



**Jeff Endres, Chairman,
Yahara Pride Farms Board of Directors**



YPF Vision for the Future

- Cleaner water
- Viability of agriculture
- Open space to enjoy by all
- Secure funds so that we can engage more farmers



Cover Crops



	Total Acres Enrolled	Cost Share Acres Incentivized	Total Acres NOT Incentivized	Cost Share Dollars Awarded	Total Unfunded	Grand Total Farmer Investment - Cover Crops
2020	7,445	3,447	3,998	\$160,730	\$189,700	\$350,430
2019	5,903	1,864	4,039	\$100,799	\$218,416	\$319,215
2018	7,294	1,562	5,732	\$62,480	\$229,280	\$291,760
2017	4,483	1,365	3,118	\$54,600	\$124,720	\$179,320
2016	5,851	1,903	3,948	\$76,120	\$157,920	\$234,040
2015	4,908	1,390	3,518	\$55,600	\$140,720	\$196,320
2014	4,732	1,329	3,403	\$53,160	\$136,120	\$189,280
2013	2,382	1,000	1,382	\$40,000	\$55,280	\$95,280

**Cover crop cost share in 2020 was changed to allow a payment of \$30/acre for non-overwintering and \$50/acre for overwintering cover crops*

**46.3% of acres covered by cost share dollars, 53.7% not covered*



Low Disturbance Manure Injection

	Total Acres Enrolled	Cost Share Acres Incentivized	Total Acres NOT Incentivized	Cost Share Dollars Awarded	Total Unfunded	Grand Total Farmer Investment: LDMI
2020	6,392	2,033	4,359	\$ 40,660	\$87,180	\$127,840
2019	7,103	1,655	5,448	\$ 33,100	\$108,960	\$142,060
2018	3,945	1,206	2,739	\$ 24,120	\$54,780	\$78,900
2017	3,885	1,378	2,507	\$ 27,560	\$50,140	\$77,700
2016	1,203	593	610	\$ 11,860	\$12,200	\$24,060
2015	566	140	426	\$ 2,800	\$8,520	\$11,320
2014	848	273	575	\$ 5,460	\$11,500	\$16,960
2013	321	220	101	\$ 9,340	\$2,550	\$11,890



**31.8% of acres covered by cost share dollars, 68.2% not covered
2020 payout = \$20 per acre up to 100 acres, maximum payment of \$2,000/farm*



Low Disturbance Deep Tillage + Cover Crops

	Total Acres Enrolled	Cost Share Acres Incentivized	Total Acres NOT Incentivized	Cost Share Dollars Awarded	Total Unfunded	Grand Total Farmer Investment: LDDT + CC
2020	994	620	374	\$34,100	\$20,570	\$54,670
2019	550	355	195	\$19,525	\$10,725	\$30,250
2018	448	325	123	\$17,875	\$6,765	\$24,640
2017	956	448	508	\$24,640	\$27,940	\$52,580
2016	730	378	352	\$20,790	\$19,360	\$40,150

62.4%% of acres covered by cost share dollars, 37.6% not covered
 2020 payout = \$55 per acre up to 50 acres



Strip Tillage



	Total Acres Enrolled	Cost Share Acres Incentived	Total Acres NOT Incentivized	Cost Share Dollars Awarded	Total Unfunded	Grand Total Farmer Investment: Strip Tillage
2020	2,833	700	2,133	\$10,500	\$31,995	\$ 42,495
2019	1858	300	1558	\$6,000	\$31,160	\$ 37,160
2018	2422	300	2122	\$6,000	\$42,440	\$ 48,440
2017	1829	195	1634	\$3,900	\$32,680	\$ 36,580
2016	917	165	752	\$3,300	\$15,040	\$ 18,340
2015	1489	60	1429	\$1,200	\$28,580	\$ 29,780
2014	253	84	169	\$1,680	\$3,380	\$ 5,060
2013	156	60	96	\$1,096	\$0	\$ 1,096

**24.7% of acres covered by cost share dollars, 75.3% not covered*

2020 Payout = \$15 per acre up to 100 acres (Maximum payment of \$1,500/farm).



Winter Headland Stacking

Year	2016	2017	2018	2019	2020
	Stacking & Composting				Stacking
Farms	1	9	9	15	12
Fields	1	9	44	96	32
Acres	50.4	301	898	1632	816.8
Average (lbs/acre)	2.1	2.1	2	1.5	1.2
Total P reduction (In pounds)	106	665	1,855	2610	1,060.50



Compost



Year	2016	2017	2018	2019	2020
# of Farms	1	9	9	15	8
# of Fields	1	9	44	96	31
# of Acres	50.4	301	898	1632	441.8
Average (lbs/acre)	2.1	2.1	2	1.5	0.85
Total P Reduction	106	665	1,855	2610	338

2020 payout = \$12 per yard up to 500 yards

***Key findings from Two-Year Feasibility Study:**

Reviews of nutrient management plans submitted by participants documented a minimum of 0.8 – 1.8 lbs./ac./yr. reduction in phosphorus runoff (primarily dissolved P). Some fields showed a significantly higher reduction. Timing of application and nutrient form in the compost contributed to the reduction.



Deferred Kill Alfalfa

<i>Deferred Kill of alfalfa</i>	2020
Number of farms	26
Number of fields	82
Tillable acres in program	1,382.20
Average phosphorus reduction (lbs./acre)	1.87
Total phosphorus reduction (in pounds)	2,552.30

Summary of 2020 Yahara Pride Farms Deferred Kill Program			
		Yahara Stream Reach	Acres
Acres	1,382.2	62	55.3
Farms	26	63	257.4
Fields	82	64	1052.3
		66	
Average change in lbs/acre	1.87	67	17.2
Total Phosphorus Reduction	2,552.0	68	
Average Soil Loss Reduction	0.42	69	

Acres Cost Shared
878

Total Acres Planted
1,382

Acres Planted without Cost Share 504

Financial Investment of Cost Share \$ 26,340

Financial Investment by Farmers without Cost Share \$ 15,120



Seeding Grass with Alfalfa

<i>Seeding Grass with alfalfa</i>	2020
Number of farms	5
Number of fields	14
Tillable acres in program	147.5
Average phosphorus reduction (lbs./acre)	0.46
Total phosphorus reduction (in pounds)	66.5

Summary of 2020 Yahara Pride Farms Grass Seeding Program			
		Yahara Stream Reach	Acres
Acres	147.5	62	
Farms	5	63	
Fields	14	64	127.1
		66	
Average change in lbs/acre	0.46	67	20.4
Total Phosphorus Reduction	66.5	68	
Average Soil Loss Reduction	0.22	69	

Acres Cost Shared
116

Total Acres Planted
148

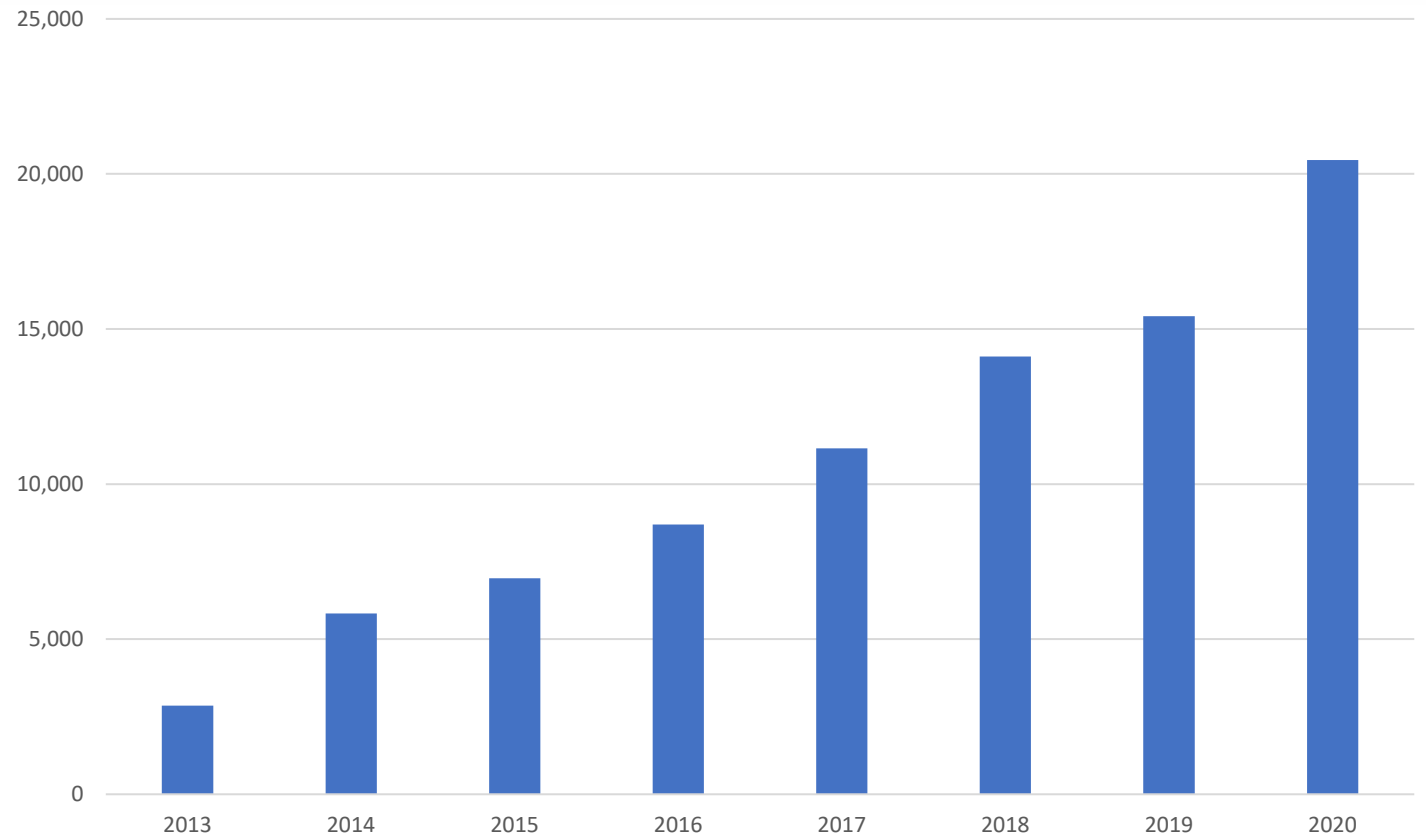
Acres Planted without Cost Share 32

Financial Investment of Cost Share \$ 2,900

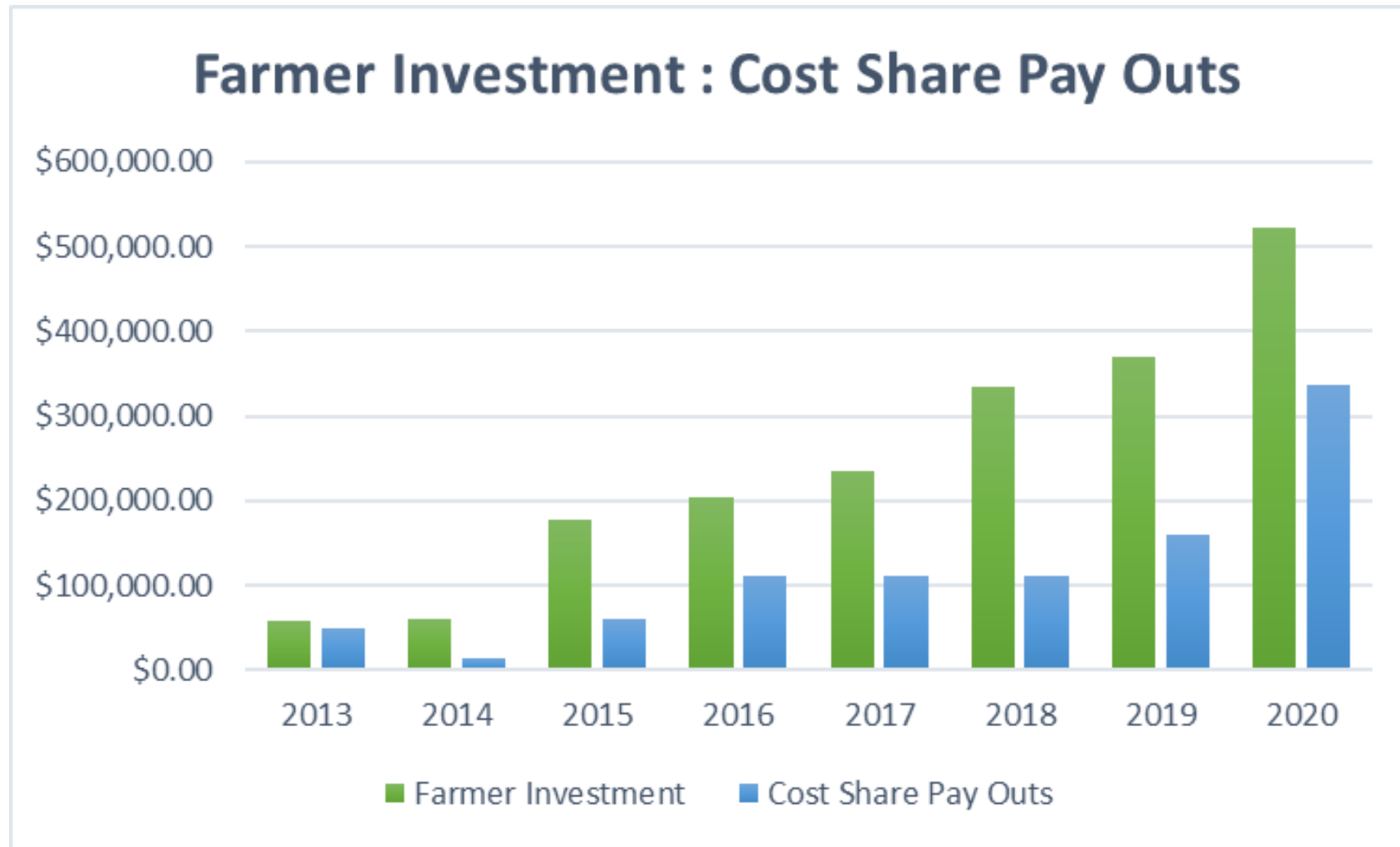
Financial Investment by Farmers without Cost Share \$ 800



Cost Share Acres Enrolled – Year Over Year Comparison



Cost Share Incentive Pay-Outs



Protect & Improve Surface Water

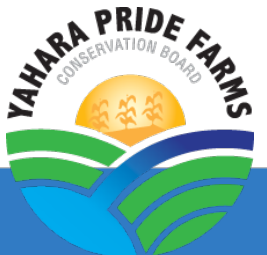
1 pound of Phosphorus = 500 pounds of blue-green algae

2020: 39,948.50 lbs predicted P reduction = *A reduction of 19,975,000 lbs of algae!*

***(Over 10,000 lbs from BOTH cover crops and LDMI)**

****Throughout the entirety of the YPF Cost-Share Program:***

137,109 lbs predicted P reduction = A reduction of 68,554,500 lbs of algae!





Striking A Balance between Urban and Agriculture





Endres Berryridge Overview

- Three equal partners and owners: Jeff, Steve and Randy Endres and their families
- Milk Purebred Holsteins
 - Herd average of 31,000 lbs of milk and 1,300 lbs of butterfat
- Manage 1,500 acres of cropland
 - Grow corn, alfalfa, grass, soybeans and wheat; extensively use cover crops and various conservation tillage practices
- Manure management includes composting, community manure digester, on-site liquid storage

The Composting Process



How Are We Composting Now



Where Can You Compost?



Where Can You Compost?



Types of Manure

Free Stall Scrapings



Bedding Pack



Separated Solids



Loading Different Types of Manure



Building Compost Windrows



Turning and Aerating



Finished Compost



Transporting and Staging Compost



Spreading Compost

