

# Cover Crop / Manure Management CIG



Finished barn November 2021 all 660 ‘



# June clean out



# Manure aeration



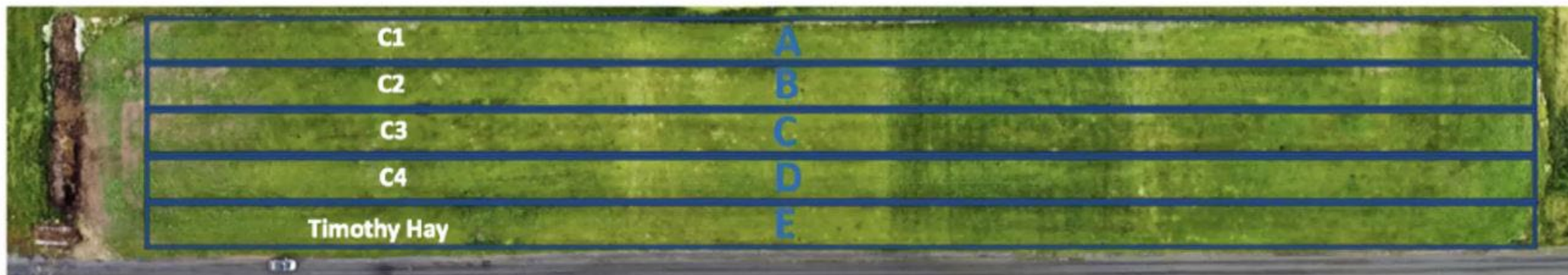
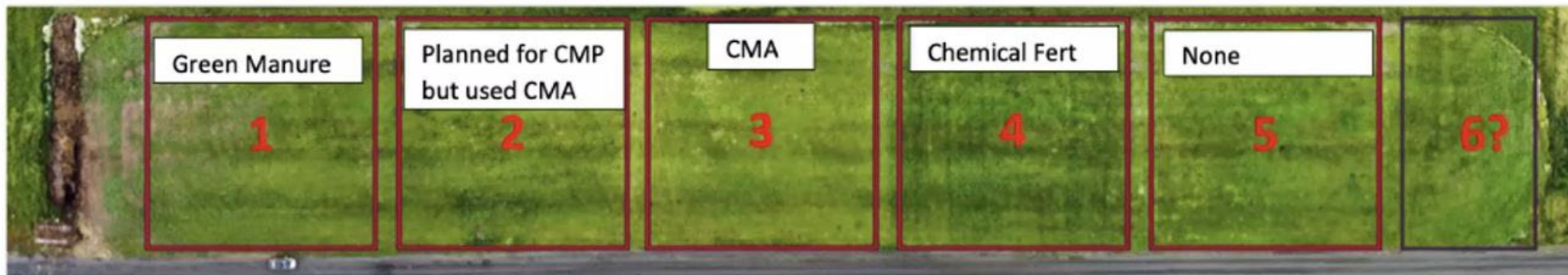
# Spreading in the fall



# Soil Sampling Fall



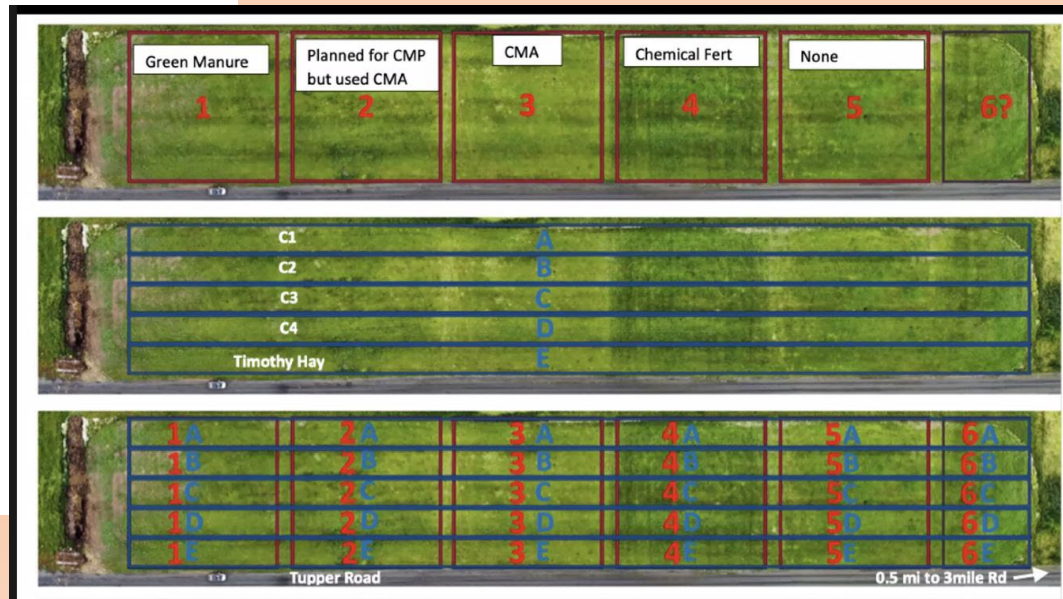
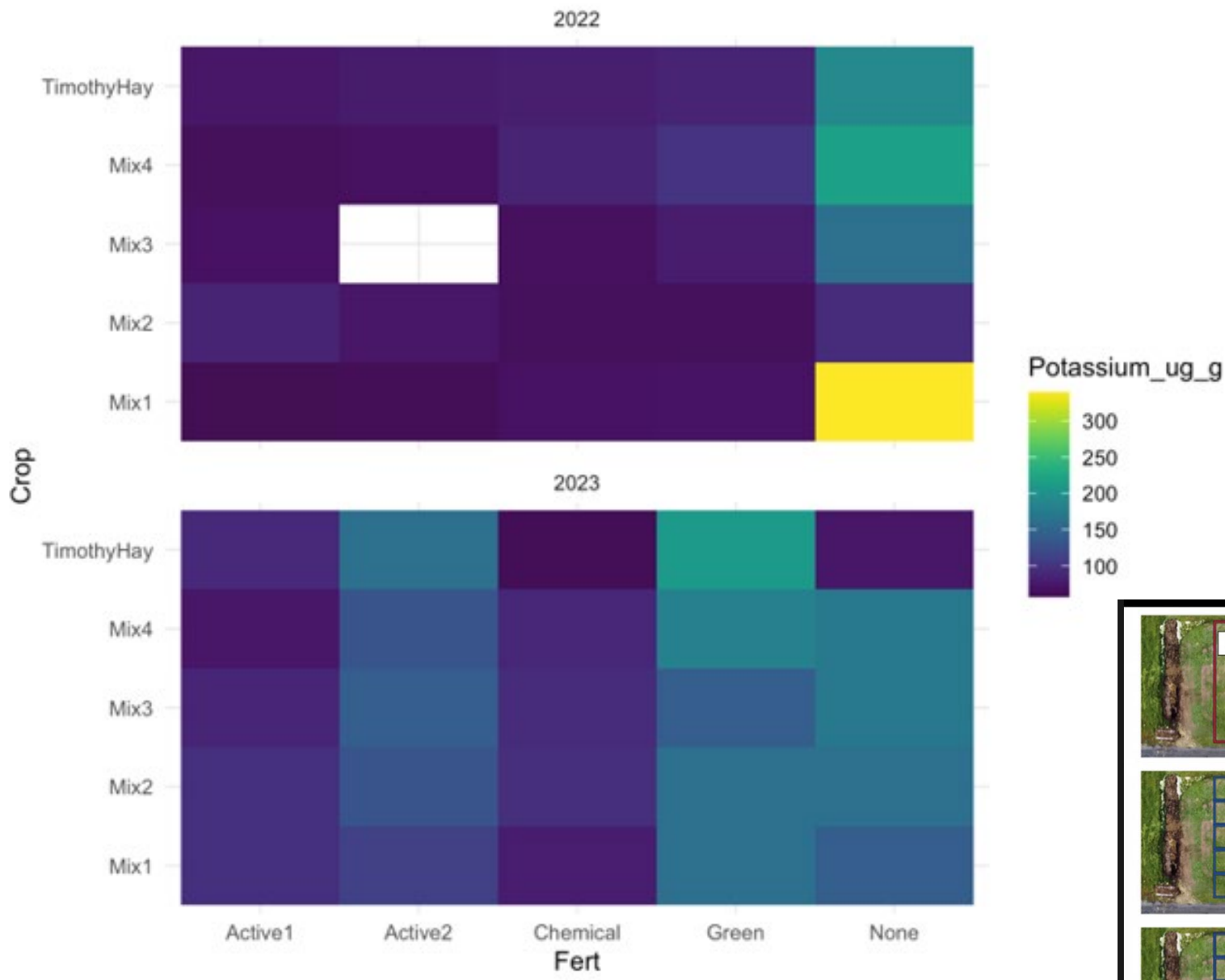


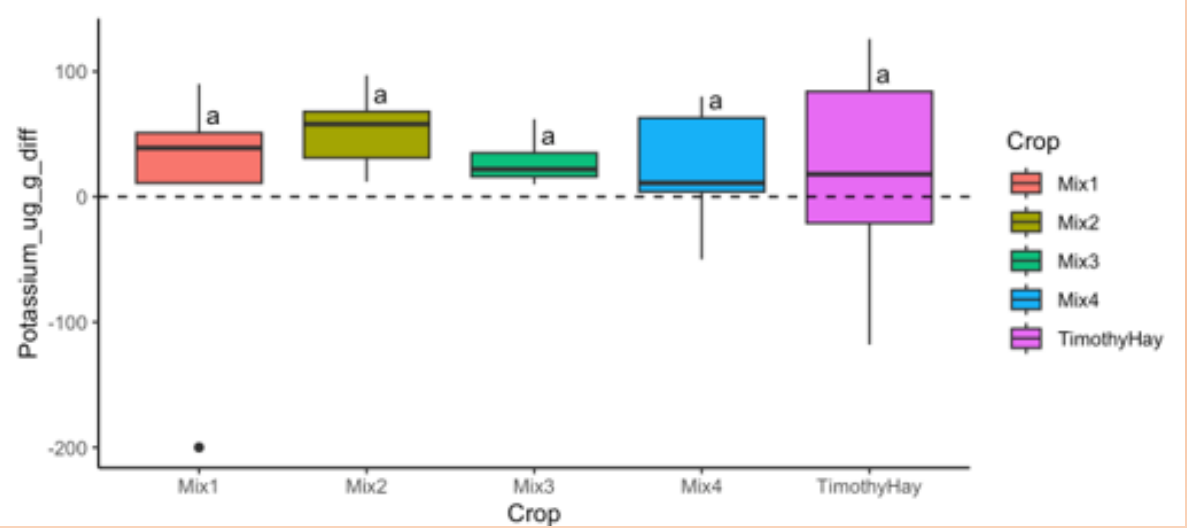
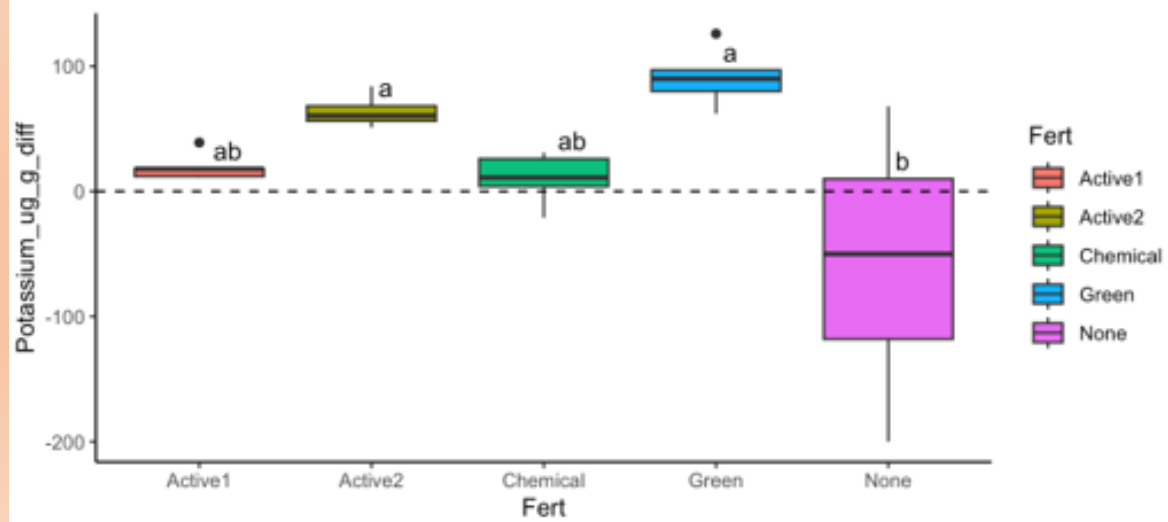
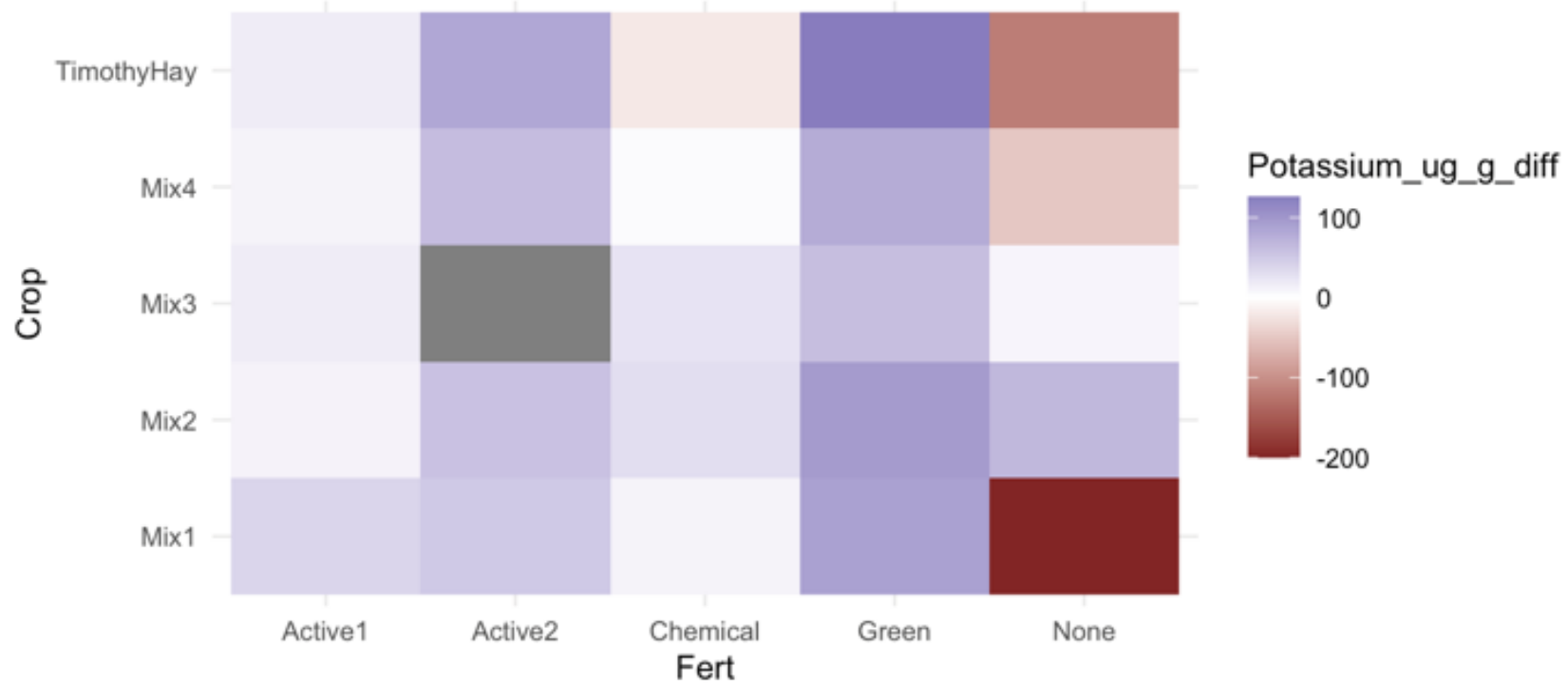


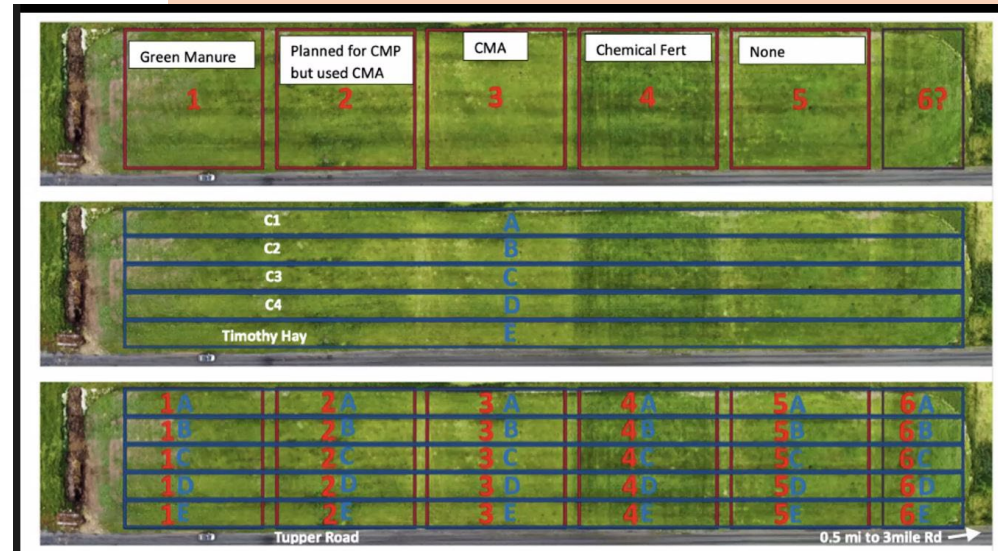
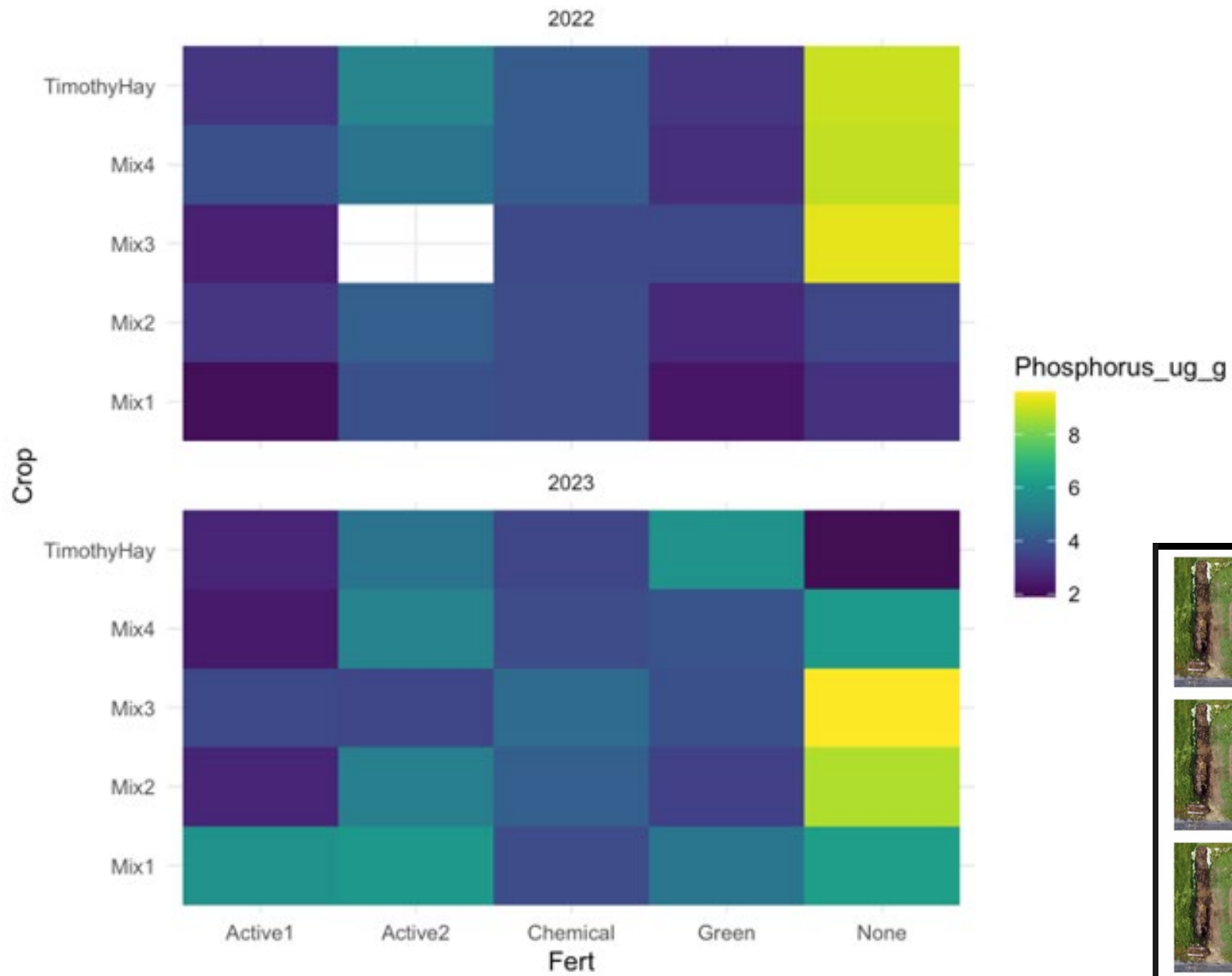


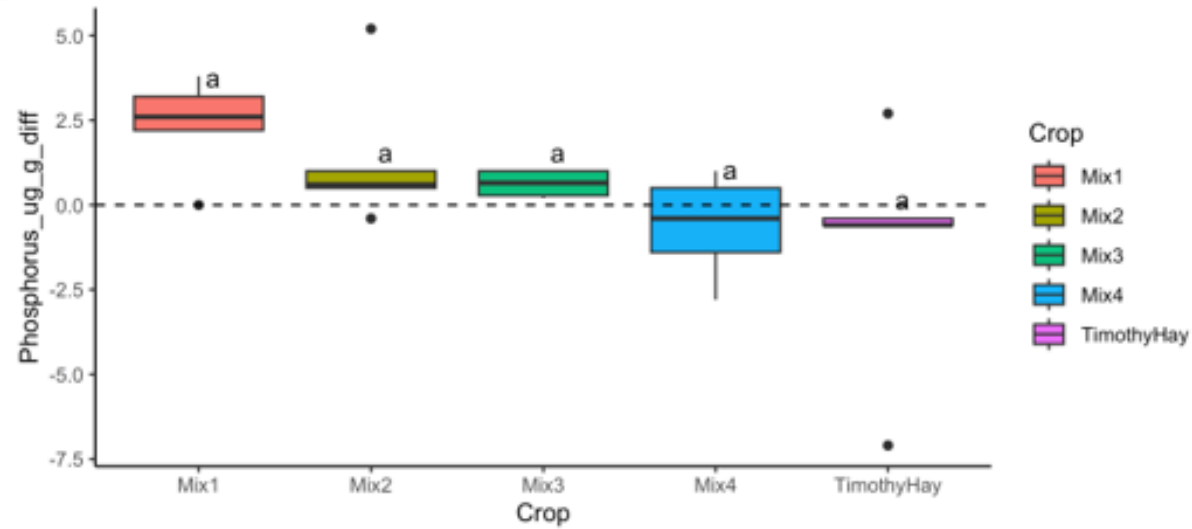
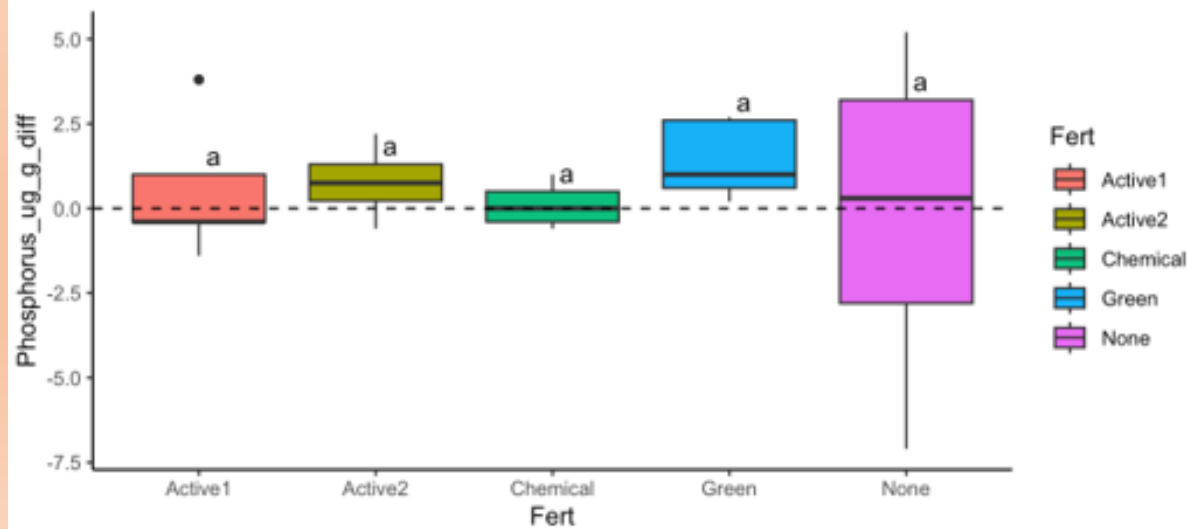
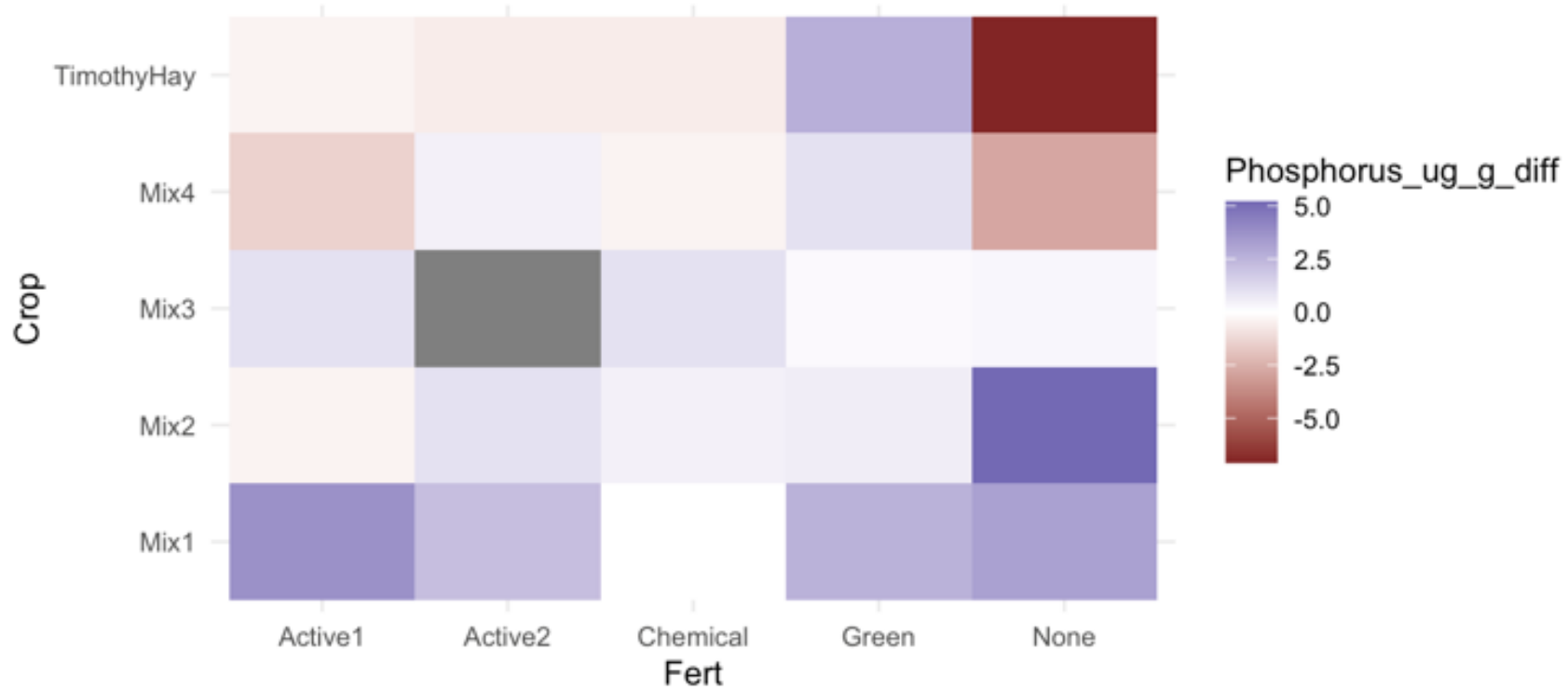
## 2022 Soils Data

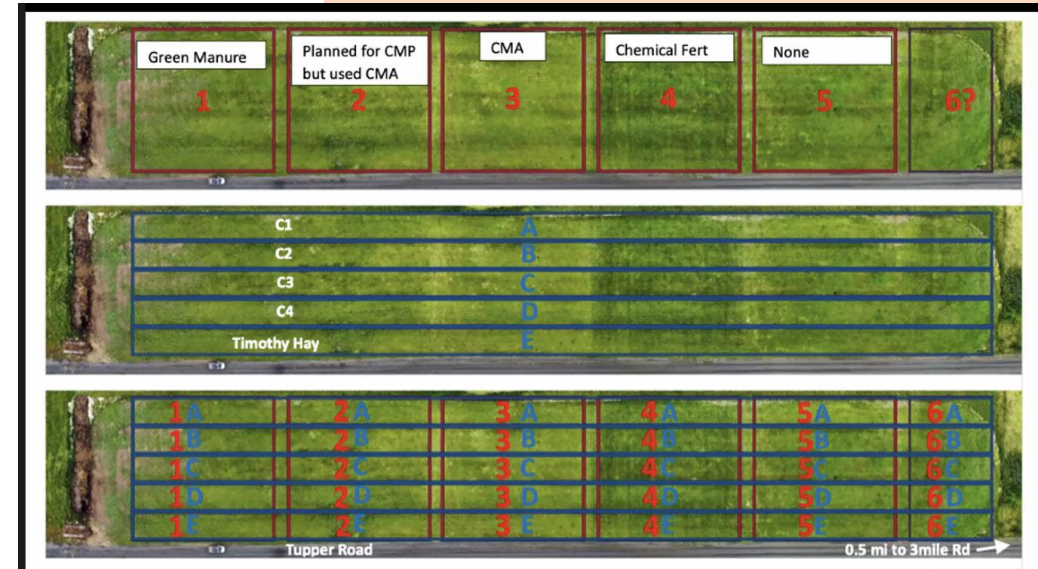
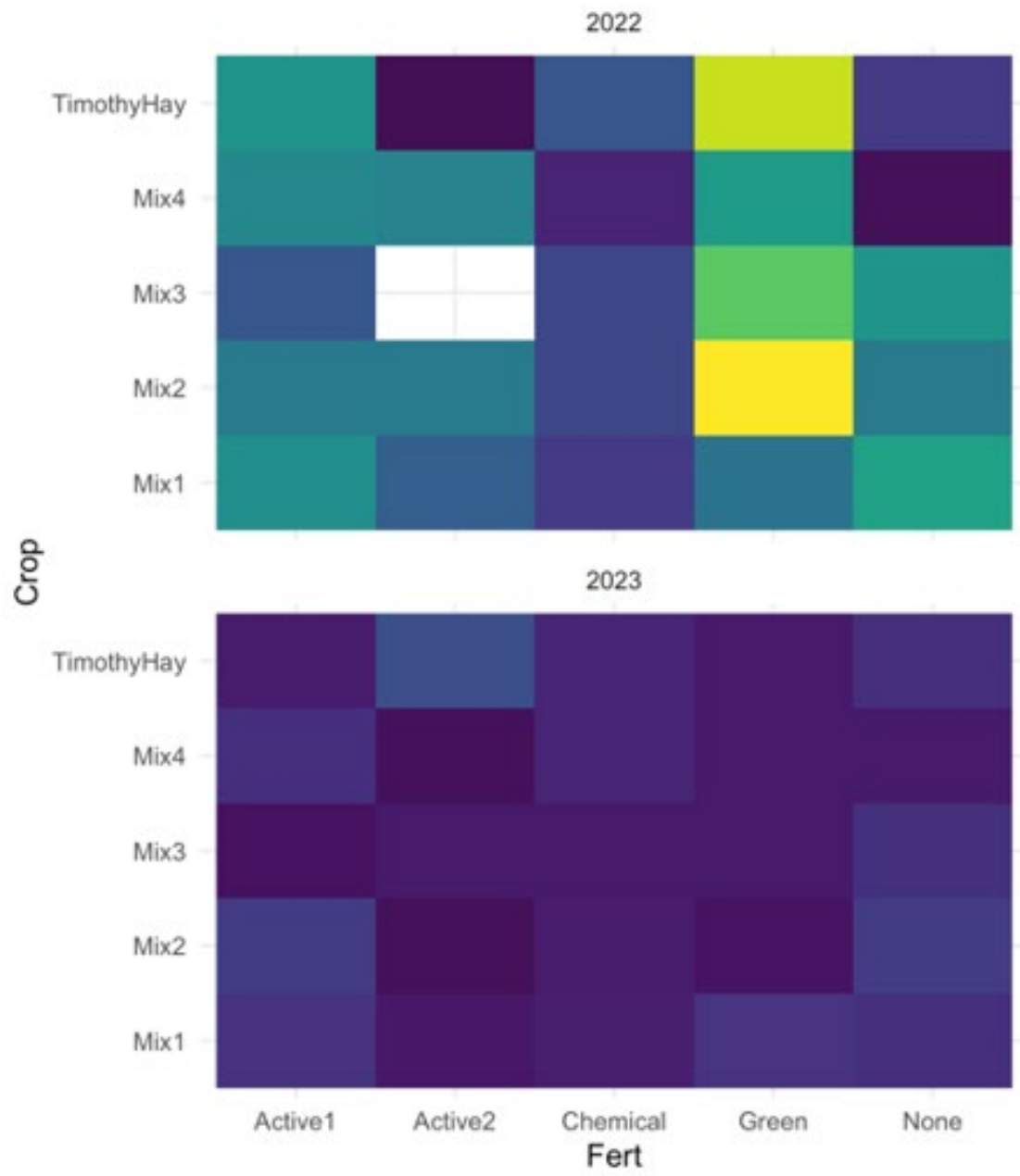
all nutrients have ug/g units														
1a	Avail. P	5.838	2a	Avail. P	2.652	3a	Avail. P	4.783	4a	Avail. P	3.5	5a	Avail. P	1.949
	Nitrate/Nitrite	5.691		Nitrate/Nitrite	6.007		Nitrate/Nitrite	11.709		Nitrate/Nitrite	7.0179		Nitrate/Nitrite	7.9884
	Ammonia	4.1689		Ammonia	7.7852		Ammonia	7.1561		Ammonia	4.8794		Ammonia	3.5737
	OM	5.689		OM	5.344		OM	5.199		OM	4.944		OM	5.277
	pH	4.901		pH	4.94		pH	4.735		pH	4.842		pH	4.9655
1b	Avail. P	3.852	2b	Avail. P	2.445	3b	Avail. P	5.321	4b	Avail. P	3.687	5b	Avail. P	6.086
	Nitrate/Nitrite	5.6786		Nitrate/Nitrite	8.1226		Nitrate/Nitrite	4.2517		Nitrate/Nitrite	6.9861		Nitrate/Nitrite	5.7154
	Ammonia	5.6044		Ammonia	5.064		Ammonia	6.7057		Ammonia	3.5916		Ammonia	3.9435
	OM	4.643		OM	4.966		OM	5.032		OM	5.433		OM	6.156
	pH	4.962		pH	4.875		pH	4.88		pH	4.845		pH	5.133
1c	Avail. P	3.769	2c	Avail. P	3.625	3c	Avail. P	3.542	4c	Avail. P	4.576	5c	Avail. P	9.562
	Nitrate/Nitrite	5.7383		Nitrate/Nitrite	4.5577		Nitrate/Nitrite	5.7078		Nitrate/Nitrite	5.6538		Nitrate/Nitrite	8.4418
	Ammonia	5.8167		Ammonia	5.5618		Ammonia	3.6579		Ammonia	4.7035		Ammonia	2.4757
	OM	4.721		OM	4.365		OM	4.476		OM	5.311		OM	7.568
	pH	4.549		pH	4.754		pH	4.896		pH	4.771		pH	5.008
1d	Avail. P	3.416	2d	Avail. P	3.652	3d	Avail. P	5.155	4d	Avail. P	4.183	5d	Avail. P	8.652
	Nitrate/Nitrite	4.9811		Nitrate/Nitrite	9.7053		Nitrate/Nitrite	3.9211		Nitrate/Nitrite	5.9521		Nitrate/Nitrite	9.6931
	Ammonia	4.9833		Ammonia	3.6212		Ammonia	5.3289		Ammonia	4.6545		Ammonia	3.9741
	OM	4.61		OM	4.109		OM	4.287		OM	5.311		OM	7.591
	pH	4.809		pH	4.762		pH	4.488		pH	4.808		pH	5.243
1e	Avail. P	4.8765	2e	Avail. P	5.838	3e	Avail. P	5.962	4e	Avail. P	3.749	5e	Avail. P	6.2415
	Nitrate/Nitrite	8.7214		Nitrate/Nitrite	8.6351		Nitrate/Nitrite	5.2699		Nitrate/Nitrite	6.2708		Nitrate/Nitrite	8.2095
	Ammonia	3.4678		Ammonia	6.8173		Ammonia	7.5754		Ammonia	3.1319		Ammonia	3.3248
	OM	4.688		OM	5.133		OM	4.432		OM	5.466		OM	6.233
	pH	4.644		pH	4.472		pH	4.712		pH	4.935		pH	5.375

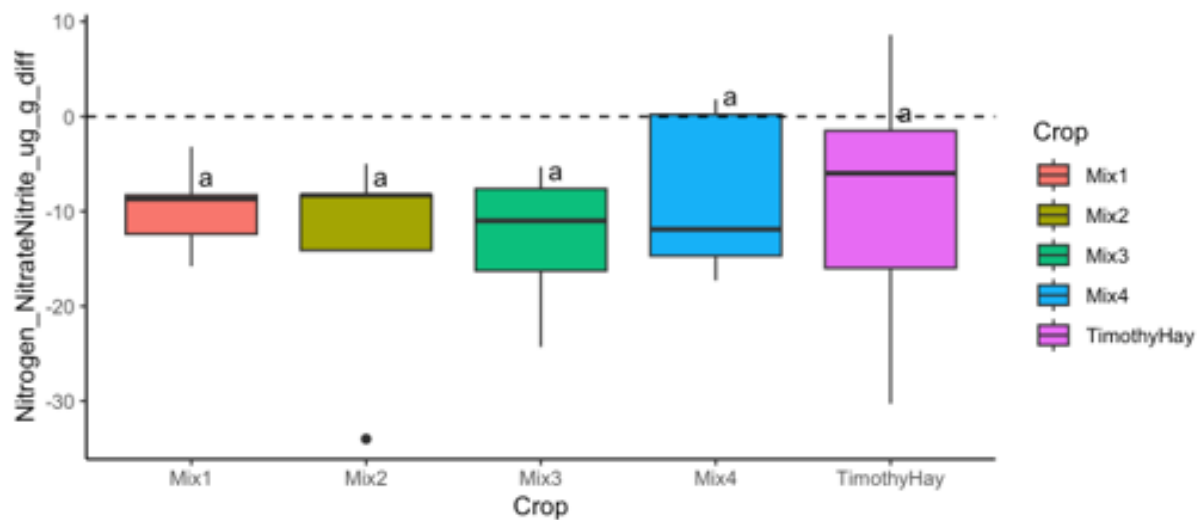
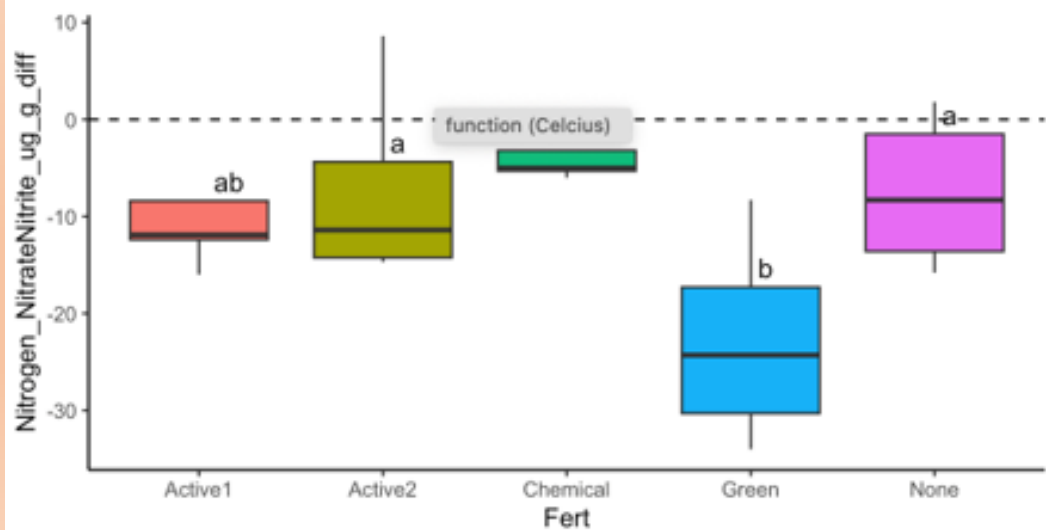
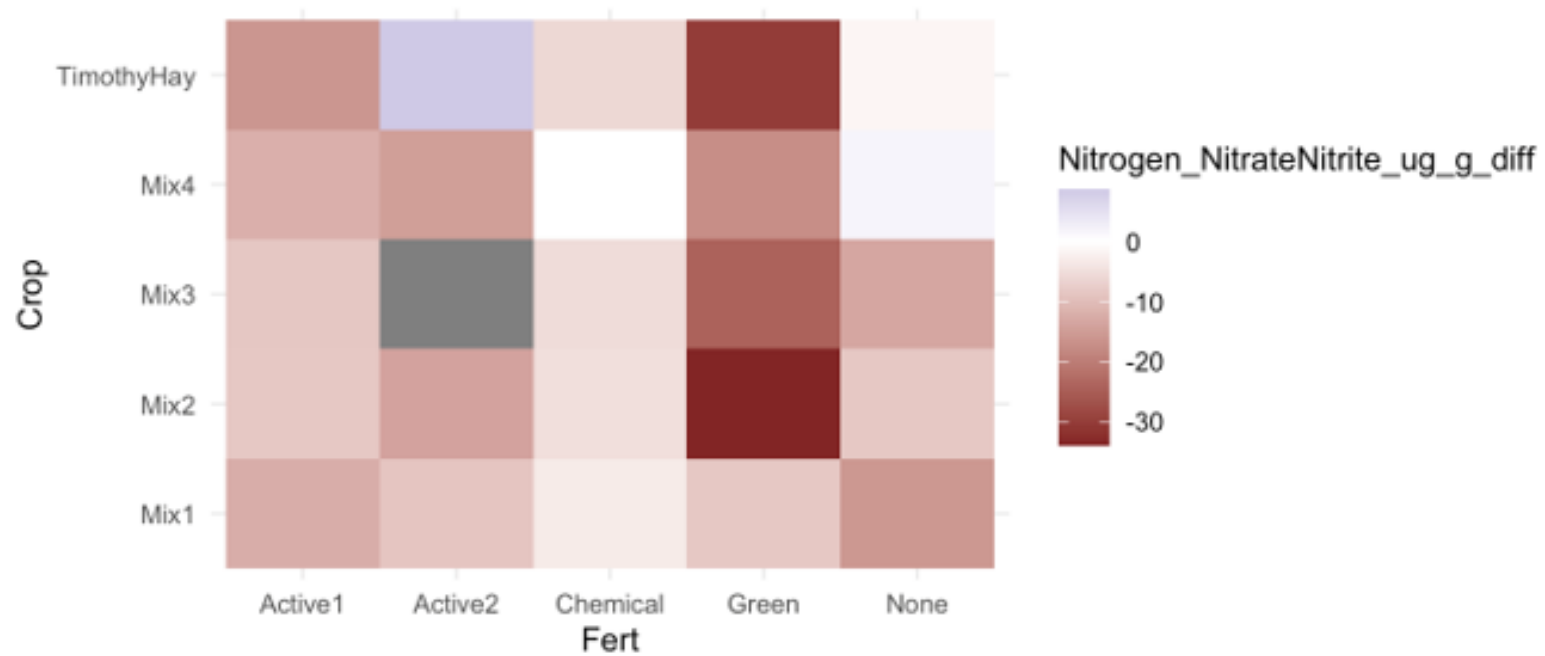


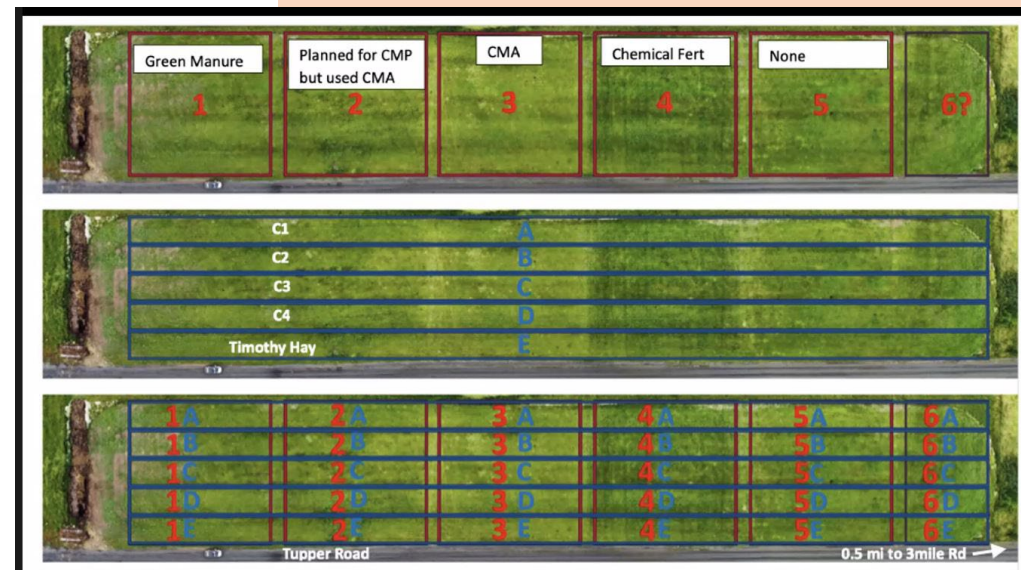
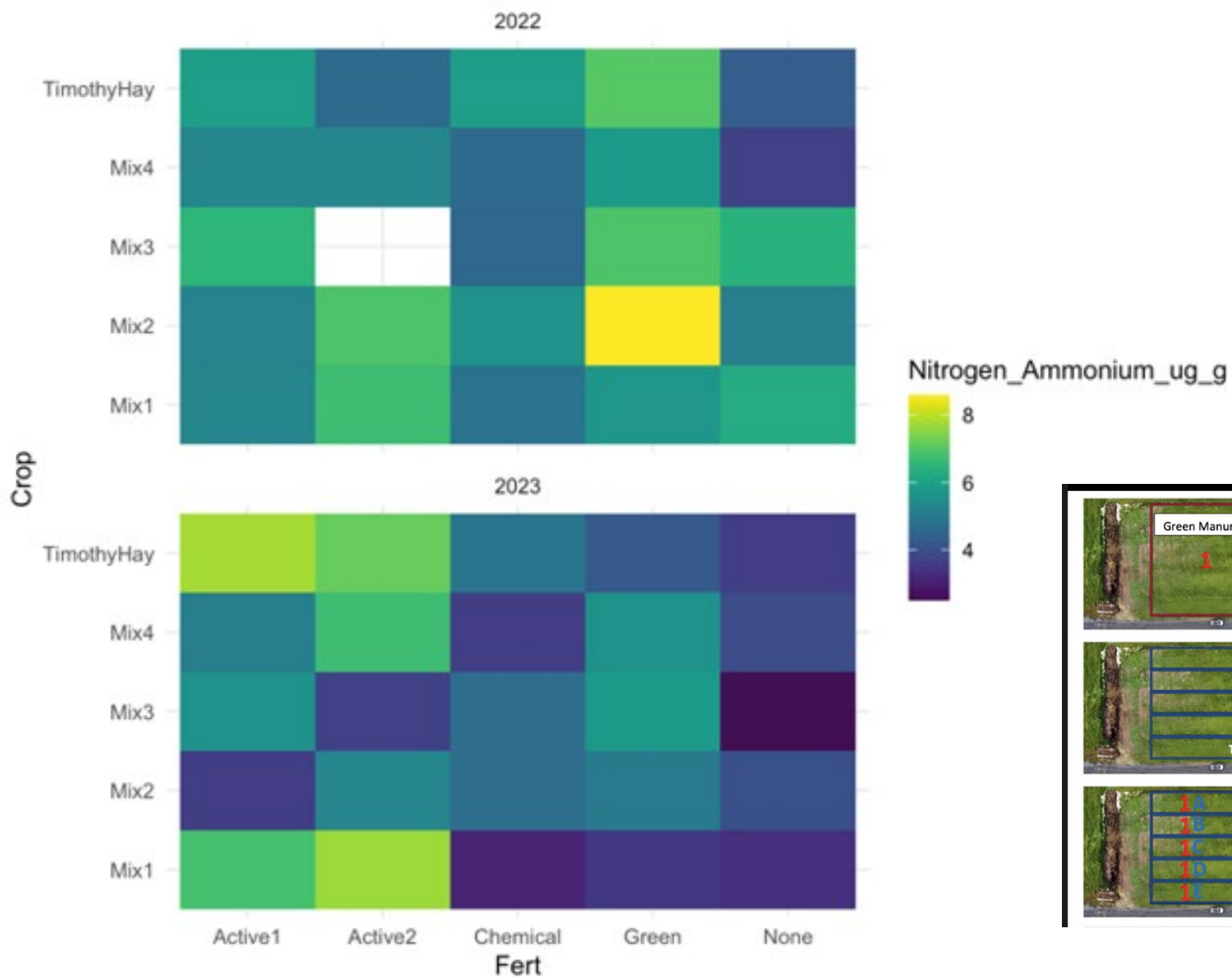




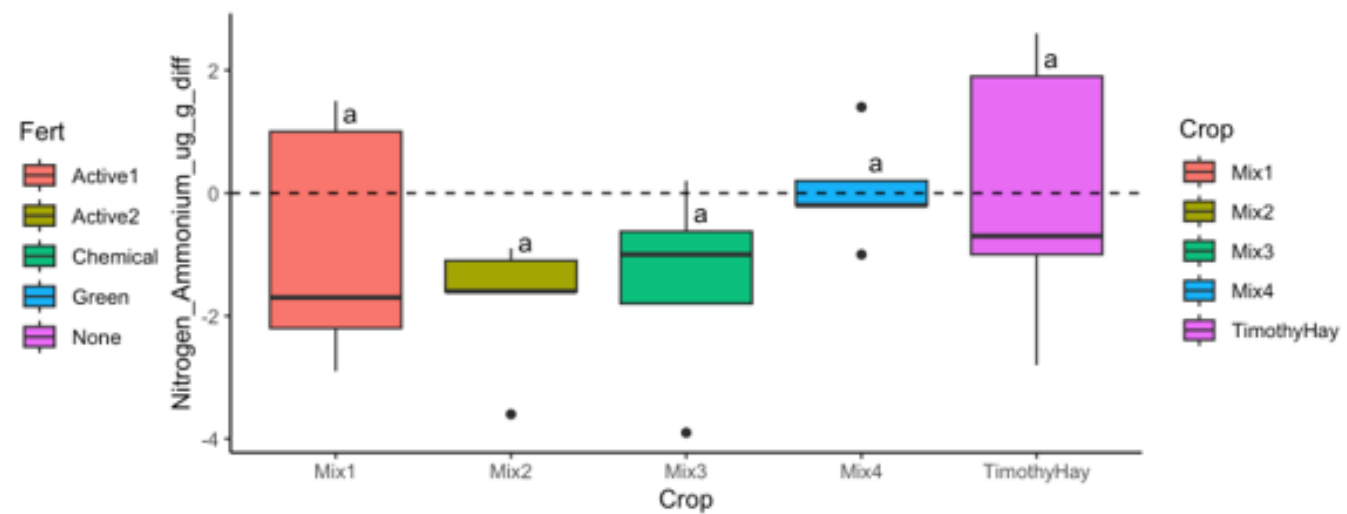
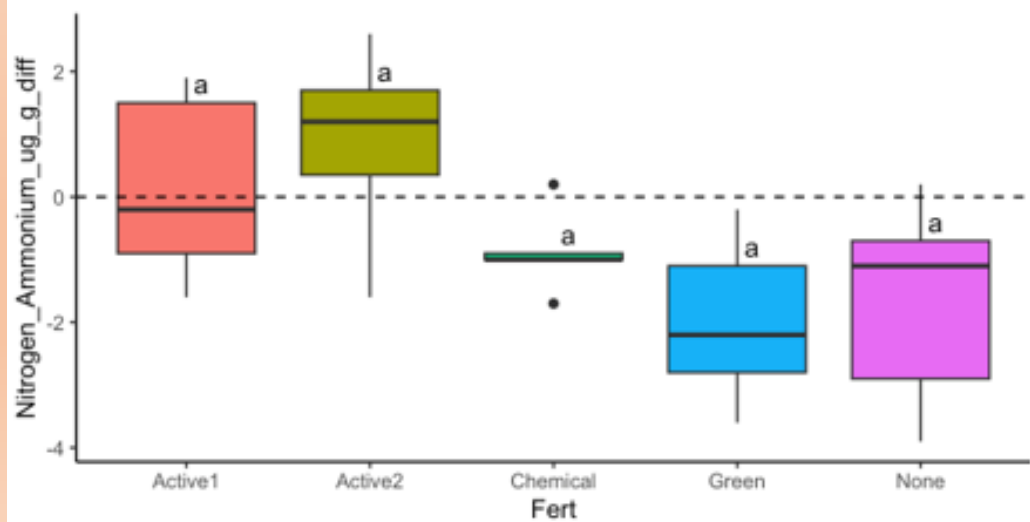
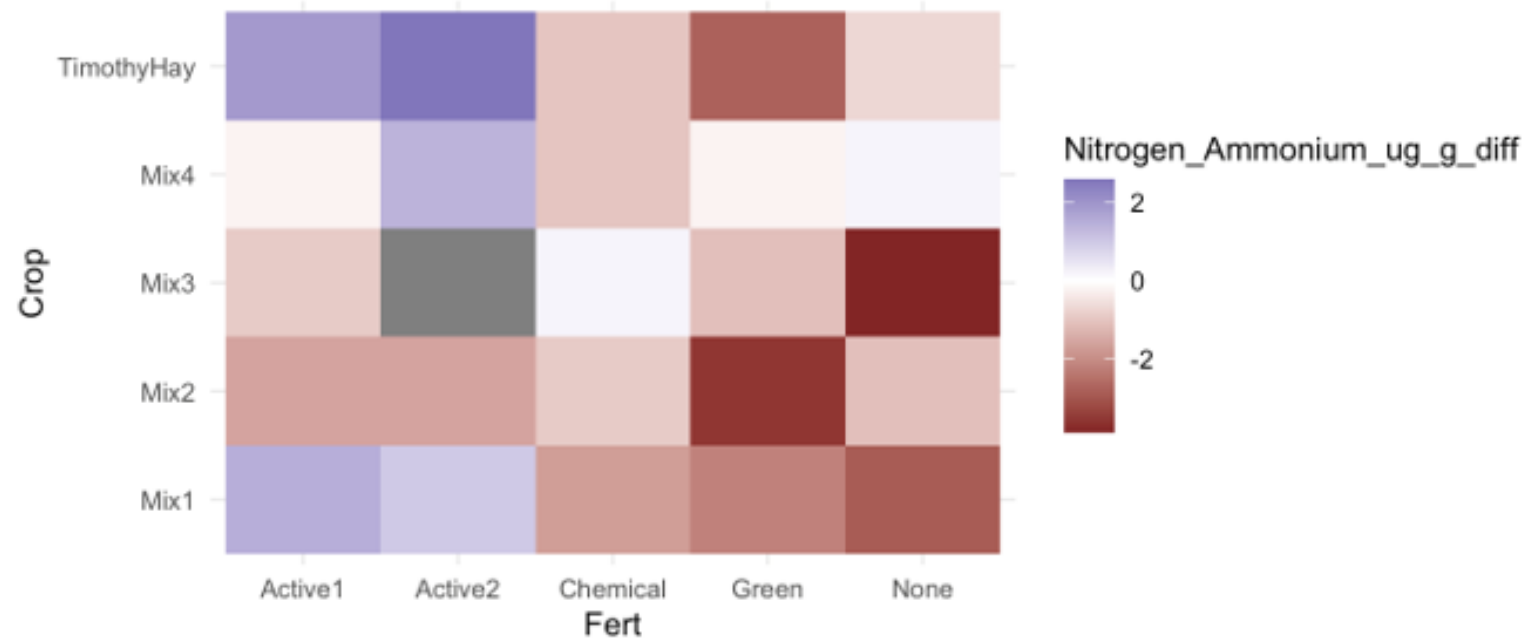


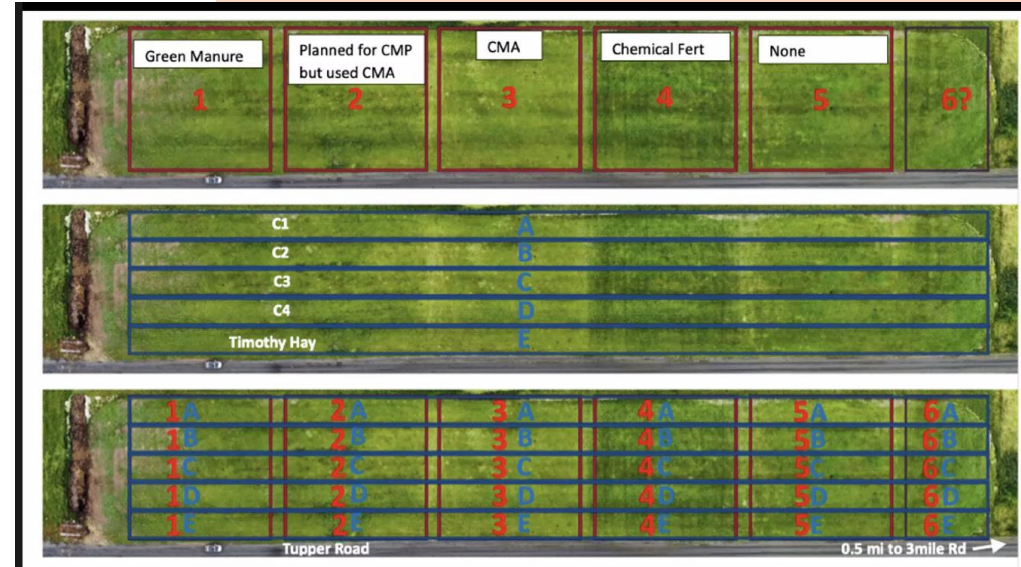
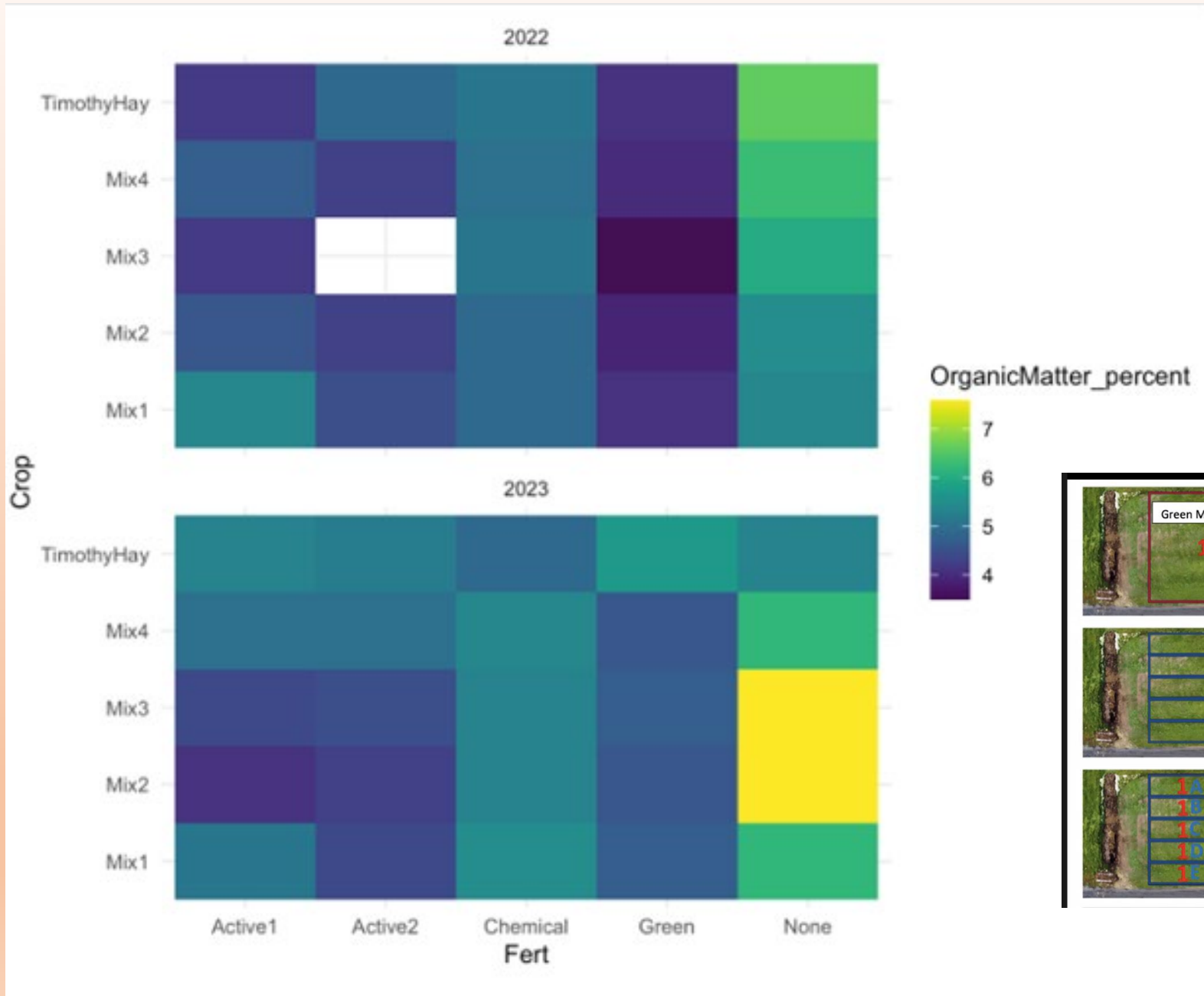


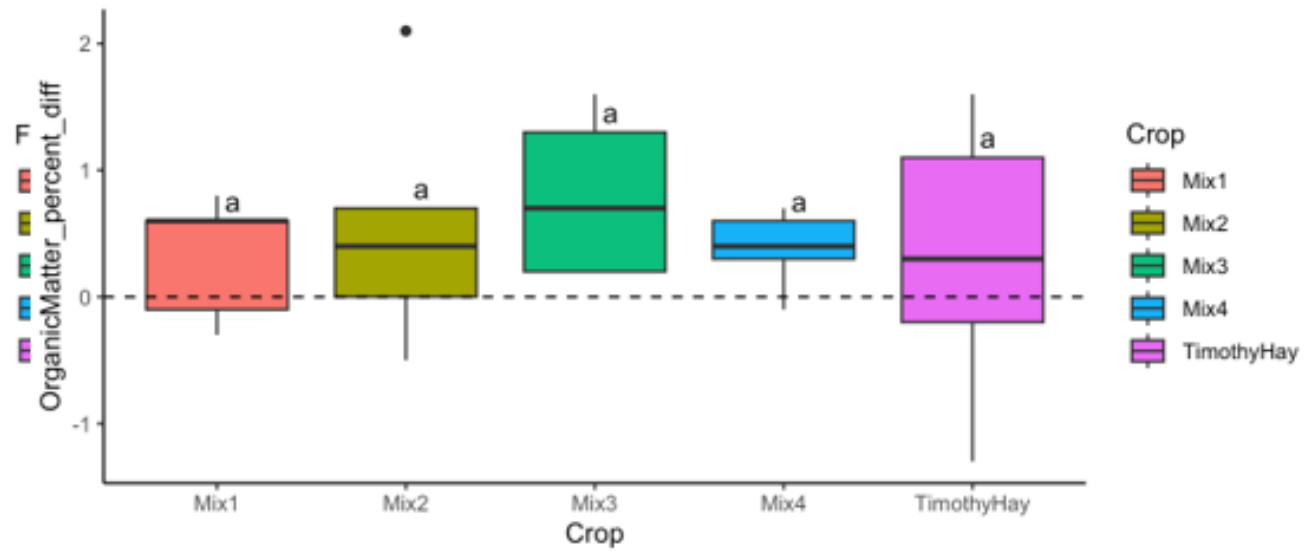
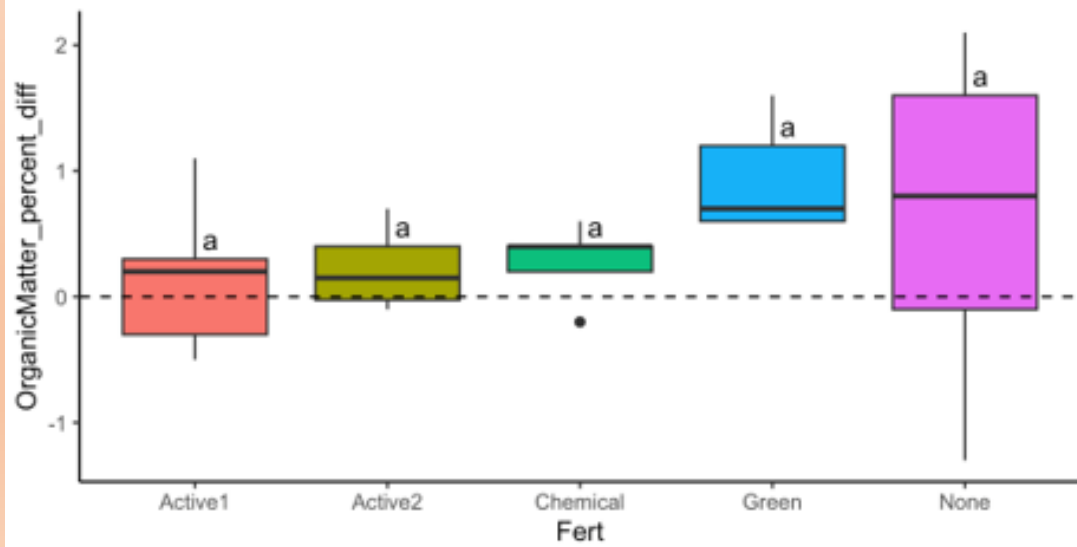
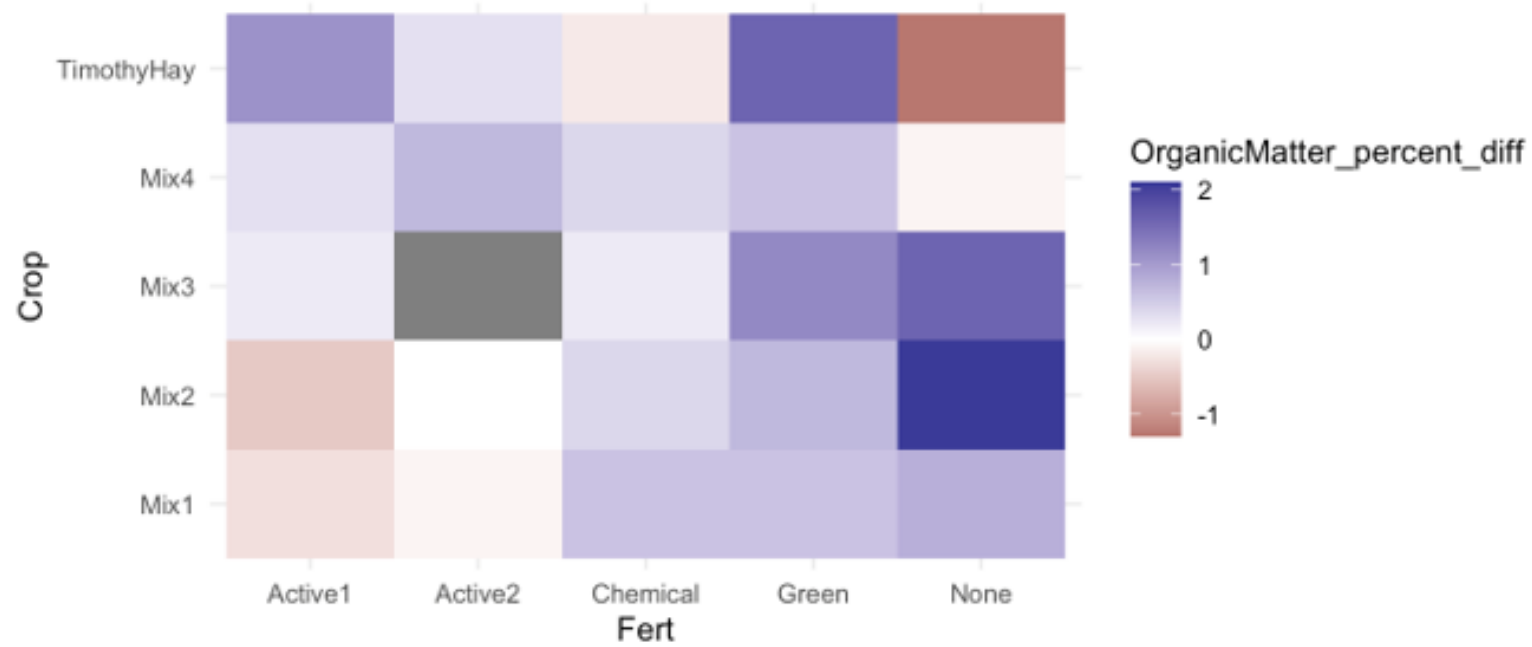


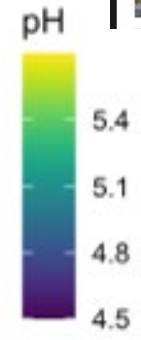
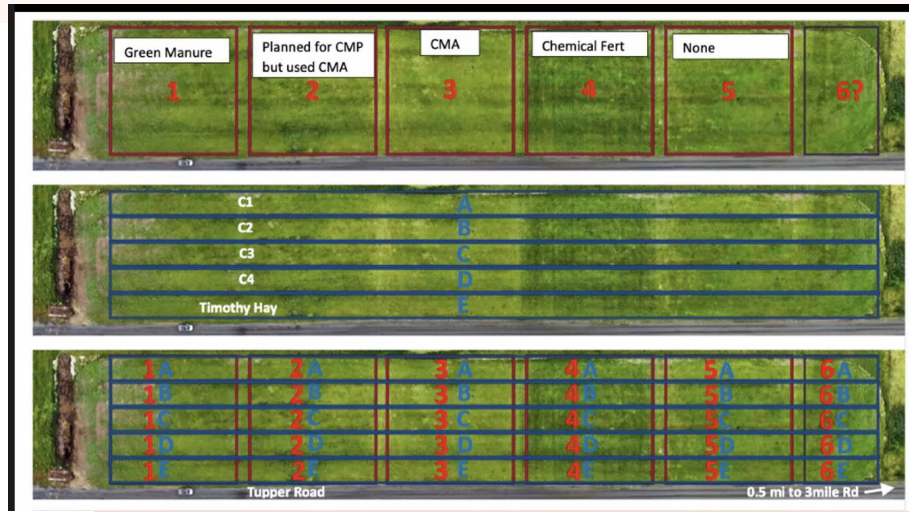
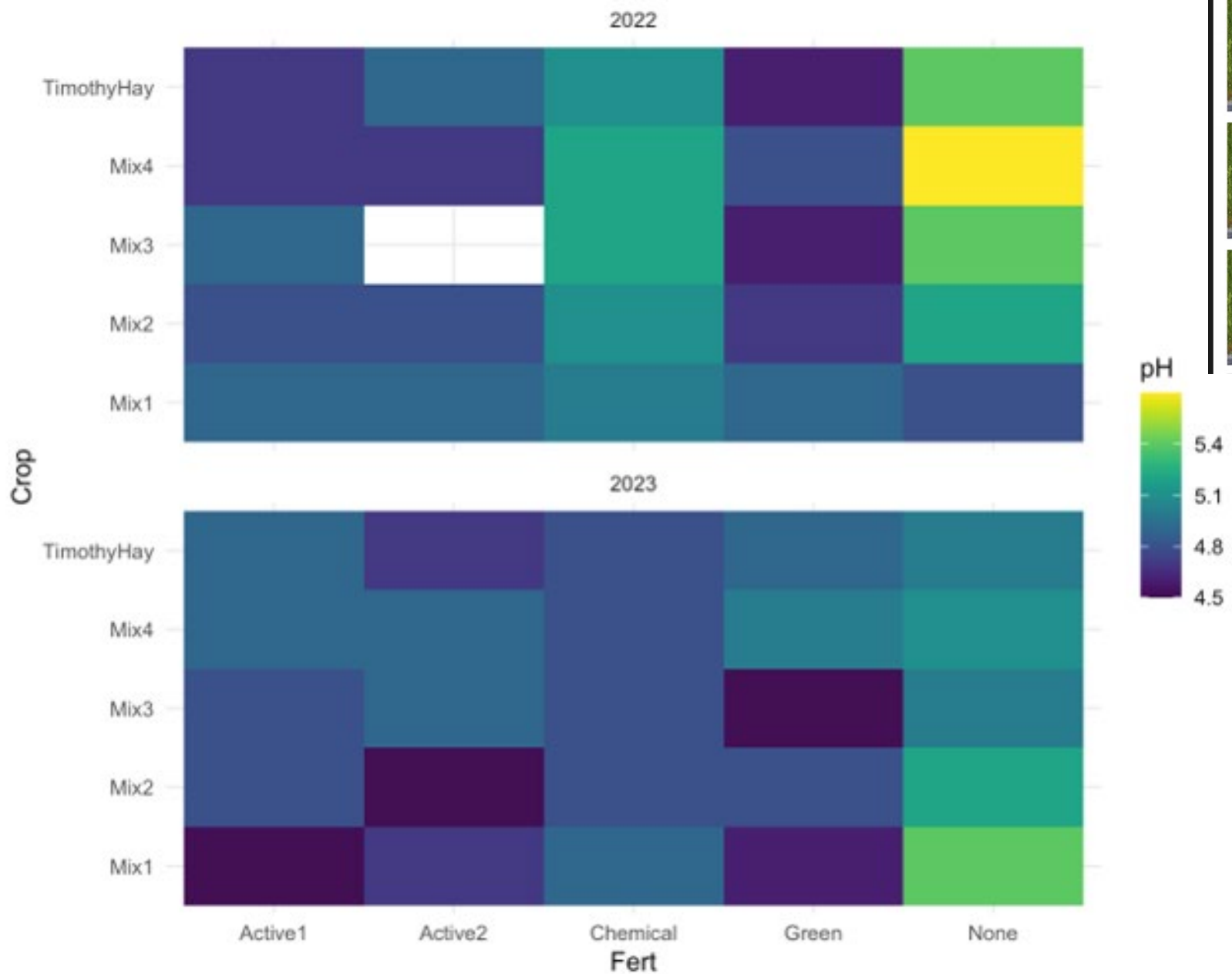


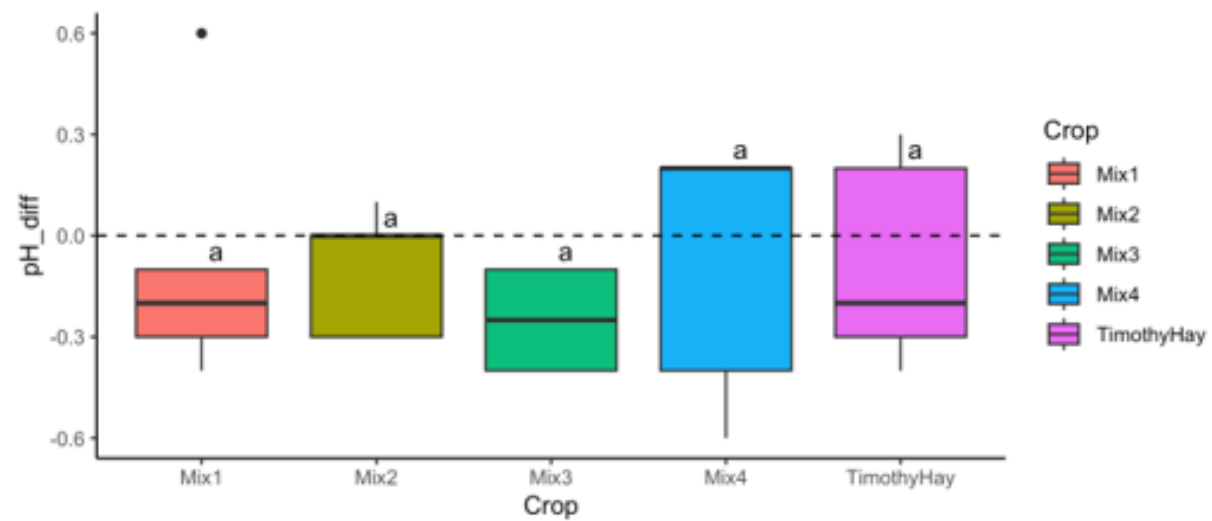
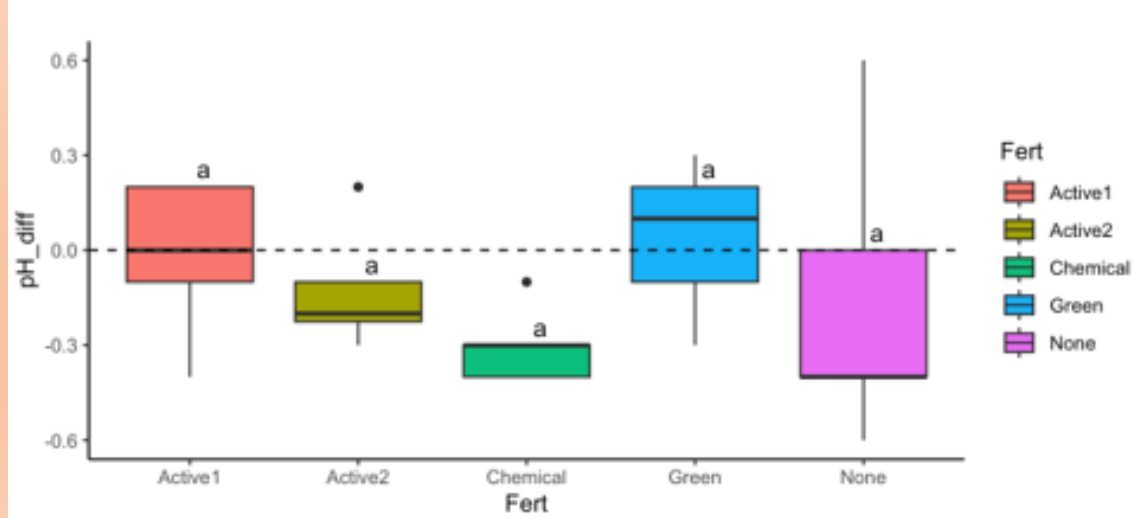
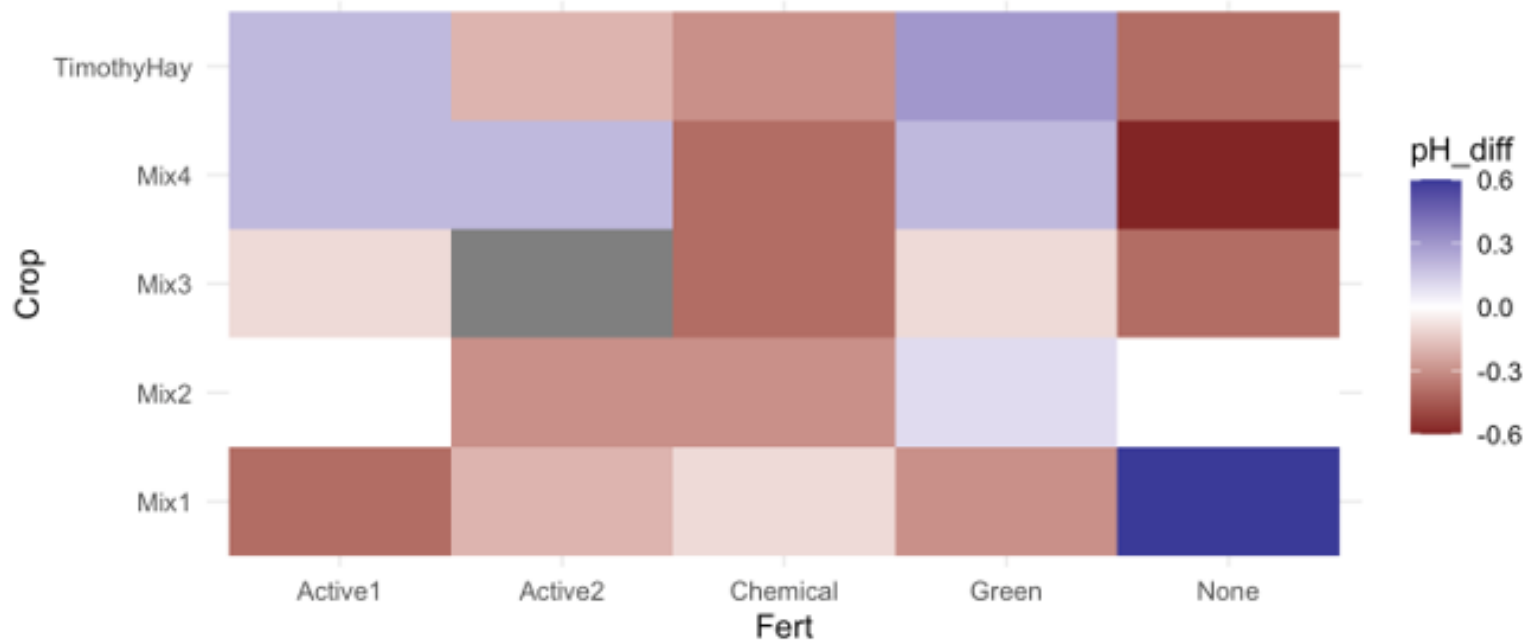












### Mix 1

Species	% in Mix by weight	Seeds/lb.	Seeds/mix	Actual % Seeds/lb.	Cost lb.	Totals
Oats	25%	15,000	3,750	11%	\$0.81	\$0.20
Barley	25%	13,000	3,250	10%	\$0.81	\$0.20
Hairy Vetch	22%	20,000	4,400	13%	\$1.35	\$0.30
Crimson Clover	3%	140,000	4,200	13%	\$2.70	\$0.08
Radish Daikon	21%	41,600	8,736	26%	\$2.03	\$0.43
Turnips	4%	220,000	8,800	27%	\$2.03	\$0.08
	100%		33,136	100%		\$1.29
<b>Rate Per Acre</b>	<b>30</b>					
Seeds per Acre	994,080					
Square Feet per Acre	43,560					
<b>Seeds per SF</b>	<b>23</b>					
Cost per lb. =	\$1.29					
Cost per 250 lbs. =	\$322.63					

### Mix 2

Species	% in Mix by weight	Seeds/lb.	Seeds/mix	Actual % Seeds/lb.	Cost lb.	Totals
Oats	35%	15,000	5,250	19%	\$0.81	\$0.28
Barley	35%	13,000	4,550	17%	\$0.81	\$0.28
Hairy Vetch	15%	20,000	3,000	11%	\$1.35	\$0.20
Crimson Clover	3%	140,000	4,200	15%	\$2.70	\$0.08
Radish Daikon	9%	41,600	3,744	14%	\$2.03	\$0.18
Turnips	3%	220,000	6,600	24%	\$2.03	\$0.06
	100%		27,344	100%		\$1.09
<b>Rate Per Acre</b>	<b>35</b>					
Seeds per Acre	957,040					
Square Feet per Acre	43,560					
<b>Seeds per SF</b>	<b>22</b>					
Cost per lb. =	\$1.09					
Cost per 250 lbs. =	\$273.53					

### Mix 3

Species 70%	% in Mix by weight	Seeds/lb.	Seeds/mix	Actual % Seeds/lb.	Cost lb.	Totals
Spring Triticale	35%	12,000	4,200	22%	\$0.81	\$0.28
Cereal rye	35%	18,000	6,300	34%	\$0.81	\$0.28
Austrian Peas	14%	4,000	560	3%	\$0.85	\$0.12
Berseem Clover	1%	400,000	4,000	21%	\$2.70	\$0.03
Collards	10%	24,000	2,400	13%	\$8.00	\$0.80
Anaconda Radish	5%	25,000	1,250	7%	\$2.03	\$0.10
	100%		18,710	100%		\$1.61
<b>Rate Per Acre</b>	<b>50</b>					
Seeds per Acre	935,500					
Square Feet per Acre	43,560					
<b>Seeds per SF</b>	<b>21</b>					
Cost per lb. =	\$1.61					
Cost per 250 lbs. =	\$403.63					

### Mix 4

Species 50%	% in Mix by weight	Seeds/lb.	Seeds/mix	Actual % Seeds/lb.	Cost lb.	Totals
Spring Triticale	25%	12,000	3,000	13%	\$0.81	\$0.20
Cereal rye	25%	18,000	4,500	20%	\$0.81	\$0.20
Austrian Peas	23%	4,000	920	4%	\$0.85	\$0.20
Berseem Clover	2%	400,000	8,000	36%	\$2.70	\$0.05
Collards	15%	24,000	3,600	16%	\$8.00	\$1.20
Anaconda Radish	10%	25,000	2,500	11%	\$2.03	\$0.20
	100%		22,520	100%		\$2.06
<b>Rate Per Acre</b>	<b>45</b>					
Seeds per Acre	1,013,400					
Square Feet per Acre	43,560					
<b>Seeds per SF</b>	<b>23</b>					
Cost per lb. =	\$2.06					
Cost per 250 lbs. =	\$514.38					

