

Yahara Pride Farms

2019 Phosphorus Reduction Report



Yahara Pride Board of Directors

May 20, 2020

Introduction

*First and foremost – Thank you to all the farmers in the Yahara Pride Watershed program for working with Yahara Pride Farms and Yahara WINS to implement practices that reduce the potential for phosphorus loss to the streams and rivers that contribute water to the Yahara Lakes. The farmers in this area continue to be supportive of Yahara Pride Farms and continue to seek alternative farming systems and conservation practices that reduce phosphorus and sediment loss. This report shows how hard each and every one of you works to keep soil and nutrients on your fields and out of our water. **Farmers are the heart and soul of the Yahara Pride Farms program and we thank you!***

Yahara Pride Farms and the farmers in the Yahara Watershed are also indebted to “The Yahara Watershed Improvement Network (Yahara WINs), led by MMSD”, which began in 2012 as a four-year pilot project to reduce phosphorus loads and meet more stringent water quality standards established by the Wisconsin Department of Natural Resources (WDNR). This groundbreaking program employs watershed adaptive management, a strategy in which all sources of phosphorus pollution in an area work together to meet water quality goals. This strategy is more effective and less expensive than the sources working separately on individual solutions. Partners in Yahara WINs include cities, villages, towns, wastewater treatment plants, agricultural producers, environmental groups and others.

Thanks also to the businesses and organizations who provide support (both financial and in-kind), to Yahara Pride Farms. It takes people and money to offer this cost share, certification and outreach and education events, and we wouldn’t be able to do it without your support. This farmer-led watershed approach has become a model for others around the state because we have been able to offer programs and events based on your support. Thank you for being an important of the Yahara Pride Farms program.

Finally, thanks to the members of the Yahara Pride Farms board of directors and all the staff who have worked with us over the past many years. Your guidance and support have shaped this program and we cannot thank you each of you enough for your time and commitment to this organization.

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Programs offered in 2019

In 2019 the Yahara Pride Farms (YPF) board of directors continued operating and implementing several agricultural conservation programs designed to reduce the loss of phosphorus within the Yahara Watershed. There were six major incentive programs offered within the watershed in 2019 and an incentive for implementing more than one practice on a field. The practices cost shared included:

1. Planting an over-wintering cover crop,
2. Planting a non-over-wintering cover crop,
3. Low disturbance deep tillage and cover crop (LDDT+CC),
4. Low Disturbance Manure Injection (LDMI),
5. Strip tillage,
6. Headland Stacking of Manure / Composting and
7. Using multiple practices on a field.

The reason that YPF offered bonus payments to farms that implemented a combination of practices on the same field (two or more practices) is that over several years of data analysis it is apparent that using more than one practice increases the benefits of each individual practice. Each of these programs offers unique benefits both from a phosphorus reduction standpoint as well as educational and confidence/trust building within the watershed.

This report provides an update on the number of acres, fields and farms involved in each of these programs. The Wisconsin Phosphorus Index (P Index) is a model that estimates the pounds of phosphorus prevented from reaching the nearest waterbody. The nearest waterbody would, in most cases, be streams and rivers. These estimates of the pounds of phosphorus prevented from reaching a waterbody can then be used (with the appropriate delivery factors) to estimate the pounds of phosphorus prevented from entering the Madison chain of Lakes.

What the data represents

This report provides the data and summary information for the 45 farms (up from 41 in 2018) that provided SNAP Plus plans to Yahara Pride Farms (YPF) for evaluation of the impact of their cost share program. In 2019, there were 5 new farms in the program and a few previous participants decided not to participate due to challenging weather conditions. There was also one farm that implemented practices but did not provide a SNAP+ file for evaluation or payment. The information provided is based on the difference in predicted phosphorus loss from the adoption of a practice such as strip tillage, low disturbance manure injection, cover crops, headland stacking of manure or combination of two. The 2019 data is based off the "SNAP+" plans provided to YPF by the farmers and/or their crop advisors.

All of the data presented in this report are derived from the individual farms nutrient management plan, which takes into account tillage, crop rotations, and nutrient applications from both manure and fertilizer, and crop yields. This is the best representation of what is actually happening on the

farms that participate in the Yahara Pride Cost Share program. Each farm and field has unique characteristics that influence yields, the tillage system and the risks for sediment and nutrient loss. That is why we see such large variation in losses within this data set.

Summary of phosphorus reductions for each cost share program:

1. Cover Crops

Table 1 shows a comparison of the number of farms, acres and phosphorus reductions achieved through the cover crop program from 2013 to 2019.

Year	2013	2014	2015	2016	2017	2018	2019
Farms	20	37	35	37	33	37	43
Fields	80	53	160	290	212	274	309
Acres	2,436	4,732	4,908	5,851	4,483	7,294	5,903
Average (lbs/acre)	0.7	0.8	1.8	1.5	1.8	2.1	2.2
Total P reduction (In pounds)	1,730	3,691	6,572	7,130	7,300	11,497	11,843

Table 1 Number of farms, acres and phosphorus reductions through the cover crop program

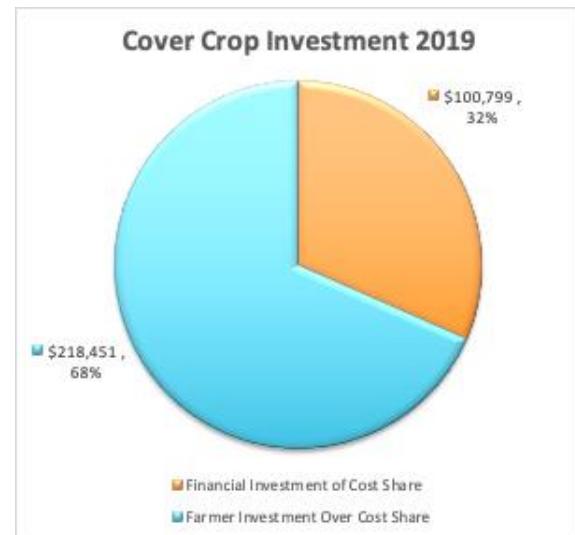
Despite challenging weather conditions, the number of farms and fields participating in the cover crop program grew in 2019, while the number of acres saw a small decrease. The following page provides a summary of all the data contained in the individual cover crop spreadsheet as well as a breakdown of the participation based on the sub-watershed.

It is important to understand that while the average reduction in the risk of phosphorus loss in 2019 was 2.2 pounds per acre, the range in reduction was from 22.2 pounds to (- 1.1)! That is correct, the impact of planting a cover crop was modeled to reduce the risk of loss by as much as 22 pounds on one field. However, there were several fields where planting a cover crop increased the risk of loss because of the impact of running a drill or other implement over the field to establish the crop. This is why it is important for farmers and crop advisors to evaluate each practice to determine if that practice reduces loss, increases loss or has no effect on the risk of loss.

2019 Phosphorus Report - Cover Crops						
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field
2019 Yahara Pride Cover Crop Cost Share Program						
Acres	5902.7		Phosphorus Reduction by sub-watershed			
			Reach	Pounds P	Acres	# Fields
Fields	309		62	698.5	392.3	22
			63	3221.2	1277.6	87
Farms	43		64	7272.7	3184.2	173
			65	3.5	17.1	1
			66	70.8	103.1	11
			69	576.1	928.4	15
				11842.8	5902.7	309
Average phosphorus reduction			2.2			
Total phosphorus reduction				11842.8		
Average Soil loss reduction					0.5	
	Cost shared acres		Total planted acres			
	1863.7		5902.7			
	Acres Planted by farmers without cost share payment			4,039		
	Financial Investment of Cost Share		Farmer investment over cost share			
			\$ 100,799		\$ 218,451	

The information contained in the table above shows the number of acres, fields and farms involved in the 2019 cover crop program. As stated previously, the challenging weather conditions made it extremely challenging to plant cover crops in the fall of 2019. The growth in acres is surprising and the farmers in this watershed are to be commended for the efforts in adopting conservation practices.

The graph provides a visual representation of the level of farmer participation compared to the cost share provided. This graph further depicts the level of financial investment funded either through cost share (32% provided by YWINS, DATCP and The Nature Conservancy) or by the farmers themselves (68%). As you can see the farmers in the Yahara Watershed are very committed to adopting conservation farming systems.



Notably, the information in the above table does not take into account the number of acres planted to a cover crop after low disturbance deep tillage. The next section of the report provides the data from the LDDT + cover crop.

2. Low disturbance deep tillage with planting of a cover crop

Table 2 shows a comparison of the **low disturbance deep tillage plus cover crop program** (LDDT), which was first offered to farmers in the watershed in 2016. Interest in this program continues to grow and the YPF board of directors feels it is important to encourage reduced tillage when conducting deep tillage.

Year	2016	2017	2018	2019
Farms	8	11	7	9
Fields	?	52	24	22
Acres	730	956	448	550
Average (lbs/acre)	1.48	2.2	2.6	1.9
Total P reduction (In pounds)	1,080	1,981	1,165	1,071

Table 2 Number of farms, acres and phosphorus reductions through the LDDT + cover crop program

Despite challenging weather conditions, the number of farms and fields cooperating in the cover crop program grew in 2019, while the number of acres saw a small decrease. The table below provides a summary of all the data contained in the individual cover crop spreadsheet as well as a breakdown of the participating based on the sub-watershed.

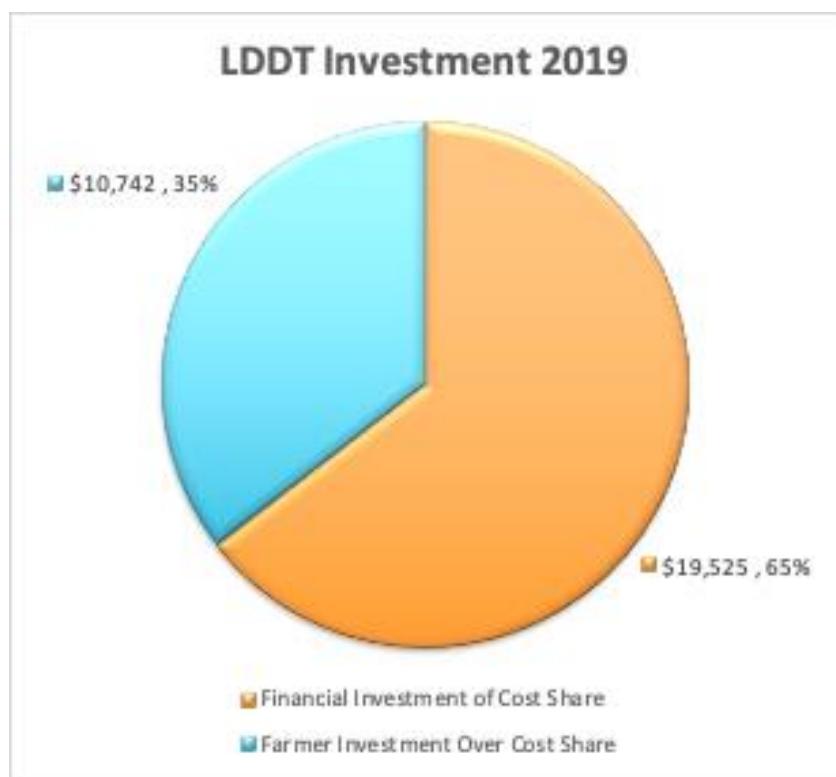
2019 Yahara Pride LDDT + CC Cost Share Program					
Acres	550.3	Phosphorus Reduction by sub-watershed			
Fields	22	Reach	Pounds P	Acres	# Fields
		62	249.7	107.5	8
		64	821.6	442.8	14
Farms	9		1071.3	550.3	22
Average phosphorus reduction			1.9		
Total phosphorus reduction				1071.3	
Average Soil loss reduction					0.4
Cost shared acres		Total planted acres			
355.0		550.3			
Acres Planted by farmers without cost share payment 195.3					
Financial Investment of Cost Share		Farmer investment over cost share			
\$ 19,525		\$ 10,741.5			

The number of acres in the LDDT + cover crop increased over 2018, but is still lower than 2017. The average in the risk of phosphorus reduction also decreased to 1.9 pounds per acre. The range was from 6.0 to (-0.4) lbs per acre.

Farmers conducted low disturbance deep tillage plus planting a cover crop on a total of 550 acres, of which 355 acres were cost shared. Again, the challenging weather conditions made it very difficult for farmers to get into the fields and conduct deep tillage during the fall of 2019.

This graph provides a visual representation of the level of financial investment funded either through cost share (65% provided by YWINS, DATCP and The Nature Conservancy) or by the farmers themselves (35%). As you can see the farmers in the Yahara Watershed are very committed to adopting conservation farming systems.

Hopefully, soil conditions are favorable in 2020 so that farmers can get into the fields to implement more practices. This practice commonly occurs in the fall after harvest.



3. Low disturbance manure injection

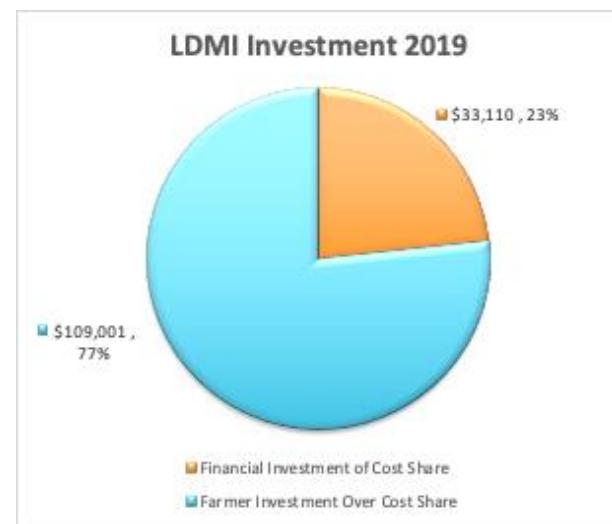
Table 3 shows a comparison of the number of farms, acres and phosphorus reductions achieved through the low disturbance manure injection program from 2013 to 2019.

Low Disturbance Manure Injection Program	2013	2014	2015	2016	2017	2018	2019
Number of farms	11	14	4	7	15	15	24
Number of fields	20	20	32	76	223	196	243
Tillable acres in program	361	841	566	1,203	3,885	3,293	4,450
Average phosphorus reduction (lbs./acre)	1.0	0.6	1.9	0.9	1.4	1.1	1.6
Total phosphorus reduction (in pounds)	357	530	1,081	1,106	6,039	3,945	7,103

Table 3 Number of farms, acres and phosphorus reductions through the LDMI program

The LDMI program saw a very good increase in the number of farms, fields and acres this year compared to previous years. This was despite challenging weather conditions in the fall and spring, which decreases the amount of time available for manure application. This table shows the impact of the investments made by farmers, Dane County and Yahara WINS and others in supporting purchasing low disturbance manure injection equipment.

This graph provides a visual representation of the level of financial investment funded either through cost share (23% provided by YWINS, DATCP and The Nature Conservancy) or by the farmers themselves (77%). As you can see the farmers in the Yahara Watershed are very committed to adopting conservation farming systems. This graph also demonstrates that investing in the conservation equipment can greatly increase the level of implementation throughout the watershed.



The data contained in the table on the following page shows the number of farms, fields and acres where LDMI was conducted in 2019. The table also shows the level of usage on a sub-watershed basis. It should not be surprising to see that the vast majority of the usage came north of the lakes in reach 64. The average reduction in the risk of phosphorus loss for LDMI was 1.6 lbs/acre with a range of 8.2 to (-0.6).

The increase in acres and the number of farms using LDMI can be attributed to the strong financial support provided by Dane County Land Conservation Department, the Yahara WINS program and by Yahara Pride Farms. Getting more equipment available in the watershed and providing farmers with firsthand experience is helping to dramatically grow the interest in LDMI.

2019 Phosphorus Report - LDMI						
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field
2019 Yahara Pride Low Disturbance Manure Cost Share Program						
Acres	4450.2		Phosphorus Reduction by sub-watershed			
			Reach	Pounds P	Acres	# Fields
Fields	243		62	136.2	88.2	7
			63	839.4	544.8	32
Farms	24		64	6098.8	3779.4	198
			66	29	37.8	6
				7103.4	4450.2	243
Average phosphorus reduction			1.6			
Total phosphorus reduction			7103.4			
Average Soil loss reduction			0.3			
			Cost shared acres		Total planted acres	
			1655.0		7103.40	
			Acres Planted by farmers without cost share payment			
			5448.4			
			Financial Investment of Cost Share		Farmer investment over cost share	
			\$ 33,110		\$ 109,001	

4. Strip Tillage

Table 4 shows a comparison of the number of farms, acres and phosphorus reductions achieved through **strip tillage program** from 2013 to 2019.

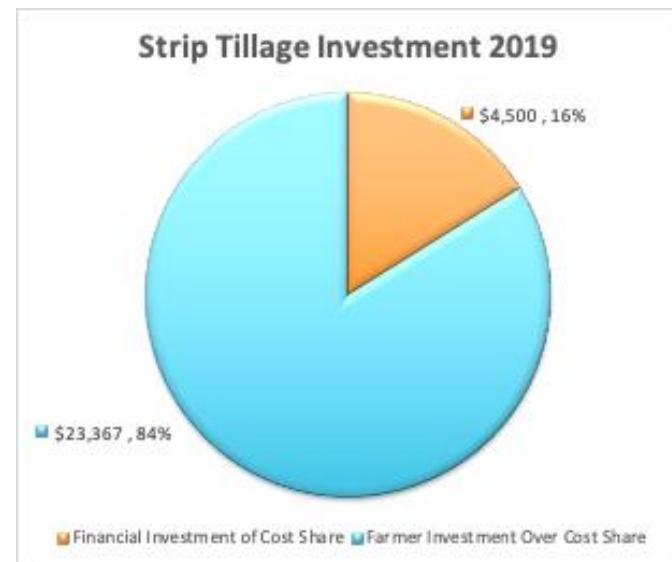
Strip Tillage Program	2013	2014	2015	2016	2017	2018	2019
Number of farms	3	3	3	3	4	3	5
Number of fields	11	15	20	21	35	39	56
Tillable acres in program	156	253	1,489	917	1,829	2,422	1,858
Average phosphorus reduction (lbs./acre)	1.4	0.9	0.8	0.9	0.8	1.3	1.7
Total phosphorus reduction (in pounds)	225	220	1,221	703	1,458	3,110	2,608

Table 4 Number of farms, acres and phosphorus reductions through strip tillage program

Strip tillage had the highest number of farms participating since the beginning of the cost share program. The reduction in acres is probably because one large cash grain operation that did not participate in the program in 2019. The average phosphorus reduction was also the highest this year compared to the previous six years. This year the strip tillage cost share program had the largest reduction in the risk of phosphorus loss in the history of the program.

The table on the following page provides a summary of the information gathered through the individual field analysis. As can be seen in the table, there were a lot more acres planted through strip tillage than the funding provided by the cost share program. Cost share provided funding for 300 acres while the farmers using strip cropping planted 1,858 acres. That means that 1,558 acres were planted without cost sharing.

The graph on the right shows the level of investment in the strip tillage program by our funding partners compare to farmers. As you can see cost share amounted to about 16% of the total investment, while farmer provided the remaining 84%. Once the investment in equipment has been made farmers can use that equipment on a larger percentage of their tillable acres. **The average reduction was 1.7 lbs/acre with a range of 6.0 to (-0.1).**



2019 Phosphorus Report - Strip Tillage						
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field

2019 Yahara Pride Strip Tillage Cost Share Program

Phosphorus Reduction by sub-watershed					
Acres	1857.8	Reach	Pounds P	Acres	# Fields
Fields	56	63	1226.2	1007.2	13
		64	541.5	462.8	24
Farms	5	69	840.4	387.8	19
			2608.1	1857.8	56
Average phosphorus reduction			1.7		
Total phosphorus reduction			2608.1		
Average Soil loss reduction					-0.6
	Cost shared acres	Total planted acres			
	300	1,857.8			
	Acres Planted by farmers without cost share payment 1,557.8				
	Financial Investment of Cost Share	Farmer investment over cost share			
		\$ 4,500			\$ 23,367

5. Manure stacking and/or composting

Table 5 shows a comparison of the reduction in the risk of phosphorus loss from **manure stacking and/or composting during the critical runoff period**. This program was first offered to farmers in the watershed in 2016. Interest in this program continues to grow and the YPF board of directors feels it is important to encourage farmers to not apply manure during high-risk periods. This practice is also one that has a significant reduction in soluble phosphorus loss.

Year	2016	2017	2018	2019
Farms	1	9	9	15
Fields	1	9	44	96
Acres	50.4	301	898	1632
Average (lbs/acre)	2.1	2.1	2.0	1.5
Total P reduction (In pounds)	106	665	1,855	2610

Table 5 Number of farms, acres and phosphorus reductions through the LDDT + cover crop program

2019 Phosphorus Report - Manure Stacking/Composting						
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field
2019 Yahara Pride Manure Stacking/Compost Cost Share Program						
Acres	1632.3		Phosphorus Reduction by sub-watershed			
Fields	96		Reach	Pounds P	Acres	# Fields
Farms	15		62	237.4	311.1	22
			63	78.2	77.1	6
			64	2283.1	1228.1	67
			66	11.2	16.0	1
				2609.9	1632.3	96
Average phosphorus reduction				1.5		
Total phosphorus reduction					2609.9	
Average Soil loss reduction						0.0

As can be seen in the table above, manure stacking/composting occurred in four of the sub-watersheds in the Yahara. There was a very large increase in the number of farms cooperating in 2019 compared to past years (15 compared to 9 and 1). This is consistent with the interest in the stacking/composting program. This is one area that has the potential for substantial growth and this program could quickly outgrow the level of funding available.

While there was a significant amount of manure composted outside the cost share program, based on the data collected through the program it is not possible at this time to do a cost share / farmer investment comparison. That said, as farmers become more comfortable with not applying manure during the high risk runoff conditions, there is an extremely high potential for this program to grow.

It is important to note that manure stacking and composting was the only practice that did not increase the risk of phosphorus loss. The average reduction in the risk of phosphorus loss in 2019 was 1.5 lbs/acre and the range was from 4.8 to 0.0 lbs/acre.

Based on data collected at the Discovery Farms and Pioneer Farms, winter runoff events that occur as a combination of increased temperatures and rainfall, along with frozen soils and deep snow cover, produces a high potential for surface runoff from fields. Livestock producers who make manure applications to cropland during this high-risk period need to understand that spreading manure during snowmelt does have an extremely high risk of runoff. Studies from farms cooperating in the Discovery Farm Program indicate that manure applied to snow covered and/or frozen soils during conditions of snowmelt or rain on frozen soils **can contribute the majority of the annual nutrient losses. One inappropriately timed manure application can generate large losses of phosphorus to surface waters.**

Yahara Pride Farms decided to provide an incentive to farmers who sometimes have to clean out lots with solid manure during this critical runoff period. The goals of this program were to reduce the risk of manure run off by:

- Offering an incentive to farmers for stacking, reloading and spreading manure during a low risk runoff period.
- The incentive payment is offered to help offset the cost of double handling manure.

Calculating the predicted reductions in phosphorus loss from headland stacking during critical runoff periods can be accomplished using the SNAP+ program by comparing the risk of a manure application in the winter (surface applied) and in the spring (incorporated). The predicted reductions in phosphorus loss are shown in appendix 5.

As shown in the table in appendix 5, stacking manure during the critical runoff period reduced the loss of phosphorus by 1.5 pounds per acre. It is also important to note that headland stacking of manure during the critical runoff period is the only practices where soluble phosphorus losses are the dominant form of phosphorus reduction.

Manure application rates were the same on each field, the only variable was whether manure was spread during the winter on frozen and/or snow covered ground or during the spring and incorporated within 72 hours. Practices that reduce losses of soluble phosphorus are of particular importance because once phosphorus is in runoff water there is little that can be done to remove it prior to reaching nearby surface water. Most conservation practices are designed to capture and slow water running off of fields so that particulate soil particles fall out of the runoff and remain in the buffers settling basins and wetlands. However, soluble phosphorus is not tied to particles and, therefore, flows with the water. Keeping soluble phosphorus out of runoff is a critical factor in reducing the overall phosphorus loads to the Madison Chain of Lakes.

6. Combining multiple practices

The incredible cooperation of the local crop advisors and farmers provided YPF with an adequate data set so that we could evaluate “How does stacking different best management practices impact the potential for phosphorus loss?” **This question was evaluated on 107 fields in 2019 and the data is contained in appendix 6.** It is important to note that not all fields had a benefit in excess of the two individual practices. **The average reduction in the risk of phosphorus loss on these fields was 1.8 lbs/acre with a range of 24.3 to (-4.1).**

To determine the impact of applying more than one best management practices, we first ran the SNAP calculation with all the practices in place. Then one practice was removed from the field and the numbers were entered into the table for that practice. Then the practice that was removed was added back to the field and the second practice was removed. Those numbers were then entered into the spreadsheet for that practice. Finally, both best management practices were removed from the field and the impact on the potential phosphorus loss was recorded. The data contained in the tables in appendix 6 compare fields with and without both practices. The numbers in the data (column AF) show the difference in the annual change in the risk of phosphorus loss with and without both practices in place.

The phosphorus reductions for these fields appear in the individual practice sections of the report (LDMI, strip tillage and cover crops) but the reductions in predicted phosphorus loss for each single practice are included in the data so that the calculations could be made. The phosphorus reductions taken at the bottom of the table is only the impact of adopting two practices above and beyond the individual practices.

In 2019, YPF provided a bonus payment for farms that combined two practices on a field (one practice was always cover crops while the second practice was either strip tillage or LDMI). On some fields there is no calculated benefit to combining practices when you take into account the individual benefits of each practice. However, there are fields where the benefit of adopting two practices was greater than the individual benefits of both practices.

Year	2018	2019
Farms		16
Fields	98	107
Acres	2,010	2,133
Average (lbs/acre) Over the total of individual practices	0.8	1.8
Total P reduction (In pounds)	1,608	4,130

In 2019, the average predicted phosphorus reduction for combining two practices was **1.8 pounds per acre**. This year's data set contained 107 fields compared to 98 in 2018. This reduction in phosphorus is over and above the phosphorus reductions for each of the two practices. The individual practice reductions are included in corresponding data sets.

The table on the following page provides the data for each of the sub-watersheds in the Yahara. There was very good participation by farmers in a number of sub-watersheds. It appears that farmers in this watershed are adopting more than one conservation practice and the benefits of using more than one practice is apparent.

2019 Phosphorus Report - Multiple Practices						
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field
2019 Yahara Pride Multiple Practices Cost Share Program						
Acres	2133.3					
Fields	107		Reach	Pounds P	Acres	# Fields
			63	380.1	255.0	18
			64	2145.3	1486	84
Farms	16		66	44	17.5	2
			69	1560.8	374.8	3
				4130.2	2133.3	107
Average phosphorus reduction from multiple practices						1.8
Total phosphorus reduction from multiple practices						4130.2

Conclusion:

The 2019 Yahara Pride Cost Share Program has engaged a large number of farmers in one or more of the six cost share programs. This report provides information on the predicted reductions in phosphorus loss by farmers adopting one or more of these practices. The report provides both a total for the entire watershed and the reductions for each of the six stream reaches that Yahara Pride Farms is working with farmers on adoption of conservation systems.

This report did not evaluate multiple year data but a closer look at the impact of farms continuing a conservation practice is desirable. Future analysis should attempt to do a better job of looking at multiple years of adoption to understand the impacts of multiple years on a field.

The headland-stacking program is the only program that has a dramatic potential reduction in soluble phosphorus loss.

Additional work should also be done to accurately reflect the cost that farmers bare in adopting these conservation systems. The cost of seed, planting, killing and impact of the cover crop on yield have not been examined. The cost of handling manure twice and hauling to an approved stacking site and then to the field also need to be considered. A report evaluating the cost to farmers for adoption should be done to accurately reflect the total cost of these programs. Protecting water quality is important to everyone and everyone needs to be part of the solution.

2019 Summary of Predicted Phosphorus Reduction

<u>Practice</u>	<u>Average P Reduction</u>	<u>Total Predicted P Reduction</u>
➤ Cover Crops	2.2	11,843 lbs
➤ LDDT + cover crop	1.9	1,071 lbs
➤ LDMI	1.6	7,103 lbs
➤ Strip Tillage	1.7	2,608 lbs
➤ Headland Stacking Manure	1.5	2,610 lbs
➤ Combined Practices	1.8	<u>4,130 lbs</u>
		Total 29,365 lbs

*Total from 2018 was 22,097 pounds.

Yahara Pride Farms

APPENDIX - 2019 Phosphorus Reduction Report



Yahara Pride Board of Directors

May 20, 2020

Appendix 1 – Cover Crops

2019 Phosphorus Report - Cover Crops												Without Cover Crop														
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss			Rotat. P	Annual P Pi	Part. Pi	Soluble Soil loss Pi	Actual Soil loss Pi	Rotat. P	Annual P Pi	Part. Pi	Soluble Soil loss Pi	Annual P change per acre	Annual P change for field	Annual Soil Loss change per acre	Vahara Stream Reach field is located				
							Soil Loss	Pi	Part. Pi																	
	1.0	9	31	PnC2	PnC2	5	0.5	1	2	1.8	0.4	0.5	1	2	1.3	0.3	0.6	0.6	0.6	0.0	0.0	0.0	64			
	1.1	1.5	89	HaA	HaA	3	1.0	1	2	1.3	0.7	0.9	1	2	1.0	0.6	0.4	0.4	0.4	0.1	0.1	0.1	63			
	1.2	9	25	PnC	PnC	5	0.4	1	1	0.9	0.2	0.1	0	0	0.1	0.2	0.8	0.8	1.0	0.3	0.3	0.3	63			
	1.3	2	89	RaA	RaA	5	1.8	4	2.8	0.8	1.6	4	3	2.2	0.7	0.7	0.7	0.7	0.9	0.2	0.2	0.2	63			
	1.3	32.5	82	RnC2	SOE	1	2.0	4	11	9.6	1.6	1.3	3	4	3.1	1.4	6.7	6.7	8.7	0.7	0.7	0.7	64			
	1.7	10	67	BaC2	SaC2	5	2.1	2	4	3.3	0.4	2.0	2	3	3.0	0.4	0.3	0.5	0.5	0.1	0.1	0.1	62			
	1.8	8	24	RnB	GwC	5	3.8	4	7	6.3	0.3	2.1	2	4	3.6	0.3	2.7	2.7	4.9	1.7	64					
	2.0	4	92	RnB	RnB	5	2.6	3	4	3.1	0.9	2.5	3	3	2.4	0.8	0.8	1.6	1.6	0.1	0.1	0.1	64			
	2.6	16	160	MdD2	MdD2	5	4.4	6	14	12.3	1.7	2.8	5	9	7.3	1.5	5.2	13.5	1.6	1.6	1.6	1.6	64			
	2.7	14	24	PnC	Edd2	1	0.2	0	0	0.1	0.2	0.2	0	0	0.2	0.2	-0.1	-0.3	0.0	0.0	0.0	0.0	63			
	2.9	9	34	BaC2	BaC2	3	0.1	0	0	0.1	0.2	0.2	0	0	0.1	0.3	-0.1	-0.3	-0.1	-0.1	0.1	0.1	63			
	2.9	4	177	RoB	RoB	2	3.6	4	7	4.5	2.5	2.2	3	3	1.0	1.7	4.3	12.5	1.4	1.4	1.4	1.4	64			
	3.0	4	55	BbB	BbB	4	2.1	3	6	5.3	0.4	1.7	2	3	2.6	0.3	2.8	8.4	0.4	0.4	0.4	0.4	63			
	3.1	12	15	BaC2	Edd2	1	0.2	0	1	0.2	0.4	0.2	0	1	0.1	0.4	0.1	0.3	0.3	0.0	0.0	0.0	0.0	63		
	3.2	4	150	Mc	BbB	4	3.4	7	6	4.8	1.5	3.0	6	5	3.2	1.3	1.8	5.8	0.4	0.4	0.4	0.4	63			
	3.2	4	33	TbB	PnB	5	3.3	5	7	6.3	0.3	2.3	3	3	3.0	0.2	3.4	10.9	1.0	1.0	1.0	1.0	64			
	3.3	9	36	RnC2	RnC2	5	1.6	2	2.2	0.2	1.5	2	2	2.1	0.2	0.1	0.3	0.1	0.1	0.1	0.1	0.1	64			
	3.3	9	7	PnC2	RnC2	5	1.6	2	2.1	0.2	1.5	2	2	2.1	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.1	64			
	3.6	9	122	KdC2	KdC2	5	1.0	2	2	1.1	0.5	0.4	1	1	0.2	0.6	0.8	2.9	0.6	0.6	0.6	0.6	65			
	3.9	22	52	KrF2	KrF2	5	3.8	4	3.7	0.3	3.7	4	3	2.9	0.2	0.9	3.5	0.1	0.1	0.1	0.1	63				
	4.0	16	56	MdC2	KdD2	5	3.4	3	5	4.3	0.4	3.0	3	3	2.6	0.3	1.8	7.2	0.4	0.4	0.4	0.4	63			
	4.0	9	54	PnB	GwC	5	2.1	3	5	4.2	0.8	2.0	3	4	3.3	0.7	1.0	4.0	0.1	0.1	0.1	0.1	64			
	4.0	9	54	PnB	GwC	5	2.1	3	5	4.2	0.8	2.0	3	4	3.3	0.7	1.0	4.0	0.1	0.1	0.1	0.1	64			
	4.0	9	21	RnC2	RnC2	5	1.6	2	3	2.4	0.2	1.4	2	2	2.2	0.3	0.1	0.4	0.2	0.2	0.2	0.2	64			
	4.0	4	76	DnB	DnB	5	3.7	6	12	9.0	2.5	3.3	5	6	4.3	2.0	5.2	20.8	0.4	0.4	0.4	0.4	64			
	4.0	4	120	SbB	SbB	5	0.4	1	2	0.9	1.1	0.1	1	1	0.0	0.6	1.4	5.6	0.3	0.3	0.3	0.3	66			
	4.0	9	139	MdC2	MdC2	5	2.6	4	5	3.9	1.2	1.6	3	1	0.3	0.9	3.9	15.6	1.0	1.0	1.0	1.0	66			
	4.0	3	102	SbB	SbB	5	0.1	0.4	0.5	0.2	0.3	0.2	0.6	0.7	0.3	0.4	-0.2	-0.8	-0.1	-0.1	-0.1	66				
	4.1	16	55	MdC2	KdD2	5	2.2	2	3	3.0	0.3	1.5	2	2	1.8	0.3	1.2	4.9	0.7	0.7	0.7	0.7	63			
	4.2	16	21	PnC2	Gwd2	4	1.3	2	3	2.9	0.6	1.3	2	3	2.5	0.5	0.5	2.1	0.0	0.0	0.0	0.0	64			
	4.3	16	21	MdD2	MdD2	5	6.6	8	20	19.9	0.6	4.9	6	10	9.4	0.5	10.6	45.6	1.7	1.7	1.7	1.7	63			
	4.3	9	68	BbC2	BbC2	4	1.4	2	1.1	1.0	1.3	2	2	0.7	0.9	0.5	2.2	0.1	0.1	0.1	0.1	64				
	4.3	4	73	PnB	PnB	4	4.6	9	11	9.7	1.5	4.5	9	11	9.3	1.5	0.4	1.7	0.1	0.1	0.1	0.1	64			
	4.4	13	107	MdD2	MdD2	5	4.3	8	6	5.5	0.6	3.6	6	6	5.0	0.6	0.5	2.2	0.7	0.7	0.7	0.7	63			
	4.4	4	139	EfB	RnB	5	2.9	5	7	5.9	1.0	2.7	4	5	4.6	0.9	1.4	6.2	0.2	0.2	0.2	0.2	64			
	4.6	16	41	KrF2	KrF2	5	2.5	3	2.4	0.2	2.5	3	2	1.9	0.2	0.5	2.3	0.0	0.0	0.0	0.0	63				
	4.8	9	60	MdC2	MdC2	5	4.0	7	13	11.6	1.0	3.6	6	10	9.6	0.9	2.1	10.1	0.4	0.4	0.4	0.4	62			
	4.8	4	310	BbB	BbB	4	4.0	9	13	10.3	2.5	3.3	7	9	6.3	2.9	3.6	17.3	0.7	0.7	0.7	0.7	64			
	4.8	4	215	DsB	DsB	3	1.3	1	3	0.8	2.0	1.1	1	2	0.5	1.7	0.6	2.9	0.2	0.2	0.2	0.2	64			
	5.0	4	13	1180B2	1180B2	1	0.1	0	0.1	0.4	0.1	0	0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63			
	5.0	4	35	GwB	PnB	5	4.0	6	10	9.0	1.3	3.9	6	10	8.5	1.3	0.5	2.5	0.1	0.1	0.1	0.1	64			
	5.6	9	17	BaC2	BaC2	3	0.1	0	1	0.1	0.4	0.2	0	1	0.1	0.4	0.0	0.0	0.0	0.1	0.1	0.1	63			
	5.6	9	65	DnB	DnC2	5	3.5	5	4.4	0.7	3.1	5	5	4.3	0.9	-0.1	-0.6	0.4	0.4	0.4	0.4	64				
	5.7	9	74	DnC2	DnC2	5	3.6	6	8	7.4	1.1	3.0	5	5	2.6	0.7	5.2	29.6	0.6	0.6	0.6	0.6	64			
	5.7	7	37	EdD2	EdD2	1	5.0	5	10	8.9	1.4	3.5	3	8	6.3	1.3	2.7	15.4	1.5	1.5	1.5	1.5	64			

2019 Phosphorus Report - Cover Crops												Without Cover Crop				With Cover Crop							
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. P	Annual P I	Part. PI	Soluble Soil Loss	Actual Soil Loss	Rotat. P	Annual P I	Part. PI	Soluble Soil Loss	Annual P change per acre	Annual P change for field	Annual Soil Loss change per acre	Vahara Stream Reach field is located			
	5.7	9	537	Os	PnC2	5	6.0	32	42	36.6	5.8	3.6	22	20	13.7	6.5	22.2	126.5	2.4	63			
	5.9	2	161	BbB	BbB	4	2.6	7	9	7.8	1.2	2.4	6	8	6.5	1.0	1.5	8.9	0.2	63			
	5.9	9	30	BbB	BbC2	4	2.2	3	3	1.6	1.3	2.1	3	2	1.1	1.2	0.6	3.5	0.1	64			
	5.9	9	89	KbB2	KcC2	5	4.7	6	11	9.9	1.0	1.1	2	2	1.8	0.6	8.5	50.2	3.6	69			
	6.0	16	46	RnC2	MdD2	5	4.8	6	13	13.0	0.3	3.4	4	6	5.9	0.3	7.1	42.6	1.4	63			
	6.1	2	30	TbB	TbB	5	1.2	1	2	2.1	0.2	1.1	1	1	0.9	0.2	1.2	7.3	0.1	63			
	6.3	1	91	BbA	BbA	4	2	2	2	1.5	0.7	0.9	2	1	0.9	0.5	0.8	5.0	0.1	63			
	6.4	9	63	SpB	SpC	5	1.8	2	1	1.0	0.0	1.8	2	1	0.9	0.0	0.1	0.6	0.0	62			
	6.4	4	84	PnB	PnB	5	2.3	5	10	8.2	2.1	1.8	4	5	3.9	1.5	4.9	31.4	0.5	64			
	6.5	16	83	DnD2	DnD2	3	2.3	3	9	8.2	0.6	2.0	3	7	6.0	0.6	2.2	14.3	0.3	63			
	6.5	9	42	Wrc2	Wrc2	3	2.7	3	6	5.6	0.3	1.7	3	1	1.1	0.2	4.6	29.9	1.0	64			
	6.6	4	86	Wa	RnB	5	3.7	4	4	3.9	0.6	3.5	4	3	2.9	0.5	1.1	7.3	0.2	64			
	6.6	15	GwD2	GwD2	4	4.2	4	7	7.0	0.1	3.4	3	3	2.7	0.0	4.4	29.0	0.8	64				
	6.7	15	50	EdD2	EdD2	1	0.2	1	1	0.1	0.4	0.2	1	1	0.2	0.4	-0.1	-0.7	0.0	63			
	6.9	4	31	PnB	PnB	5	3.8	6	7	6.5	0.3	3.5	5	5	4.5	0.2	2.1	14.5	0.3	63			
	7.0	4	81	PnB	WfB	3	3.7	7	10	7.3	2.8	2.5	5	7	5.2	2.0	2.9	20.3	1.2	64			
	7.2	4	30	PnB	PnB	5	1.3	1	3	2.7	0.1	1.0	1	1	1.4	0.1	1.3	9.4	0.3	63			
	7.3	4	119	PnB	PnB	5	1.9	5	8	6.5	1.5	1.7	4	6	4.7	1.3	2.0	14.6	0.2	64			
	7.4	9	96	RnC2	RnC2	5	5.1	9	15	13.2	2.3	4.8	9	11	9.2	1.9	4.4	32.6	0.3	63			
	7.4	1	69	Ho	Ho	5	0.8	1	2	0.8	1.0	0.6	2	1	0.6	0.9	0.3	2.2	0.2	64			
	7.4	9	199	PnB	RnC2	5	3.8	9	11	8.1	2.6	2.3	6	5	3.2	2.2	5.3	39.2	1.5	63			
	7.5	16	37	GfD2	GfD2	5	4.7	4	4	4.1	0.2	0.8	1	1	0.4	0.2	3.7	27.8	3.9	64			
	7.5	9	63	KdC2	KdC2	5	1.4	2	2	1.6	0.5	0.9	1	1	0.1	0.3	1.7	12.8	0.5	66			
	7.6	9	86	PnC2	PnC2	5	1.9	4	7	5.5	1.0	1.7	4	4	3.1	0.8	2.6	19.8	0.2	64			
	7.9	4	29	PnB	PnB	5	2.7	3	5	4.7	0.6	2.1	2	2	1.4	0.1	3.8	30.0	0.6	63			
	8.0	1	220	SaA	SaA	5	0.9	5	6	2.9	3.5	0.8	5	4	1.6	2.8	2.0	16.0	0.1	63			
	8.0	4	177	WfB	WfB	3	3.0	6	8	6.6	1.3	2.5	5	6	4.9	1.4	1.6	12.8	0.5	64			
	8.1	16	18	SmD2	DmD2	5	2.9	3	6	6.0	0.1	2.7	3	6	5.4	0.1	0.6	4.9	0.2	62			
	8.1	9	20	Hub	DpC	2	0.8	1	2	1.1	0.7	0.8	1	1	0.4	0.2	1.2	9.7	0.0	63			
	8.2	9	29	DnB	DnC2	5	2.8	4	7	5.1	1.9	2.9	4	8	5.8	1.1	0.1	0.8	-0.1	64			
	8.3	9	161	BoB	BoC2	3	1.4	2	2	1.3	1.0	1.1	2	1	0.9	0.4	3.3	0.3	64				
	8.4	9	153	WrC2	WrC2	3	2.4	3	4	2.8	1.6	2.5	3	5	3.0	1.6	-0.2	-1.7	-0.1	64			
	8.4	15	65	Wa	VwA	4	1.3	3	4	2.8	1.3	1.1	3	1	0.6	0.8	2.7	22.7	0.2	64			
	8.4	4	53	VwA	BBB	4	1.0	2	2	1.1	0.9	2	2	0.8	0.7	0.5	4.2	0.1	64				
	8.7	9	64	RnC2	RnC2	5	2.1	3	4	3.6	0.4	1.9	3	3	2.7	0.3	1.0	8.7	0.2	63			
	9.0	7	147	KdC2	KdC2	5	2.9	3	5	3.4	1.1	2.7	3	3	2.0	0.9	1.6	14.4	0.2	63			
	9.0	16	74	TfB	DnD2	3	4.1	5	9	8.2	0.6	3.3	4	4	3.3	0.4	5.1	45.9	0.8	64			
	9.1	15	55	RnC2	GwD2	4	0.7	1	2	1.6	0.2	0.7	1	1	1.3	0.2	0.3	2.7	0.0	64			
	9.1	4	140	GsB	GsB	5	3.2	8	12	9.8	1.8	3.2	8	9	7.5	1.4	2.7	24.6	0.0	64			
	9.2	15	118	KdD2	KfD2	5	1.7	4	4	2.6	0.9	1.5	3	2	1.4	0.8	1.3	12.0	0.2	62			
	9.5	4	104	RnB	PnB	5	4.7	2	3	1.8	1.1	4.4	2	2	1.3	1.0	0.6	5.7	0.3	64			
	9.5	9	54	PnB	MdC2	5	3.7	3	7	6.6	0.4	2.5	2	2	2.0	0.3	4.7	44.7	1.2	64			

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Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss			Rotat. P	Annual P I	Part. PI	Soluble Soil Loss	Actual Soil Loss	Rotat. P	Annual P I	Part. PI	Soluble Soil Loss	Annual P change per acre	Annual P change for field	Annual Soil Loss change per acre	Yahara Stream Reach field is located				
							Soil Loss	P	I																	
9.5	15	18	PnB	GwD2	4	3.7	3	2.6	0.0	3.6	3	2	2.1	0.0	0.5	4.8	0.1	64								
9.7	10	60	Rd2	Rd2	2	1.6	3	4	2.7	1.0	1.5	2	1.5	0.8	1.4	13.6	0.1	64								
9.8	9	63	R&A	DnC2	5	3.2	3	5	4.9	0.5	2.4	3	2.1	0.4	2.9	28.4	0.8	64								
9.9	4	56	PnB	PnB	5	2.5	3	5	4.2	0.4	2.2	3	2.0	0.3	2.3	22.8	0.3	64								
10.0	4	71	PnB	PwB	5	1.7	3	5	4.4	1.1	1.7	3	4	3.6	0.8	1.1	11.0	0.0	63							
10.0	9	63	MdC2	MdC2	5	2.5	4	8	7.1	0.7	3	6	5.2	0.5	2.1	21.0	0.8	63								
10.0	2	92	PnB	PnB	5	1.4	3	2.2	1.2	1.3	3	2	1.9	0.9	0.6	6.0	0.1	64								
10.0	4	100	PnB	PnB	5	4.4	6	9	8.5	0.6	2.8	5	5	4.3	0.5	4.3	43.0	1.6	64							
10.0	4	66	TnB	DnB	5	2.0	4	7	4.8	2.3	1.7	3	4	2.2	1.8	3.1	31.0	0.3	64							
10.0	9	150	DnC2	DnC2	5	0.7	2	3	2.2	1.2	0.2	1	1	0.2	0.7	2.5	25.0	0.5	66							
10.0	9	173	MdC2	MdC2	5	0.3	0.9	1.2	0.6	0.6	0.5	1.3	1.9	1.2	0.7	-0.7	-7.0	-0.2	66							
10.0	8	86	GwC	GwC	5	3.4	4	6	5.2	0.7	3.0	4	5	4.8	0.5	0.6	6.0	0.4	64							
10.0	4	86	RnB	RnB	5	4.4	6	8	7.0	0.8	2.3	3	4	3.3	0.6	3.9	39.0	2.1	64							
10.1	9	24	PnC2	PnC2	5	3.4	4	8	7.8	0.1	3.0	3	6	5.6	0.1	2.2	22.2	0.4	63							
10.2	4	51	BnB	BnB	4	2.6	3	5	4.4	0.4	2.2	2	2	1.8	0.3	2.7	27.5	0.4	63							
10.3	4	94	PnB	PnB	5	2.5	5	6	5.4	0.5	2.1	4	5	4.2	0.6	1.1	11.3	0.4	64							
10.3	9	141	PnB	DnC2	5	5.3	13	25	22.0	2.8	3.7	9	13	10.1	3.4	11.3	116.4	1.6	63							
10.6	9	42	BnB	DsC2	3	2.5	3	6	6.1	0.2	2.2	2	5	4.4	0.2	1.7	18.0	0.3	63							
10.6	4	45	PoB	PoB	4	1.8	2	4	3.5	0.4	1.1	2	1	0.7	0.9	2.3	24.4	0.7	64							
10.6	4	29	PnB	PnB	5	1.9	2	4	4.1	0.2	0.5	1	2	1.3	0.3	2.7	28.6	1.4	69							
10.7	4	82	BnB	BnB	4	2.9	4	8	7.5	0.4	2.6	4	6	5.6	0.4	1.9	20.3	0.3	63							
10.7	9	38	KdD2	KdD2	5	2.0	2	3	2.4	0.2	1.6	1	1	1.2	0.1	1.3	13.9	0.4	63							
10.7	9	26	KdC2	KdC2	5	1.9	1	2	2.2	0.1	1.6	1	1	1.3	0.1	0.9	9.6	0.3	63							
10.8	9	79	TnB	DnC2	5	0.6	3	3	1.4	1.5	0.4	2	2	0.6	1.2	1.1	11.9	0.2	62							
11.0	4	97	EdB2	EdB2	1	2.0	4	8	5.4	2.7	1.6	4	5	2.9	2.1	3.1	34.1	0.4	64							
11.0	4	58	PnB	PnB	4	4.3	8	13	9.6	3.0	3.9	7	10	7.6	2.0	3.0	33.0	0.4	64							
11.0	9	122	KdC2	KdC2	5	0.6	1	1	0.7	0.7	0.9	2	2	1.2	0.7	-0.5	-5.5	-0.3	66							
11.0	9	61	MdC2	MdC2	5	0.5	1	1	0.9	0.3	0.8	1	2	1.6	0.3	-0.7	-7.7	-0.3	66							
11.1	9	46	BnB	DsC2	3	1.5	2	3	2.2	1.2	1.4	2	2	1.2	1.0	1.2	13.3	0.1	62							
11.1	9	35	KdC2	KdC2	5	4.7	4	4	3.6	0.3	4.4	4	2	2.1	0.2	1.6	17.8	0.3	63							
11.1	16	20	PnC2	LaD2	5	4.2	1	1	1.0	0.1	0.7	1	0	0.1	0.1	0.9	10.0	3.5	64							
11.3	4	136	EgA	BnB	4	2.2	7	14	12.1	2.3	1.8	8	5.7	1.8	6.9	78.0	0.4	64								
11.4	21	14	RoD2	RoD2	2	2.4	2	5	4.8	0.1	0.8	1	1	1.2	0.1	3.6	41.0	1.6	64							
11.6	9	101	DnB	MdC2	5	2.8	5	10	8.4	1.5	2.3	4	6	4.2	1.5	4.2	48.7	0.5	64							
12.3	8	49	KdD2	KdD2	5	1.8	2	2.2	0.3	1.6	2	2	2.0	0.3	0.9	10.4	0.4	64								
12.3	4	32	KdC2	KdC2	5	1.9	2	1.5	0.2	1.7	2	1	0.9	0.2	0.6	7.4	0.2	63								
12.4	9	19	DnB	MdC2	5	4.9	6	8	7.9	0.6	4.6	5	5	5.1	0.4	3.0	37.2	0.3	64							
12.6	9	78	TnB	DsC2	3	2.8	3	6	5.6	0.5	2.8	3	3	3.1	0.2	0.3	3.6	0.1	62							
12.6	4	166	PaB	WnB	3	3.1	7	11	8.5	2.2	2.4	6	6	4.1	1.7	4.9	61.7	0.7	64							
13.2	9	58	RoC2	RoC2	2	1.4	2	5	4.2	0.4	1.1	1	3	2.5	0.4	1.7	22.4	0.3	64							
13.3	8	53	TnB	GwC	5	1.6	3	4	2.9	1.5	1.5	3	3	2.2	1.3	0.9	12.0	0.1	64							

2019 Phosphorus Report - Cover Crops												Without Cover Crop				With Cover Crop							
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. P	Annual P I	Part. PI	Soluble Soil Loss	Actual Soil Loss	Rotat. P	Annual P I	Part. PI	Soluble Soil Loss	Annual P change per acre	Annual P change for field	Annual Soil Loss change per acre	Vahara Stream Reach field is located			
	13.4	9	80	BbB	Dsc2	3	3.3	5	7	6.0	0.6	3.0	5	5	4.5	0.5	1.6	21.4	0.3	63			
	13.5	9	32	RnC2	RnC2	5	2.0	3	4	4.0	0.4	2.1	3	5	5.1	0.4	-1.1	-14.9	-0.1	64			
	13.5	9	80	KeB	Dsc2	3	2.8	4	11	9.9	1.4	2.2	3	6	4.8	1.1	5.4	72.9	0.6	64			
	13.6	9	16	BaC2	BaC2	3	0.1	0	0.1	0.4	0.2	0	1	0.1	0.4	0.0	0.0	-0.1	63				
	13.6	9	47	DnC2	DnC2	5	1.8	3	4	3.2	0.3	1.6	3	2	1.5	0.3	1.7	23.1	0.2	64			
	13.6	4	188	EgA	PoB	4	2.8	6	12	9.7	2.3	5	6	4.5	1.8	5.7	77.5	0.4	64				
	13.6	9	64	RoC2	RoC2	2	1.5	2	5	4.6	0.6	1.1	2	3	2.4	0.4	2.4	32.6	0.4	64			
	13.7	1.5	129	ReA	EgA	4	1.8	5	5	2.6	1.9	1.7	5	4	1.9	1.7	0.9	12.3	0.1	63			
	13.7	9	42	RoC2	RnC2	5	1.6	2	2	1.8	0.5	1.6	2	2	1.9	0.4	0.0	0.0	0.0	64			
	13.9	4	166	TbB	KeB	3	2.2	5	11	8.7	2.2	1.9	4	6	4.4	1.9	4.6	63.9	0.3	64			
	14.0	9	98	PnC2	PnC2	5	2.6	4	7	6.0	1.3	2.3	4	4	3.3	1.0	3.0	42.0	0.3	64			
	14.0	2.5	60	EIB	EIB	5	1.1	2	3	1.7	0.9	1.0	2	2	0.9	0.8	0.9	12.6	0.1	64			
	14.0	15	48	DnB	GwD2	4	3.4	3	4	3.2	0.3	2.8	2	1	1.0	0.2	2.3	32.2	0.6	64			
	14.1	9	185	WrC2	WrC2	3	2.7	6	13	10.6	2.0	2.5	6	10	8.2	1.9	2.5	35.3	0.2	64			
	14.1	8	43	GwC	GwC	5	1.6	3	4	3.1	1.3	1.4	3	3	1.6	1.0	1.8	25.4	0.2	64			
	14.3	9	53	RnC2	RnC2	5	3.8	3	3	3.0	0.2	3.0	2	2	1.6	0.2	1.4	20.0	0.8	63			
	14.3	10	90	GwC	RnC2	5	2.9	4	8	7.9	0.6	1.8	2	7	6.3	0.4	1.8	25.7	1.1	64			
	14.4	9	30	MdC2	DnC2	5	3.9	4	10	7.8	2.0	3.5	4	6	4.4	1.5	3.9	56.2	0.4	62			
	14.4	9	39	McC2	McC2	5	3.8	2	5	4.4	0.1	3.1	2	2	2.2	0.1	2.2	31.7	0.7	63			
	14.4	9	52	McC2	McC2	5	4.6	4	6	5.6	0.3	4.0	3	3	3.2	0.2	2.5	36.0	0.6	63			
	14.5	9	43	McC2	McC2	5	2.2	2	6	5.3	0.2	1.7	2	3	3.2	0.2	2.1	30.5	0.5	63			
	14.5	10	57	DnC2	Scc2	5	4.3	4	7	7.1	0.3	3.4	4	3	3.0	0.3	4.1	59.5	0.9	64			
	14.5	4	25	DnB	DnB	5	3.0	5	10	8.5	1.9	2.4	4	5	4.0	1.4	5.0	72.5	0.6	64			
	14.5	16	24	GwB	Edd2	1	5.7	6	6	5.2	0.5	5.7	6	6	5.0	0.5	0.2	2.9	0.0	64			
	14.7	9	47	McD2	McD2	5	5.3	4	6	5.8	0.2	4.5	4	3	3.2	0.2	2.6	38.2	0.8	63			
	14.7	4	65	PnB	PnB	5	0.8	1	2	1.7	0.5	0.6	1	1	0.8	0.4	1.0	14.7	0.2	64			
	14.7	8	28	GwC	GwC	5	1.3	2	3	2.3	0.3	1.0	2	2	2.1	0.2	0.3	4.4	0.3	64			
	15.0	8	73	GwC	GwC	5	1.0	1	1	0.5	0.4	1.0	1	1	0.7	0.4	-0.2	-3.0	0.0	64			
	15.0	8	48	GwC	GwC	5	1.1	2	1	1.3	0.3	1.0	1	1	1.1	0.2	0.3	4.5	0.1	64			
	15.0	4	51	PnB	PnB	5	4.3	5	5	4.4	0.5	3.6	4	3	2.3	0.6	2.0	30.0	0.7	64			
	15.1	9	76	PoB	PoC2	3	2.9	2	3	2.9	0.4	2.7	2	3	2.4	0.4	0.5	7.6	0.2	63			
	15.1	9	35	RoB	RoC2	2	1.2	2	3	2.5	0.3	1.1	2	3	2.5	0.4	-0.1	-1.5	0.1	64			
	15.1	8	32	RoB	GwC	5	0.8	1	2	1.7	0.3	0.8	1	2	1.7	0.3	0.0	0.0	0.0	64			
	15.4	9	27	KeB2	KeC2	5	4.7	4	7	6.5	0.4	1.1	1	1	1.2	0.2	5.5	84.7	3.6	69			
	16.0	9	154	DnD2	DnD2	3	2.8	5	8	6.0	1.6	2.5	5	5	3.6	1.3	2.7	43.2	0.3	63			
	16.0	1	136	SaA	SaA	5	0.3	4	4	1.1	2.9	0.2	3	3	0.7	2.4	0.9	14.4	0.1	64			
	16.0	4	240	ScB	ScB	5	0.5	2	4	2.0	1.8	0.1	1	1	0.1	1.0	2.7	43.2	0.4	66			
	16.1	1.5	69	RaA	RaA	5	1.0	4	5	2.5	2.0	0.7	3	4	1.8	1.9	0.8	12.9	0.3	64			
	16.2	4	106	DkB	DkB	3	1.0	2	1	0.9	0.4	0.9	2	1	0.8	0.4	0.1	1.6	0.1	62			
	16.2	16	60	EoA	CaD2	2	2.7	2	6	5.9	0.3	1.6	2	2	1.6	0.2	4.4	71.3	1.1	69			

2019 Phosphorus Report - Cover Crops												Without Cover Crop															
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss			Rotat. P	Annual P I	Part. PI	Soluble Soil Loss	Actual Soil Loss	Rotat. P	Annual P I	Part. PI	Soluble Soil Loss	Annual P change per acre	Annual P change for field	Annual Soil Loss change per acre	Yahara Stream Reach field is located					
							Soil Loss	P	I																		
16.3	9	142	RnC2	RnC2	5	5.4	10	15	11.6	3.1	4.5	8	11	8.2	3.0	3.5	57.1	0.9	63								
16.3	9	152	RnC2	RnC2	5	6.0	16	18	15.6	2.7	3.6	10	8	5.8	2.3	10.2	37.5	3.3	63								
16.4	9	22	PnB	GwC	5	1.8	1	1	1.1	0.1	1.4	1	1	1.0	0.1	0.1	1.6	0.4	64								
16.5	82	HaA	HaA	3	1.9	3	4	3.3	0.9	1.8	3	3	2.1	0.9	1.2	19.9	0.1	63									
16.6	9	35	RnC2	RnC2	5	3.4	4	8	7.8	0.3	2.6	3	4	3.6	0.2	4.3	71.4	0.8	64								
16.6	9	31	DsC2	DsC2	3	2.8	3	5	5.0	0.3	2.3	2	3	2.4	0.2	2.7	44.8	0.5	64								
16.8	16	29	DsC2	1180D2	1	5.5	7	25	23.7	1.3	1.8	3	5	4.2	0.9	19.9	334.3	3.7	62								
16.8	4	81	BbB	WfB	3	1.4	3	2.8	0.5	1.3	3	3	2.1	0.5	0.7	11.8	0.1	63									
17.0	16	68	WxC2	1180D2	1	2.0	3	14	12.8	0.8	1.5	3	8	7.3	0.8	5.5	93.5	0.5	64								
17.1	9	82	RbA	DsC2	3	2.9	5	6	5.9	0.6	2.6	5	5	4.3	0.5	1.7	29.1	0.3	63								
17.1	9	68	RnC2	RnC2	5	1.4	3	8	5.6	2.3	1.2	2	4	2.6	1.7	3.6	61.6	0.2	64								
17.1	9	18	RnB	RnC2	5	2.2	2	5	5.1	0.1	1.8	2	3	3.2	0.1	1.9	32.5	0.4	64								
17.2	9	84	RnB	RnC2	5	2.8	4	6	4.9	0.6	2.1	3	3	2.5	0.6	2.4	41.3	0.7	64								
17.4	16	35	PtC	EdD2	1	0.2	0	0	0.2	0.3	0.2	1	0	0.2	0.3	0.0	0.0	0.0	0.0	63							
17.4	28	44	KtE2	KtE2	5	5.2	6	12	11.2	0.6	4.4	5	6	6.0	0.4	5.4	94.0	0.8	64								
17.7	8	165	PnB	GwC	5	2.0	3	5	3.8	0.8	2.5	4	4	2.5	1.2	0.9	15.9	-0.5	62								
17.7	9	60	TfB	MdC2	5	4.2	5	9	8.0	0.8	4.1	5	8	6.9	0.6	1.3	23.0	0.1	63								
17.7	8	92	PnB	GwC	5	1.9	2	3	1.9	0.6	1.7	2	2	1.7	0.6	0.2	3.5	0.2	65								
17.8	8	52	PnB	GwC	5	2.5	3	4	3.8	0.4	2.0	2	2	1.7	0.3	2.2	39.2	0.5	64								
17.9	9	72	SpB	DkC	3	2.1	2	1	0.0	1.9	2	1	1.0	0.0	0.3	5.4	0.2	62									
18.1	8	14	GwB	GwC	5	1.1	1	2	2.2	0.2	0.8	1	2	1.5	0.4	0.5	9.1	0.3	64								
18.2	4	68	RnB	RnB	5	1.9	4	9	6.9	1.6	1.5	3	5	3.3	1.3	3.9	71.0	0.4	64								
18.8	4	48	PnB	PnB	5	1.9	2	2	2.2	0.2	1.6	2	1	1.2	0.2	1.0	18.8	0.3	64								
18.9	9	56	PoB	DsC2	3	2.3	3	6	5.7	0.2	1.1	2	1	0.6	0.3	5.0	94.5	1.2	62								
18.9	14	22	KtF2	KtF2	5	2.4	2	1	1.5	0.0	2.4	2	1	1.3	0.0	0.2	3.8	0.0	63								
18.9	9	13	PtA	GwC	5	3.1	4	8	6.7	1.5	2.3	3	4	3.4	1.0	3.8	71.8	0.8	64								
19.1	9	45	PtA	GwC	5	3.1	5	10	7.9	1.8	2.3	4	5	4.0	1.3	4.4	84.0	0.8	64								
19.3	19	20	KdD2	KdD2	5	3.7	4	4	3.5	0.1	3.7	4	3	3.2	0.1	0.3	5.8	0.0	63								
19.4	4	246	EgA	BfB	4	4.8	18	22	18.1	4.4	3.0	12	11	7.0	3.9	11.6	225.0	1.8	63								
19.5	8	84	PnB	GwC	5	2.8	2	2	1.6	0.4	2.5	2	2	1.6	0.4	0.0	0.0	0.3	64								
19.7	9	69	PnB	PnC2	5	5.5	2	1	0.4	4.7	2	1	0.9	0.3	0.8	15.8	0.8	64									
19.9	2	173	BbB	BfB	4	2.7	8	10	8.5	1.4	2.5	7	8	7.1	1.1	1.7	33.8	0.2	63								
20.0	4	57	PoB	PoB	4	2.3	3	3	2.9	0.2	1.7	2	2	1.7	0.2	1.2	24.0	0.6	64								
20.0	9	94	WfC2	WfC2	3	3.0	5	12	10.8	1.5	1.8	3	5	4.4	1.1	6.8	136.0	1.2	64								
20.2	8	14	PnB	GwC	5	2.8	3	5	4.7	0.2	2.5	2	4	3.8	0.2	0.9	18.2	0.3	64								
20.3	4	56	RnB	PnB	5	2.8	4	6	6.0	0.4	2.6	3	5	4.5	0.3	1.6	32.5	0.2	64								
20.3	9	77	DsC2	DsC2	3	2.5	4	10	9.0	1.2	1.6	3	3	2.5	1.0	6.7	136.0	0.9	64								
20.6	1	94	Wa	Wa	5	1.3	2	3	1.1	1.5	1.0	2	2	0.7	1.3	0.6	12.4	0.3	64								
21.4	9	46	DnC2	DnC2	5	4.9	3	4	3.7	0.4	4.9	3	5	4.3	0.2	-0.4	-8.6	0.0	63								
21.4	15	20	WrB	GwD2	4	4.1	5	6	6.0	0.3	3.9	5	7	6.2	0.5	-0.4	-8.6	0.2	64								
21.4	8	32	PnB	GwC	5	1.8	2	5	4.2	0.7	1.5	2	3	2.2	0.7	2.0	42.8	0.3	64								
21.8	9	63	AsC2	AsC2	3	1.0	2	1	0.3	0.4	1.0	2	1	0.4	0.4	-0.1	-2.2	0.0	63								
22.0	4	153	SeB	ScB	5	0.2	1	1.2	0.5	0.7	0.4	1.3	1.8	1.0	0.8	-0.6	-13.2	-0.2	66								
22.1	4	118	PoB	BlB	4	3.4	6	9	7.3	1.8	3.0	6	5	3.8	1.3	4.0	88.4	0.4	64								

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Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. P/I	Annual P/I	Part. P/I	Soluble Soil Loss	Actual Soil Loss	Rotat. P/I	Annual P/I	Part. P/I	Soluble Soil Loss	Annual P change per acre	Annual P change for field	Annual Soil Loss change per acre	Yahara Stream Reach field is located						
	22.1	4	65	RnB	PhB	5	3.4	6	7	5.6	1.0	3.3	5	6	4.7	0.8	1.1	24.3	0.1	0.1	64					
	22.5	4	84	TrB	PoB	4	1.2	2	3	2.7	0.6	1.1	2	2	1.6	0.5	1.2	27.0	0.1	0.1	64					
	22.5	9	38	RnB	RoC2	2	2.0	2	3	2.8	0.3	1.9	2	3	2.5	0.3	0.3	6.8	0.1	0.1	64					
	22.5	1.5	130	RaA	RaA	5	2.8	7	8	5.6	2.1	2.7	7	6	4.4	2.0	1.3	29.3	0.1	0.1	64					
	22.5	16	104	DnC2	MdD2	5	8.9	2	2	1.7	0.8	4.8	2	2	1.0	0.7	0.8	18.0	4.1	4.1	64					
	22.6	2.5	84	EIB	EIB	5	1.2	3	3	2.0	1.2	1.1	3	2	1.0	0.8	1.4	31.6	0.1	0.1	64					
	22.8	16	18	PIC	EdD2	1	0.2	0	1	0.5	0.2	1	1	0.3	0.5	-0.1	-0.1	0.0	0.0	0.0	0.0	63				
	23.2	16	37	MdD2	MdD2	5	2.5	3	6	5.3	0.3	2.4	2	5	4.9	0.3	0.4	9.3	0.1	0.1	62					
	23.4	4	49	PnB	PhB	5	2.3	2	5	4.7	0.3	1.9	2	3	2.9	0.3	1.8	42.1	0.4	0.4	64					
	23.5	2	167	KeB	KeB	3	2.9	2	2	1.2	1.1	2.1	2	2	0.7	1.1	0.5	11.8	0.8	0.8	64					
	24.0	4	68	PnB	PhB	5	3.5	4	6	5.2	0.6	3.0	4	4	3.2	0.5	2.1	50.4	0.5	0.5	64					
	24.0	9	42	RnB	RnC2	5	2.8	3	6	5.0	1.1	2.7	3	5	3.7	1.0	1.4	33.6	0.1	0.1	64					
	24.1	15	45	GwB	GwD2	4	1.7	2	3	2.7	0.3	2.1	2	3	2.5	0.2	0.3	7.2	-0.4	0.4	64					
	24.7	2	151	TrB	TrB	5	2.4	6	9	5.7	3.4	2.2	5	5	2.3	2.5	4.3	106.5	0.2	0.2	64					
	24.8	9	123	PnB	EdC2	1	2.9	4	6	4.1	1.5	2.8	4	5	4.0	1.3	0.3	7.4	0.1	0.1	64					
	24.8	4	24	SaB	SaB	5	2.9	3	2	2.3	0.1	2.8	3	2	2.1	0.1	0.2	5.0	0.1	0.1	69					
	25.0	7	81	BbB	BbB	4	4.3	6	14	13.6	0.9	2.6	4	7	6.2	0.7	7.6	190.0	1.7	1.7	63					
	25.2	9	100	GwC	RnC2	5	2.5	4	6	4.7	1.3	2.2	3	4	2.4	1.2	2.4	60.5	0.3	0.3	64					
	25.7	4	34	KcB	KcB	5	1.1	1	1.0	0.3	0.9	1	1	0.8	0.2	0.3	7.7	0.2	0.2	62						
	25.8	9	38	PoB	PnC2	5	2.6	2	4	3.4	0.2	1.9	2	1	0.9	0.1	2.6	67.1	0.7	0.7	64					
	26.5	1	135	PnA	PnA	5	1.6	5	3.4	1.5	1.5	5	4	2.6	1.4	0.9	23.9	0.1	0.1	64						
	26.6	9	24	DnC2	WxC2	2	2.8	4	7	5.5	1.3	1.2	2	2	1.4	1.1	4.3	114.4	1.6	1.6	64					
	26.7	4	148	PoB	DsB	3	0.7	2	4	2.7	1.1	0.5	1	1	0.7	0.8	2.3	61.4	0.2	0.2	64					
	26.7	1	47	Wa	Wa	5	0.1	2	3	0.1	2.8	0.1	2	3	0.1	2.6	0.2	5.3	0.0	0.0	64					
	26.8	9	65	VwA	BbC2	4	5.3	6	12	10.7	0.9	4.4	5	5	4.7	0.7	6.2	166.2	0.9	0.9	64					
	27.0	4	86	FgA	PhB	5	2.0	3	5	4.3	0.7	1.6	3	2	1.6	0.5	2.9	78.3	0.4	0.4	64					
	27.2	4	8	PnB	PhB	5	2.1	4	6	5.7	0.7	1.7	3	3	2.9	0.5	3.0	81.6	0.4	0.4	64					
	27.2	4	11	SaB	KeB2	5	3.3	4	6	4.5	1.1	3.2	4	5	4.0	1.0	0.6	16.3	0.1	0.1	69					
	27.6	4	94	BbB	WfB	3	2.8	6	9	7.2	2.1	2.5	5	5	3.6	1.5	4.2	115.9	0.3	0.3	64					
	27.8	9	70	PnB	RnC2	5	2.3	4	7	5.2	1.8	1.8	3	3	1.8	1.4	3.8	105.6	0.5	0.5	64					
	27.8	4	87	PnB	HuB	5	1.3	3	3	1.3	1.8	1.2	2	2	0.7	1.6	0.8	22.2	0.1	0.1	64					
	27.9	9	22	BbB	MdC2	5	2.7	3	6	5.9	0.5	2.1	3	3	2.2	0.5	3.7	103.2	0.6	0.6	64					
	28.1	9	70	PnB	RnC2	5	2.4	3	5	3.3	1.5	2.1	3	3	1.7	1.3	1.8	50.6	0.3	0.3	64					
	28.1	9	65	BbB	BoC2	3	2.6	2	3	1.3	2.3	2	2	0.9	1.1	0.6	16.9	0.3	0.3	64						
	28.8	4	235	KeB	KeB	3	3.8	9	15	12.0	2.8	2.1	5	6	4.1	2.2	8.5	244.8	1.7	1.7	63					
	28.8	4	101	PnB	PhB	5	4.2	12	14	11.1	2.7	2.5	8	7	4.0	2.9	6.9	198.7	1.7	1.7	63					
	29.6	8	46	RnB	GwC	5	1.5	2	3	2.6	0.7	1.4	2	3	2.3	0.6	0.4	11.8	0.1	0.1	63					
	29.8	2	170	SaA	TrB	5	2.2	8	9	6.7	2.5	1.4	6	5	2.7	2.8	3.7	110.3	0.8	0.8	63					
	30.0	16	52	PtC	EdD2	1	0.2	1	0.2	0.4	0.2	1	1	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	63				
	30.6	4	63	RnB	PnB	4	1.3	2	4	3.7	0.6	1.0	1	1	0.9	0.5	2.9	88.7	0.3	0.3	64					
	30.7	4	17	RnB2	SaB	5	2.2	2	5	4.9	0.2	0.6	1	2	1.6	0.3	3.2	98.2	1.6	1.6	69					
	30.7	9	207	PnB	RnC2	5	4.9	14	18.0	14.6	3.4	1.5	6	6	3.2	2.4	12.4	73.7	1.5	1.5	63					
	30.8	4	140	PoB	PoB	4	3.7	7	11	9.7	1.4	3.5	7	9	8.0	1.1	2.0	61.6	0.2	0.2	63					
	31.1	1	82	Os	Os	5	0.5	2	2	0.9	1.0	0.4	2	1	0.5	0.9	0.5	15.6	0.1	0.1	64					
	31.2	2	71	TrB	TrB	5	0.6	2	5	2.7	2.3	0.5	2	3	1.3	1.7	2.0	62.4	0.1	0.1	64					

2019 Phosphorus Report - Cover Crops																				
Without Cover Crop										With Cover Crop										
Field	Acres	Slope	Soil Test P ppm	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. P	Annual P	Part. P	Soluble P	Actual Soil Loss	Rotat. P	Annual P	Part. P	Soluble P	Annual P change per acre	Annual P change for field	Annual Soil Loss change per acre	Yahara Stream Reach field is located
32.3	9	20	DsC2	DsC2	3	3.3	3	4	3.7	0.4	3.1	3	3	2.6	0.3	1.2	38.8	0.2	64	
32.5	9	49	GwC	RnC2	5	1.2	2	3	2.3	0.8	1.0	1	2	0.8	0.7	1.6	52.0	0.2	64	
32.8	9	20	BbB	DnC2	5	1.7	3	4	1.8	1.9	1.6	3	3	1.3	1.5	0.9	29.5	0.1	64	
33.5	9	16	SaB	RtC2	5	0.4	0	0	0.4	0.1	0.3	0	0	0.1	0.1	0.3	10.1	0.1	69	
33.6	9	21	DnB	KdC2	5	2.8	3	2.3	0.4	2.6	3	2	2.1	0.4	0.2	6.7	0.2	64		
34.0																	2.0	68.0		
35.3	4	44	PnB	PnB	5	1.1	2	2	1.8	0.4	0.9	1	1	1.0	0.3	0.9	31.8	0.2	64	
35.6	16	11	KdD2	KdD2	5	3.9	3	4	3.9	0.3	4.6	3	3	2.9	0.1	1.2	42.7	-0.7	64	
36.4	4	104	Wt	SpB	5	1.0	1	1	0.8	0.2	0.9	1	1	0.7	0.1	0.2	7.3	0.1	62	
36.9	12	93	DsC2	DsC2	5	3.9	5	10	9.4	0.9	3.4	5	6	5.4	0.7	4.2	155.0	0.5	63	
37.0	15	82	RnC2	GwD2	4	1.7	2	3	2.1	0.6	1.2	2	1	0.7	0.5	1.5	55.5	0.5	64	
37.3	9	47	PnB	RnC2	5	1.0	2	5	3.7	1.1	0.7	1	3	1.9	0.9	2.0	74.6	0.3	62	
37.4	16	59	ScB2	WaD2	2	2.1	1	3	1.5	1.3	1.9	1	3	1.4	1.3	0.1	3.7	0.2	64	
37.5	9	49	GwC	MdC2	5	3.7	4	7	6.8	0.5	0.9	1	2	1.2	0.4	5.7	213.8	2.8	64	
39.0	9	109	RnC2	RnC2	5	1.4	4	6	3.5	2.0	1.3	3	3	1.7	1.6	2.2	85.8	0.1	64	
39.6	9	131	PnB	RnC2	5	3.8	10	13	9.5	3.1	2.3	7	6	3.7	2.7	6.2	245.5	1.5	63	
39.7	4	117	HaA	DsB	3	1.5	2	2	0.5	1.3	1.2	1	2	0.3	1.2	0.3	11.9	0.3	64	
40.8	9	25	KdC2	KdC2	5	1.5	2	3	2.4	0.4	1.5	2	2	2.0	0.4	0.4	16.3	0.0	64	
41.2	8	60	SpC	SpC	5	2.7	1	1	0.8	0.0	2.5	1	1	0.5	0.0	0.3	12.4	0.2	62	
41.5	4	88	PnB	PnB	5	3.0	5	9	8.7	0.7	2.8	5	7	6.5	0.6	2.3	95.5	0.2	64	
42.0	1	101	Mc	Mc	3	0.4	2	2	0.6	1.2	0.4	2	2	0.4	1.2	0.2	8.4	0.0	62	
42.3	4	49	PnB	PnB	5	3.0	4	5	4.6	0.8	2.3	3	2	1.7	0.6	3.1	131.1	0.7	64	
43.0	4	81	PnB	PnB	5	1.8	4	9	6.7	2.1	1.5	3	5	3.4	1.5	3.9	167.7	0.3	64	
44.1	5	99	ScB	ScB	5	2.4	3	5	4.6	0.8	2.0	3	3	2.1	0.5	2.8	123.5	0.4	63	
49.0	16	31	PtC	BaD2	3	1.9	3	2	1.7	0.5	1.9	3	2	1.6	0.5	0.1	4.9	0.0	63	
54.0	9	55	RnC2	RnC2	5	2.3	3	5	4.8	0.4	1.8	2	2	1.6	0.6	3.0	162.0	0.5	64	
54.0	9	25	DnB	RnC2	5	3.0	4	10	8.9	0.8	2.8	4	6	5.5	0.8	3.4	183.6	0.2	64	
55.2	4	38	BbA	BbB	4	3.1	4	7	6.4	0.7	2.3	3	5	4.6	0.4	2.1	115.9	0.8	64	
57.8	4	16	KeB2	SbB	4	0.2	0	0	0.2	0.1	0.2	0	0	0.1	0.1	0.1	5.8	0.0	69	
58.5	4	49	BbB	BbB	4	3.5	5	7	6.7	0.7	3.3	4	5	3.9	0.6	2.9	169.7	0.2	64	
60.1	8	39	RoB	EoB2	1	6.2	6	12	11.3	0.7	2.9	3	4	3.4	0.7	7.9	474.8	3.3	64	
79.5	4	40	PnB	PnB	5	1.5	2	5	4.5	0.5	1.1	2	2	1.4	0.5	3.1	246.5	0.4	64	
90.1	4	39	PtA	RnB2	5	0.2	0	0	0.2	0.2	0.2	0	0	0.1	0.2	0.1	9.0	0.0	69	
104.3	1	39	PmA	PmA	4	0.4	0	1	0.3	0.2	0.4	0	0	0.1	0.2	0.2	20.9	0.0	69	
115.0	4	22	PmA	PmB	4	0.2	0	0	0.3	0.2	0.2	0	0	0.1	0.1	0.3	34.5	0.0	69	
120.4	4	20	SbB	SbB	4	0.2	0	1	0.4	0.2	0.2	0	0	0.2	0.2	0.2	24.1	0.0	69	
121.0	4	18	PtA	KeB2	5	0.3	0	0	0.3	0.1	0.3	0	0	0.1	0.2	0.2	24.2	0.0	69	
134.1	9	45	GaC2	GaC2	3	2.7	3	4	3.4	0.4	2.2	3	2	1.9	0.4	1.5	201.2	0.5	63	
155.5	9	19	DsC2	DsC2	3	0.3	1	1	0.7	0.3	0.3	0	0	0.2	0.2	0.6	93.3	0.0	69	

2019 Phosphorus Report - Cover Crops										Without Cover Crop										With Cover Crop	
Field	Acres	Slope	Soil Test-P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. PI	Annual PI	Part. PI	Soluble PI	Actual Soil Loss	Rotat. PI	Annual PI	Part. PI	Soluble PI	Annual P change per acre	Annual P change for field	Annual Soil Loss change per acre	Yahara Stream Reach field is located	
2019 Yahara Pride Cover Crop Cost Share Program																					
Acres																					
5902.7																					
Phosphorus Reduction by sub-watershed																					
Reach																					
Fields																					
309																					
Reach																					
Reach																					
Average phosphorus reduction																					
2.2																					
Total phosphorus reduction																					
11842.8																					
Average Soil loss reduction																					
0.5																					
Maximum P reduction																					
22.2																					
Minimum P reduction																					
-1.1																					
Average phosphorus reduction																					
2.2																					
Total phosphorus reduction																					
11842.8																					
Average Soil loss reduction																					
0.5																					
Cost shared acres																					
1863.7																					
Acres planted by farmers without cost share payment																					
4,039																					
Financial Farmer Investment of investment over cost share																					
\$100,799																					
\$218,451																					

Appendix 2 – LDDT + CC

2019 Phosphorus Report - LDDT+CC											Without LDDT+CC				WITH LDDT+CC													
Field	Acres	Slope	Sol Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. PI	Annual PI	Part. PI	Soluble Soil Loss	Actual PI	Rotat. PI	Annual PI	Part. PI	Soluble PI	Annual P change per acre	Annual P change for field	Change in actual soil loss located	Yahara Stream Reach Field is located								
	6.6	4	45	PrB	ScB	5	1.0	1	2	1.5	0.3	2.0	2	2	1.8	0.4	-0.4	-2.5	-1.0	64								
	10.5	16	16	MdD2	MdD2	5	5.2	6	14	13.1	1.0	4.8	5	13	11.8	0.9	1.4	14.7	0.4	62								
	11.0	4	13	VnA	BbB	4	2.3	3	6	4.6	1.5	2.1	3	5	3.9	1.3	0.9	9.9	0.2	62								
	11.9	16	21	KtD2	MdD2	5	4.8	6	21	20.0	0.7	4.2	5	15	14.1	0.6	6.0	71.4	0.6	62								
	12.5	9	27	ScB	MdC2	5	5.5	6	11	10.4	0.7	4.7	5	8	7.4	0.7	3.0	37.8	0.8	62								
	13.3	16	15	MtC2	MdD2	5	6.4	7	15	13.7	1.3	4.2	4	10	9.0	0.8	5.2	69.2	2.2	62								
	13.4	9	80	BbB	DsC2	3	3.3	5	7	6.0	0.6	3.0	5	5	4.5	0.5	1.6	21.4	0.3	64								
	13.7	1.5	129	RnA	EgA	4	1.8	5	5	2.6	1.9	1.7	5	4	1.9	1.7	0.9	12.3	0.1	64								
	14.5	16	36	MdD2	MdD2	5	3.7	4	5	4.5	0.8	3.4	4	4	3.4	0.8	1.1	16.1	0.3	62								
	15.0	9	48	PrB	RnC2	5	3.8	5	8	6.6	1.5	3.7	5	7	5.7	1.1	1.3	19.5	0.1	62								
	18.6	9	58	RnC2	RnC2	5	3.7	5	8	7.2	0.5	3.4	5	7	6.6	0.5	0.6	11.2	0.3	62								
	20.0	9	54	PrB	GwC	5	2.1	3	5	4.2	0.8	2.0	3	4	3.3	0.7	1.0	20.0	0.1	64								
	20.0	9	54	PrB	GwC	5	2.1	3	5	4.2	0.8	2.0	3	4	3.3	0.7	1.0	20.0	0.1	64								
	22.5	1.5	130	RnA	RnA	5	2.8	7	8	5.6	2.1	2.7	7	6	4.4	2.0	1.3	29.3	0.1	64								
	22.5	4	22	PrB	PrB	5	0.9	1	2	1.5	0.2	1.7	3	2	1.8	0.3	-0.4	-9.0	-0.8	64								
	26.5	1	125	PrA	PrA	5	1.6	5	5	3.4	1.5	5	4	2.6	1.4	0.9	23.9	0.1	64									
	32.4	9	25	PrB	WkC2	2	2.2	3	4	3.4	0.4	0.2	0	0	0.1	0.2	3.5	113.4	2.0	64								
	40.8	16	26	GtB2	RtD2	5	2.6	3	4	4.1	0.3	1.2	1	1	1.2	0.2	3.0	122.4	1.4	64								
	41.5	4	88	PrB	PrB	5	3.0	5	9	8.7	0.7	2.8	5	7	6.5	0.6	2.3	95.5	0.2	64								
	43.0	4	81	PrB	PrB	5	1.8	4	9	6.7	2.1	1.5	3	5	3.4	1.5	3.9	167.7	0.3	64								
	58.0	4	105	PrB	PrB	5	2.7	4	7	5.3	1.4	2.5	4	5	3.9	1.2	1.6	92.8	0.2	64								
	81.9	4	140	RnA	DsB	3	2.7	2	3	1.1	1.5	1.4	1	1	0.3	0.9	1.4	114.7	1.3	64								
2019 Yahara Pride LDDT + CC Cost Share Program																												
Acres											Phosphorus Reduction by sub-watershed				Average phosphorus reduction				1.9									
Fields		Reach	Pounds P	Acres	# Fields	Total phosphorus reduction											1071.3				0.4							
Farms		64	821.6	107.5	8	Average Soil Loss reduction											0.4				0.4							
Average phosphorus reduction											Maximum P reduction				6.0				6.0									
Total phosphorus reduction											Minimum P reduction				-0.4				-0.4									
Cost shared acres		Total planted acres		Acres Planted by Farmers without cost share payment											355.0				550.3									
Financial Investment of Cost Share		Farmer investment over cost share		Acres Planted by Farmers without cost share payment											\$ 19,525				\$ 10,741.5									

Appendix 3 – LDMI

2019 Phosphorus Report - LDVI																				
Without LDVI															With LDVI					
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Loss for the field	Tolerable Soil Loss	Actual Soil Loss	Rotat. P _I	Annual P _I	Part. P _I	Soluble Soil Loss	Actual Soil Loss	Rotat. P _I	Annual P _I	Part. P _I	Soluble Soil Loss	Annual P change per acre (lbs)	Annual P change for field in lbs	Change in actual soil loss per acre (lbs)	Yahara Stream Reach fields located
1.1	16	133	DsB	BoD2	3	2.8	4	6	5.0	0.5	2.7	3	4	3.3	0.6	1.6	1.8	0.1	64	
1.3	32.5	82	RnC2	SoE	1	3.6	7	11	9.4	1.3	1.3	3	3	2.0	1.3	7.4	9.6	2.3	64	
3.0	4	55	BbB	BbB	4	1.8	3	4	4.6	0.5	1.7	2	4	3.3	0.5	1.3	3.9	0.1	63	
3.0	3	188	VrB	VrB	5	0.7	3	4	2.3	2.0	0.2	2	3	0.4	2.1	1.8	5.4	0.5	66	
3.2	9	23	MCC2	MCC2	5	0.6	1	1	0.6	0.1	0.1	0	0	0.1	0.1	0.5	1.6	0.5	66	
3.5	4	28	RnB	RnB	5	1.7	3	5	4.3	0.3	1.6	2	3	2.9	0.4	1.3	4.6	0.1	63	
4.1	16	55	MaC2	KdD2	5	1.9	2	2	1.9	0.5	1.5	2	1	0.4	0.4	1.6	6.6	0.4	63	
4.1	9	36	DnC2	DnC2	5	4.7	5	3	2.4	0.5	4.7	5	2	2.1	0.3	0.5	2.1	0.0	64	
4.1	4	76	DnB	DnB	5	3.3	6	6	4.7	1.7	3.3	5	4	3.2	0.9	2.3	9.4	0.0	64	
4.4	16	13	MhD2	SmD2	5	5.1	5	4	3.4	0.3	4.4	4	1	1.1	0.1	2.5	11.0	0.7	64	
4.6	9	26	DsC2	DsC2	3	1.6	2	2	1.8	0.5	1.5	1	2	1.3	0.4	0.6	2.8	0.1	64	
4.8	4	310	BbB	BbB	4	3.6	8	5	3.3	1.8	3.3	7	6	2.9	2.8	-0.6	-2.9	0.3	64	
4.9	2	94	TrB	TrB	5	1.0	3	3	2.0	1.0	0.9	2	2	1.2	0.7	1.1	5.4	0.1	64	
5.0	8	44	GwC	GwC	5	0.9	2	2	1.3	0.4	0.8	2	1	0.8	0.3	0.6	3.0	0.1	64	
5.1	15	11	GwD2	GwD2	4	2.3	4	4	3.2	0.5	2.3	4	3	2.6	0.1	1.0	5.1	0.0	64	
5.1	9	34	PnB	PnC2	5	2.8	4	3	2.3	0.6	2.8	4	2	1.5	0.2	1.2	6.1	0.0	64	
5.2	16	31	DrD2	DrD2	3	0.8	1	2	1.8	0.3	0.7	1	1	0.9	0.1	1.1	5.7	0.1	64	
5.7	9	74	DnC2	DnC2	5	3.8	6	12	10.5	1.1	3.0	5	3	2.7	0.7	8.2	46.7	0.8	64	
5.9	16	101	TrB	MaD2	5	4.0	4	4	3.3	0.5	0.7	1	1	0.4	0.4	3.0	17.7	3.3	64	
6.0	9	75	KdC2	KdC2	5	2.5	3	4	3.6	0.4	1.3	2	2	1.1	0.4	2.5	15.0	1.2	66	
6.3	16	17	ScC2	1180D2	1	5.9	5	3	2.2	0.4	4.8	4	1	0.9	0.1	1.6	10.1	1.1	62	
6.4	4	84	PnB	PnB	5	1.9	4	7	5.7	1.0	1.8	4	5	4.3	0.8	1.6	10.2	0.1	64	
6.5	16	83	DrD2	DrD2	3	3.1	4	10	9.4	0.7	2.0	3	3	2.9	0.5	6.7	43.6	1.1	63	
6.5	9	42	WrC2	WrC2	3	2.0	2	3	2.8	0.4	1.7	3	2	1.5	0.2	1.5	9.8	0.3	64	
6.5	16	56	PnC2	KdD2	5	3.2	3	3	2.4	0.9	3.5	3	3	2.4	0.2	0.7	4.6	-0.3	64	
6.7	4	55	BbB	BbB	4	2.7	4	5	4.6	0.4	2.4	3	2	1.6	0.4	3.0	20.1	0.3	63	
6.7	4	86	PnB	PnB	5	1.7	2	2	1.7	0.6	1.6	2	2	1.1	0.5	0.7	4.7	0.1	64	
6.7	9	76	PnB	RnC2	5	2.5	3	2	1.6	0.7	2.4	3	2	1.2	0.6	0.5	3.4	0.1	64	
6.9	4	31	PnB	PnB	5	4.0	6	7	7.0	0.3	3.5	5	5	4.5	0.2	2.6	17.9	0.5	63	
7.0	4	39	PnB	PnB	5	0.9	2	2	1.2	0.4	0.9	2	1	1.1	0.2	0.3	2.1	0.0	64	
7.2	9	47	SeB	BoC2	3	1.8	2	3	2.5	0.3	1.7	1	2	1.7	0.1	1.0	7.2	0.1	64	
7.3	4	119	PnB	PnB	5	1.7	4	6	4.6	1.2	1.7	4	5	4.1	1.2	0.5	3.7	0.0	64	
7.5	16	38	PnC2	EdD2	1	1.8	2	11	10.4	0.7	0.8	1	4	3.9	0.4	6.8	51.0	1.0	63	
7.5	9	63	KdC2	KdC2	5	1.4	2	1	0.3	0.2	0.9	1	1	0.1	0.3	0.1	0.8	0.5	66	
7.7	9	53	PnB	RnC2	5	1.6	2	2	1.7	0.5	1.5	2	2	1.4	0.4	3.1	0.1	64		
7.7	9	34	PnC2	PnC2	5	1.7	3	2	2.1	0.4	1.6	3	1	1.1	0.2	1.2	9.2	0.1	64	
8.0	9	30	OnB	PnC2	5	2.3	3	7	6.5	0.4	1.6	2	2	1.6	0.2	5.1	40.8	0.7	64	
8.1	9	26	PoB	PoC2	4	3.3	4	3	2.5	0.2	3.2	4	1	1.3	0.1	1.3	10.5	0.1	63	
8.1	9	122	KdC2	KdC2	5	0.9	2	1	0.7	0.5	0.4	1	1	0.2	0.4	3.2	0.5	66		

2019 Phosphorus Report - LDVI																					
Without LDVI																		With LDVI			
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. P	Annual P	Part. P	Soluble P	Actual Soil Loss	Rotat. P	Annual P	Part. P	Soluble P	Annual P change per acre (lbs)	Annual P change for field in lbs	Change in actual soil loss per acre (lbs)	Yahara Stream Reach fields located	
	8.2	4	27	PnB	PnB	5	1.9	2	2	2.0	0.3	1.9	2	1	1.2	0.2	0.9	7.4	0.0	0.0	63
	8.3	9	50	PnC2	DNC2	5	4.8	5	15	13.8	1.0	4.2	4	9	8.5	0.6	5.7	47.3	0.6	64	
	8.4	2	65	Wa	VWa	4	1.1	3	5	2.5	2.9	1.1	3	5	2.4	2.3	0.7	5.9	0.0	0.0	64
	8.4	15	59	PnC2	KrD2	5	3.0	3	2	1.8	0.3	2.9	2	1	1.1	0.2	0.8	6.7	0.1	64	
	8.4	9	22	WxB	WxC2	2	2.1	3	6	5.2	0.9	2.1	2	4	3.5	0.3	2.3	19.3	0.0	64	
	8.6	9	67	PnC2	PnC2	5	3.3	3	3	2.5	0.3	3.2	3	2	1.6	0.3	0.9	7.7	0.1	64	
	8.7	9	64	RnC2	RnC2	5	2.6	3	6	5.7	0.4	1.9	3	2	1.2	0.4	4.5	39.2	0.7	63	
	8.9	4	24	PnB	PnB	5	2.3	3	5	4.9	0.5	1.9	3	2	1.8	0.5	3.1	27.5	0.4	64	
	8.9	16	233	BbB	DrD2	3	2.0	5	6	4.0	1.6	1.8	5	4	2.6	1.8	1.2	10.7	0.2	64	
	9.1	15	55	RnC2	GwD2	4	1.6	2	3	2.5	0.6	0.7	1	1	0.3	0.5	2.3	20.9	0.9	64	
	9.1	16	47	DrD2	DrD2	3	4.0	5	13	12.5	0.9	4.0	4	10	9.1	0.4	3.9	35.5	0.0	64	
	9.1	4	140	GsB	GsB	5	3.6	9	16	12.8	2.8	3.2	8	8	6.1	2.0	7.5	68.3	0.4	64	
	9.2	16	101	Scc2	MmD2	5	4.0	4	4	3.3	0.5	0.7	1	1	0.4	0.4	3.0	27.6	3.3	64	
	9.2	9	99	RnC2	RnC2	5	1.4	2	3	1.8	0.9	1.4	2	2	1.5	0.5	0.7	6.4	0.0	64	
	9.4	9	100	PoC2	BoC2	3	2.3	3	4	3.1	1.1	2.3	3	3	2.3	0.8	1.1	10.3	0.0	62	
	9.5	4	104	RnB	PtB	5	4.6	2	3	1.9	1.6	4.4	2	3	1.6	1.5	0.4	3.8	0.2	64	
	9.5	9	54	PnB	MaC2	5	2.8	3	2	2.1	0.4	2.5	2	2	1.3	0.3	0.9	8.6	0.3	64	
	9.5	16	57	PnB	MdD2	5	4.5	4	7	6.8	0.4	3.1	3	2	1.6	0.4	5.2	49.4	1.4	64	
	9.6	9	44	RnC2	PnC2	5	2.5	3	2	1.7	0.3	2.5	3	2	1.4	0.1	0.5	4.8	0.0	64	
	9.7	16	37	MhD2	MhD2	3	2.1	2	2	1.7	0.4	0.7	1	1	0.4	0.2	1.5	14.6	1.4	64	
	9.9	1	138	Ev	Ev	5	1.2	6	7	4.7	2.2	0.9	5	5	2.4	2.3	2.2	21.8	0.3	64	
	9.9	4	56	PnB	PnB	5	2.3	3	3	2.8	0.6	2.2	3	2	1.8	0.5	1.1	10.9	0.1	64	
	10.0	2	92	PnB	PnB	5	1.4	3	3	2.0	1.1	1.3	3	2	1.4	0.9	0.8	8.0	0.1	64	
	10.0	9	63	RaA	DNC2	5	2.7	3	3	2.1	0.6	2.4	3	2	1.3	0.5	0.9	9.0	0.3	64	
	10.0	9	150	DnC2	DnC2	5	0.5	1	1	0.6	0.6	0.2	1	1	0.2	0.7	0.3	3.0	0.3	66	
	10.1	9	24	PnC2	PnC2	5	3.8	4	7	6.8	0.3	3.0	3	2	2.1	0.2	4.8	48.5	0.8	63	
	10.3	16	38	ScD2	EdD2	1	0.8	1	3	2	0.7	0.4	1.0	1	0.4	0.3	2.0	20.6	0.4	64	
	10.3	4	66	TrB	DnB	5	1.8	4	4	2.5	1.5	1.7	3	2	1.6	0.7	1.7	17.5	0.1	64	
	10.6	9	42	RbB	Dsc2	3	2.4	3	5	5.0	0.4	2.2	2	3	3.2	0.3	1.9	20.1	0.2	63	
	10.6	4	45	PoB	PoB	4	1.3	2	2	1.6	0.6	1.1	2	1	0.8	0.6	0.8	8.5	0.2	64	
	10.7	9	63	BbB	MdC2	5	4.6	5	7	6.0	0.8	4.5	4	5	4.4	0.6	1.8	19.3	0.1	62	
	10.8	16	101	Scc2	1180D2	1	2.9	5	5	4.0	1.3	0.6	2	1	0.4	0.9	4.0	43.2	2.3	64	
	10.8	15	70	PnB	GwD2	4	5.0	6	10	9.1	0.8	3.7	4	2	1.9	0.5	7.5	81.0	1.3	64	
	10.9	9	55	RnC2	RnC2	5	1.6	2	2	1.4	0.3	1.6	2	1	1.0	0.2	0.5	5.5	0.0	64	
	11.0	9	42	MdB	RoC2	2	1.9	2	2	1.9	0.3	1.8	2	1	1.1	0.2	0.9	9.9	0.1	64	
	11.1	9	46	BbB	Dsc2	3	1.8	3	7	6.4	1.0	1.4	2	3	1.8	1.7	3.9	43.3	0.4	62	
	11.3	4	136	EgA	BbB	4	1.8	6	10	8.2	1.5	1.8	6	7	6.1	1.1	2.5	28.3	0.0	64	
	11.4	4	53	SaA	BbB	4	3.3	5	4	4.1	0.4	3.1	4	2	2.0	0.4	2.1	23.9	0.2	63	

2019 Phosphorus Report - LDVI																							
Without LDVI																		With LDVI					
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. P _I	Annual P _I	Part. P _I	Soluble P _I	Actual Soil Loss	Rotat. P _I	Annual P _I	Part. P _I	Soluble P _I	Annual P change per acre (lbs)	Annual P change for field in lbs	Change in actual soil loss per acre (lbs)	Yahara Stream Reach fields located			
11.5	9	61	MeC2	MeC2	5	2.4	2	2	1.6	0.3	2.0	2	2	1.3	0.3	0.3	0.3	3.5	0.4	0.4	64		
11.8	8	42	TrB	GwC	5	1.4	3	2	1.8	0.3	1.3	3	2	1.3	0.3	0.5	5.9	0.1	64				
11.9	16	19	DnC2	118002	1	6.0	5	3	2.3	0.4	5.7	4	2	1.6	0.2	0.9	10.7	0.3	62				
11.9	16	22	KdD2	KdD2	5	3.3	3	3	3.1	0.4	3.1	3	3	2.4	0.2	0.9	10.7	0.2	64				
12.1	9	74	RoC2	RoC2	2	2.2	3	6	5.5	1.0	1.6	2	2	1.3	0.7	4.5	54.5	0.6	64				
12.2	4	21	PnB	BdB	4	3.4	4	2	1.9	0.3	3.3	4	1	1.2	0.2	0.8	9.8	0.1	63				
12.3	4	56	VrB	DnB	5	6.0	7	11	10.7	0.6	2.5	3	4	3.0	0.6	7.7	94.7	3.5	64				
12.4	9	36	PnB	RnC2	5	2.1	2	1	1.3	0.3	2.1	2	1	0.9	0.2	0.5	6.2	0.0	64				
12.5	4	101	Os	WxB	2	1.6	3	4	2.8	1.1	1.5	3	3	1.9	1.0	1.0	12.5	0.1	64				
12.6	8	29	GwC	GwC	5	1.8	2	3	3.0	0.2	1.6	2	2	2.0	0.2	1.0	12.6	0.2	63				
12.6	16	14	RdC2	LaD2	5	3.4	3	3	3.2	0.2	3.3	3	3	2.6	0.1	0.7	8.8	0.1	64				
12.9	9	126	PnB	RnC2	5	2.0	4	7	6.2	1.1	1.6	3	4	3.0	0.9	3.4	43.9	0.4	64				
13.1	10	65	ScC2	ScC2	5	4.6	6	4	3.6	0.9	4.5	6	3	2.4	0.4	1.7	22.3	0.1	63				
13.1	9	24	GwC	GwC	5	1.1	2	2	1.6	0.2	0.9	2	1	0.4	0.1	1.3	17.0	0.2	64				
13.1	9	53	PnB	PnC2	5	3.2	3	2	2.0	0.3	2.4	2	1	0.6	0.2	1.5	19.7	0.8	64				
13.2	9	70	DsC2	DsC2	3	1.2	2	2	1.5	0.5	1.1	2	1	0.8	0.4	0.8	10.6	0.1	64				
13.2	9	58	RoC2	RoC2	2	1.6	2	2	1.1	0.5	1.4	2	1	0.6	0.4	0.6	7.9	0.2	64				
13.3	9	80	KeB	DsC2	3	2.3	4	5	4.1	0.8	2.2	3	3	3.0	0.5	1.4	18.5	0.1	64				
13.5	16	87	MdD2	MdD2	5	3.7	5	9	8.9	0.5	3.6	5	10	9.2	0.8	-0.6	8.1	0.1	63				
13.6	9	44	DnC2	DnC2	5	4.9	4	4	4.0	0.4	4.1	3	2	1.3	0.3	2.8	38.1	0.8	64				
13.6	4	188	EgA	PoB	4	2.5	6	9	7.3	1.7	2.4	5	7	5.5	1.3	2.2	29.9	0.1	64				
13.6	9	64	RoC2	RoC2	2	1.7	2	2	1.0	0.6	1.5	2	1	0.5	0.5	0.6	8.2	0.2	64				
13.7	15	129	RaA	EgA	4	1.7	5	5	3.6	1.6	1.7	5	5	2.6	2.2	0.4	5.5	0.0	63				
13.7	9	39	RnC2	RnC2	5	1.0	2	2	1.7	0.4	1.0	2	1	0.9	0.2	1.0	13.7	0.0	64				
13.7	15	48	DnB	GwD2	4	2.9	2	8	7.1	0.7	2.8	2	6	5.5	0.4	1.9	26.0	0.1	64				
13.7	9	42	RnC2	RnC2	5	1.8	3	2	1.4	0.5	1.6	2	1	1.0	0.3	0.6	8.2	0.2	64				
13.9	4	166	TrB	KeB	3	1.9	4	4	2.7	1.3	1.9	4	3	1.9	0.9	1.2	16.7	0.0	64				
14.0	15	36	PnB	GwD2	4	3.1	3	2	1.7	0.3	3.1	3	2	1.4	0.2	0.4	5.6	0.0	64				
14.0	9	98	PnC2	PnC2	5	2.5	4	4	3.6	0.9	2.3	4	3	2.1	0.8	1.6	22.4	0.2	64				
14.0	2.5	60	EIB	EIB	5	1.0	2	3	1.5	1.2	1.0	2	2	1.0	0.8	0.9	12.6	0.0	64				
14.0	8	37	PnB	GwC	5	1.0	2	2	1.1	0.6	1.0	1	1	0.8	0.3	0.6	8.4	0.0	64				
14.1	9	155	Wrc2	Wrc2	3	2.6	6	13	10.9	1.8	2.5	6	9	7.8	1.4	3.5	49.4	0.1	64				
14.1	8	43	GwC	GwC	5	1.4	3	2	1.1	0.4	1.4	3	1	0.8	0.3	0.4	5.6	0.0	64				
14.4	9	30	MdC2	DnC2	5	3.7	4	6	4.8	0.8	3.5	4	3	3.1	0.4	2.1	30.2	0.2	62				
14.4	9	101	DnB	KdC2	5	3.6	4	6	5.2	0.9	2.5	3	2	1.1	0.7	4.3	61.9	1.1	64				
14.5	10	57	DnC2	ScC2	5	3.8	4	5	4.2	0.5	3.4	4	2	2.1	0.3	2.3	33.4	0.4	64				
14.5	4	25	DnB	DnB	5	2.5	4	7	5.9	0.7	2.4	4	5	4.1	0.4	2.1	30.5	0.1	64				
14.7	4	65	PnB	PnB	5	0.7	1	2	1.2	0.5	0.6	1	1	0.7	0.4	0.6	8.8	0.1	64				

2019 Phosphorus Report - LDVI																		3			
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Without LDVI						With LDVI						Annual P change per acre (lbs)	Annual P change for field in lbs	Change in actual soil loss per acre (lbs)	Yahara Stream Reach fields located
						Actual Soil Loss	Rotat. P _I	Annual P _I	Part. P _I	Soluble P _I	Actual Soil Loss	Rotat. P _I	Annual P _I	Part. P _I	Soluble P _I	Actual Soil Loss	Rotat. P _I	Annual P _I	Part. P _I	Soluble P _I	
14.9	9	256	PnB	RnC2	5	1.2	4	4	2.3	1.8	1.2	4	3	1.9	1.4	0.8	11.9	0.0	0.0	64	
15.1	9	76	POA	BoC2	3	2.7	2	2	1.3	0.6	2.7	2	2	1.2	0.5	0.2	3.0	0.0	0.0	63	
15.1	8	32	RnB	GwC	5	0.8	2	2	1.2	0.4	0.8	1	1	0.8	0.2	0.6	9.1	0.0	0.0	64	
15.2	9	51	PnB	DnC2	5	2.3	2	1	0.7	0.5	2.3	2	1	0.6	0.4	0.2	3.0	0.0	0.0	64	
15.2	9	13	ScB	Dsc2	3	1.1	1	1	1.1	0.2	0.8	1	0	0.2	0.1	1.0	15.2	0.3	0.3	64	
15.4	8	44	GwC	GwC	5	2.1	3	2	2.2	0.3	2.0	3	2	1.3	0.2	1.0	15.4	0.1	0.1	64	
15.4	8	63	TrB	GwC	5	3.8	5	9	7.4	1.2	3.8	5	6	5.2	0.9	2.5	38.5	0.0	0.0	64	
15.5	9	7	DnC2	WxC2	2	1.5	2	2	1.6	0.2	1.2	1	0	0.3	0.1	1.4	21.7	0.3	0.3	64	
15.5	9	44	KdC2	KdC2	5	2.5	2	6	5.4	0.5	2.4	2	4	3.7	0.3	1.9	29.5	0.1	0.1	64	
15.6	2	189	VrB	VrB	5	1.2	5	6	2.3	3.3	1.2	4	5	2.1	0.3	0.3	4.7	0.0	0.0	64	
15.6	9	17	RnB	RnC2	5	3.1	2	1	1.0	0.2	2.5	2	0	0.3	0.0	0.9	14.0	0.6	0.6	64	
15.7	9	75	RnC2	RnC2	5.0	2.4	3	3	2.1	1.3	2.3	3	3	1.8	1.3	0.3	4.7	0.1	0.1	64	
15.8	9	44	KdC2	KdC2	5	3.0	3	6	5.2	0.6	2.6	2	3	2.7	0.3	2.8	44.2	0.4	0.4	64	
16.4	9	22	PnB	GwC	5	1.6	1	1	0.9	0.3	1.4	1	1	0.7	0.2	0.3	4.9	0.2	0.2	64	
16.6	9	35	RnC2	OnC2	5	3.1	4	3	3.2	0.2	2.6	3	1	1.3	0.2	1.9	31.5	0.5	0.5	64	
16.6	9	31	Dsc2	Dsc2	3	2.6	3	5	4.5	0.5	2.3	2	3	2.9	0.2	1.9	31.5	0.3	0.3	64	
16.6	4	39	RnB	RnB	5	0.7	1	1	0.6	0.4	0.6	1	0	0.1	0.3	0.6	10.0	0.1	0.1	64	
16.7	4	17	BbB	BbB	4	2.1	5	7	5.9	0.7	1.9	5	5	4.1	0.9	1.6	26.7	0.2	0.2	63	
16.7	4	58	DnB	DnB	5	0.7	2	2	0.9	0.6	0.6	1	1	0.6	0.5	0.4	6.7	0.1	0.1	64	
16.8	4	81	BbB	WrB	3	1.7	3	4	3.4	0.8	1.3	3	1	0.6	0.7	2.9	48.7	0.4	0.4	63	
16.8	16	50	ScC2	WxD2	2	1.7	2	3	2.8	0.6	1.2	1	1	0.6	0.3	2.5	42.0	0.5	0.5	64	
16.9	9	40	RnC2	RnC2	5	1.2	2	2	1.7	0.4	1.1	2	1	1.1	0.2	0.8	13.5	0.1	0.1	64	
17.0	16	68	WxC2	1180D2	1	1.5	3	5	4.3	0.8	1.5	3	4	3.8	0.6	0.7	11.9	0.0	0.0	64	
17.0	16	96	WrC2	DrD2	3	2.7	4	2	1.6	0.8	2.9	4	2	1.4	0.7	0.3	5.1	-0.2	-0.2	64	
17.1	9	82	RaA	Dsc2	3	2.9	5	7	6.5	0.7	2.6	5	5	4.8	0.7	1.7	29.1	0.3	0.3	63	
17.1	9	68	RnC2	RnC2	5	1.2	3	3	2.4	0.9	1.2	2	2	1.4	0.6	1.3	22.2	0.0	0.0	64	
17.1	9	19	PnB	RdC2	5	1.7	2	2	1.7	0.3	1.6	2	1	1.2	0.2	0.6	10.3	0.1	0.1	64	
17.2	9	46	RnC2	RnC2	5	1.4	3	2	2.0	0.4	1.2	2	1	0.5	0.3	1.6	27.5	0.2	0.2	64	
17.3	9	32	PnB	PnC2	5	0.9	1	1	0.3	0.3	0.8	1	1	0.4	0.3	-0.1	-1.7	0.1	0.1	64	
17.3	9	18	RnB	RnC2	5	2.0	2	5	4.6	0.2	1.8	2	3	2.3	0.1	2.4	41.5	0.2	0.2	64	
17.5	9	22	BbB	Dsc2	3	1.6	2	2	1.7	0.4	1.5	1	2	1.3	0.4	0.4	7.0	0.1	0.1	64	
17.6	16	47	TrB	WxD2	2	4.7	5	7	5.8	0.8	4.7	5	5	4.4	0.4	1.8	31.7	0.0	0.0	64	
18.2	4	68	RnB	PnB	5	1.6	3	5	4.3	0.8	1.5	3	4	3.1	0.5	1.5	27.3	0.1	0.1	64	
18.4	8	42	PnB	GwC	5	1.9	2	1	0.9	0.6	1.9	2	1	0.8	0.5	0.2	3.7	0.0	0.0	64	
18.4	14	40	PoC2	MdD2	5	5.5	8	18	17.2	0.7	4.9	6	12	11.0	0.6	6.3	115.9	0.6	0.6	64	
18.8	4	48	PnB	PnB	5	1.8	2	2	1.4	0.6	1.6	2	1	0.8	0.6	0.6	11.3	0.2	0.2	64	
18.9	9	13	PnA	GwC	5	2.5	3	2	1.7	0.3	2.3	3	1	1.3	0.6	1.3	0.2	0.2	64		
19.1	9	45	PnA	GwC	5	2.4	4	2	2.0	0.4	2.3	4	2	1.7	0.3	0.4	7.6	0.1	0.1	64	

2019 Phosphorus Report - LDVI																									
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. P	Annual P	Part. P	Soluble P	Actual Soil Loss	Rotat. P	Annual P	Part. P	Soluble P	Annual P change per acre (lbs)	Annual P change for field in lbs	Change in soil loss per acre (lbs)	Yahara Stream Reach fields located	3+	4+	5+	6+	7+
19.2	4	49	BbB	BbB	4	0.6	1	2	1.7	0.5	0.5	1	1	0.7	0.3	1.2	5.8	0.1	64						
19.3	9	19	RdC2	RdC2	5	1.2	1	1	1.2	0.3	1.1	1	1	1.1	0.1	0.3	1.2	23.0	0.1	64					
19.3	9	67	BbC2	BbC2	4	1.7	2	3	2.2	0.5	1.5	2	2	1.1	0.4	1.2	23.2	0.2	64						
19.5	9	58	DsC2	DsC2	3	2.8	4	7	7.0	0.4	2.5	3	5	4.5	0.4	2.5	48.8	0.3	63						
19.5	8	84	PnB	GwC	5	2.5	2	2	1.7	0.8	2.5	2	2	1.5	0.6	0.4	7.8	0.0	64						
19.6	9	73	PoB	DsC2	3	2.7	4	1	0.7	0.3	2.6	4	1	0.3	0.4	7.8	0.1	63							
19.6	4	82	VrB	PhB	5	1.5	2	2	1.1	0.6	1.5	2	1	1.0	0.4	0.3	5.9	0.0	64						
19.7	9	123	PnB	PnC2	5	5.1	2	1	0.8	0.4	4.7	2	1	0.6	0.3	0.3	5.9	0.4	64						
20.0	9	93	DnC2	MdC2	5	3.5	5	10	8.5	1.2	3.7	5	9	8.6	0.9	0.2	4.0	-0.2	63						
20.0	4	57	PoB	PoB	4	1.8	2	2	1.9	0.3	1.7	2	1	1.1	0.3	0.8	16.0	0.1	64						
20.1	32.5	59	RoC2	SoE	1	0.6	2	3	1.6	1.5	1.0	2	2	1.7	0.6	0.8	16.1	-0.4	64						
20.2	8	14	PnB	GwC	5	2.6	3	2	1.6	0.4	2.5	2	2	1.2	0.3	0.5	10.1	0.1	64						
20.3	4	96	BbB	BbB	4	4.1	6	8	7.9	0.6	3.8	5	6	5.6	0.8	2.1	42.6	0.3	63						
20.3	4	60	PoA	PoB	4	2.3	3	3	2.2	0.4	2.2	2	2	1.6	0.4	0.6	12.2	0.1	64						
20.3	4	56	RnB	PnB	5	2.6	3	2	1.2	0.4	2.6	3	2	1.2	0.4	0.0	0.0	0.0	64						
20.3	9	77	DsC2	DsC2	3	2.5	4	10	9.0	1.2	1.6	3	3	2.5	1.0	6.7	136.0	0.9	64						
20.4	9	63	PnB	PnC2	5	3.0	1	1	0.6	0.4	2.4	1	1	0.4	0.3	0.3	6.1	0.6	64						
20.4	9	9	PnB	RnC2	5	2.3	3	3	2.5	0.2	2.2	3	2	1.4	0.2	1.1	22.4	0.1	64						
20.5	9	38	RnC2	RnC2	5	2.1	2	1	1.1	0.3	2.1	2	1	1.0	0.2	0.2	4.1	0.0	64						
20.5	9	54	PnB	RnC2	5	1.5	2	2	1.8	0.3	1.3	2	1	1.0	0.4	0.7	14.4	0.2	64						
20.6	1	94	Wa	Wa	5	1.2	2	3	1.0	1.6	1.0	2	2	0.8	1.3	0.5	10.3	0.2	64						
20.8	9	23	GwC	RnC2	5	2.0	3	5	4.7	0.2	1.7	3	2	2.0	0.2	2.7	56.2	0.3	64						
20.9	15	40	KrD2	KrD2	5	4.0	4	4	4.1	0.3	3.8	3	3	3.2	0.2	1.0	20.9	0.2	64						
21.0	4	64	BbB	BbB	4	3.5	4	2	1.3	0.4	3.4	4	1	1.0	0.3	0.4	8.4	0.1	63						
21.4	9	98	PnB	PnC2	5	3.4	4	4	3.5	0.6	2.9	3	2	1.0	0.5	2.6	55.6	0.5	64						
21.5	9	21	DnC2	WxC2	2	1.5	1	1	1.0	0.3	1.4	1	1	0.7	0.1	0.5	10.8	0.1	64						
22.1	4	118	PoB	BbB	4	3.0	6	3	2.3	1.1	3.0	6	3	1.9	0.7	0.8	17.7	0.0	64						
22.1	4	65	RnB	PnB	5	3.3	5	3	2.6	0.5	3.3	5	3	2.0	0.5	0.6	13.3	0.0	64						
22.3	4	24	RnB	PnB	5	1.5	2	2	1.6	0.5	1.4	2	2	1.3	0.4	0.4	8.9	0.1	64						
22.5	4	84	TrB	PoB	4	1.2	2	2	1.5	0.5	1.1	2	1	0.8	0.4	0.8	18.0	0.1	64						
22.5	1.5	130	RaA	RaA	5	2.8	7	6	3.1	2.5	2.7	7	5	2.4	2.2	1.0	22.5	0.1	64						
22.5	4	103	TrB	DsB	3	2.4	4	7	5.6	1.3	2.2	4	5	3.5	1.1	2.3	51.8	0.2	64						
22.7	9	88	RnB	DnC2	5	3.1	4	4	2.9	1.0	3.1	4	3	2.7	0.8	0.4	9.1	0.0	64						
22.9	9	62	KeB	DsC2	3	3.3	5	8	6.9	0.7	3.1	5	5	4.7	0.5	2.4	55.0	0.2	64						
23.0	9	54	PnB	GwC	5	3.3	4	7	6.9	0.3	2.0	3	3	2.6	0.5	4.1	94.3	1.3	64						
23.0	9	54	PnB	GwC	5	3.3	4	7	6.9	0.3	2.0	3	3	2.6	0.5	4.1	94.3	1.3	64						
23.3	4	84	PnA	PoB	4	4.1	5	7	6.0	0.7	2.5	3	3	2.5	0.7	3.5	81.6	1.6	64						
23.5	8	36	RdB2	GrC2	4	1.8	3	3	2.6	0.4	1.8	2	2	2.1	0.3	0.6	14.1	0.0	64						

2019 Phosphorus Report - LDMI																							
									Without LDMI						With LDMI								
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Loss for the field	Tolerable Soil Loss	Actual Soil Loss	Rotat. P/I	Annual P/I	Part. P/I	Soluble Soil Loss	Actual Soil Loss	Rotat. P/I	Annual P/I	Part. P/I	Soluble Soil Loss	Annual P change per acre (lbs)	Annual P change for field in lbs	Annual P actual soil loss per acre (lbs)	Change in Reach field is located	Vahara Stream		
23.5	2	167	KeB	KeB	3	2.8	2	3	14	1.4	2.1	2	2	0.8	1.2	0.8	18.8	0.5	63	64			
23.7	16	65	ScC2	KdD2	5	3.6	4	4	3.2	1.3	3.1	3	2	1.0	1.1	2.4	56.9	0.0	45.6	0.0	64		
24.0	9	42	RnB	RnC2	5	2.7	3	6	4.9	0.7	2.7	3	4	3.3	0.4	1.9	16.9	0.1	64	64			
24.1	9	152	PnB	RnC2	5	2.0	3	2	1.9	0.6	1.9	3	2	1.3	0.5	0.7	16.9	0.1	64	64			
24.4	9	48	ScB	MdC2	5	4.1	5	3	2.2	0.5	3.9	5	2	1.8	0.4	0.5	12.2	0.2	62	62			
24.7	2	151	TrB	TrB	5	2.3	5	4	2.5	1.7	2.2	5	3	1.8	1.6	0.8	19.8	0.1	64	64			
25.0	4	79	BbA	BbB	4	1.1	2	2	1.5	0.9	1.0	2	2	1.3	0.8	0.3	7.5	0.1	64	64			
25.1	9	63	PnD	RnC2	5	1.6	2	1	1.1	0.4	1.6	2	1	1.0	0.3	0.2	5.0	0.0	64	64			
25.5	15	86	RnC2	GwD2	4	2.2	4	3	2.8	0.5	2.1	4	2	1.5	0.5	1.3	33.2	0.1	64	64			
25.6	9	41	PnB	PnC2	5	1.7	2	2	1.6	0.4	1.6	2	1	1.0	0.3	0.7	17.9	0.1	64	64			
26.5	4	148	PoB	DsB	3	0.6	2	2	0.8	0.8	0.5	1	1	0.5	0.8	0.3	8.0	0.1	64	64			
26.6	16	95	MdD2	MdD2	5	5.0	3	7	6.6	0.1	4.8	3	7	6.4	0.2	0.1	2.7	0.2	63	63			
26.8	9	65	VwA	BgC2	4	4.5	6	11	10.5	0.9	4.4	5	8	7.0	0.6	3.8	101.8	0.1	64	64			
27.0	16	56	GwD2	GwD2	4	1.7	3	5	4.0	0.7	1.7	3	3	2.4	0.4	1.9	51.3	0.0	64	64			
27.3	9	55	MdB	MdC2	5	1.5	5	4	3.3	0.6	1.2	1	2	1.7	0.4	1.8	49.1	0.3	64	64			
28.1	9	70	PnB	RnC2	5	2.6	3	3	3.0	0.4	2.1	3	3	1.9	0.6	0.9	25.3	0.5	64	64			
28.1	9	65	BbB	BoC2	3	2.7	2	2	0.8	0.8	2.3	2	1	0.5	0.5	0.6	16.9	0.4	64	64			
28.4	8	10	PnB	GwC	5	1.0	1	1	0.9	0.3	1.0	1	1	0.8	0.1	0.3	8.5	0.0	64	64			
29.8	9	38	PoB	PnC2	5	2.1	2	6	5.3	0.5	1.9	2	4	3.8	0.4	1.6	47.7	0.2	64	64			
29.9	9	87	RnB	RnC2	5	1.5	3	5	4.8	0.6	1.4	3	4	3.2	0.6	1.6	47.8	0.1	64	64			
30.1	8	54	GwC	GwC	5	1.1	2	2	1.1	0.6	1.1	2	1	0.9	0.3	0.5	15.1	0.0	64	64			
30.2	4	71	RaA	PnB	5	2.6	5	2	1.9	0.4	2.6	5	2	1.3	0.4	0.6	18.1	0.0	64	64			
30.6	8	85	PnB	GwC	5	0.9	2	2	1.0	0.6	0.9	2	1	0.9	0.5	0.2	6.1	0.0	64	64			
31.2	2	71	TrB	TrB	5	0.6	2	2	1.2	0.8	0.5	2	1	0.8	0.5	0.7	21.8	0.1	64	64			
32.3	9	20	DsC2	DsC2	3	3.2	3	2	1.2	0.3	3.1	3	1	1.1	0.1	0.3	9.7	0.1	64	64			
32.4	9	56	MdC2	MdC2	5	5.3	5	8	7.9	0.4	4.9	5	6	5.3	0.3	2.7	87.5	0.4	64	64			
32.5	9	49	GwC	RnC2	5	1.3	2	2	1.6	0.4	0.8	1	1	0.4	0.4	1.2	39.0	0.5	64	64			
33.2	8	37	RnB2	GrC2	4	1.8	3	2	1.8	0.4	1.7	3	2	1.4	0.3	0.5	16.6	0.1	64	64			
33.4	9	51	PnB	PnC2	5	4.5	4	12	11.3	0.5	3.7	3	7	6.4	0.4	5.0	167.0	0.8	64	64			
34.0	9	39	SmC2	SmC2	5	0.5	1	1	0.8	0.4	0.4	1	0	0.4	0.1	0.7	23.8	0.1	64	64			
35.0	9	67	PnB	RnC2	5	1.1	1	1	1.0	0.4	1.0	1	1	0.7	0.3	0.4	14.0	0.1	64	64			
35.1	9	14	RoC2	RnC2	5	3.0	3	6	5.7	0.4	2.9	3	4	4.1	0.2	1.8	63.2	0.1	64	64			
35.5	16	73	ScC2	1180D2	1	1.2	3	3	1.8	1.2	1.0	2	2	1.2	1.2	0.6	21.3	0.2	64	64			
36.3	16	92	PnB	MdD2	5	4.3	6	7	6.2	0.6	4.0	5	5	4.5	0.6	1.7	61.7	0.3	64	64			
37.1	16	104	MdD2	MdD2	5	9.7	2	3	1.9	0.7	4.8	2	2	1.0	0.7	0.9	33.4	4.9	64	64			
37.8	4	99	RaA	SeB	5	3.7	7	11	8.7	2.6	2.7	5	5	2.8	2.5	6.0	226.8	1.0	64	64			
38.8	4	78	PnB	PnB	5	2.2	2	2	1.3	0.5	1.8	2	1	0.8	0.5	0.5	19.4	0.4	64	64			
43.0	4	81	PnB	PnB	5	1.6	3	4	3.2	0.8	1.5	3	3	2.2	0.6	1.2	51.6	0.1	64	64			
50.7	4	43	PnB	PnB	5	2.8	4	4	3.2	0.5	2.0	3	32	1.6	0.3	1.8	91.3	0.8	64	64			

2019 Phosphorus Report - LDMI																				
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Without LDMI					With LDMI					Annual P change per acre (lbs)	Annual P change for field in lbs	Change in actual soil loss per acre (lbs)	Yahara Stream Reach field is located
							Actual Soil Loss	Rotat. P1	Annual P1	Part. P1	Soluble Soil Loss	Actual Soil Loss	Rotat. P1	Annual P1	Part. P1	Soluble Soil Loss				
	55.2	4	38	BbA	BbB	4	3.1	4	7	6.4	0.7	2.3	3	5	4.6	0.4	2.1	115.9	0.8	64
	55.3	6	41	PnC2	PnC2	5	2.2	1	3	2.5	0.1	1.8	1	2	1.4	0.2	1.0	55.3	0.4	63
	58.0	4	89	PnB	PnB	5	2.6	4	7	6.2	1.1	2.5	4	5	4.6	0.8	1.9	110.2	0.1	64
	58.5	4	49	BbB	BbB	4	3.5	5	7	6.7	0.7	3.3	4	5	3.9	0.6	2.9	169.7	0.2	64
	60.0	1.5	86	RaA	RaA	5	4.7	7	8	8.0	2.4	3.5	5	5	2.7	2.3	5.4	324.0	1.2	64
	61.6	4	129	Ot	PoB	4	3.2	7	8	6.9	1.2	2.3	5	4	3.0	1.2	3.9	240.2	0.9	64
	98.6	4	52	PnB	PnB	5	1.5	2	2	1.6	0.4	1.5	2	1	1.1	0.4	0.5	49.3	0.0	64
	102.0	11	24	GwC	GwC	5	2.6	2	3	2.4	0.1	2.2	1	2	1.4	0.1	1.0	102.0	0.4	63
	116.7	16	25	WxC2	1180D2	1	1.0	1	4	3.1	0.6	0.5	1	1	0.6	0.3	2.8	326.8	0.5	64
2019 Yahara Pride Low Disturbance Manure Cost Share Program																				
															Average phosphorus reduction		1.6			
Acres																				
4450.2																				
Fields																				
Farms																				
Acres															Total phosphorus reduction		7103.4			
Reach															Average Soil loss reduction		0.3			
Reaches																				
Average phosphorus reduction															Maximum P reduction		8.2			
Total phosphorus reduction															Minimum P reduction		-0.6			
Cost shared acres																				
1655.0																				
Acres Planted by farmers without cost share payment																				
Financial Investment of Cost Share																				
\$ 33,110															\$ 109,001					

Appendix 4 – Strip Tillage

2019 Phosphorus Report - Strip Tillage																Without Strip Tillage				With Strip Tillage							
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. P _i	Annual P _i	Part. Soluble P _i	Actual Soil Loss	Rotat. P _i	Annual P _i	Part. P _i	Soluble P _i	Annual P change per acre	Annual P change for field	Annual soil loss Reach field is located	Yahara Stream Reach field is located								
4.0	16	105	DsB	DrD2	3	2.8	2	2	1.3	0.7	2.5	2	2	1.1	0.7	0.2	0.8	-0.3	64								
4.3	9	68	BbC2	BbC2	4	1.4	2	4	2.9	0.8	1.3	2	3	2.4	1.0	0.3	1.3	-0.1	64								
5.9	9	30	BbB	BbC2	4	2.5	3	4	3.9	0.5	2.1	3	3	2.8	0.6	1.0	5.9	-0.4	64								
6.1	2	30	TrB	TrB	5	1.2	1	2	1.8	0.5	1.1	1	1	0.8	0.3	1.2	7.32	-0.1	63								
7.4	1	69	Ho	Ot	5	0.8	2	2	1.0	0.9	0.6	2	2	0.7	0.9	0.3	2.2	-0.2	64								
7.5	9	17	KdC2	KdC2	5	0.9	1	2	1.8	0.4	0.2	0	0	0.2	0.3	1.7	12.8	-0.7	64								
7.6	9	19	EdC2	EdC2	1	1.1	3	5	2.9	1.8	0.7	2	2	0.8	1.7	2.2	16.7	-0.4	64								
8.4	4	53	VwA	BbB	4	1.0	2	3	1.4	1.3	0.9	2	2	1.1	1.3	0.3	2.5	-0.1	64								
8.5	9	181	PnB	RoC2	2	1.1	5	6	2.7	2.9	0.4	3	3	0.8	2.3	2.5	21.3	-0.7	64								
8.7	4	140	BbB	BbB	4	2.9	3	6	4.8	1.0	2.7	3	4	3.4	1.0	1.4	12.2	-0.2	63								
9.0	7	147	KdC2	KdC2	5	3.1	3	6	5.0	0.8	2.7	3	4	2.7	1.0	2.1	18.9	-0.4	63								
9.7	9	40	BbB	PnC2	5	1.2	2	1	0.8	0.6	0.8	1	1	0.1	0.6	0.7	6.8	-0.4	64								
10.2	4	51	BbB	BbB	4	2.6	3	4	3.8	0.6	2.3	2	2	1.5	0.4	2.5	25.5	-0.3	63								
10.6	9	44	DnC2	DnC2	5	2.7	3	11	8.9	1.7	2.1	3	5	3.3	1.6	5.7	60.42	-0.6	63								
11.2	16	44	MdD2	EdD2	1	1.8	3	7	5.2	1.4	1.1	2	3	1.4	1.3	3.9	43.7	-0.7	64								
12.1	9	12	KdC2	KdC2	5	1.3	2	2	2.0	0.4	1.0	1	1	0.7	0.3	1.4	16.9	-0.3	64								
12.2	16	10	RoC2	EdD2	1	1.6	2	4	3.2	0.6	0.3	1	1	0.5	0.5	2.8	34.2	-1.3	64								
12.6	9	17	BbB	DnC2	5	0.5	1	1	0.2	0.7	0.1	1	1	0.0	0.6	0.3	3.8	-0.4	64								
13.7	9	120	PoB	MdC2	5	4.0	6	8	6.7	1.0	3.6	6	6	5.3	1.1	1.3	17.81	-0.4	63								
14.3	15	30	ScC2	ScC2	5	5.1	5	12	11.1	0.9	4.1	4	7	6.3	1.0	4.7	67.21	-1	63								
14.9	4	83	PoA	BbB	4	1.3	2	3	2.0	1.0	0.5	1	2	0.6	0.9	1.5	22.4	-0.8	64								
15.5	8	66	KdC2	KdC2	5	2.8	3	5	4.4	0.7	2.5	2	2	1.7	0.5	2.9	44.95	-0.3	63								
15.6	4	46	MdBW	BbB	4	0.5	1	2	1.2	0.4	0.1	0	1	0.2	0.3	1.1	17.2	-0.4	64								
15.9	4	144	DrB	DrB	3	1.0	2	3	1.8	1.1	0.4	1	1	0.5	0.8	1.6	25.4	-0.6	69								
16.0	9	154	DrD2	DrD2	3	2.7	5	8	6.5	1.5	2.5	5	6	4.8	1.5	1.7	27.2	-0.2	63								
17.7	9	60	TrB	MdC2	5	4.6	5	14	12.9	0.9	4.6	5	10	8.4	1.2	4.2	74.34	0	63								
18.3	1	88	Mc	Ev	5	1.0	2	2	0.8	1.2	1.0	2	2	0.8	1.3	-0.1	-1.8	0.0	64								
19.1	9	51	PhC2	PhC2	5	3.7	4	11	9.9	0.7	2.8	3	5	3.8	0.8	6	114.6	-0.9	63								
20.0	9	93	DnC2	MdC2	5	3.9	5	12	10.7	1.0	3.7	5	9	8.6	0.9	2.2	44	-0.2	63								
20.9	16	47	DnC2	KdD2	5	4.8	4	9	8.3	0.6	4.6	3	8	6.9	0.6	1.4	29.26	-0.2	63								
20.9	9	133	ScB	MdC2	5	3.0	4	11	9.4	1.3	2.7	4	9	7.9	1.3	1.5	31.35	-0.3	63								
21.3	4	129	KeB	KeB	3	2.4	2	2	0.9	1.1	2.1	2	2	0.8	1.2	0.0	-0.3	64									
22.0	9	63	PhC2	PhC2	5	3.9	5	8	7.7	0.4	3.6	4	7	6.2	0.5	1.4	30.8	-0.3	63								
22.5	16	104	DnC2	MdD2	5	6.8	2	2	1.1	0.5	4.8	2	1	0.9	0.5	0.2	4.5	-2.0	64								
22.9	1	37	VwA	VwA	4	0.1	2	2	0.1	1.5	0.1	2	2	0.1	1.6	-0.1	-2.3	0.0	64								
27.4	9	61	WxC2	WxC2	2	2.3	4	6	4.1	1.5	0.7	2	2	1.1	1.1	3.4	93.2	-1.6	64								
31.2	4	58	PmB	PmB	4	1.1	2	3	2.4	0.5	0.4	1	1	0.6	0.3	2.0	62.4	-0.7	69								
32.8	9	20	BbB	DnC2	5	1.8	3	4	2.8	1.0	1.6	3	3	2.2	1.1	0.5	16.4	-0.2	64								
33.5	4	99	EmA	StB	4	1.3	3	5	3.8	0.9	0.4	1	2	0.9	0.6	3.2	107.2	-0.9	69								
34.7	1.5	46	EoA	EoA	5	0.7	2	3	2.5	0.7	0.5	2	2	1.8	0.6	0.8	27.8	-0.2	69								
36.9	12	93	DsC2	DsC2	5	3.3	4	8	6.9	0.8	3.4	5	6	5.4	0.7	1.6	59.0	0.1	63								
37.2	9	39	KeB	DsC2	3	1.9	1	2	1.7	0.2	1.8	1	2	1.5	0.2	0.2	7.44	-0.1	64								
37.4	4	64	PiB	PiB	5	1.2	2	2	1.2	0.5	0.4	1	1	0.2	0.4	1.1	41.1	-0.8	69								
37.4	16	59	ScB	WxD2	2	5.4	2	5	3.0	1.6	2.0	1	1	0.5	0.4	3.7	138.4	-3.4	64								

2019 Phosphorus Report - Strip Tillage																Without Strip Tillage				With Strip Tillage			
Field	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. PI	Annual PI	Part. PI	Soluble Soil Loss	Actual Rotat. PI	Annual PI	Part. PI	Soluble PI	Annual P change per acre	Annual P change for field	Annual soil loss Reach field is located	Yahara Stream Reach field is located				
	39.5	4	63	EoA	SBB	4	1.3	2	4	3.5	0.6	0.4	1	1	0.9	0.4	2.8	110.6	-0.9	69			
	39.7	4	118	HbA	D-B	3	2.0	2	2	0.8	1.2	1.2	1	2	0.4	1.2	0.4	141.12	-0.3	63			
	44.1	5	99	SGB	SGB	5	2.4	3	6	5.0	0.8	2.1	3	3	2.0	0.6	3.2	26.94	-0.4	63			
	44.9	9	78	PnB	RnC2	5	3.0	4	4	3.2	0.6	2.6	4	3	2.5	0.7	0.6	39.4	-1.0	69			
	49.3	4	23	SbB	SbB	4	1.4	1	1	0.9	0.2	0.4	0	0	0.2	0.1	0.8	110.7	-1.0	69			
	81.3	8	52	PbB	Grc2	4	1.5	2	2	1.5	0.5	0.5	1	1	0.3	0.4	1.3	117.4	-1.0	69			
	98.6	4	40	RnB	PnB	5	0.9	1	1	1.0	0.3	0.3	0	1	0.3	0.3	0.7	69.0	-0.6	64			
	104.3	1	39	PmA	PmA	4	0.4	0	0	0.2	0.1	0.4	0	0	0.1	0.1	0.1	104.0	0.0	69			
	115.0	4	22	PmB	PmB	4	0.7	1	1	0.6	0.2	0.2	0	0	0.1	0.1	0.6	69.0	-0.5	69			
	117.4	8	30	RnB2	Grc2	4	1.5	2	2	1.2	0.3	0.5	1	0	0.3	0.2	1.0	117.4	-1.0	69			
	155.5	9	19	DsC2	DsC2	3	1.1	1	2	1.4	0.3	0.3	0	0	0.2	0.2	1.3	202.2	-0.8	69			
	192.2	8	46	RnB2	Grc2	4	1.4	1	2	2.0	0.3	0.5	1	1	0.5	0.2	1.6	307.5	-0.9	69			
2019 Yahara Pride Strip Tillage Cost Share Program																							
Phosphorus Reduction by sub-watershed																Average phosphorus reduction				1.7			
Fields																Total phosphorus reduction				2608.1			
Farms																Average Soil loss reduction				-0.6			
Average phosphorus reduction																Maximum P reduction				6.0			
Total phosphorus reduction																Minimum P reduction				-0.1			
Average Soil loss reduction																				-0.6			
Cost shared acres																							
Cost shared acres																							
Acres Planted by farmers without cost share payment																							
Financial Investment of Cost Share																							
Investment of Cost Share																							
\$ 4,500																							
\$ 23,367																							

Appendix 5 – Manure Stacking / Composting

2019 Phosphorus Report - Manure Stacking/Composting										Winter Manure Application										Non-Frozen Stacking			
Field	Acres	Slope	Soil Test P ppm	Predominant Soil used	Critical Soil Loss for the field	Tolerable Soil Loss for the field	Actual Soil Loss P	Rotat. P	Annual P	Part. P	Soluble P	Actual Soil Loss P	Rotat. P	Annual P	Part. P	Soluble P	Annual P change per acre	Annual P change for field	Change in actual soil loss	Yahara Stream Reach field is located			
2.9	12	100	Kf2	Kf2	5	1.7	3	5	2.4	2.7	1.7	3	3	2.0	0.7	2.4	7.0	0.0	0.0	-0.2	63		
3.5	9	69	RnB	Mc2	5	1.8	4	4	2.0	2.5	1.8	3	2	1.5	0.8	2.2	7.7	0.0	0.0	0.0	64		
3.8	9	43	MdC2	Mc2	5	2.1	2	4	2.4	1.7	2.0	2	3	2.4	0.5	1.2	4.6	0.1	0.1	0.1	64		
3.9	12	Md2	Md2	5	0.3	1	1	0.1	0.6	0.3	0	0	0.1	0.1	0.5	2.0	0.0	0.0	0.0	62			
4.1	16	55	MdC2	Kd2	5	2.0	2	3	1.8	1.5	2.2	2	2	1.6	0.4	1.3	5.3	0.0	0.0	0.0	64		
4.1	16	27	Md2	Md2	5	3.2	5	7	6.1	0.6	3.2	5	6	5.4	0.3	1.0	4.1	0.0	0.0	0.0	64		
4.6	9	DsC2	DsC2	3	1.7	2	3	1.8	1.0	1.6	2	2	1.8	0.5	0.5	2.3	0.1	0.1	0.1	62			
4.6	4	72	HaA	KEB	3	0.7	1	3	0.9	1.8	0.7	1	2	0.8	1.0	0.9	4.1	0.0	0.0	0.0	62		
4.6	9	43	MdC2	Mc2	5	1.1	2	3	0.3	2.8	1.1	1	1	0.3	1.1	1.7	7.8	0.0	0.0	0.0	64		
4.7	16	30	161D2	161D2	2	0.3	1	1	0.1	0.9	0.3	1	1	0.1	0.4	0.5	2.4	0.0	0.0	0.0	62		
4.7	16	26	Md2	Md2	5	3.6	5	7	6.0	0.6	3.5	5	6	5.5	0.5	0.6	2.8	0.1	0.1	0.1	64		
4.8	8	58	GwC	GwC	5	0.1	1	3	0.1	2.7	0.1	0	1	0.1	0.4	2.3	11.0	0.0	0.0	0.0	64		
4.8	4	109	PnA	RnB	5	0.8	2.0	4	1	2.9	0.8	2.0	2	1	0.9	2.2	10.6	0.0	0.0	0.0	64		
4.9	9	70	GwC	GwC	5	0.7	2	3	0.7	2.0	0.7	2	1	0.6	0.6	1.5	7.4	0.0	0.0	0.0	64		
5.0	9	53	MdC2	Mc2	5	2.2	3	6	2.0	2.6	2.4	2	4	3.4	0.5	0.7	3.5	-0.2	0.0	0.0	64		
5.3	16	76	DnC2	Md2	5	3.8	6	8	7.1	1.0	3.8	6	7	6.4	0.6	1.1	5.8	0.0	0.0	0.0	64		
5.8	9	52	BbB	DnC2	5	1.9	3	2	0.2	2.0	1.9	3	1	0.2	1.2	0.8	4.6	0.0	0.0	0.0	64		
6.2	9	29	SmC2	SmC2	5	1.5	2	2	1.2	0.8	1.3	2	1	1.0	0.4	0.6	3.7	0.2	0.2	0.2	62		
6.2	16	28	MdC2	Mc2	5	3.8	4	2	1.7	0.8	3.7	4	2	1.4	0.3	0.8	5.0	0.1	0.1	0.1	62		
6.9	9	34	MdC2	Mc2	5	0.6	1	3	0.2	2.5	0.5	1	1	0.2	0.3	2.2	15.2	0.1	0.1	0.1	64		
7.1	15	110	KeB	Sd2	5	0.1	1	2	0.0	2.3	0.1	1	1	0.0	0.5	1.8	12.8	0.0	0.0	0.0	64		
7.4	16	35	Md2	Md2	5	3.1	6	10	7.2	2.4	3.1	5	8	7.3	0.6	1.7	12.6	0.0	0.0	0.0	64		
7.4	9	39	DnC2	Mc2	5	0.5	1	3	0.1	2.6	0.5	1	0	0.2	0.3	2.2	16.3	0.0	0.0	0.0	64		
7.7	12	67	Kd2	Kd2	5	1.5	2	4	1.6	1.9	1.5	2	2	1.2	0.4	1.9	14.6	0.0	0.0	0.0	64		
8.0	4	145	WrB	WrB	3	2.7	6	10	6.3	3.2	2.6	6	9	6.1	2.5	0.9	7.2	0.1	0.1	0.1	64		
8.1	16	76	SmB	SmD2	5	2.5	3	4	3.2	1.1	2.4	3	3	3.0	0.5	0.8	6.5	0.1	0.1	0.1	62		
8.2	9	25	DnB	DnC2	5	2.8	4	8	4.7	3.8	2.8	4	7	4.5	2.2	1.8	14.8	0.0	0.0	0.0	64		
8.4	4	36	BbB	BbB	4	1.2	3	2	0.4	1.7	1.1	2	1	0.4	0.7	1.0	8.4	0.1	0.1	0.1	64		
8.4	4	142	PoB	PoB	4	1.5	4	5	2.0	2.9	1.5	4	3	1.7	1.0	2.2	18.5	0.0	0.0	0.0	64		
8.5	9	60	PnB	Mc2	5	1.8	4	6	3.5	2.3	1.8	3	3	2.6	0.7	2.5	21.3	0.0	0.0	0.0	64		
8.7	8	36	GwC	GwC	5	0.9	2.0	5	2	2.8	0.8	2.0	2	2	0.6	2.8	24.4	0.1	0.1	0.1	64		
9.0	8	32	GwC	GwC	5	1.6	2	5	3.6	1.7	1.5	2	4	3.0	0.7	1.6	14.4	0.1	0.1	0.1	63		
9.0	16	27	DsC2	WxV2	2	0.8	2	2	0.7	1.3	0.9	2	1	0.7	0.5	0.8	7.2	-0.1	0.0	0.0	64		
9.1	9	33	RnB	PnC2	5	1.7	3	2	1.1	1.0	1.7	3	2	1.2	0.9	0.0	0.0	0.0	0.0	0.0	64		
9.4	9	47	KdC2	KdC2	5	0.4	1	2	0.1	1.9	0.4	1	1	0.1	1.0	0.9	8.5	0.0	0.0	0.0	64		
9.5	16	41	DnC2	Md2	5	1.7	2	4	1.1	2.6	1.8	1	2	1.2	0.3	2.2	20.9	-0.1	0.0	0.0	64		
9.7	10	60	Rd2	Rd2	2	1.5	3	3	1.8	1.7	1.5	2	2	1.6	0.6	1.3	12.6	0.0	0.0	0.0	64		
9.8	9	16	161C2	161C2	2	1.8	2	2	0.9	1.3	1.7	2	1	0.7	0.6	0.9	8.8	0.1	0.1	0.1	62		
10.0	16	12	161D2	161D2	2	1.0	1	2	1.1	1.2	0.9	1	1	0.9	0.5	0.9	9.0	0.1	0.1	0.1	62		
10.2	4	51	BbB	BbB	4	3.1	3	3	1.7	1.2	3.1	3	2	1.7	0.8	0.4	4.1	0.0	0.0	0.0	64		
10.6	9	44	DnC2	DnC2	5	2.7	3	11	8.9	1.7	2.8	3	9	8.2	1.2	1.2	12.7	-0.1	0.0	0.0	63		
10.9	9	24	KeB	SmC2	5	1.1	1	2	1.3	0.9	1.1	1	1	1.2	0.2	0.8	8.7	0.0	0.0	0.0	62		

2019 Phosphorus Report - Manure Stacking/Composting

Field	Acres	Slope	Soil Test P PPM	Predominant Soil Used	Critical Soil Loss for the field	Winter Manure Application			Non-Frozen Stacking			Frozen Stacking			Annual P change per acre	Annual P change for field	Change in actual soil loss	Yahara Stream Reach field is located	
						Rotat. PI	Annual PI	Part. PI	Soluble PI	Actual Soil Loss	Rotat. PI	Annual PI	Part. PI	Soluble PI					
11.9	9	19	SmC2	SmC2	5	1.1	1	2	1.1	0.8	1.1	1	1	0.8	0.1	1.0	11.9	0.0	62
12.2	16	46	TrB	MdD2	5	3.8	7	3	1.8	1.2	3.6	7	2	1.8	0.6	0.6	7.3	0.2	64
12.6	4	166	PoB	WrB	3	3.0	7	6	3.0	3.4	3.0	7	4	2.5	1.3	2.6	32.8	0.0	64
12.7	16	18	MdD2	MdD2	5	2.8	4	7	3.8	3.5	2.8	3	4	3.6	0.5	3.2	40.6	0.0	64
13.0	9	46	MdC2	McC2	5	2.9	4	4	2.7	1.2	2.9	4	3	2.6	0.5	0.8	10.4	0.0	63
13.2	16	12	161C2	161D2	2	0.3	1	1	0.1	0.9	0.3	1	1	0.1	0.3	0.6	7.9	0.0	62
13.4	4	77	HuB	HuB	5	1.1	2	5	1.6	3.7	1.1	2	2	1.2	0.8	3.3	44.2	0.0	64
13.5	9	101	KdC2	KdC2	5	3.1	2	2	0.6	1.4	3.0	2	1	0.5	0.8	0.7	9.5	0.1	64
13.8	16	56	MdD2	MdD2	5	1.8	3	2	1.2	0.9	1.8	3	2	1.1	0.4	0.6	8.3	0.0	62
13.9	8	106	PnA	GwC	5	1.2	2	3	1.5	1.5	1.2	2	2	1.2	0.9	0.9	12.5	0.0	64
14.3	9	53	HuB	PnC2	5	1.8	3	6	2.6	3.5	1.8	3	2	1.9	0.6	3.6	51.5	0.0	64
14.3	9	27	KdD2	SvC2	5	0.0	1	2	0.0	2.0	0.0	1	0	0.0	0.4	1.6	22.9	0.0	64
14.4	9	30	MdC2	DnC2	5	4.5	5	8	6.1	1.5	4.3	5	6	4.9	0.8	1.9	27.4	0.2	62
14.5	4	65	PnA	PnB	5	0.0	0	0	0.0	0.3	0.0	0	0	0.0	0.3	0.0	0.0	0.0	64
14.6	9	27	TrB	McC2	5	4.8	5	9	7.3	1.2	4.5	5	6	5.7	0.6	2.2	32.1	0.3	64
15.5	8	66	KdC2	KdC2	5	2.4	3	3	1.7	1.0	2.4	2	2	1.7	0.5	0.5	7.8	0.0	64
15.8	16	27	MdD2	MdD2	5	2.9	5	8	4.9	3.5	2.9	5	6	4.7	0.9	2.8	44.2	0.0	64
16.0	4	240	ScB	ScB	5	2.2	2	3	2.5	0.9	2.1	2	3	2.4	0.3	0.7	11.2	0.1	66
16.1	9	18	PnB	PnC2	5	3.8	4	2	1.3	0.7	3.5	3	1	0.9	0.2	0.9	14.5	0.3	64
16.3	9	114	PnC2	WxC2	3	1.8	3	3	0.8	1.8	1.8	3	2	0.8	1.1	0.7	11.4	0.0	64
16.7	4	43	ScB	DbB	5	1.1	2	1	0.2	1.1	1.1	2	1	0.2	0.4	0.7	11.7	0.0	63
17.1	9	68	RnC2	RnC2	5	1.3	3	6	3.6	2.9	1.3	3	4	2.9	1.0	2.6	44.5	0.0	64
17.3	9	32	PnB	PnC2	5	1.0	1	1	0.5	0.6	0.9	1	1	0.3	0.3	0.5	8.7	0.1	64
17.4	28	44	KrE2	KrE2	5	4.7	5	8	6.4	1.5	4.8	5	6	5.5	0.2	2.2	38.3	-0.1	64
17.5	9	22	BbB	DsC2	3	1.7	2	3	1.7	1.0	1.6	2	2	1.7	0.4	0.6	10.5	0.1	62
18.3	4	81	PnB	PnB	5	1.4	2	5	3.3	1.3	1.3	2	4	2.6	1.0	1.0	18.3	0.1	64
18.6	15	58	KrD2	KrD2	5	3.8	4	2	1.0	1.2	3.8	4	1	0.9	0.5	0.8	14.9	0.0	64
18.8	4	48	PnB	PnB	5	2.2	3	3	1.6	1.2	2.1	3	2	1.1	0.5	1.2	22.6	0.1	64
20.1	9	22	MdC2	McC2	5	5.0	6	10	9.1	1.2	4.8	5	8	7.2	0.6	2.5	50.3	0.2	64
20.6	16	12	161D2	161D2	2	0.3	1	1	0.1	0.9	0.3	0	0	0.1	0.3	0.6	12.4	0.0	62
21.4	4	175	PoA	BsB	4	2.7	5	12	10.5	2.1	2.5	5	8	6.5	1.6	4.5	96.3	0.2	64
21.5	4	115	ScB	ScB	5	2.3	3	2	0.6	1.2	2.2	2	1	0.5	0.9	0.4	8.6	0.1	64
22.4	16	47	SmB	MdD2	5	2.2	2	3	2.5	0.9	2.1	2	3	2.4	0.3	0.7	15.7	0.1	62
23.7	16	65	ScC2	KdD2	5	3.6	4	4	3.2	1.3	3.6	3	4	2.9	0.6	1.0	23.7	0.0	63
24.0	2	48	RaA	RaA	5	0.5	2	2	0.7	1.4	0.4	2	2	0.6	1.5	0.0	0.0	0.1	62
24.4	9	48	ScB	McC2	5	4.2	5	5	4.8	0.5	4.1	5	5	4.8	0.5	0.0	0.0	0.1	62
24.7	2	151	TrB	TrB	5	2.4	6	8	3.6	4.4	2.4	5	5	2.9	1.7	3.4	84.0	0.0	64
26.1	9	29	SmC2	SmC2	5	1.7	2	2	1.6	0.7	1.4	2	1	0.9	0.2	1.2	31.3	0.3	62
26.1	16	10	161C2	161D2	2	0.3	1	1	0.2	0.9	0.3	0	0	0.2	0.1	0.8	20.9	0.0	62
26.2	4	45	PnB	PnB	5	2.0	3	3	1.9	0.9	2.0	3	3	1.9	0.9	0.0	0.0	0.0	64
27.3	9	160	DnB	DnC2	5	2.7	4	5	1.1	4.0	2.7	4	2	1.1	1.1	2.9	79.2	0.0	64
27.7	4	120	TrB	ScB	5	1.4	3	4	2.0	2.3	1.4	2	3	1.9	1.0	1.4	38.8	0.0	62

Appendix 6 – Multiple Practices

2019 Phosphorus Report - Multiple Practices																
Yahara Stream Reach	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil Loss for the field	Without Practices				With Practices						
						Actual Soil Loss	Rotat. P	Annual P	Part. P	Soluble P	Actual Soil Loss	Rotat. P	Annual P	Part. P	Soluble P	
64	1.3	32.5	82	RnC2	SoE	1	6.4	11	33	31.2	2.3	1.3	3	4	3.1	1.4
63	3.0	4	55	BbB	BbB	4	2.6	4	7	6.7	0.4	1.7	2	3	2.6	0.3
64	4.1	4	76	DnB	DnB	5	3.8	6	12	9.3	2.6	3.3	5	6	4.3	2.0
64	4.3	9	68	BbC2	BbC2	4	1.5	2	2	1.2	0.9	1.3	2	2	0.7	0.9
64	4.8	4	310	BbB	BbB	4	4.2	9	14	11.4	2.5	3.3	7	9	6.3	2.9
64	5.7	9	74	DnC2	DnC2	5	4.9	7	13	11.5	1.1	3.0	5	3	2.6	0.7
64	5.9	9	30	BbB	BbC2	4	4.0	4	4	3.0	1.1	2.1	3	2	1.1	1.2
63	6.1	2	30	TrB	TrB	5	1.7	2	3	2.9	0.5	1.1	1	1	1.0	0.2
64	6.4	4	84	PnB	PnB	5	2.4	5	10	8.4	2.0	1.8	4	5	3.9	1.5
63	6.5	16	83	DnD2	DnD2	3	4.1	5	12	11.2	0.7	2.0	3	7	6.0	0.6
64	6.5	9	42	WrC2	WrC2	3	4.1	5	11	9.9	0.7	1.7	3	1	1.1	0.2
63	6.9	4	31	PnB	PnB	5	4.3	6	7	7.0	0.3	3.5	5	5	4.5	0.2
64	7.3	4	119	PnB	PnB	5	2.3	6	10	8.6	1.6	1.7	4	6	4.7	1.3
64	7.4	1	69	Ho	Ho	5	1.3	2	2	1.3	0.9	0.6	2	1	0.6	0.9
66	7.5	9	63	KdC2	KdC2	5	2.3	3	3	2.7	0.4	0.9	1	0	0.1	0.3
64	8.4	2	65	Wa	VWA	4	1.6	4	6	3.7	1.9	1.1	3	1	0.6	0.8
64	8.4	4	53	VWA	BbB	4	1.3	2	2	1.8	0.7	0.9	2	2	0.8	0.7
63	8.7	9	64	RnC2	RnC2	5	2.9	4	5	4.7	0.4	1.9	3	3	2.7	0.3
63	8.7	4	140	BbB	BbB	4	3.4	5	7	6.5	0.8	2.7	3	3	2.6	0.8
63	9.0	7	147	KdC2	KdC2	5	3.4	4	5	3.7	1.1	2.7	3	3	2.0	0.9
64	9.1	15	55	RnC2	GwD2	4	2.4	3	6	5.6	0.3	0.7	1	1	1.3	0.2
64	9.1	4	140	GsB	GsB	5	3.7	9	16	13.2	2.8	3.2	8	8	6.1	2.0
64	9.5	4	104	RnB	PnB	5	4.8	3	3	1.8	1.1	4.4	2	2	1.3	1.0
64	9.5	9	54	PnB	MdC2	5	4.4	4	9	9.0	0.4	2.5	2	2	2.0	0.3
64	9.9	4	56	PnB	PnB	5	2.7	3	5	4.7	0.5	2.2	3	2	2.0	0.3
64	10.0	2	92	PnB	PnB	5	1.5	3	4	2.9	1.2	1.3	2	2	1.9	0.9
64	10.0	9	63	RaA	DnC2	5	4.4	5	15	13.4	1.4	2.4	3	3	2.1	0.4
66	10.0	9	150	DnC2	DnC2	5	1.1	2	4	3.4	1.0	0.2	1	1	0.2	0.7
63	10.1	9	24	PnC2	PnC2	5	4.8	5	10	9.7	0.1	3.0	3	6	5.6	0.1
63	10.2	4	51	BbB	BbB	4	3.6	3	5	5.2	0.4	2.3	2	2	1.9	0.4
64	10.3	4	66	TrB	DnB	5	2.1	4	7	5.1	2.3	1.7	3	4	2.2	1.8
63	10.6	9	42	RbB	DsC2	3	3.1	3	7	6.8	0.2	2.2	2	5	4.4	0.2
64	10.6	4	45	PoB	PoB	4	2.2	3	6	5.7	0.7	1.1	2	1	0.8	0.6
64	11.1	9	46	BbB	DsC2	3	2.1	3	5	3.6	1.3	1.4	2	2	1.2	1.0
64	11.3	4	136	EgA	BbB	4	2.3	7	15	12.5	2.3	1.8	6	8	5.7	1.8
64	12.1	9	74	RoC2	RoC2	2	2.7	4	6	5.0	0.9	1.6	2	2	1.5	0.7

2019 Phosphorus Report - Multiple Practices																			
		Without Practices						With Practices						With 2 Practices		Individual Practices		Benefit of two practices	
Yahara Stream Reach	Acres	Actual	Soil	Rotat.	Pi	Annual	Part.	Soluble	Actual	Soil	Rotat.	Annual	Part. Pi	Soluble	Cover Crop P change per acre	Tillage P change per acre	Cover Crop Alone	Strip Till Alone	Annual P change for field
		Loss	Loss	Rotat.	Pi	Pi	Pi	Pi	Loss	Loss	Rotat.	Pi	Part. Pi	Pi	per acre	per acre	Alone	Alone	46
64	1.3	6.4	11	13	11.4	1.3	1.3	3	2.0	1.3	29.0	9.4	6.7	7.4	24.3	31.6			
63	3.0	2.6	4	7	7.1	0.4	1.7	2	4	3.3	4.2	3.7	2.8	1.3	3.8			11.4	
64	4.1	3.8	6	6	4.8	1.7	3.3	5	4	3.2	0.9	5.6	2.4	5.2	2.3	0.5		2.1	
64	4.3	1.5	2	4	2.8	0.9	1.3	2	3	2.4	1.0	0.5	0.3	0.5	0.3	0.3		0.0	
64	4.8	4.2	9	5	3.5	1.8	3.3	7	6	2.9	2.8	4.7	-0.4	3.6	-0.6	1.3		6.2	
64	5.7	4.9	7	13	11.5	1.1	3.0	5	4	3.0	0.7	9.3	8.9	5.2	8.2	4.8		27.4	
64	5.9	4.0	4	5	4.0	0.6	2.1	3	3	2.8	0.6	1.8	1.2	0.6	1.0	1.4		8.3	
63	6.1	1.7	2	2	1.8	0.5	1.1	1	1	0.8	0.3	2.2	1.2	1.2	1.2	1.0		6.1	
64	6.4	2.4	5	7	6.2	1.0	1.8	4	5	4.3	0.8	5.0	2.1	4.9	1.6	0.6		3.8	
63	6.5	4.1	5	14	13.2	0.5	2.0	3	3	2.9	0.5	5.3	10.3	2.2	6.7	6.7		43.6	
64	6.5	4.1	5	4	3.4	0.4	1.7	3	2	1.5	0.2	9.3	2.1	4.6	1.5	5.3		34.5	
63	6.9	4.3	6	8	7.2	0.3	3.5	5	5	4.5	0.2	2.6	2.8	2.1	2.6	0.7		4.8	
64	7.3	2.3	6	7	5.5	1.1	1.7	4	5	4.1	1.2	4.2	1.3	2.0	0.5	3.0		21.9	
64	7.4	1.3	2	2	0.9	0.9	0.6	2	2	0.7	0.9	0.7	0.2	0.3	0.3	0.3		2.2	
66	7.5	2.3	3	3	2.5	0.3	0.9	1	0	0.1	0.4	2.7	2.3	1.7	2.5	0.8		6.0	
64	8.4	1.6	4	6	2.9	2.9	1.1	3	5	2.4	2.3	4.2	1.1	2.7	0.7	1.9		16.0	
63	8.7	2.9	4	6	5.9	0.4	1.9	3	3	2.7	0.3	2.1	3.3	1.0	4.5	-0.1		-0.9	
63	8.7	3.3	4	7	5.6	1.1	2.7	3	4	3.4	1.0	3.9	2.3	2.2	1.4	2.6		22.6	
63	9.0	2.9	3	4	2.8	1.0	2.7	3	4	2.7	1.0	1.9	0.1	1.6	2.1	-1.7		-15.3	
64	9.1	2.4	3	3	2.8	0.6	0.7	1	1	0.3	0.5	4.4	2.6	0.3	2.3	4.4		40.0	
64	9.1	3.7	9	12	9.9	1.8	3.2	8	9	7.5	1.4	7.9	2.8	2.7	7.5	0.5		4.6	
64	9.5	4.8	3	3	1.8	1.6	4.4	2	3	1.6	1.5	0.6	0.3	0.6	0.4	-0.1		-0.9	
64	9.5	4.4	4	3	2.5	0.4	2.5	2	2	1.3	0.3	7.1	1.3	4.7	0.9	2.8		26.6	
64	9.9	2.7	3	3	2.8	0.6	2.2	3	2	1.8	0.5	2.9	1.1	2.3	1.8	-0.1		-1.0	
64	10.0	1.5	3	3	2.0	1.1	1.3	2	2	1.4	0.9	1.3	0.8	0.6	0.8	0.7		7.0	
64	10.0	4.4	5	6	2.5	0.6	2.4	3	2	2.3	0.5	12.3	0.3	2.9	0.9	8.8		88.0	
66	10.0	1.1	2	1	0.9	0.7	0.2	1	1	0.2	0.7	3.5	0.7	0.1	0.3	3.8		38.0	
63	10.1	4.8	5	10	10.0	0.2	3.0	3	2	2.1	0.2	4.1	7.9	2.2	4.8	5.0		50.5	
63	10.2	3.6	3	4	3.9	0.6	2.3	2	1.5	0.4	3.3	2.6	2.7	2.5	0.7		7.1		
64	10.3	2.1	4	4	2.8	1.6	1.7	3	2	1.6	0.7	3.4	2.1	3.1	1.7	0.7		7.2	
63	10.6	3.1	3	8	7.6	0.3	2.2	2	3	3.2	0.3	2.4	4.4	1.7	1.9	3.2		33.9	
64	10.6	2.2	3	3	1.9	0.7	1.1	2	1	0.7	0.9	5.0	1.0	2.3	0.8	2.9		30.7	
64	11.1	2.1	3	8	7.0	1.0	1.4	2	3	1.8	1.7	2.7	4.5	1.2	3.9	2.1		23.3	
64	11.3	2.3	7	10	8.3	1.5	1.8	6	7	6.1	1.1	7.3	2.6	6.9	2.5	0.5		5.7	
64	12.1	2.7	4	7	6.0	1.0	1.6	2	2	1.3	0.7	3.7	5.0	1.8	4.5	2.4		29.0	

2019 Phosphorus Report - Multiple Practices																
Yahara Stream Reach	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Without Practices				With Practices						
						Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. PI	Annual PI	Part. PI	Soluble PI	Actual Soil Loss	Rotat. PI	Annual PI	Part. PI	Soluble PI
64	13.2	9	58	Roc2	Roc2	2	1.4	2	5	4.2	0.4	1.2	2	3	2.7	0.3
64	13.3	9	80	KeB	Dsc2	3	2.9	4	12	10.1	1.4	2.2	3	6	4.8	1.1
64	13.6	4	188	EgA	PoB	4	2.9	7	12	10.1	2.3	2.4	5	6	4.5	1.8
64	13.6	9	64	Roc2	Roc2	2	1.5	2	5	4.6	0.6	1.3	2	3	2.9	0.5
63	13.7	1.5	129	RaA	EgA	4	1.8	5	5	2.7	2.0	1.7	5	4	1.9	1.7
64	13.7	15	48	DnB	GwD2	4	3.5	3	4	3.3	0.3	2.8	2	1	1.0	0.2
64	13.7	9	42	RnC2	RnC2	5	2.1	3	3	2.9	0.5	1.6	2	2	1.9	0.4
64	13.9	4	166	TrB	KeB	3	2.3	5	12	9.5	3.2	1.9	4	6	4.4	1.9
64	14.0	9	98	PnC2	PnC2	5	2.8	5	8	7.1	1.4	2.3	4	4	3.3	1.0
64	14.0	2.5	60	EIB	EIB	5	1.2	3	3	2.2	1.0	1.0	2	2	0.9	0.8
64	14.1	9	155	WrC2	WrC2	3	2.9	7	13	10.7	2.0	2.5	6	10	8.2	1.9
64	14.1	8	43	GwC	GwC	5	1.7	3	5	3.4	1.3	1.4	3	3	1.6	1.0
64	14.4	9	30	MdC2	DnC2	5	4.3	5	11	9.0	2.1	3.5	4	6	4.4	1.5
64	14.5	10	57	DnC2	ScC2	5	5.6	7	18	17.1	1.1	3.4	4	3	3.0	0.3
64	14.5	4	25	DnB	DnB	5	3.1	5	11	8.8	1.8	2.4	4	5	4.0	1.1
64	14.7	4	65	PnB	PnB	5	0.8	1	2	1.3	0.5	0.6	1	1	0.8	0.4
63	15.1	9	76	PoA	BoC2	3	3.1	3	4	3.2	0.4	2.7	2	3	2.4	0.4
64	15.1	8	32	RnB	GwC	5	0.9	1	2	2.0	0.3	0.8	1	2	1.7	0.3
63	15.5	8	66	KdC2	KdC2	5	3.9	4	7	6.8	0.7	2.5	2	3	2.1	0.5
64	15.6	2	189	VrB	VrB	5	1.5	5	7	3.9	2.7	1.2	4	4	1.8	2.3
64	15.8	9	44	KdC2	KdC2	5	3.3	3	7	7.0	0.3	2.6	2	6	5.2	0.3
63	16.0	9	154	DnD2	DnD2	3	3.2	6	8	6.5	1.6	2.5	5	5	3.6	1.3
64	16.4	9	22	PnB	GwC	5	2.0	1	1	1.1	0.1	1.4	1	1	1.0	0.1
64	16.6	9	35	RnC2	PnC2	5	4.3	5	11	10.5	0.3	2.6	3	4	3.6	0.2
64	16.6	9	31	DsC2	DsC2	3	3.3	3	7	6.4	0.3	2.3	2	3	2.4	0.2
63	16.8	4	81	BbB	WrB	3	2.0	4	4	3.8	0.6	1.3	3	3	2.1	0.5
64	17.0	16	68	WrC2	1180D2	1	2.0	3	14	13.2	0.8	1.5	3	8	7.3	0.8
63	17.1	9	82	RaA	DsC2	3	3.6	6	7	6.5	0.6	2.6	5	5	4.3	0.5
64	17.1	9	68	RnC2	RnC2	5	1.5	3	9	6.3	2.3	1.2	2	4	2.6	1.7
64	17.3	9	18	RnB	RnC2	5	2.3	2	5	5.2	0.1	1.8	2	3	3.2	0.1
64	17.8	8	52	PnB	GwC	5	2.9	3	5	4.3	0.4	2.0	2	2	1.7	0.3
64	18.2	4	68	RnB	PnB	5	2.0	4	9	7.2	1.5	1.5	3	5	3.3	1.3
64	18.8	4	48	PnB	PnB	5	2.1	3	4	3.4	0.3	1.6	2	1	1.2	0.2
64	18.9	9	13	PnA	GwC	5	3.4	5	9	7.5	1.5	2.3	3	4	3.4	1.0
64	19.1	9	45	PnA	GwC	5	3.4	6	10	8.7	1.7	2.3	4	5	4.0	1.3
64	19.5	8	84	PnB	GwC	5	3.0	3	2	1.7	0.3	2.5	2	2	1.6	0.4

2019 Phosphorus Report - Multiple Practices												2019					
Yahara Stream Reach	Acres	Without Practices				With Practices				With 2 Practices		Individual Practices		Benefit of two practices	Annual P change for field		
		Actual Soil Loss	Rotat. Pl	Annual Pl	Part. Pl	Soluble P	Actual Soil Loss	Rotat. Pl	Annual Pl	Part. Pl	Soluble P	Cover Crop P change per acre	Tillage P change per acre	Cover Crop Alone	Strip Till Alone		
64	13.2	1.2	2	2	1.1	0.5	1.4	2	1	0.6	0.4	-1.6	0.6	1.7	0.6	-3.3	-43.6
64	13.3	2.9	4	5	4.2	0.8	2.2	3	3	3.0	0.5	5.6	1.5	5.4	1.4	0.3	4.0
64	13.6	2.9	7	10	7.9	1.7	2.4	5	7	5.5	1.3	6.1	2.8	5.7	2.2	1.0	13.6
64	13.6	1.3	2	2	1.1	0.6	1.5	2	1	0.5	0.5	-1.8	0.7	2.4	0.6	-4.1	-55.8
63	13.7	1.8	5	5	3.7	1.7	1.7	5	5	2.6	2.2	1.1	0.6	0.9	0.4	0.4	5.5
64	13.7	3.5	3	9	8.1	0.7	2.8	2	6	5.5	0.4	2.4	2.9	2.3	1.9	1.1	15.1
64	13.7	2.1	3	2	1.6	0.5	1.6	2	1	1.0	0.3	1.1	0.8	0.0	0.6	1.3	17.8
64	13.9	3.2	5	4	2.7	1.3	1.9	4	3	1.9	0.9	6.4	1.2	4.6	1.2	1.8	25.0
64	14.0	2.8	5	5	3.9	0.9	2.3	4	3	2.1	0.8	4.2	1.9	3.0	1.6	1.5	21.0
64	14.0	1.2	3	3	1.6	1.2	1.0	2	2	1.0	0.8	1.5	1.0	0.9	0.9	0.7	9.8
64	14.1	2.9	7	14	11.9	1.8	2.5	6	9	7.8	1.4	2.6	4.5	2.5	3.5	1.1	15.5
64	14.1	1.7	3	2	1.2	0.4	1.4	3	1	0.8	0.3	2.1	0.5	1.8	0.4	0.4	5.6
64	14.4	4.3	5	6	4.9	0.8	3.5	4	3	3.1	0.4	5.2	2.2	3.9	2.1	1.4	20.2
64	14.5	5.6	7	6	5.0	0.5	3.4	4	2	2.1	0.3	14.9	3.1	4.1	2.3	1.1	11.6
64	14.5	3.1	5	7	6.0	0.7	2.4	4	5	4.1	0.4	5.5	2.2	5.0	2.1	0.6	8.7
64	14.7	0.8	1	3	2.2	0.5	0.6	1	1	0.7	0.4	0.6	1.6	1.0	1.1	0.1	1.5
63	15.1	3.1	3	3	2.1	0.4	2.7	2	2	1.2	0.1	0.8	1.3	0.5	0.2	1.4	20.4
64	15.1	0.9	1	2	2.0	0.3	0.8	1	1	0.8	0.2	0.3	1.3	0.0	0.6	1.0	15.1
63	15.5	3.9	4	5	4.5	0.7	2.5	2	2	1.7	0.5	4.9	3.0	2.4	2.9	2.6	40.3
64	15.6	1.5	5	6	2.4	3.3	1.2	4	5	2.1	3.2	2.5	0.4	2.4	0.3	0.2	3.1
64	15.8	3.3	3	6	5.3	0.6	2.6	2	3	2.7	0.3	1.8	2.9	1.5	2.8	0.4	6.3
63	16.0	2.8	5	6	4.9	1.5	2.5	5	6	4.8	1.5	3.2	0.1	2.7	1.7	-1.1	-17.6
64	16.4	2.0	1	1	1.0	0.3	1.4	1	1	0.7	0.2	0.1	0.4	0.1	0.3	0.1	1.5
64	16.6	4.3	5	4	3.3	0.2	2.6	3	1	1.3	0.2	7.0	2.0	4.3	1.9	2.8	46.5
64	16.6	3.3	3	5	4.6	0.5	2.3	2	3	2.9	0.2	4.1	2.0	2.7	0.6	2.8	46.5
63	16.8	2.0	4	5	4.9	0.6	1.3	3	1	0.6	0.7	1.8	4.2	0.7	2.9	2.4	40.3
64	17.0	2.0	3	5	4.4	0.8	1.5	3	4	3.8	0.6	5.9	0.8	5.5	0.7	0.5	8.5
63	17.1	3.6	6	10	9.8	0.5	2.6	5	5	4.8	0.7	2.3	4.8	1.7	1.7	3.7	63.3
64	17.1	1.5	3	3	2.6	0.9	1.2	2	2	1.4	0.6	4.3	1.5	3.6	1.3	0.9	15.4
64	17.3	2.3	2	5	4.7	0.2	1.8	2	3	3.2	0.1	2.0	1.6	1.9	2.8	-1.1	-19.0
64	17.8	2.9	3	4	3.5	0.5	2.0	2	2	1.7	0.4	2.7	1.9	2.2	1.8	0.6	10.7
64	18.2	2.0	4	5	4.4	0.8	1.5	3	4	3.1	0.5	4.1	1.6	3.9	1.5	0.3	5.5
64	18.8	2.1	3	2	1.4	0.6	1.6	2	1	0.8	0.6	2.3	0.6	1.0	0.6	1.3	24.4
64	18.9	3.4	5	2	1.8	0.3	2.3	3	1	1.3	0.1	4.6	0.7	3.8	0.6	0.9	17.0
64	19.1	3.4	6	2	2.1	0.4	2.3	4	2	1.7	0.3	5.1	0.5	4.4	0.4	0.8	15.3
64	19.5	3.0	3	3	1.7	0.8	2.5	2	2	1.5	0.6	0.0	0.4	0.0	0.4	0.0	0.0

		2019 Phosphorus Report - Multiple Practices					Without Practices					With Practices				
Yahara Stream Reach	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. Pl	Annual Pl	Part. Pl	Soluble Pl	Actual Soil Loss	Rotat. Pl	Annual Pl	Part. Pl	Soluble Pl
				PnB	PnC2	5	6.2	2	2.0	0.4	4.7	2	1	0.9	0.3	5
64	19.7	9	69	PnB	PnC2	5	6.2	2	2.0	0.4	4.7	2	1	0.9	0.3	5
64	20.0	4	57	PoB	PoB	4	2.5	3	3.1	0.3	1.7	2	2	1.7	0.2	2
64	20.2	8	14	PnB	GwC	5	2.9	3	5	5.0	0.2	2.5	2	4	3.8	0.2
64	20.3	4	60	PoA	PoB	4	2.8	3	3	2.4	0.4	2.2	2	1	0.8	0.4
64	20.6	1	94	Wa	Wa	5	1.5	3	1.2	1.5	1.0	2	2	0.7	1.3	3
64	22.1	4	118	PoB	BbB	4	3.4	6	9	7.5	1.7	3.0	6	5	3.8	1.3
64	22.1	4	65	RnB	PnB	5	3.5	6	7	6.6	0.9	3.3	5	6	4.7	0.8
64	22.5	4	84	TrB	PoB	4	1.5	2	4	3.6	0.7	1.1	2	2	1.6	0.5
64	22.5	1.5	130	RaA	RaA	5	2.9	7	8	5.9	2.2	2.7	7	5	2.4	2.2
64	22.5	16	104	DnC2	MdD2	5	21.7	3	4	2.7	0.9	4.8	2	2	1.0	0.7
64	23.0	9	54	PnB	GwC	5	4.3	6	11	10.3	0.5	2.0	3	4	3.3	0.7
64	23.0	9	54	PnB	GwC	5	4.3	6	11	10.3	0.5	2.0	3	4	3.3	0.7
64	23.5	2	167	KeB	KeB	3	3.8	2	3	1.5	1.3	2.1	2	2	0.7	1.0
64	24.0	9	42	RnB	RnC2	5	2.9	3	6	5.1	1.1	2.7	3	5	3.7	1.0
64	24.7	2	151	TrB	TrB	5	2.5	6	10	6.3	3.5	2.2	5	5	2.9	2.5
64	26.5	4	148	PoB	DsB	3	1.5	4	6	2.8	1.4	0.5	1	1	0.7	0.8
64	26.7	1	47	Wa	Wa	5	0.2	2	3	0.1	2.5	0.1	2	3	0.1	2.6
64	26.8	9	65	VwA	BbC2	4	5.5	7	12	11.4	0.9	4.4	5	5	4.7	0.7
64	28.1	9	65	BbB	BcC2	3	3.0	2	3	1.4	1.3	2.3	2	2	0.9	1.1
64	28.1	9	70	PnB	RnC2	5	3.6	5	8	6.7	1.7	2.1	3	3	1.7	1.3
64	29.8	9	38	PoB	PnC2	5	2.9	3	4	3.4	0.2	1.9	2	1	0.9	0.1
64	31.2	2	71	TrB	TrB	5	0.6	2	5	3.0	2.3	0.5	2	3	1.3	0.7
64	32.3	9	20	DsC2	DsC2	3	3.4	3	4	4.1	0.3	3.1	3	3	2.6	0.3
64	32.5	9	49	GwC	RnC2	5	2.6	3	10	9.3	0.6	1.0	1	2	0.8	0.7
64	32.8	9	20	BbB	DnC2	5	3.8	5	6	4.0	1.7	1.6	3	3	1.3	1.5
63	36.9	12	93	DsC2	DsC2	5	4.7	6	11	10.2	0.9	3.4	5	6	5.4	0.7
64	37.4	16	59	ScB2	WxD2	2	7.8	3	6	4.4	1.8	2.0	1	3	1.5	1.3
64	39.7	4	117	HaA	DsB	3	3.5	2	3	1.0	1.5	1.2	1	2	0.3	1.2
64	43.0	4	81	PnB	PnB	5	2.0	4	11	8.5	2.1	1.5	3	5	3.4	1.5
63	44.1	5	99	ScB	ScB	5	3.6	4	8	7.4	1.0	2.1	3	3	2.0	2.7
64	58.0	4	89	PnB	PnB	5	2.7	4	7	5.4	1.4	2.5	4	5	3.9	1.2
69	104.3	1	39	PmA	PmA	4	0.5	0	0	0.3	0.1	0.4	0	0	0.1	0.2
69	115.0	4	22	PmA	PmB	4	1.3	1	1	0.8	2.0	0.2	0	0	0.1	0.1
69	155.5	9	19	DsC2	DsC2	3	2.2	3	2	1.7	0.3	0.3	0	0	0.2	0.2

2019 Phosphorus Report - Multiple Practices													2019						
		Without Practices					With Practices					With 2 Practices		Individual Practices					
Yahara Stream Reach	Acres	Actual	Soil	Rotat.	Pi	Annual	Part.	Soluble	Actual	Rotat.	Annual	Part. Pi	Soluble	Cover Crop P change per acre	Tillage P change per acre	Cover Crop Alone	Strip Till Alone	Benefit of two practices	Annual P charge for field
		Loss	Soil	Rotat.	Pi	Pl	Pl	Pl	Soil Loss	Pl	Pl	Pl	Pl	per acre	per acre	Alone	Alone	5.9	5.9
64	19.7	6.2	2	1	0.7	0.4	4.7	2	1	0.6	0.3	1.2	0.2	0.8	0.3	0.3	0.3	5.9	
64	20.0	2.5	3	2	1.9	0.4	1.7	2	1	1.1	0.3	1.5	0.9	1.2	0.8	0.4	0.4	8.0	
64	20.2	2.9	3	2	1.6	0.4	2.5	2	2	1.2	0.3	1.2	0.5	0.9	0.5	0.3	0.3	6.1	
64	20.3	2.8	3	3	2.2	0.4	2.2	2	2	1.6	0.4	1.6	0.6	1.2	0.6	0.4	0.4	8.1	
64	20.3	2.9	4	2	1.3	0.4	2.6	3	2	1.2	0.4	2.0	0.1	1.6	0.0	0.5	0.5	10.2	
64	20.6	1.5	3	3	0.9	1.6	1.0	2	2	0.7	1.3	0.7	0.5	0.6	0.5	0.1	0.1	2.1	
64	22.1	3.4	6	3	2.3	1.1	3.0	6	3	1.9	0.7	4.1	0.8	4.0	0.8	0.1	0.1	2.2	
64	22.1	3.5	6	3	2.2	0.4	3.3	5	3	2.0	0.5	2.0	0.1	1.1	0.6	0.4	0.4	8.8	
64	22.5	1.5	2	2	1.5	0.5	1.1	2	1	0.8	0.4	2.2	0.8	1.2	0.8	1.0	1.0	22.5	
64	22.5	2.9	7	6	3.2	2.5	2.7	7	6	4.4	2.0	3.5	-0.7	1.3	1.0	0.5	0.5	11.3	
64	22.5	21.7	3	3	2.7	0.8	4.8	2	2	1.0	0.7	1.9	1.8	0.8	0.9	2.0	2.0	45.0	
64	23.0	4.3	6	8	7.2	0.3	2.0	3	3	2.6	0.5	6.8	4.4	1.0	4.1	6.1	6.1	140.3	
64	23.5	3.8	2	3	1.2	1.5	2.1	2	2	0.8	1.2	1.1	0.7	0.5	0.8	0.5	0.5	11.8	
64	24.0	2.9	3	6	5.0	0.7	2.7	3	4	3.3	0.4	1.5	2.0	1.4	1.9	0.2	0.2	4.8	
64	24.7	2.5	6	4	2.6	1.7	2.2	5	3	1.8	1.6	4.4	0.9	4.3	0.8	0.2	0.2	4.9	
64	26.5	1.5	4	2	1.0	0.8	0.5	1	1	0.5	0.8	2.7	0.5	2.3	0.3	0.6	0.6	15.9	
64	26.7	0.2	2	2	0.1	1.5	0.1	2	2	0.1	1.6	-0.1	0.2	-0.1	-0.1	-0.3	-0.3	-8.0	
64	26.8	5.5	7	12	10.7	0.9	4.4	5	8	7.0	0.6	6.9	4.0	6.2	3.8	0.9	0.9	24.1	
64	28.1	3.0	2	1	0.6	0.8	2.3	2	1	0.5	0.5	0.7	0.4	0.6	0.6	-0.1	-0.1	-2.8	
64	28.1	3.6	5	6	5.9	0.4	2.1	3	3	1.9	0.6	5.4	3.8	1.8	0.9	6.5	6.5	182.7	
64	29.8	2.9	3	7	6.2	0.5	1.9	2	4	3.8	0.4	2.6	2.5	2.6	1.6	0.9	0.9	26.8	
64	31.2	0.6	2	2	1.2	0.8	0.5	2	1	0.8	0.5	3.3	0.7	2.0	0.7	1.3	1.3	40.6	
64	32.3	3.4	3	2	1.8	0.3	3.1	3	1	1.1	0.1	1.5	0.9	1.2	0.3	0.9	0.9	29.1	
64	32.5	2.6	3	4	3.4	0.2	1.0	1	1	0.4	0.4	8.4	2.8	1.6	1.2	8.4	8.4	273.0	
64	32.8	3.8	5	6	5.6	0.6	1.6	3	3	2.2	1.1	2.9	0.9	0.5	0.4	4.4	4.4	144.3	
63	36.9	3.9	5	8	7.0	0.8	3.4	5	6	5.4	0.7	5.0	1.7	4.2	1.6	0.9	0.9	33.2	
64	37.4	7.8	3	2	1.7	0.5	2.0	1	1	0.5	0.4	3.4	1.3	0.1	3.7	0.9	0.9	33.7	
64	39.7	3.5	2	2	0.7	1.2	1.2	1	2	0.4	1.2	1.0	0.3	0.4	0.6	0.6	0.6	23.8	
64	43.0	2.0	4	4	3.3	0.8	1.5	3	3	2.2	0.6	5.7	1.3	3.9	1.2	1.9	1.9	81.7	
63	44.1	3.6	4	6	4.8	0.8	2.1	3	3	2.0	0.6	3.7	3.0	2.8	3.2	0.7	0.7	30.9	
64	58.0	2.7	4	7	6.2	1.1	2.5	4	5	4.6	0.8	1.7	1.9	1.6	1.9	0.1	0.1	5.8	
69	104.3	0.5	0	1	0.8	0.1	0.4	0	0	0.1	0.1	0.1	0.7	0.2	0.1	0.5	0.5	52.2	
69	115.0	1.3	1	3	3.0	0.1	0.2	0	0	0.1	0.1	2.6	2.9	0.3	0.6	4.6	4.6	529.0	
69	155.5	2.2	3	7	6.7	0.3	0	0	0.2	0.2	1.6	6.6	0.6	1.3	1.3	6.3	6.3	979.7	

		2019 Phosphorus Report - Multiple Practices					Without Practices								With Practices							
Yahara Stream Reach	Acres	Slope	Soil Test P PPM	Predominant Soil used	Critical Soil used	Tolerable Soil Loss for the field	Actual Soil Loss	Rotat. Pl	Annual Pl	Part. Pl	Soluble Pl	Actual Soil Loss	Rotat. Pl	Annual Pl	Part. Pl	Soluble Pl						
2019 Yahara Pride Multiple Practices Cost Share Program																						
Acres	2133.3																					
Phosphorus Reduction by sub-watershed																						
Fields		Reach	Pounds P	Acres	# Fields																	
	107		63	380.1	255.0	18																
			64	2145.3	1486	84																
Farms	16		66	44	17.5	2																
			69	1560.8	374.8	3																
				4130.2	2133.3	107																
Average phosphorus reduction from multiple practices																						
Total phosphorus reduction from multiple practices																						

2019 Phosphorus Report - Multiple Practices																	
			Without Practices				With Practices				Individual Practices						
Yahara Stream Reach	Acres	Actual Soil Loss	Rotat. Pl	Annual Pl	Part. Pl	Soluble Pl	Actual Soil Loss	Rotat. Pl	Annual Pl	Part. Pl	Soluble Pl	Cover Crop P change per acre	Tillage P change per acre	Cover Crop Alone	Strip Till Alone	Benefit of two practices	Annual P change for field
2019 Yahara Pride M																	
Acres	2133.3																
Average phosphorus reduction from multiple practices												1.8					
Fields	107																
Total phosphorus reduction from multiple practices												4130.2					
Farms	16																
Maximum P reduction												24.3					
Minimum P reduction												-4.1					
Average phosphorus reduction																	
Total phosphorus reduction fro																	