Table A: Tukey HSD post-ANOVA multi-comparison of sugar relative peak areas in the 10 – 20 cm Angelo soil samples[a]

Compound	'PreRain(8/20)', 'PostRain(9/25)	'PreRain(8/20) ', 'PostRain(9/27)'	'PreRain(8/20)', 'PostRain(10/02)'	'PostRain(9/25)', 'PostRain(9/27)'	'PostRain(9/25) ', 'PostRain(10/02)'	'PostRain(9/27)', 'PostRain(10/02)'
(C10H18O9)1				-		
(C10H18O9)2	+				-	
(C10H18O9)3	+			-	-	
(C10H18O9)4	+			-	-	
(C10H18O9)5	+					
(C10H18O9)6	+			-	-	+
(C10H18O9)7	+		+	-		+
(C15H26O13)1						
(C15H26O13)2						
(C15H26O13)3	+			-	-	
(Disaccharide6)						
(Hexose3)			+		+	+
(Hexose4)			+		+	+
(Hexose5)			+		+	+
(Pentasaccharide1)			-			-
(Pentasaccharide2)	-		-		-	-
(Pentasaccharide3)			-		-	-
(Tetrasaccharide3)	-		-		-	-
(Tetrasaccharide4)			-			-
(Tetrasaccharide6)			-			-
(Trisaccharide1)	-					
(Trisaccharide2)						
(Trisaccharide3)						-
(Trisaccharide4)						-
(Trisaccharide5)						
(Trisaccharide6)	-	-	-			
(Hexasaccharide1)			-		-	-
(Hexasaccharide2)			-		-	-
Disaccharide1(trehalose)			-		-	-
Disaccharide2(maltose)	-	-	-		-	-
Disaccharide3(cellobiose)		-	-		-	-
Hexose1(glucose)			+		+	+
Hexose2(glucose)			+		+	+
Hexose6(galactose)						
Hexose7(mannose)			+		+	+
SugarAlc1(mannitol)			+		+	+
Tetrasaccharide1(maltotetraose)			-			-
Tetrasaccharide2(stachyose)			-			-
(C12H22O10)1	+		+	-	-	+
(C12H22O10)2	+		+	-	-	+
(C12H22O10)3	+		+	-	-	+
(C12H22O10)4	+		+	-	-	+
(C13H24O11)			+		+	+

Table B: Tukey HSD post-ANOVA multi-comparison of sugar relative peak areas in the 30 – 40 cm Angelo soil samples[a]

Compound	PreRain(8/20)', 'PostRain(9/25)	PreRain(8/20)', 'PostRain(9/27)	PreRain(8/20)', 'PostRain(10/02)'	PostRain(9/25)', 'PostRain(9/27)	PostRain(9/25)', 'PostRain(10/02)'	PostRain(9/27)', 'PostRain(10/02)'
(C10H18O9)1			+		+	+
(C10H18O9)2			+		+	+
(C10H18O9)3			+	-		+
(C10H18O9)4				-		+
(C10H18O9)5				-		+
(C10H18O9)6	+			-	-	
(C10H18O9)7						
(C15H26O13)1			+		+	+
(C15H26O13)2			+		+	+
(C15H26O13)3			+		+	+
(Disaccharide6)				-	-	
(Hexose3)		-	-		-	
(Hexose4)	-		-		-	-
(Hexose5)	-	-	-			
(Pentasaccharide1)						
(Pentasaccharide2)				-	-	
(Pentasaccharide3)						
(Tetrasaccharide3)		-	-	-	-	-
(Tetrasaccharide4)						
(Tetrasaccharide6)			+	-	+	+
(Trisaccharide1)			-		-	-
(Trisaccharide2)			-			
(Trisaccharide3)		-	-		-	
(Trisaccharide4)		-	-	-	-	
(Trisaccharide5)			-			
(Trisaccharide6)						
(Hexasaccharide1)	+	+	+	-		+
(Hexasaccharide2)						
Disaccharide1(trehalose)			-		-	-
Disaccharide2(maltose)		-	-		-	-
Disaccharide3(cellobiose)			-		-	-
Hexose1(glucose)	-	-	-		-	-
Hexose2(glucose)	-	-	-		-	-
Hexose6(galactose)	+	-	-	-	-	-
Hexose7(mannose)		-	-		-	-
SugarAlc1(mannitol)		-	-		-	-
Tetrasaccharide1(maltotetraose)						
Tetrasaccharide2(stachyose)			-	-	-	-
(C12H22O10)1	+		+	-		+
(C12H22O10)2	+		+	-		+
(C12H22O10)3	+		+	-	-	+
(C12H22O10)4	+			-		+
(C13H24O11)	-	-	-		-	

a – '+' indicates a significant increase of the compound from the first to second samples listed ($\alpha=0.05$), '-' indicates a significant decrease

Table C: Tukey HSD post-ANOVA multi-comparison of relative peak areas of common nitrogenous compounds in the 10 – 20 cm Angelo soil samples[a]

Compound	PreRain(8/20)', 'PostRain(9/25)'	PreRain(8/20)', 'PostRain(9/27)'	PreRain(8/20)', 'PostRain(10/02)'	PostRain(9/25)', 'PostRain(9/27)'	PostRain(9/25)', 'PostRain(10/02)'	PostRain(9/27)', 'PostRain(10/02)'
(4-aminobutanoate)			+		+	+
(Acetylcarnitine)			+		+	+
Deoxycytidine			+		+	+
Glutamine			+		+	+
L-isoleucine			+		+	+
L-leucine			+		+	+
Phenylalanine			+		+	+
Proline			+		+	+
Tryptophan			+		+	+
Tyrosine			+		+	+
Valine			+		+	+
(N-acetyl-l-phenylalanine)						
(C6H11NO3)			-			-
(C8H16N2O3)			+		+	+
(C8H16N2O3)2			+		+	+
Betaine			+		+	
(Cholinesulfate)	+		+	+	+	+
(Carnitine)1						
(Carnitine)2	+		+	+	+	+
(Sarcosine)			+		+	+
Serine			+		+	+
Asparagine	+		+	+	+	
(N6_Acetyl_lysine)			+		+	+
Adenine			+		+	+
Adenosine						
Cytidine			+		+	+
Cytosine			+		+	+
Deoxyadenosine			+		+	+
Deoxyguanosine			+		+	+
Deoxyuridine			+		+	+
Guanosine					+	+
Hypoxanthine			+		+	+
Inosine			+		+	+
Uracil			+		+	+
Uridine			+		+	+
Ectoine						

a – '+' indicates a significant increase of the compound from the first to second samples listed ($\alpha=0.05$), '-' indicates a significant decrease

Table D: Tukey HSD post-ANOVA multi-comparison of relative peak areas of common nitrogenous compounds in the 30 – 40 cm Angelo soil samples[a]

Compound	PreRain(8/20)', 'PostRain(9/25)'	PreRain(8/20)', 'PostRain(9/27)'	PreRain(8/20)', 'PostRain(10/02)'	PostRain(9/25)', 'PostRain(9/27)'	PostRain(9/25)', 'PostRain(10/02)'	PostRain(9/27)', 'PostRain(10/02)'
(4-aminobutanoate)						
(C6H11NO3)		-	-	-	-	
(Cholinesulfate)	+					
(Sarcosine)						
Deoxycytidine			-		-	-
Adenine						
Adenosine			-		-	-
Cytosine			-		-	-
Deoxyadenosine			-		-	
Deoxyuridine	-		-	+		-
Guanosine	-	-	-		-	-
Hypoxanthine			-			-
Inosine	-		-			
Uracil			-			-
Uridine			-		-	-

a – '+' indicates a significant increase of the compound from the first to second samples listed ($\alpha=0.05$), '-' indicates a significant decrease