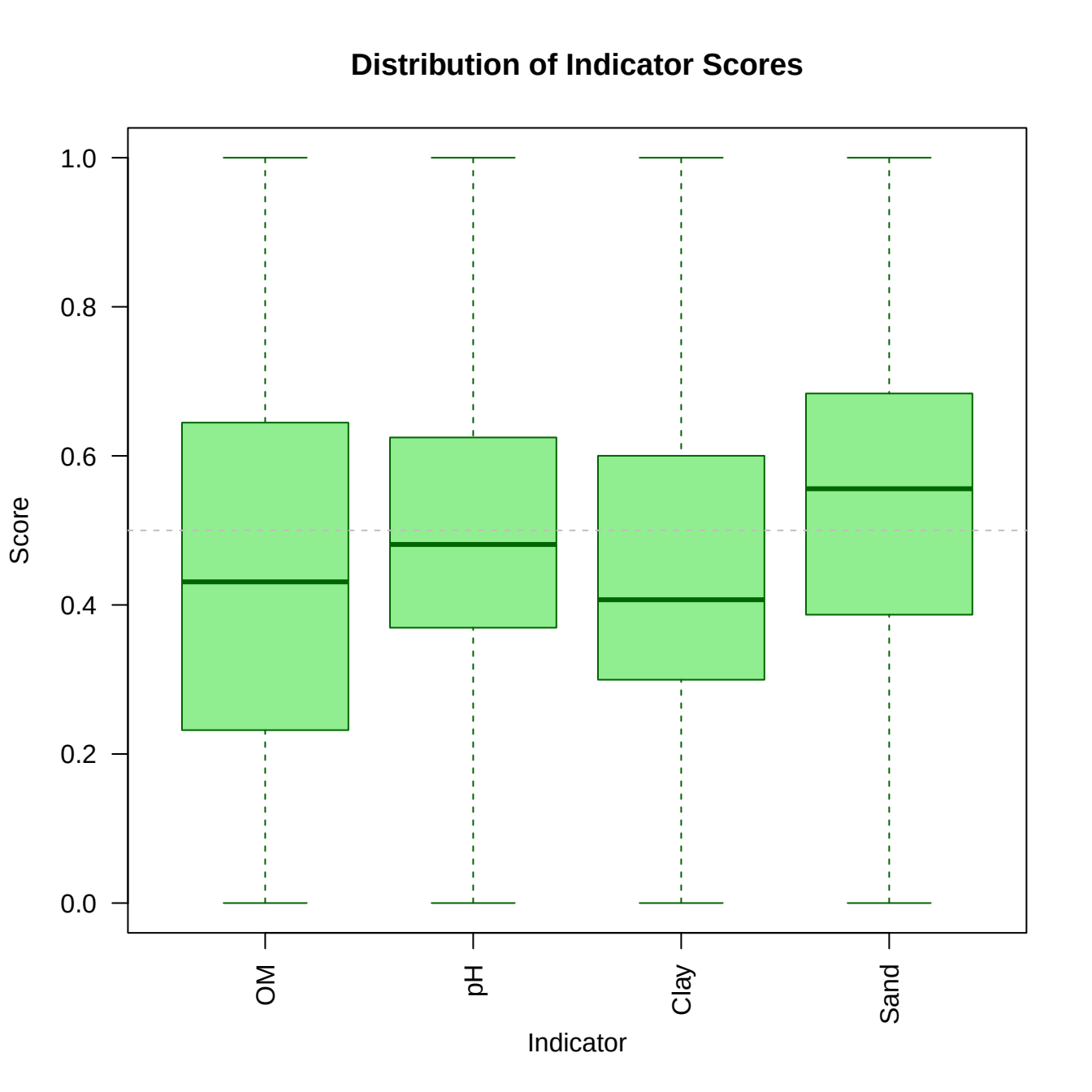
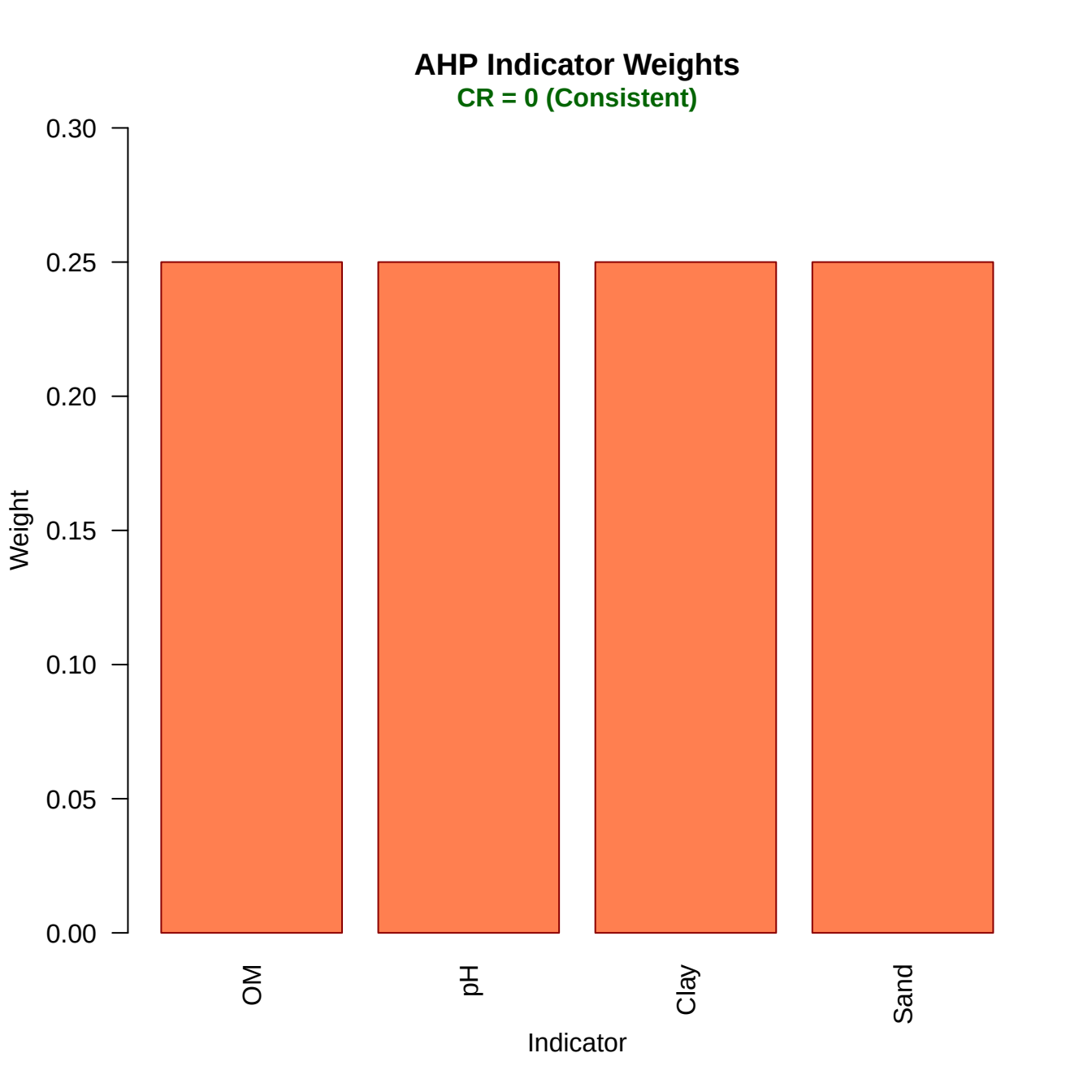
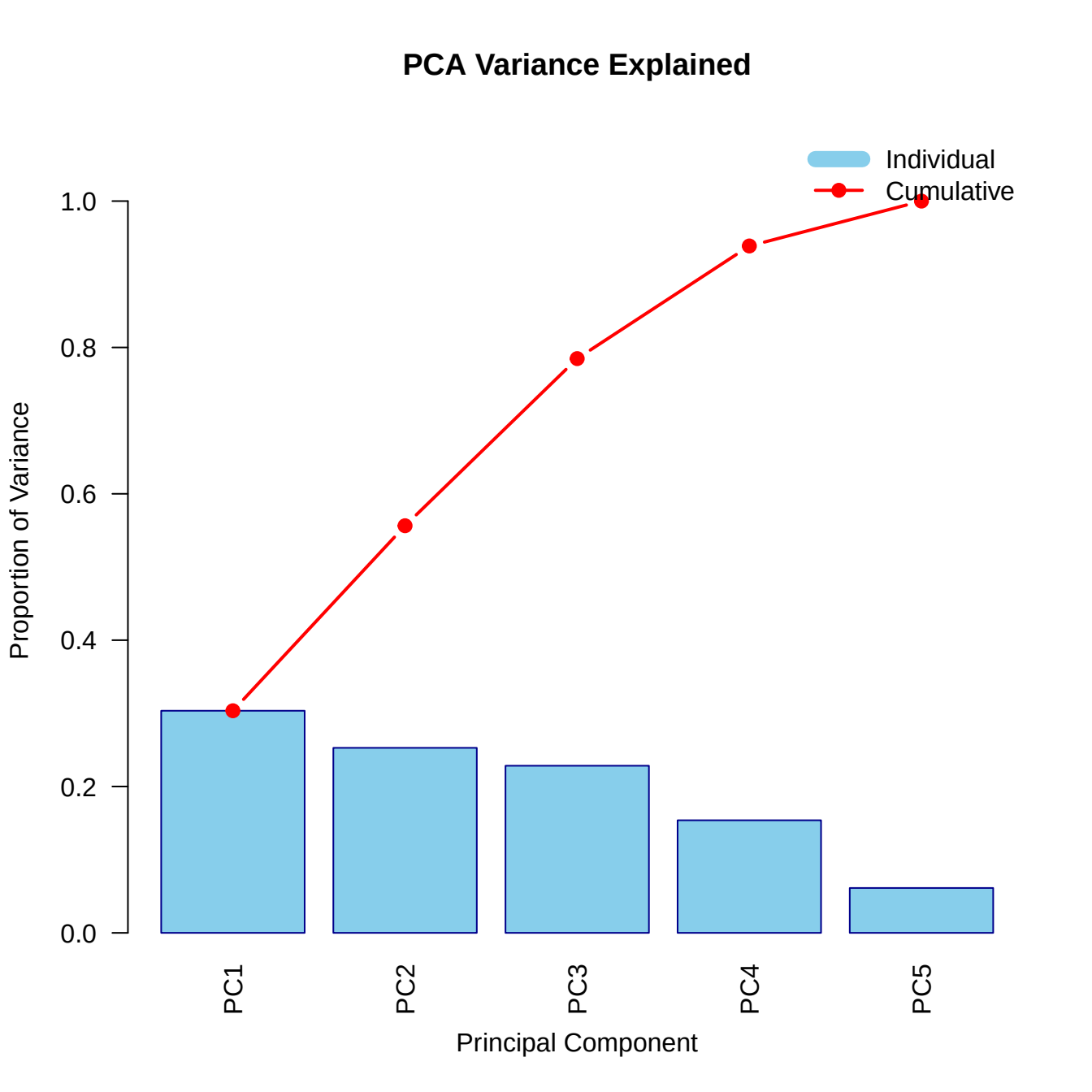
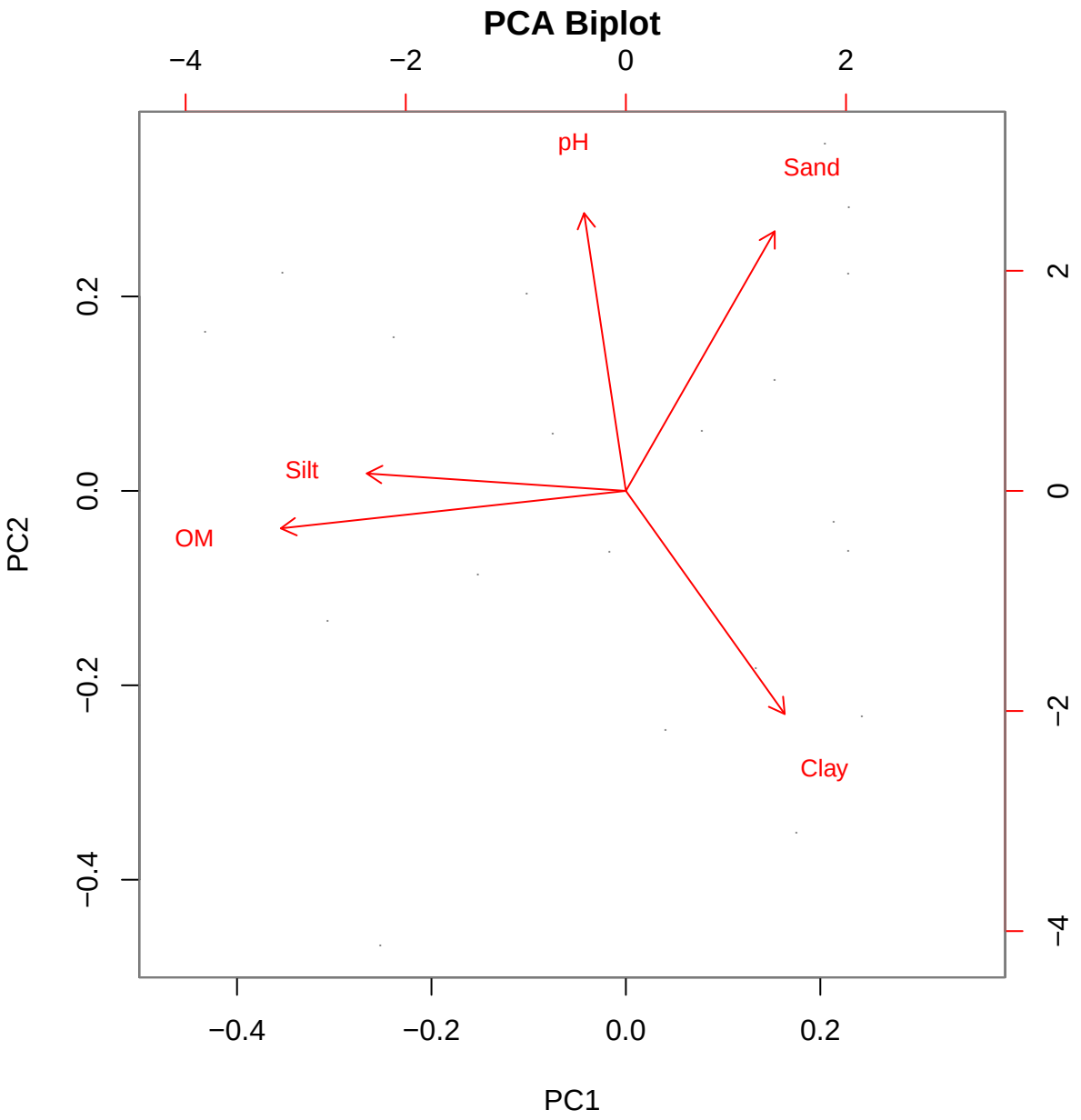
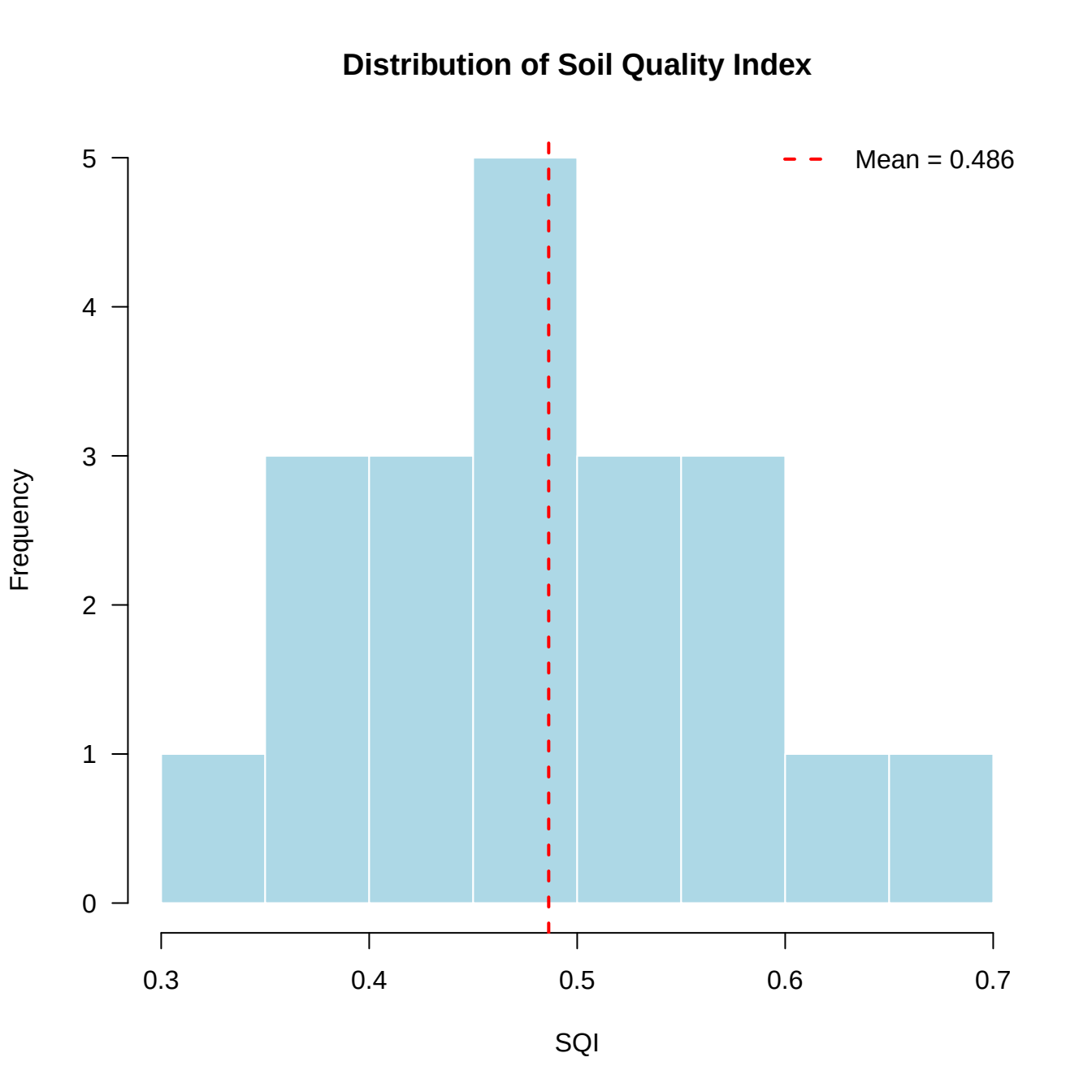

Distribution of Soil Quality Index
Mean = 0.486
Frequency
0
1
2
3
4
5
0.3
0.4
0.5
0.6
0.7
SQI

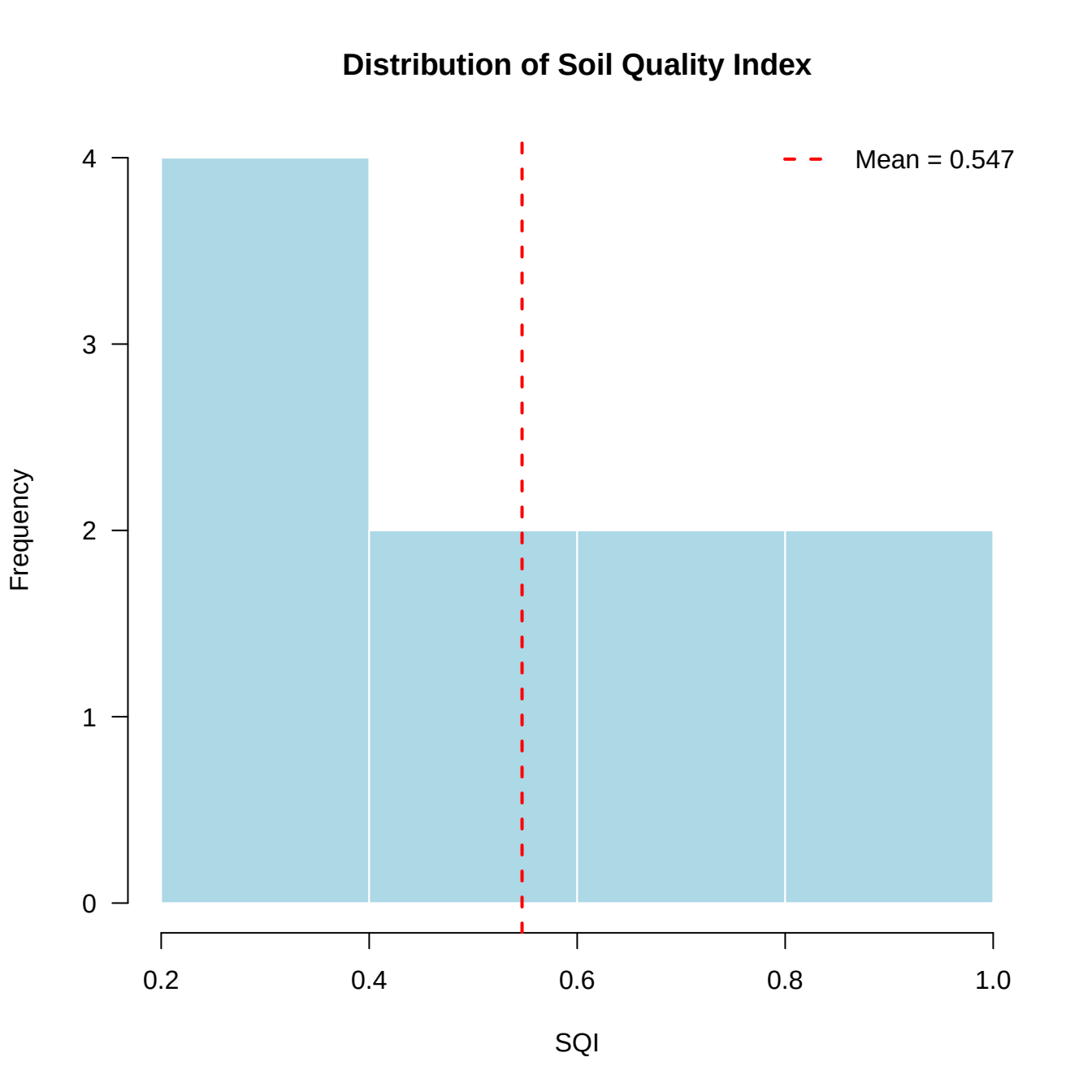

Distribution of Indicator Scores
Score
1.0
0.8
0.6
0.4
0.2
0.0
OM
pH
Clay
Sand
Indicator

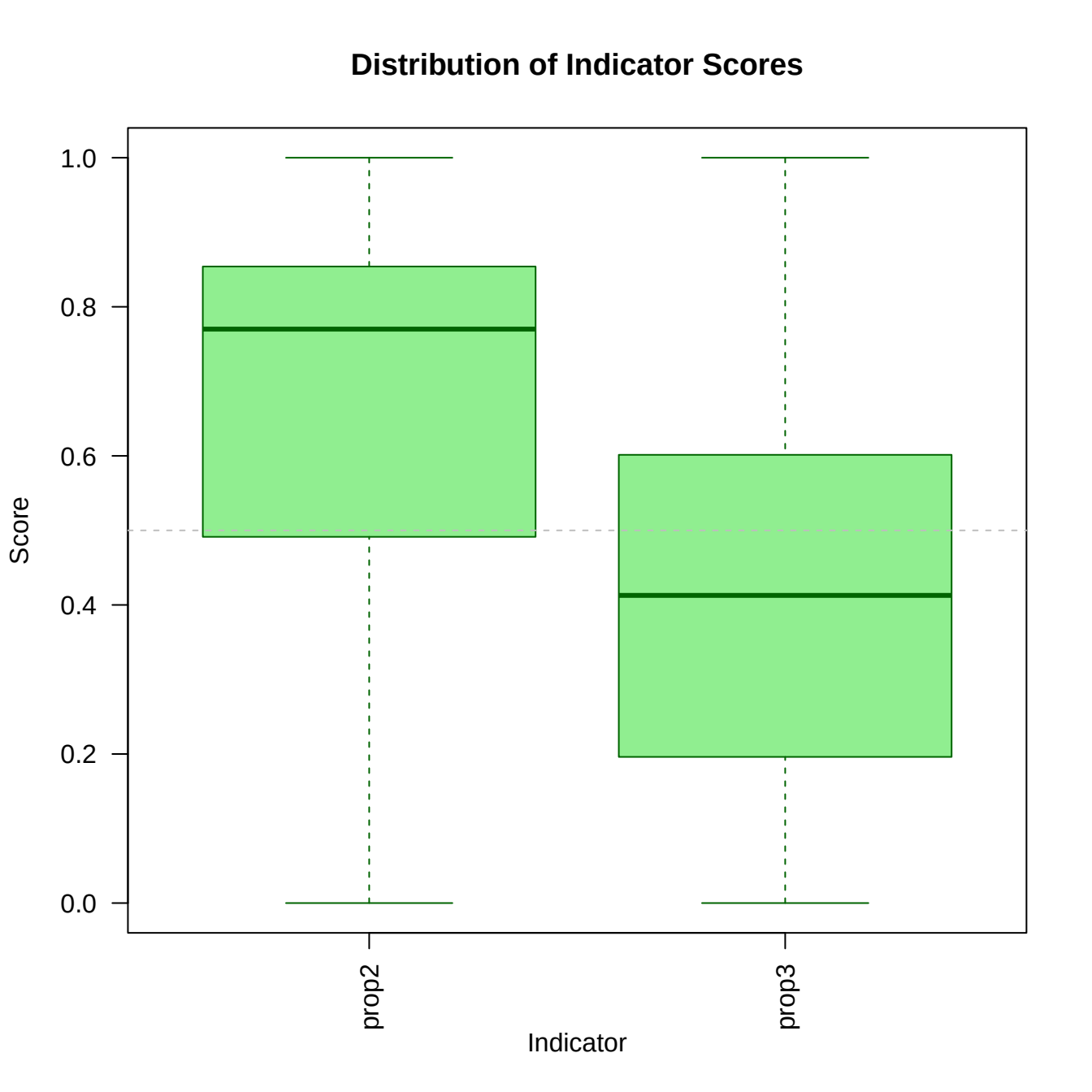

AHP Indicator Weights
CR = 0 (Consistent)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Weight
OM
pH
Clay
Sand
Indicator

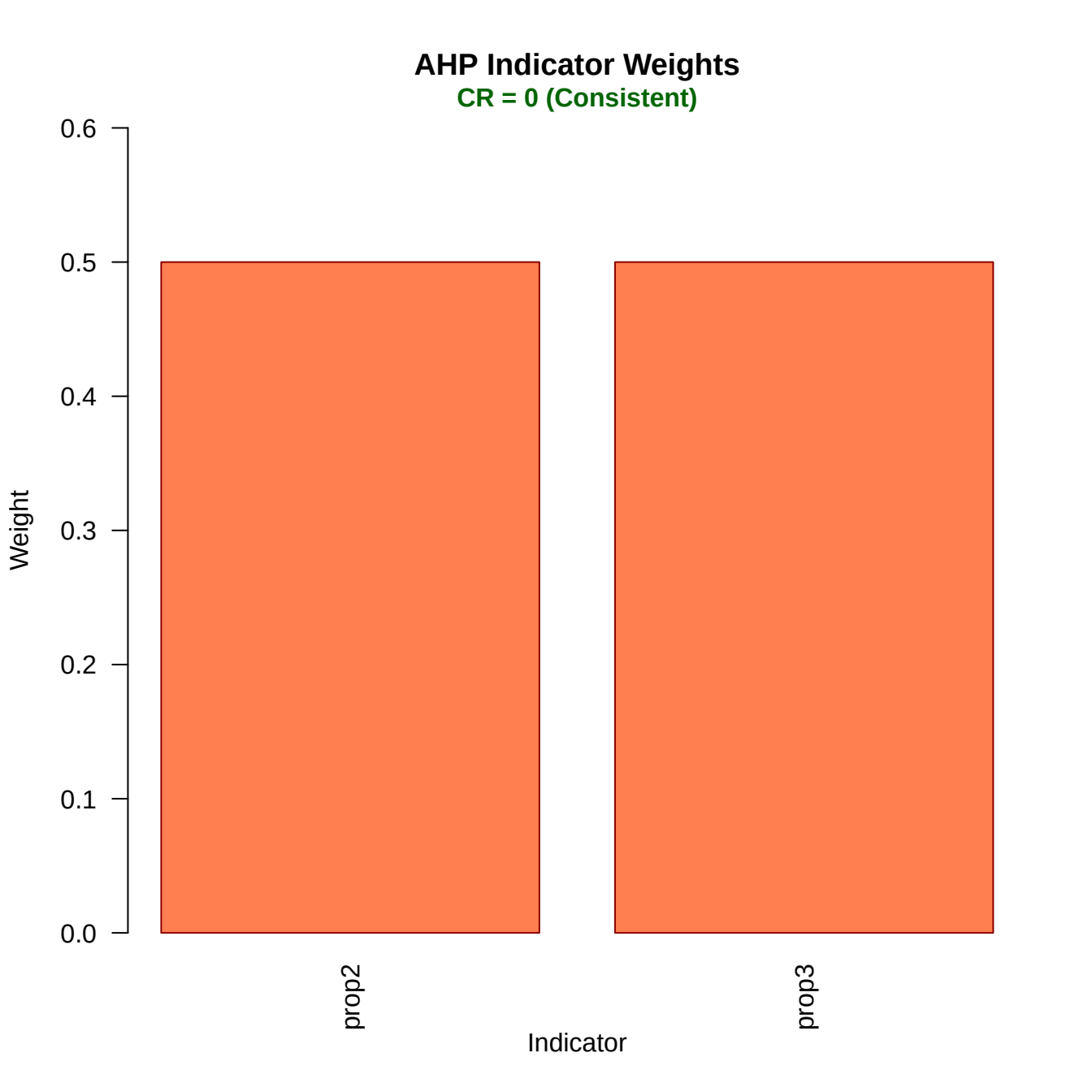

PCA Variance Explained
Individual
Cumulative
1.0
0.8
0.6
0.4
0.2
0.0
Proportion of Variance
PC1
PC2
PC3
PC4
PC5
Principal Component

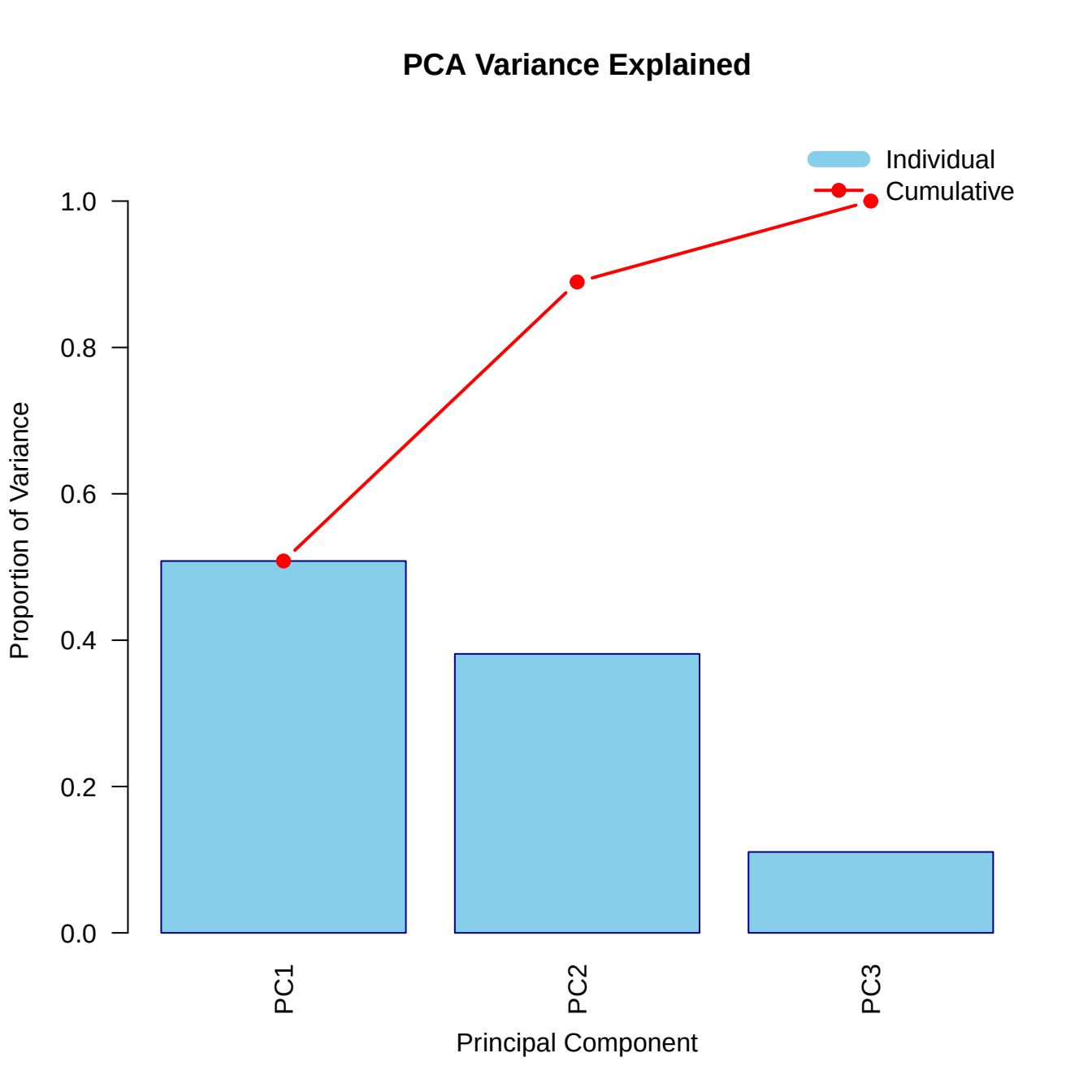

PCA Biplot
−4
−2
0
2
pH
Sand
Silt
OM
Clay
0.2
0.0
−0.2
−0.4
PC2
2
0
−2
−4
−0.4
−0.2
0.0
0.2
PC1

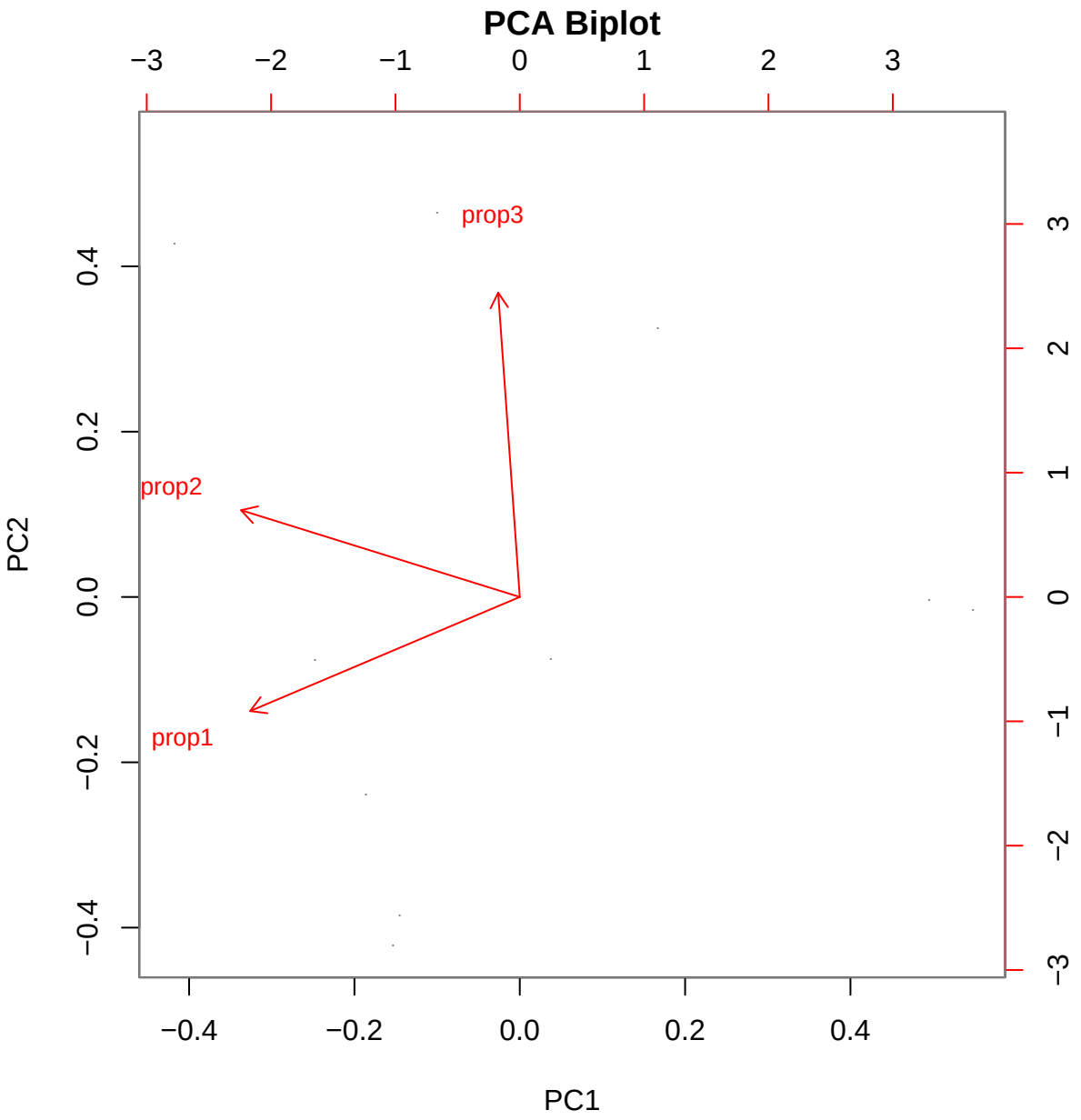

Distribution of Soil Quality Index
Mean = 0.486
Frequency
0
1
2
3
4
5
0.3
0.4
0.5
0.6
0.7
SQI

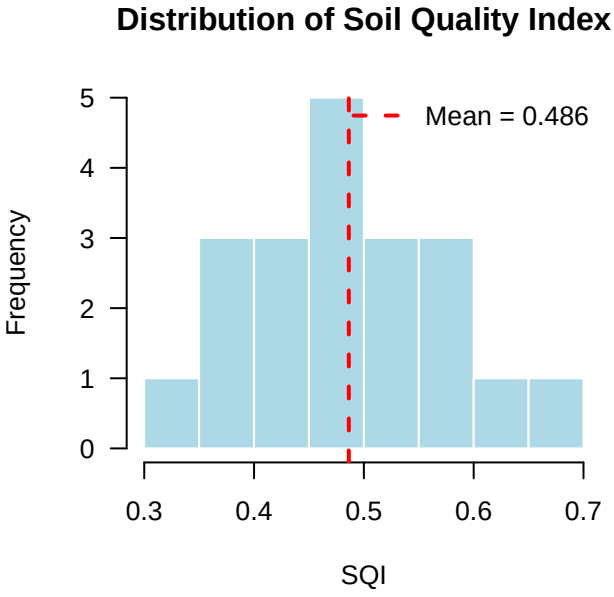

Distribution of Soil Quality Index
Mean = 0.547
Frequency
0
1
2
3
4
0.2
0.4
0.6
0.8
1.0
SQI

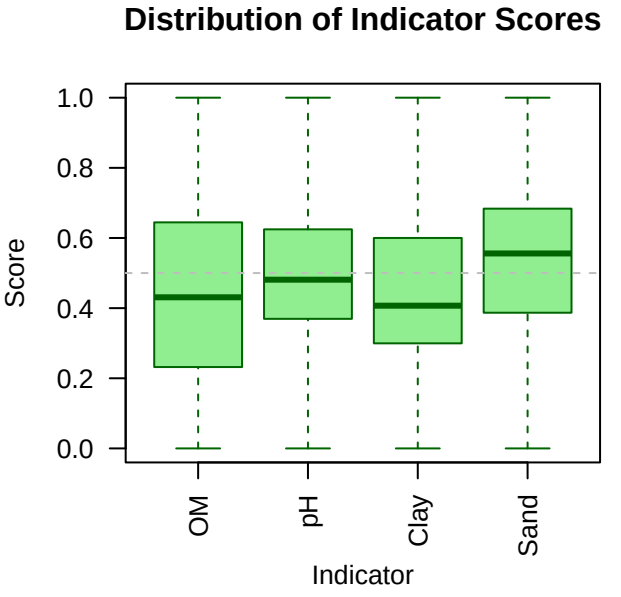

Distribution of Indicator Scores
1.0
0.8
0.6
0.4
0.2
0.0
Score
prop2
prop3
Indicator

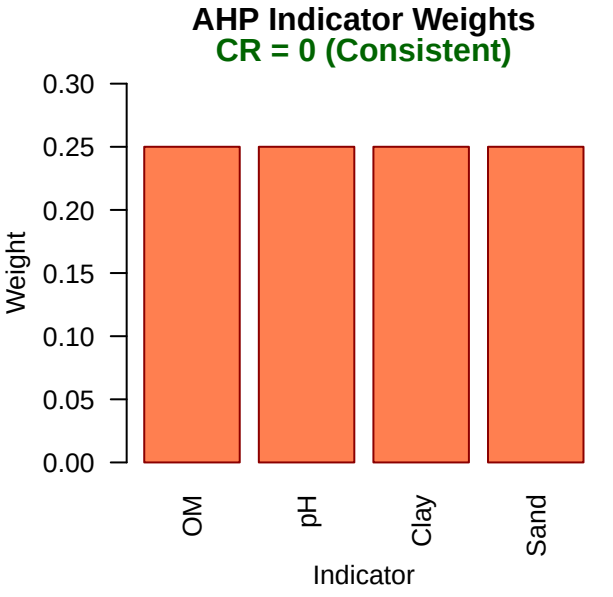

AHP Indicator Weights
CR = 0 (Consistent)
Weight
0.0
0.1
0.2
0.3
0.4
0.5
0.6
prop2
prop3
Indicator

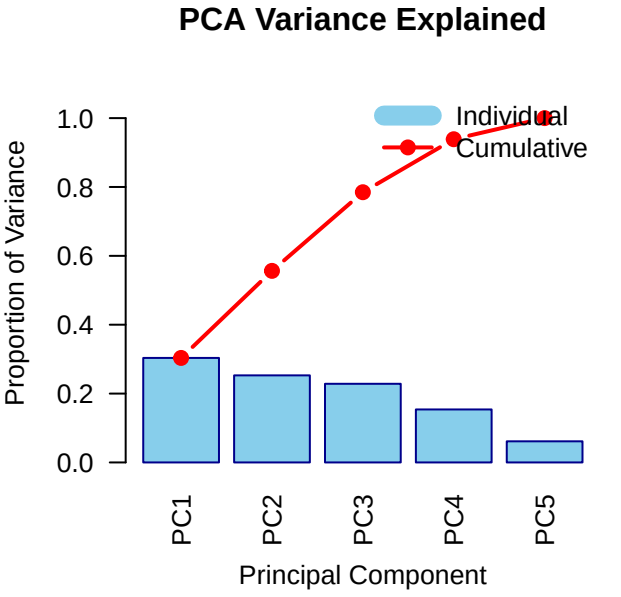

PCA Variance Explained
Individual
Cumulative
1.0
0.8
0.6
0.4
0.2
0.0
Proportion of Variance
PC1
PC2
PC3
Principal Component

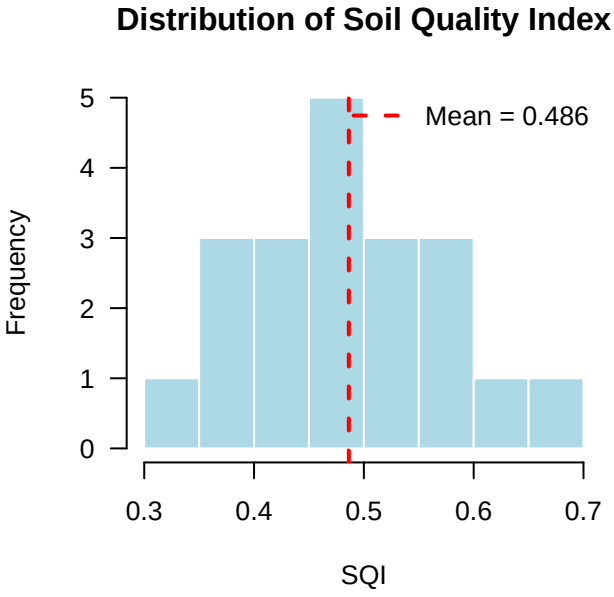

PCA Biplot
−3
−2
−1
0
1
2
3
prop3
prop2
prop1
0.4
0.2
0.0
−0.2
−0.4
PC2
3
2
1
0
−1
−2
−3
−0.4
−0.2
0.0
0.2
0.4
PC1

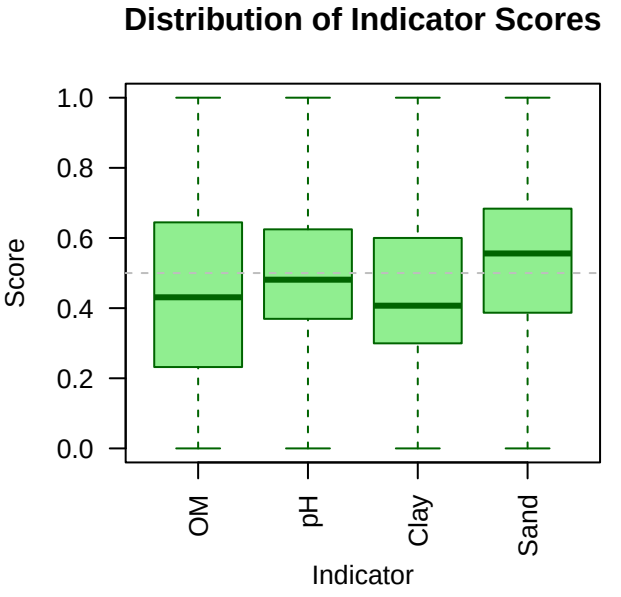

Distribution of Soil Quality Index
Mean = 0.486
Frequency
SQI
0
1
2
3
4
5
0.3
0.4
0.5
0.6
0.7

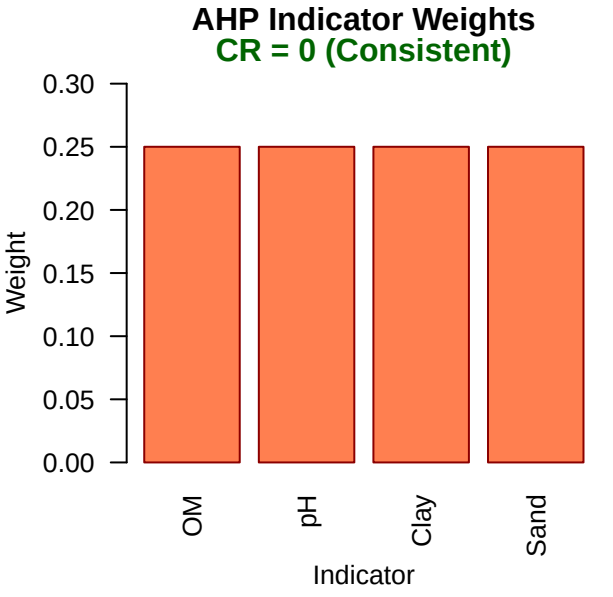

Distribution of Indicator Scores
Score
Indicator
0.0
0.2
0.4
0.6
0.8
1.0
OM
pH
Clay
Sand

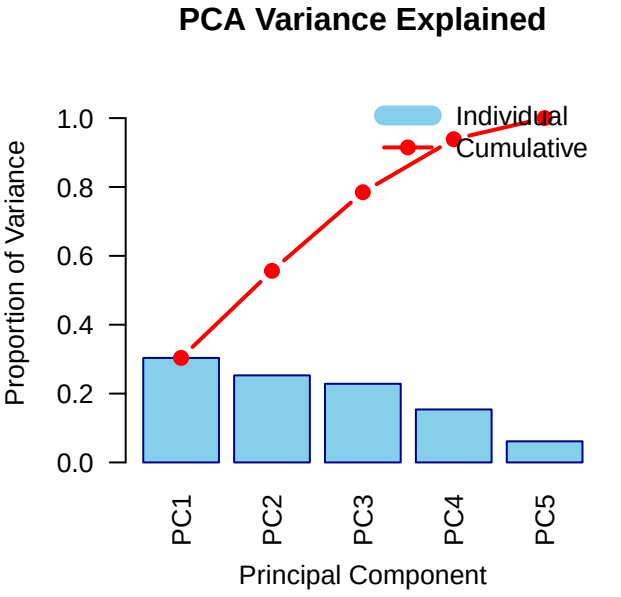

AHP Indicator Weights
CR = 0 (Consistent)
Weight
Indicator
0.00
0.05
0.10
0.15
0.20
0.25
0.30
OM
pH
Clay
Sand

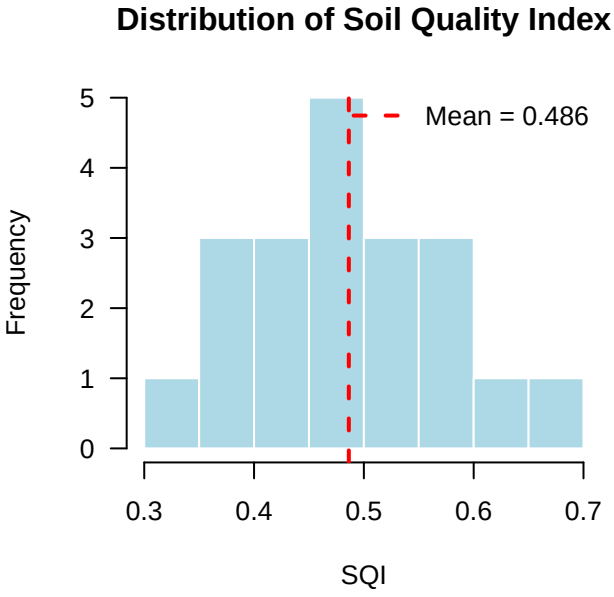

PCA Variance Explained
Individual
Cumulative
Proportion of Variance
Principal Component
0.0
0.2
0.4
0.6
0.8
1.0
PC1
PC2
PC3
PC4
PC5

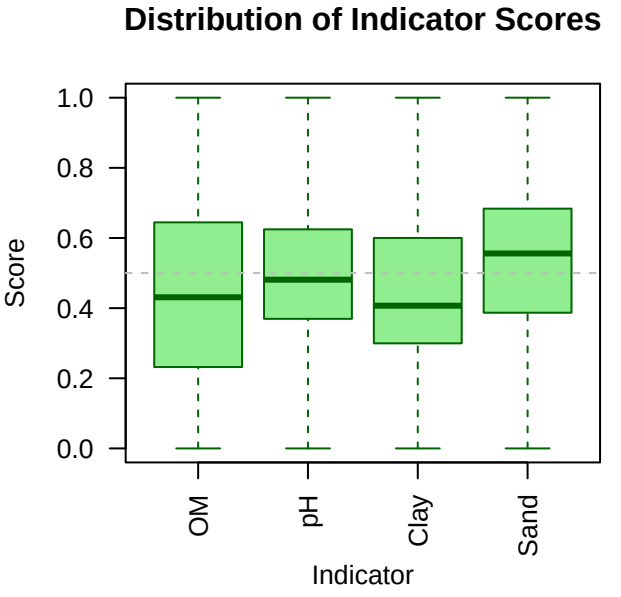

Distribution of Soil Quality Index
Mean = 0.486
Frequency
SQI
0
1
2
3
4
5
0.3
0.4
0.5
0.6
0.7

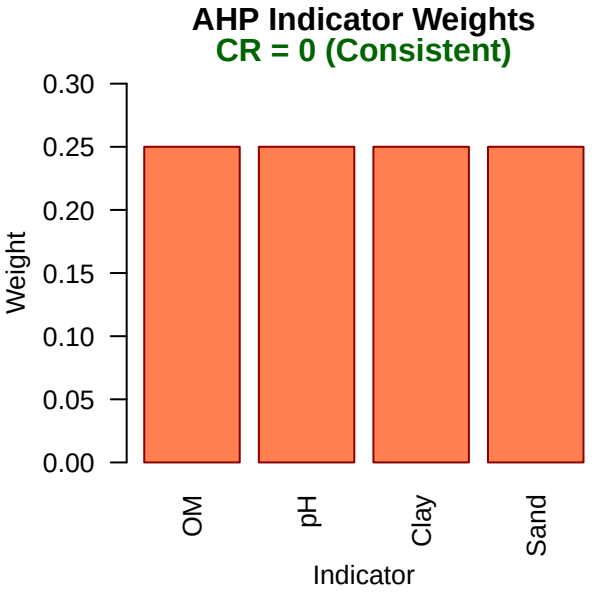

Distribution of Indicator Scores
Score
Indicator
0.0
0.2
0.4
0.6
0.8
1.0
OM
pH
Clay
Sand

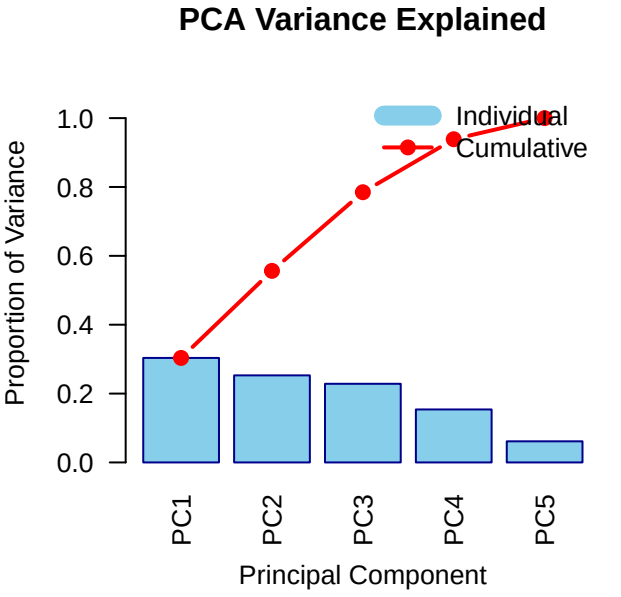

AHP Indicator Weights
CR = 0 (Consistent)
Weight
Indicator
0.00
0.05
0.10
0.15
0.20
0.25
0.30
OM
pH
Clay
Sand

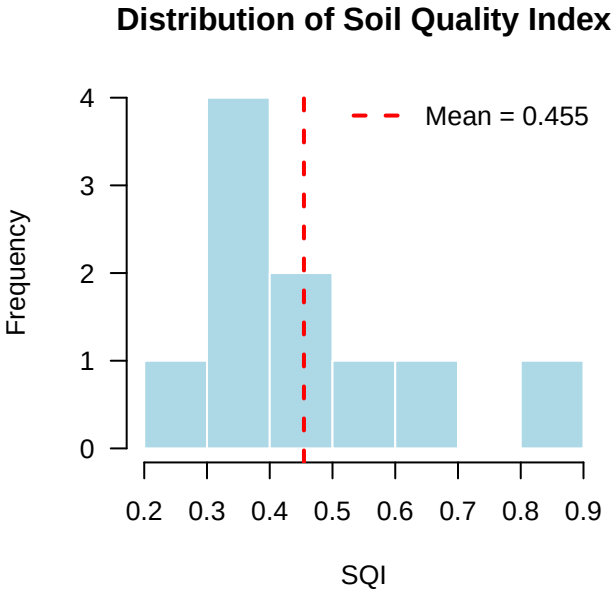

PCA Variance Explained
Individual
Cumulative
Proportion of Variance
Principal Component
0.0
0.2
0.4
0.6
0.8
1.0
PC1
PC2
PC3
PC4
PC5

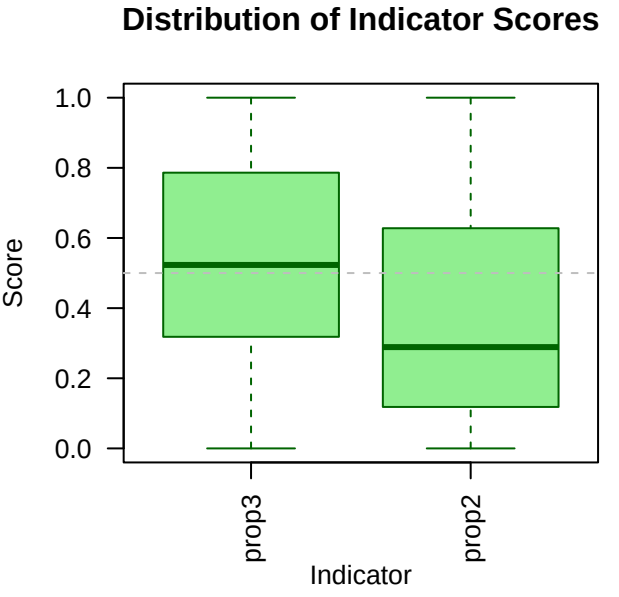

Distribution of Soil Quality Index
Mean = 0.486
Frequency
SQI
0
1
2
3
4
5
0.3
0.4
0.5
0.6
0.7

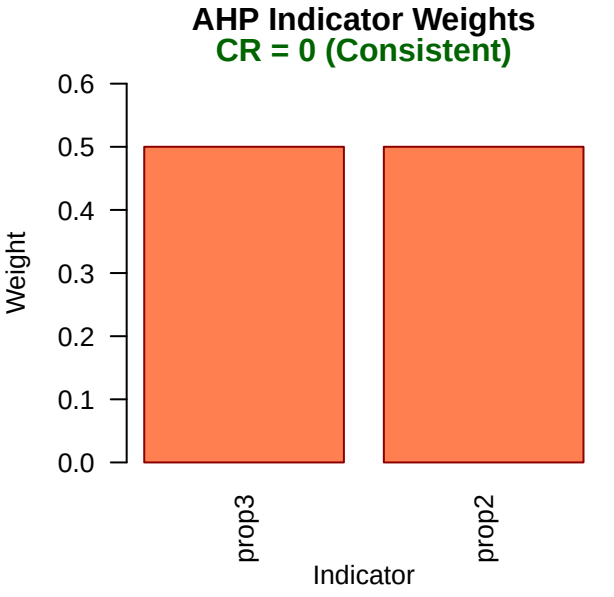

Distribution of Indicator Scores
Score
Indicator
0.0
0.2
0.4
0.6
0.8
1.0
OM
pH
Clay
Sand

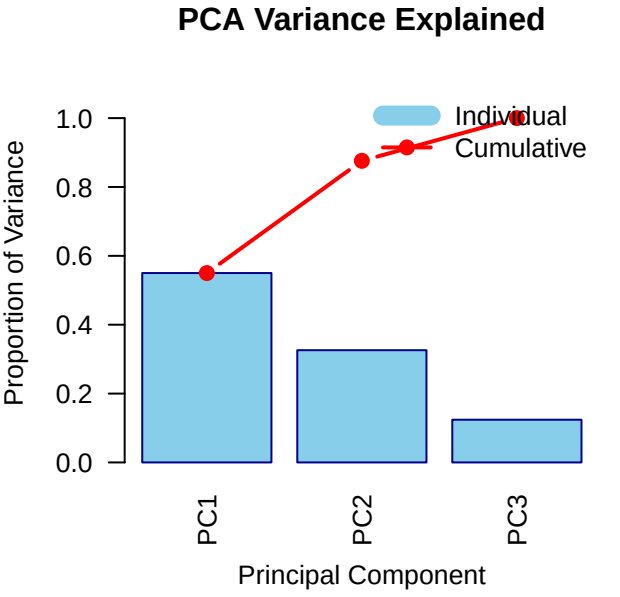

AHP Indicator Weights
CR = 0 (Consistent)
Weight
Indicator
0.00
0.05
0.10
0.15
0.20
0.25
0.30
OM
pH
Clay
Sand


PCA Variance Explained
Individual
Cumulative
Proportion of Variance
Principal Component
0.0
0.2
0.4
0.6
0.8
1.0
PC1
PC2
PC3
PC4
PC5


Distribution of Soil Quality Index
Mean = 0.455
Frequency
SQI
0
1
2
3
4
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9


Distribution of Indicator Scores
Score
Indicator
prop3
prop2
0.0
0.2
0.4
0.6
0.8
1.0


AHP Indicator Weights
CR = 0 (Consistent)
Weight
Indicator
prop3
prop2
0.0
0.1
0.2
0.3
0.4
0.5
0.6


PCA Variance Explained
Individual
Cumulative
Proportion of Variance
Principal Component
PC1
PC2
PC3
0.0
0.2
0.4
0.6
0.8
1.0