

## ANOVA Table

	CO <sub>2</sub>	H <sub>2</sub> O	MBC	DOC	MBN	N	N <sub>2</sub> O	NMN
Cultivation (C)			.	*	*	**		
Nutrient (N)	***	.	***	***	***	***		.
Sampling (S)	***	***			**	***	***	***
Year (Y)			*	**	***	***	***	***
C:N	***	*				***	***	
C:S	**					**		
C:Y						**		
N:S	.			.		***		
N:Y	***			*		***	*	*
S:Y	***	***	**		***	***		***
C:N:S					.	**		.
C:N:Y	*					***		
C:S:Y	.							
N:S:Y						***		**
C:N:S:Y	*				.	*		*

CO<sub>2</sub>, Incubation Respiration; H<sub>2</sub>O, gravimetric water content; MBC, microbial biomass C; DOC, dissolved organic C; N, mineral NO<sub>3</sub><sup>-</sup>+NH<sub>4</sub><sup>+</sup>-N; N<sub>2</sub>O, Incubation N<sub>2</sub>O emissions; NMN, net mineralizable N

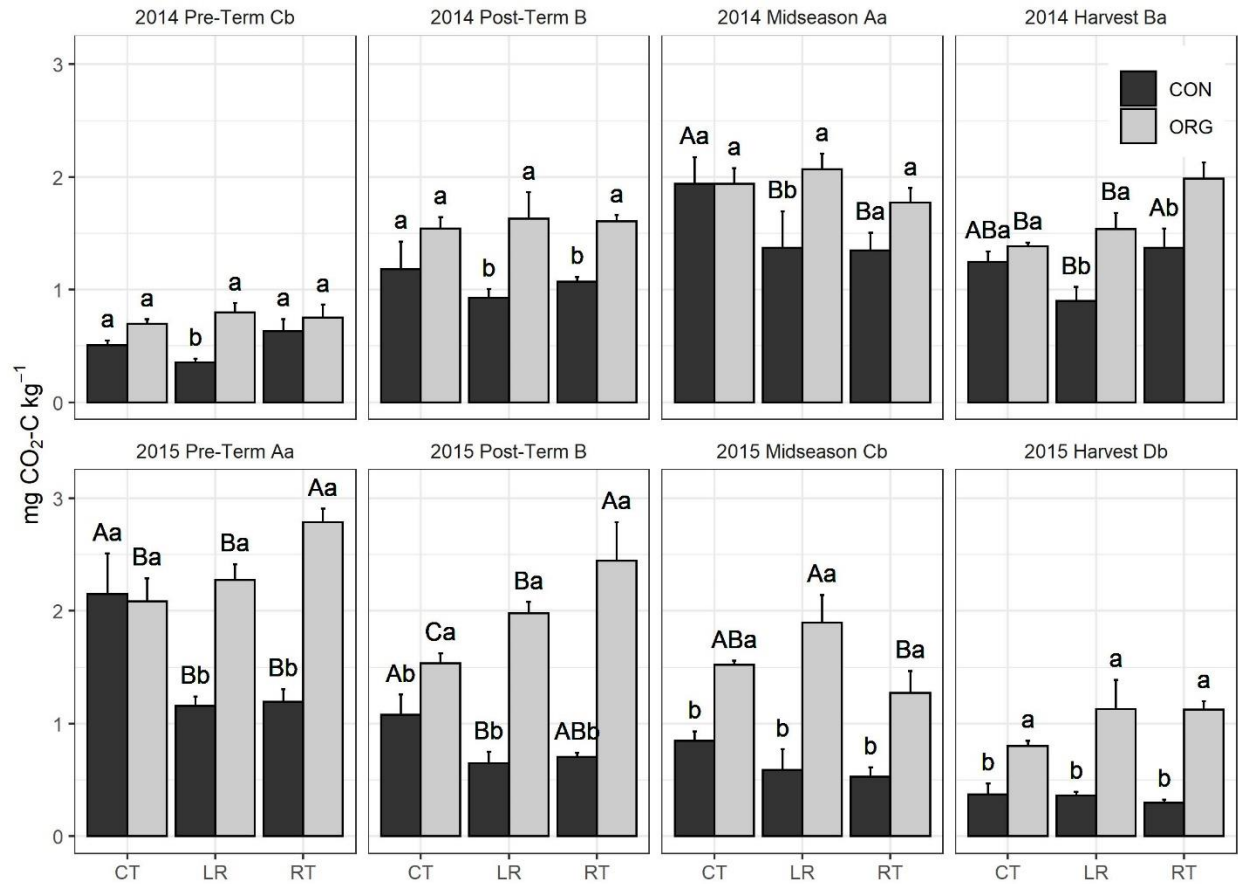
## Means separation table for significant main effects

There were no significant main effects without higher-order interactions for CO<sub>2</sub>, H<sub>2</sub>O, NMN, or N

		N <sub>2</sub> O	MBC	DOC	MBN
Cultivation	CT	1.1(0.41)	200(12)	<b>60a(1.6)</b>	<b>48ab(3.4)</b>
	LR	0.49(0.1)	230(13)	<b>59a(2.1)</b>	<b>51a (2.4)</b>
	RT	0.44(0.11)	200(10)	<b>54b(1.7)</b>	<b>43b (2.5)</b>
Nutrient	CON	0.77(0.27)	<b>190b(10)</b>	<b>54b(1.5)</b>	<b>40b(2)</b>
	ORG	0.58(0.1)	<b>230a(9)</b>	<b>61a(1.4)</b>	<b>54a(2.3)</b>
Sampling	Pre-Term	<b>0.096c(0.011)</b>	220(18)	58(2.3)	52(3.8)
	Post-Term	<b>0.47b(0.09)</b>	210(13)	56(2.1)	53(3.3)
	Midseason	<b>1.8a(0.53)</b>	200(13)	58(2.1)	41(3.3)
	Harvest	<b>0.34b(0.11)</b>	210(12)	58(2)	44(2.2)
Year	2014	<b>0.27b(0.061)</b>	230(8.2)	<b>55b(1.4)</b>	40(1.3)
	2015	<b>1.1a(0.28)</b>	200(11)	<b>60a(1.6)</b>	55(2.8)

## Figures for significant interaction effects

CO<sub>2</sub>



#On bars, read the uppercase letters WITHIN A FERTILIZER treatment

#On bars, read the lowercase letters WITHIN A CULTIVATION TREATMENT

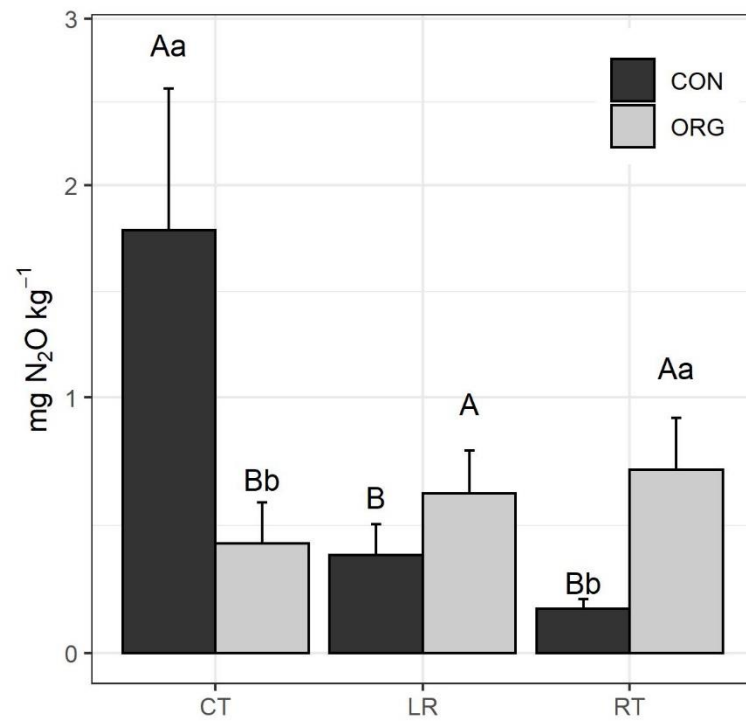
#On each panel, read the uppercase letters WITHIN A YEAR

#On each panel, read the lowercase letters WITHIN A SAMPLING TIME ACROSS YEARS (ie 2014 midseason a > 2015 midseason b)

C:/Users/.../NCSU/Studies/LabileC/Presentable/MBC

Plots/2020Redo\_soil\_extrns/pub/final/msp\_co2a\_d\_yearXsampcltXnut\_all\_and\_msp\_co2a\_d\_yearXsa  
mpcltXnut\_all\_and\_msp\_co2a\_d\_yearXsampXnutXclt\_all.jpeg

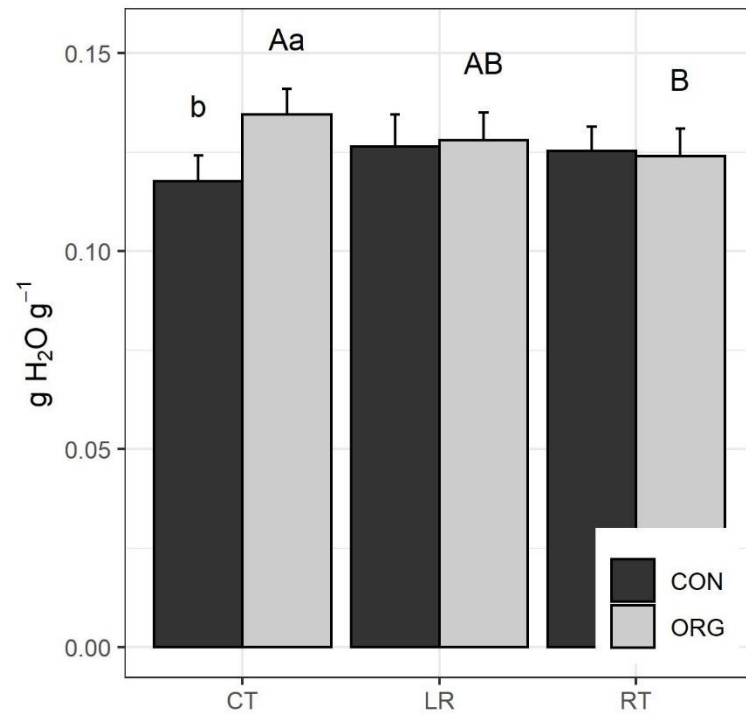
N<sub>2</sub>O



#Read the uppercase letters WITHIN A FERTILIZER treatment

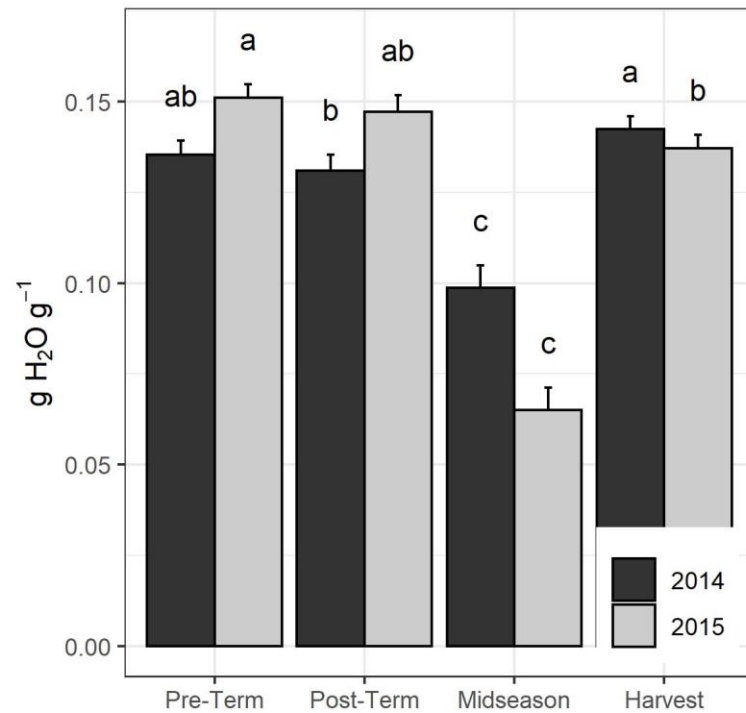
#Read the lowercase letters WITHIN A CULTIVATION TREATMENT (ie no difference between org and conv within LR b/c no lowercase letters)

### Gravimetric water content



#Read the uppercase letters WITHIN A FERTILIZER treatment

#Read the lowercase letters WITHIN A CULTIVATION TREATMENT (ie no difference between org and conv within LR or RT bc no letters)



```
#ggsave(filename="C:/Users/.../NCSU/Studies/LabileC/Presentable/MBC
Plots/2020Redo_soil_extnrs/pub/final/msp_grvwat_yearXsamp_all.jpeg", width = 4, height = 4, plot=a)
```

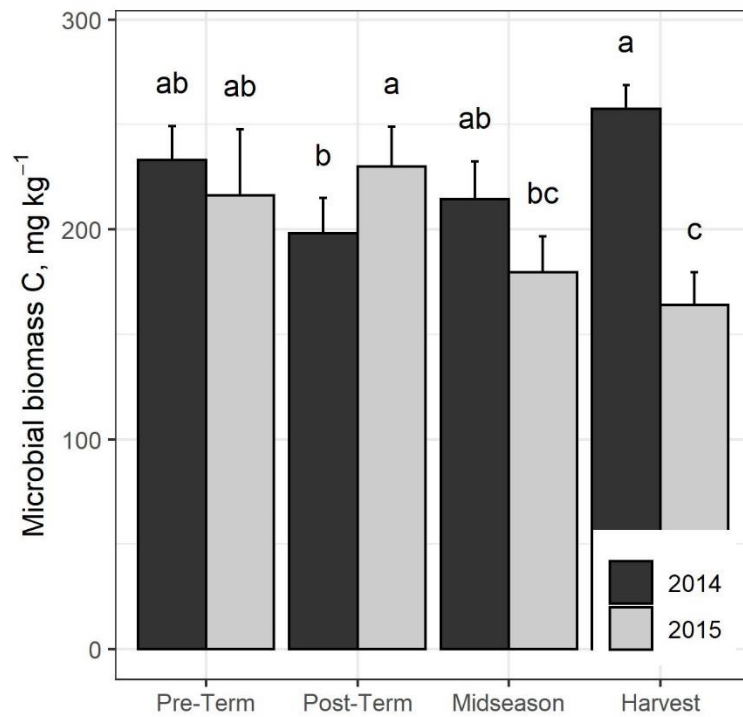
#Read the lowercase letters WITHIN A YEAR (ie in both years midseason is lower than harvest)

DOC

No interactions except year\*nut, and that is only magnitude interaction not direction interaction (i.e. main effects still are accurate that org>conv overall, 2015>2014 overall, just by different degrees).

These main effects are in the table.

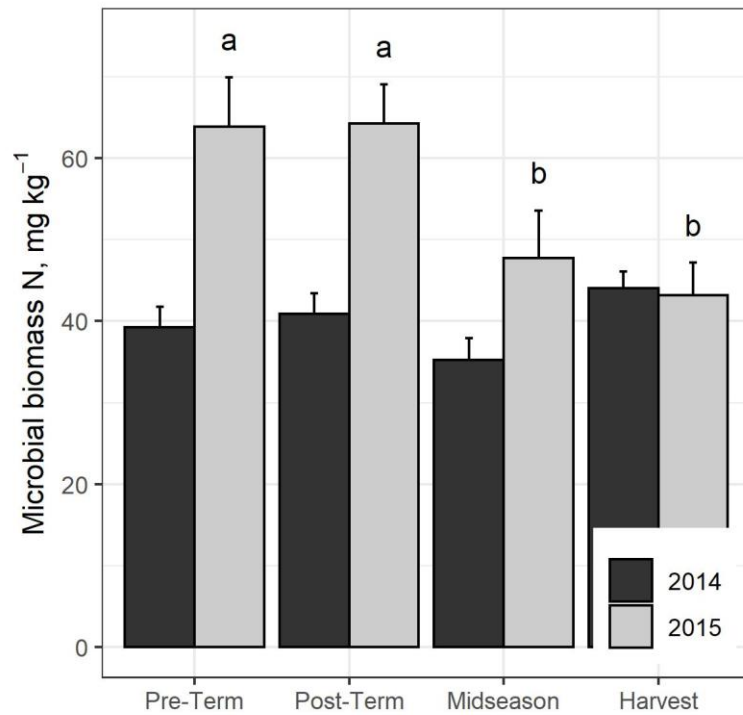
MBC



```
#ggsave(filename="C:/Users/.../NCSU/Studies/LabileC/Presentable/MBC  
Plots/2020Redo_soil_extrns/pub/final/msp_mbc_mgkg_yearXsamp_all.jpeg", width = 4, height = 4,  
plot=a)
```

```
#Read the lowercase letters WITHIN A YEAR (ie harvest is lower than postterm in 2015)
```

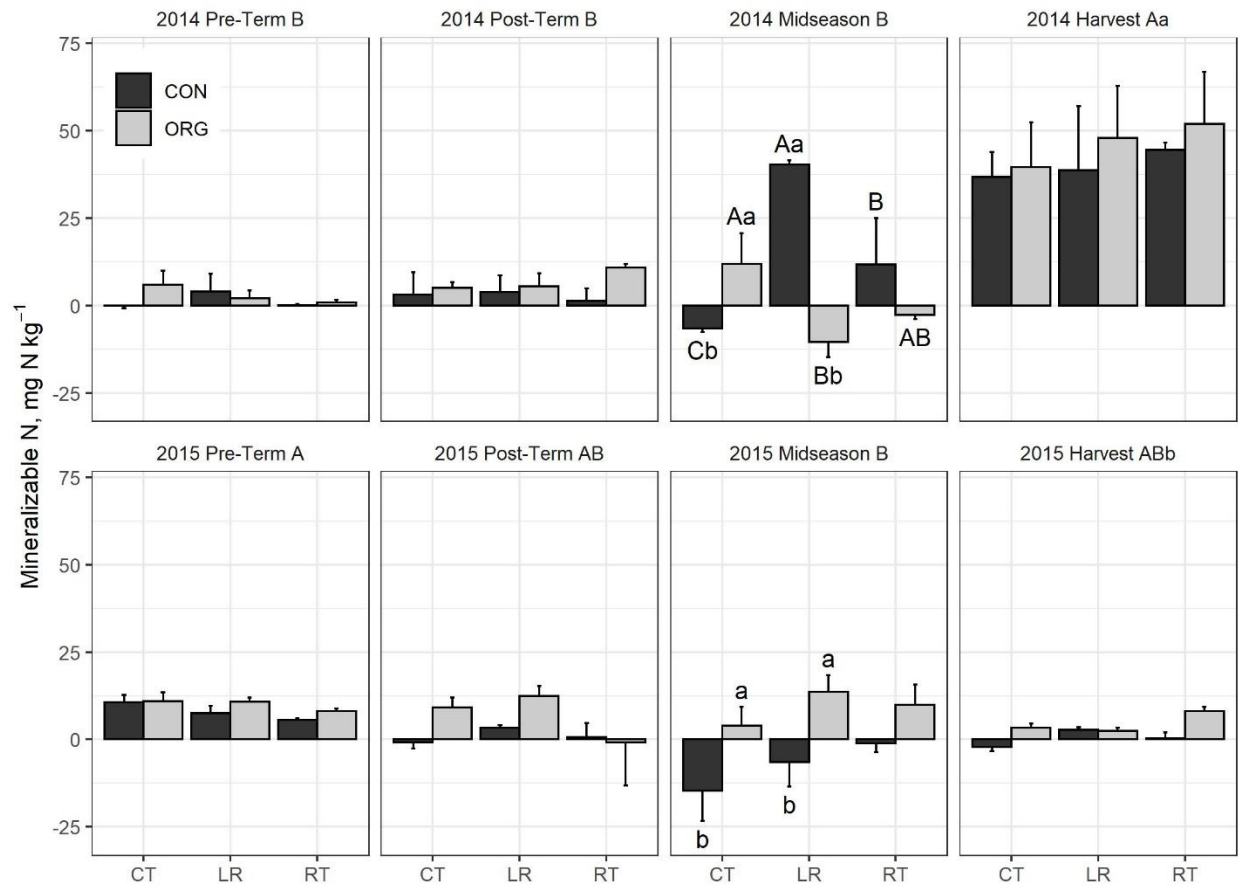
MBN



```
#ggsave(filename="C:/Users/.../NCSU/Studies/LabileC/Presentable/MBC  
Plots/2020Redo_soil_extrns/pub/final/msp_mbn_yearXsamp_all.jpeg", width = 4, height = 4, plot=a)
```

```
#Read the lowercase letters WITHIN A YEAR (ie no differences in 2014)
```

## Mineralizable N



# C:/Users/.../NCSU/Studies/LabileC/Presentable/MBC

Plots/2020Redo\_soil\_extnrs/pub/final/msp\_nmn\_yearXsampcltXnut\_all\_and\_msp\_nmn\_yearXsampcltXnut\_all\_and\_msp\_nmn\_yearXsampXnutXclt\_all.jpeg

#On bars, read the uppercase letters WITHIN A FERTILIZER treatment

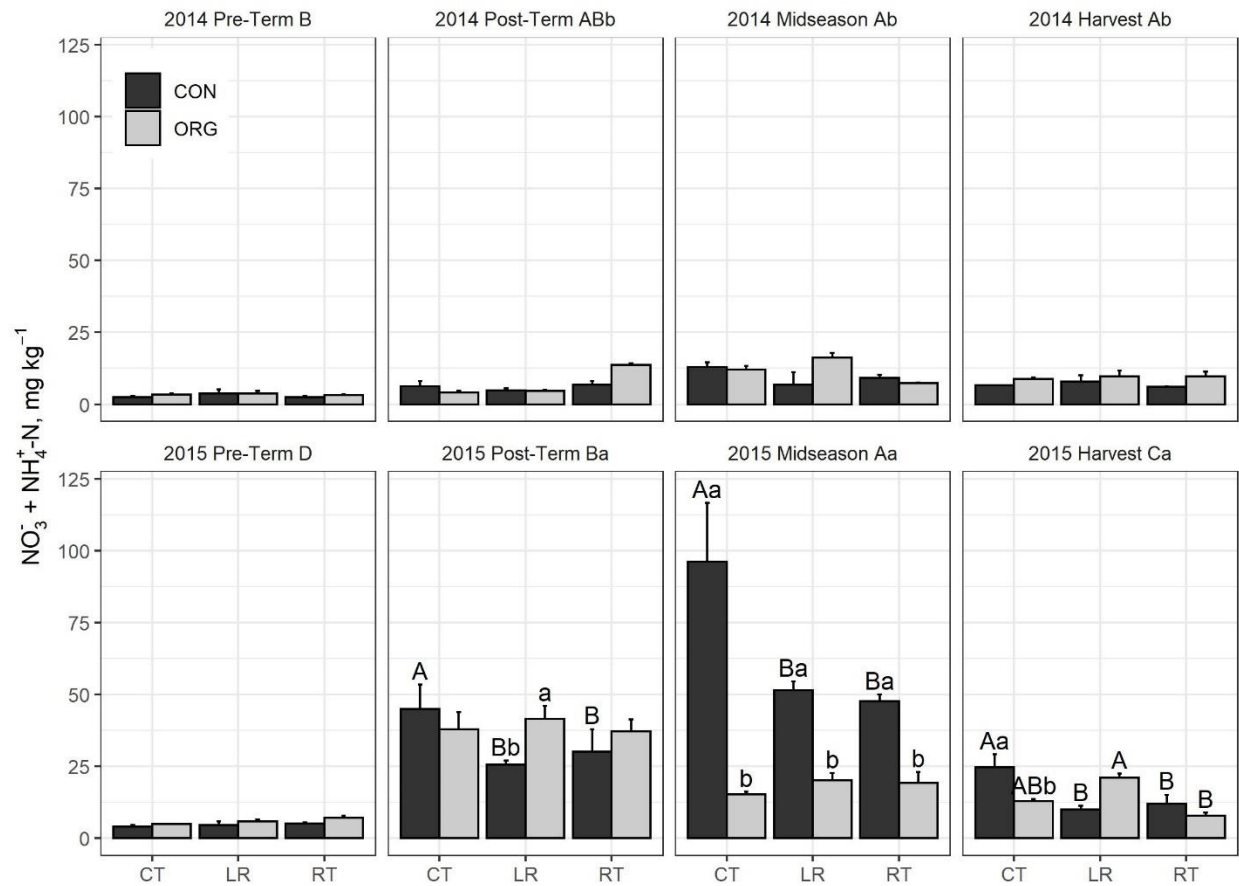
#On bars, read the lowercase letters WITHIN A CULTIVATION TREATMENT

#On each panel, read the uppercase letters WITHIN A YEAR

#On each panel, read the lowercase letters WITHIN A SAMPLING TIME ACROSS YEARS (ie 2014 harvest > 2015 harvest)



## Mineral N



C:/Users/.../NCSU/Studies/LabileC/Presentable/MBC

Plots/2020Redo\_soil\_extnrs/pub/final/msp\_min\_yearXsampcltXnut\_all\_and\_msp\_min\_yearXsampcltXnut\_all\_and\_msp\_min\_yearXsampXnutXclt\_all.jpeg

#On bars, read the uppercase letters WITHIN A FERTILIZER treatment

#On bars, read the lowercase letters WITHIN A CULTIVATION TREATMENT

#On each panel, read the uppercase letters WITHIN A YEAR

#On each panel, read the lowercase letters WITHIN A SAMPLING TIME ACROSS YEARS (ie 2014 midseason < 2015 midseason)