Iowa Conservation Reserve Enhancement Program (CREP)
2014 Annual Performance Report

Preface

The Iowa Conservation Reserve Enhancement Program (CREP) is a highly targeted, performance-based water quality program focusing on the reduction of nitrate loads to surface waters through the restoration of strategically designed and located wetlands that intercept tile drains from upper-lying cropped lands.

The following narrative and illustrated report details annual and cumulative performance accomplishments including a brief background, executive summary, accomplishments, and monitoring data. Table 1 and Table 2 summarize financial and active site data. Table 3 is a cumulative program summary.

Background:

Approved on August 17, 2001, the Iowa CREP is available in thirty-seven counties in the tile-drained region of North-Central Iowa. Wetland restoration is one of the most promising strategies for reducing nitrate transport to water resources from row-cropped lands, and research conducted at Iowa State University has demonstrated that strategically located and properly sized wetlands remove 40-90% of the nitrate in tile drainage from upper-lying croplands. The effect of wetlands on watershed scale nitrate reduction is largely determined by the watershed's total nitrate load that the wetlands intercept.

The Iowa CREP is available in thirty-seven counties in the tile-drained region of North-Central Iowa (Figure 1).

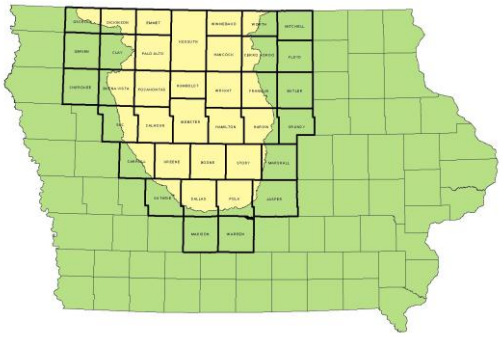

Figure 1. Counties eligible for the Iowa CREP

Practices eligible are wetland restoration (CP-23) and erosion control structures (CP-7), when needed as part of the wetland establishment.

Federal incentives include:

- 15 annual rental payments of 150% of the weighted average soil rental rate
- 50% cost-share for eligible costs of establishing conservation practices
- Practice Incentive Payment (PIP) up to 40% of the total eligible cost of practice installation.

State incentives include:

- Market based incentive payment for a 30-year or permanent easement (one time payment)
- 10% cost-share for restoration costs
- Survey, engineering, design, permitting, oversight, public bidding, title services

2014 Executive Summary:

The current method of valuing State easement payments to producers continues to be an effective means of providing market rate compensation to landowners enrolling in CREP. Without the market rate approach CREP enrollment would be markedly lower. The current costs of the State easements continue to increase as have land values which the easement rates are indexed to. The nominal 4:1 federal to state ratio of costs for the Iowa CREP has yet to be achieved as the large increases in State costs have outpaced relatively small increases in CRP payments due to the high land values currently being experienced across Iowa. Potential options to achieve a ratio closer to 4:1 by increasing the SRR multiplier for CRP payments have been proposed by IDALS; unfortunately FSA has advised that changes to the SRR multiplier cannot be made. FSA previously initiated discussion on potential performance incentives based on nutrient removal in the wetlands to help offset high State costs, but these discussions have not proceeded further at this time.

FSA soil rental rates were adjusted in 2014. The current soil rental rates were adopted July 16, 2014 and represent an average increase of 3.4% across the counties where CREP is offered.

The current field support staff level is at five part time positions through an existing service contract with the Iowa Drainage District Association. These field personnel have proven instrumental in helping to carry out the processes involved with CREP.

CRP Payment Limitations:

In the late fall of 2012, Iowa FSA advised IDALS that changes had been made with how CRP payment limitations are being applied to annual CRP payments under the program. The change made was that annual CRP payments are now counted towards the fiscal year that they are earned for and not applied to the fiscal year they are paid in. PIP payments are still applied to the fiscal year they are paid in. This change does not prevent overpayment on CRP contracts over their 15 year contract, but it does have serious implications for increasing both State and Federal costs associated with the Iowa CREP as well as potentially decreasing program participation.

Since inception of the CREP program, annual CRP payments administered by FSA have been applied to the federal fiscal year the payments are received in, and not applied to the federal fiscal year that they are earned for. IDALS has actively managed CREP projects to avoid having the PIP payment fall in the same federal fiscal year as the first CRP annual payment to landowners enrolling in CREP. Since the PIP payment alone (which is 40% of construction costs) often meets or exceeds the $50,000 payment limitation, it is imperative that projects are managed to avoid the overlap of PIP and CRP payments in the same federal fiscal year in order to avoid landowners having their first CRP payment significantly reduced or entirely eliminated. This arrangement has worked well in the past to minimize payment cap limitations by separating the PIP and CRP payments into separate fiscal years. It also allowed IDALS to offer a summer construction incentive to producers willing to not crop their land and build projects during summer months which offers advantages of cost savings (which accrue 90% to the Federal share) as well as more suitable weather conditions to build projects in.

The change in how CRP payments are handled has resulted in an unavoidable situation of having the PIP and CRP payments being applied to the same federal fiscal year, which causes the vast majority of program participants to greatly exceed the $50,000 payment cap limit on incentive payments in a fiscal year. This change has forced the State to eliminate its summer construction incentives and only bid projects for fall construction, due to the State having to cover payment cap overages in order to retain the integrity of the program with producers wishing to enroll. This change also eliminates cost savings provided by the State paid summer incentive and increases construction cost on projects (90% paid by FSA).

Beyond these implications for future CREP projects, a critical concern with this change is that in calendar year 2012, there were 12 CREP projects enrolled with CRP contract start dates of October 1, 2012 which were scheduled to receive their first CRP annual payments at the start of federal fiscal year 2014. These CRP contracts were executed by FSA prior to any knowledge of the changes in the way payment limitations under CRP would be applied to annual CRP payments, but to date none of these projects have received their annual CRP payments and are still awaiting resolution of a misaction/misinformation claim that has been sent to the national FSA headquarters seeking that they be provided the annual CRP payments they were promised.

IDALS requests that national FSA staff make satisfactory resolution of this situation a top priority and provide any guidance they can on this topic as soon as possible. We look forward to resolving this issue so that we can work to rebuild and maintain our relationships with the landowners on these projects going forward.

Program Cost Justification:

According to the 2014 Farmland Value Survey conducted by Iowa State University, the state average for all grades of land was estimated to be $7,943 per acre, a decrease of 8.9% from 2013. For medium to high grade land typical in the Des Moines Lobe, the range was $7,874 to $11,201 per acre. Since inception of the CREP program in 2001, the statewide average land value has risen from $1,926/acre to $7,943/acre, representing an increase of 4.1 times the value in 2001. (Duffy, Michael D. *2014 Iowa Farmland Value Survey*, Iowa State University Extension.)

Since inception of the new State incentive payments developed with the help of Iowa State University, interest in CREP has remained strong. To date, all of the State funds that have been appropriated for CREP are currently obligated and there is a nearly seven year waiting list of applicants for enrollment as soon as new State funds are available. There has also been a dramatic increase in the number of sites pursuing permanent easements.

Accomplishments:

2014 Wetland Restorations:

No new wetlands were constructed in 2014, but five wetland projects have requested CRP contracts to be executed in the near future and will be bid for construction to be completed in 2015. These wetlands have a combined total of 49 acres of wetland pool and 171 acres of buffer

plantings and will protect 5,355 acres of watersheds by removing an estimated 5,512 tons of nitrogen over their lifetimes.

This will bring the total wetlands restored up to 77 wetlands, with another 19 wetlands currently under development. Collectively these represent over 888 acres of wetland surrounded by over 3,100 acres of buffer which will protect over 121,600 watershed acres by removing nearly 100,000 tons of nitrogen over their lifetimes. The annual N removal capacity of these wetlands is over 1,300,000 pounds per year with N removal costs averaging $0.26/lb.

Wetland Seeding and Enhanced Design Plans:

Over the past ten years we have seen varied success rates for wetland vegetation establishment by the passive means that has been utilized to date. Programmatic limitations that do not authorize wetland seeding as a restoration expense under the FSA CP-23 wetland restoration practice have been the driving factor for utilizing a passive approach, but since the success with that approach has been hit and miss IDALS started an effort during 2012 to actively seed all past and present wetlands that have yet to develop emergent wetland vegetation to the extent we would like to see in all CREP sites. This will help to enhance their water quality performance as well as their habitat value, and also help to address the misperceptions of some groups that the Iowa CREP is building “ponds”, which is derived from some sites that have yet to establish emergent wetland vegetation throughout their shallow water areas and are mostly open water areas with submergent vegetation. Several dozen CREP wetlands have now had wetland seedings completed and vegetation survey work by Iowa State University has been underway in 2014 and planned for 2015 to assess the success of these seedings and make recommendations on future efforts.

The State has also moved forward with new design concepts that will help to provide temporary flood storage benefits while maintaining the high level of water quality performance already in place. IDALS has engaged in a collaborative process with the engineering consultants that design CREP sites and scientists at Iowa State University to further enhance the water quality performance of all CREP sites by identifying and incorporating design features that improve hydraulic efficiency, maximize wetland area, and increase the overall habitat value. Preliminary results from these minor structural modifications to the designs indicate that significantly improved nutrient removal performance is being achieved.

Program Evaluation

Tables 1 through 3 highlight site data, costs, and projected nitrate reductions. Cost per pound for N removed remains below the current cost per pound of fertilizer application to cropland, and considerably below reported cost/pound of N removal by municipal treatment plants. Data from ISU monitoring indicate Iowa CREP wetlands are a highly cost effective method for removing nitrate from tile-drained landscapes thus improving water quality in local streams, drinking water supplies, and the Gulf of Mexico.

Monitoring and Evaluation

A unique aspect of the Iowa CREP is that nitrate reduction is not simply assumed based on wetland acres enrolled, but is calculated based on the measured performance of CREP wetlands. As an integral part of the Iowa CREP, a representative subset of wetlands is monitored and mass balance analyses performed to document nitrate reduction. By design, the wetlands selected for monitoring span the 0.5% to 2.0% wetland/watershed area ratio range approved for Iowa CREP wetlands. The wetlands also span a 2 to 3 fold range in average nitrate concentration. The wetlands thus provide a broad spectrum of those factors most affecting wetland performance: hydraulic loading rate, residence time, nitrate concentration, and nitrate loading rate. In addition to documenting wetland performance, ongoing monitoring and research programs will allow continued refinement of modeling and analytical tools used in site selection, design, and management of CREP wetlands.

Summary of 2014 Monitoring

The results contained in this report, are preliminary in nature and may change as additional data is assessed to complete the 2014 monitoring year. Monitoring activities were conducted at 16 Iowa CREP wetlands and one mitigation wetland (DD15 north) during 2014 (Figure 5). Wetland monitoring included wetland inflow and outflow discharge, wetland pool elevation and water temperature measurements, and collection of weekly grab samples and daily composite samples. Daily composite samples were collected using automated samplers programmed to collect and composite four six-hour subsamples at wetland inflows and outflows when temperatures were sufficiently above freezing to allow the equipment to function properly. The LP, DD8, DD15S, DD15N, DD178 and DD48-81 wetlands were drawn down approximately 0.5-1.5 feet below full pool to help establish vegetation in the shallow portions of the wetland pools. The inflows to five of the monitored wetlands (DD8, DD48, DD81, DD178, DD65, and DD15N) are part of the Pilot Project to monitor phosphorus and nitrogen nutrient yields from the catchment area landscape. The expected outflow from the MS wetland in Floyd County was altered when the landowner removed several stoplogs sometime during late June or early July. According to the landowner, the MS wetland stoplogs were reinstalled on September 1, 2014.

Wetland inflow and/or outflow stations were instrumented with submerged area velocity (SAV) Doppler flow meters and stage recorders for continuous measurement of flow velocity and stream depth, respectively. The SAV measurements were combined with cross-sectional channel profiles and stream depth to calculate discharge as the product of water velocity and wetted cross-sectional area. Wetland water levels were monitored continuously using stage recorders in order to calculate pool volume, wetland area, and discharge at outflow structures. The pool discharge equations and SAV based discharge measurements were calibrated using manual velocity-area based discharge measurements collected during 2014 and prior monitoring years. Manual velocity-area discharge measurements were determined using the mid-section method whereby the stream depth is determined at 10 cm intervals across the stream and the water velocity is measured at the midpoint of each interval. Velocity was measured with a hand held Sontek Doppler water velocity probe using the 0.6 depth method where the velocity at 0.6 of the depth from the surface is taken as the mean velocity for the interval. The product of the interval velocity and area is summed over intervals to give the total discharge.

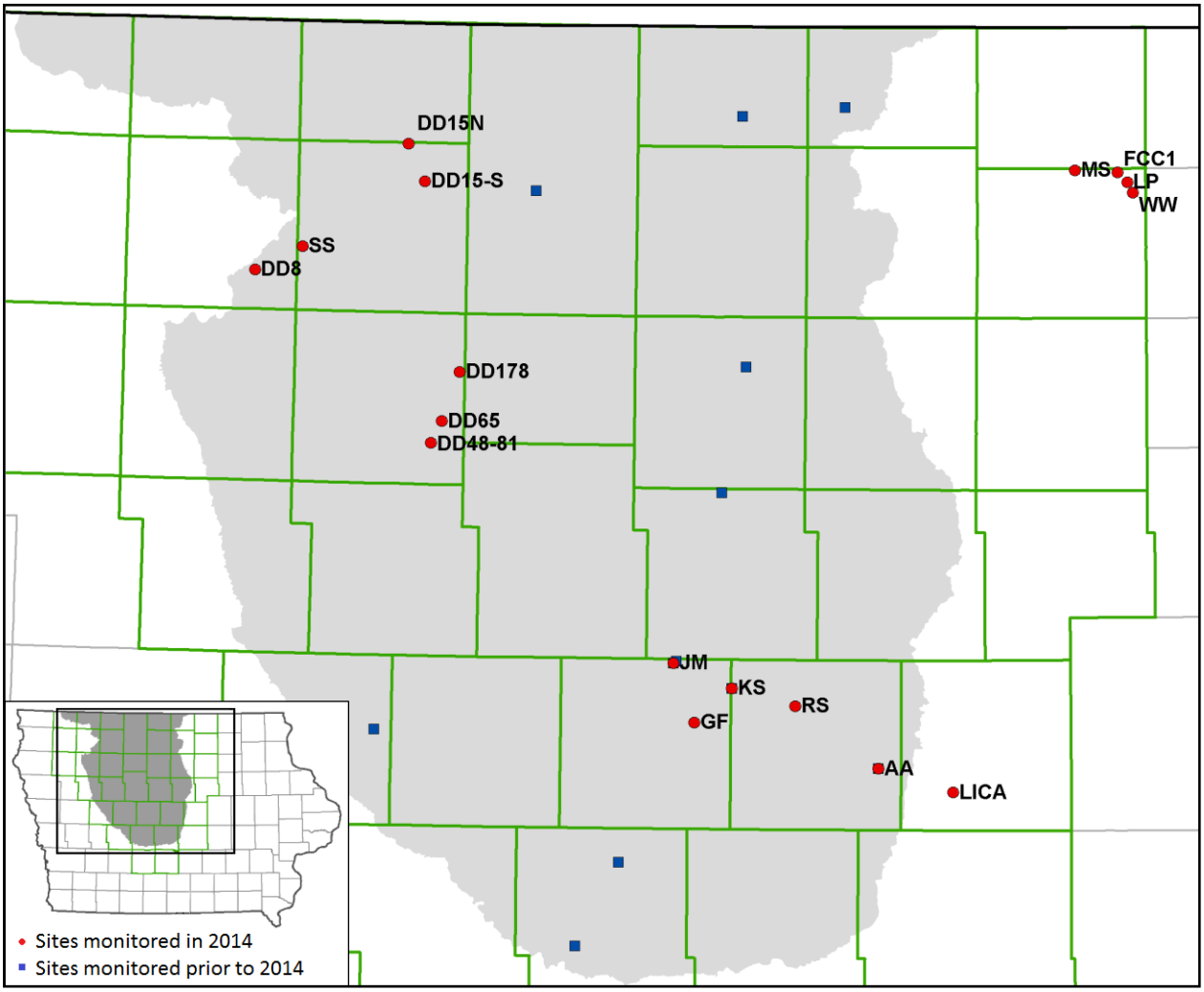

Figure 5. Wetlands monitored during 2014 (red circles, labeled) and wetlands monitored during prior years (blue squares). The shaded area represents the Des Moines Lobe in Iowa.

Patterns in Nitrate Concentrations and Loads

Despite significant variation with respect to nitrate concentration and loading rates, the wetlands display similar seasonal patterns and general relationships to varying discharge. Historically, nitrate concentrations are generally low to moderate during the winter. Spring snow-melt often results in increased flow during late February or March but nitrate concentrations in the melt water and associated surface runoff are typically low to moderate. During 2014, nitrate concentrations increased to their highest levels during increased flow periods generally from mid-April or May through July, and generally declined with declining flow in July and August. A nitrate concentration decline is often observed during very high summer flow events and is thought to be associated with surface runoff having low nitrate concentration; however, nitrate concentrations often rebound within a few days of these high flow events. These nitrate concentration and flow patterns are consistent with those of CREP wetlands monitored in prior years and represent the likely patterns for future wetlands restored as part of the Iowa CREP.

Patterns in Nitrate Loss from Wetlands

Wetland performance is a function of hydraulic loading rate, hydraulic efficiency, nitrate concentration, temperature, and wetland condition. Of these, hydraulic loading rate and nitrate concentration are especially important for CREP wetlands. The range in hydraulic loading rates expected for CREP wetlands is significantly greater than would be expected based on just the four fold range in wetland/watershed area ratio approved for the Iowa CREP. In addition to spatial variation in precipitation (average precipitation declines from southeast to northwest across Iowa), there is tremendous annual variation in both precipitation and water yield. The combined effect of these factors means that annual loading rates to CREP wetlands can be expected to vary by more than an order of magnitude, and will to a large extent determine nitrate loss rates for individual wetlands.

Mass balance analysis and modeling were used to calculate observed and predicted nitrate removal, respectively, for each wetland. Wetland bathymetry data were used to characterize wetland volume and area as functions of wetland depth. Wetland bathymetry for wetlands which had not previously been monitored by ISU was determined by ISU on the basis of wetland construction plans. These bathymetric relationships were used in numeric modeling of water budgets and nitrate mass balances to calculate nitrate loss, hydraulic loading, and residence times. Wetland water depth and temperatures were recorded at five minute intervals for numerical modeling of nitrate loss.

The monitored wetlands generally performed as expected with respect to nitrate removal efficiency (percent removal) and mass nitrate removal (expressed as kg N ha^{-1} $year^{-1}$). In addition to measured inflow and outflow nitrate concentrations, Figure 6 shows the range of outflow concentrations predicted for these wetlands by mass balance modeling using 2014 water budget, wetland water temperature, and nitrate concentration as model inputs.

Variability in wetland performance is in part due to differences in wetland characteristics and condition and partly due to differences in loading rates and patterns. At a given HLR, differences in wetland condition and in timing of loading can result in significant differences in performance. Mass balance analysis and modeling was also used to examine the long term variability in performance of CREP wetlands including the effects of spatial and temporal variability in temperature and loading patterns. In addition to the calculating the percent mass removal observed for wetlands monitored from 2004 through 2014, the percent nitrate removal expected for CREP wetlands was estimated based on hindcast modeling over the period from 1980 through 2005. The results illustrate reasonably good correspondence between observed and modeled performance and demonstrate that HLR is clearly a major determinant of wetland performance (Figure 7). Further analysis of the performance of wetlands monitored from 2004 through 2014 illustrates the combined effect of HLR and temperature and clearly shows the decline in percent nitrate loss with increasing hydraulic loading rate and the increase in percent loss when nitrate loading occurs during warmer periods (Figure 8). The apparently good performance of the DD65 wetland may be, at least in part, due to the relatively high water temperatures in that wetland during 2014 and the improved hydraulic efficiency associated with the berms installed within that wetland (Figures 7 and 8).

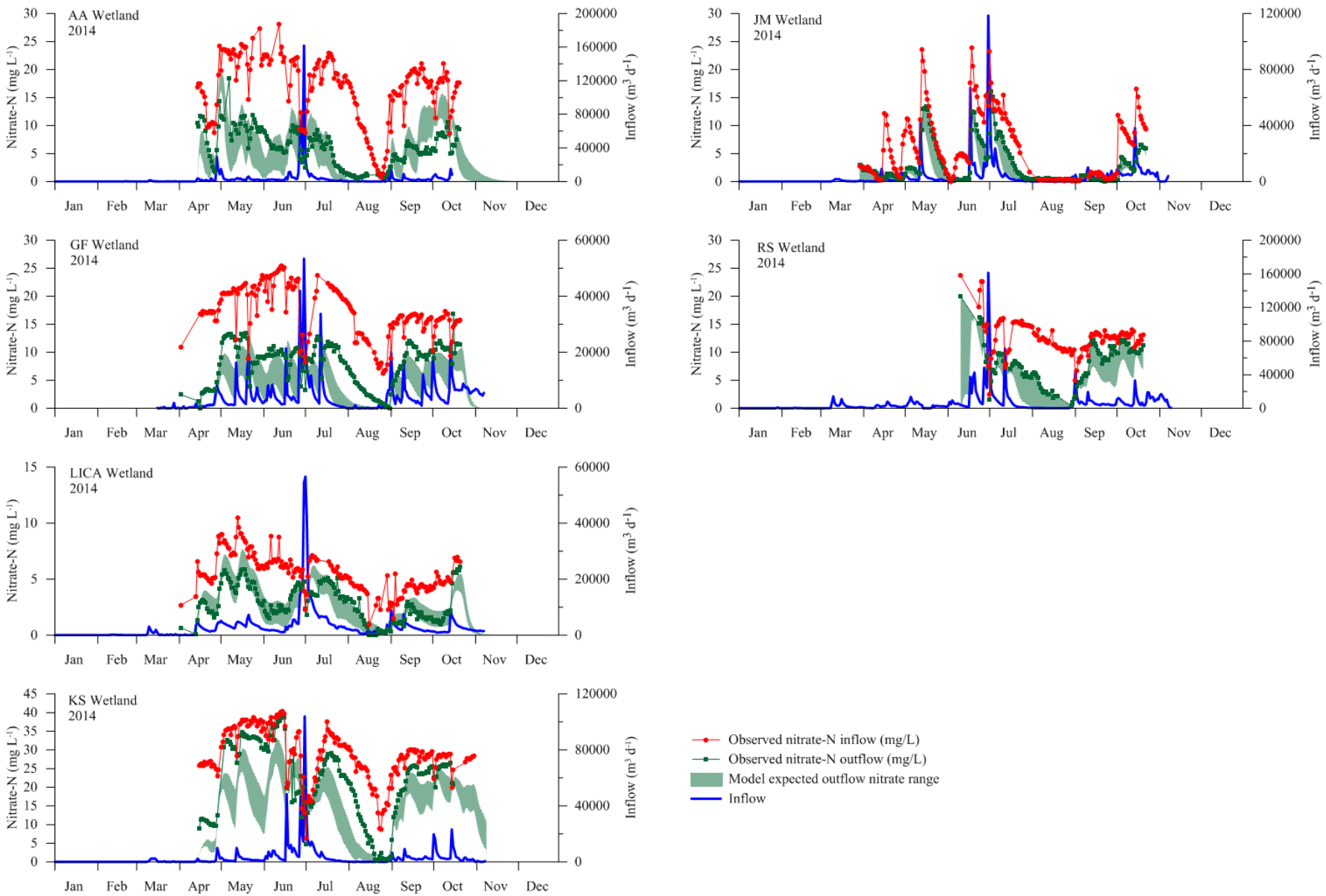

Figure 6. Measured and modeled nitrate concentrations and flows for central Iowa wetlands monitored during 2014.

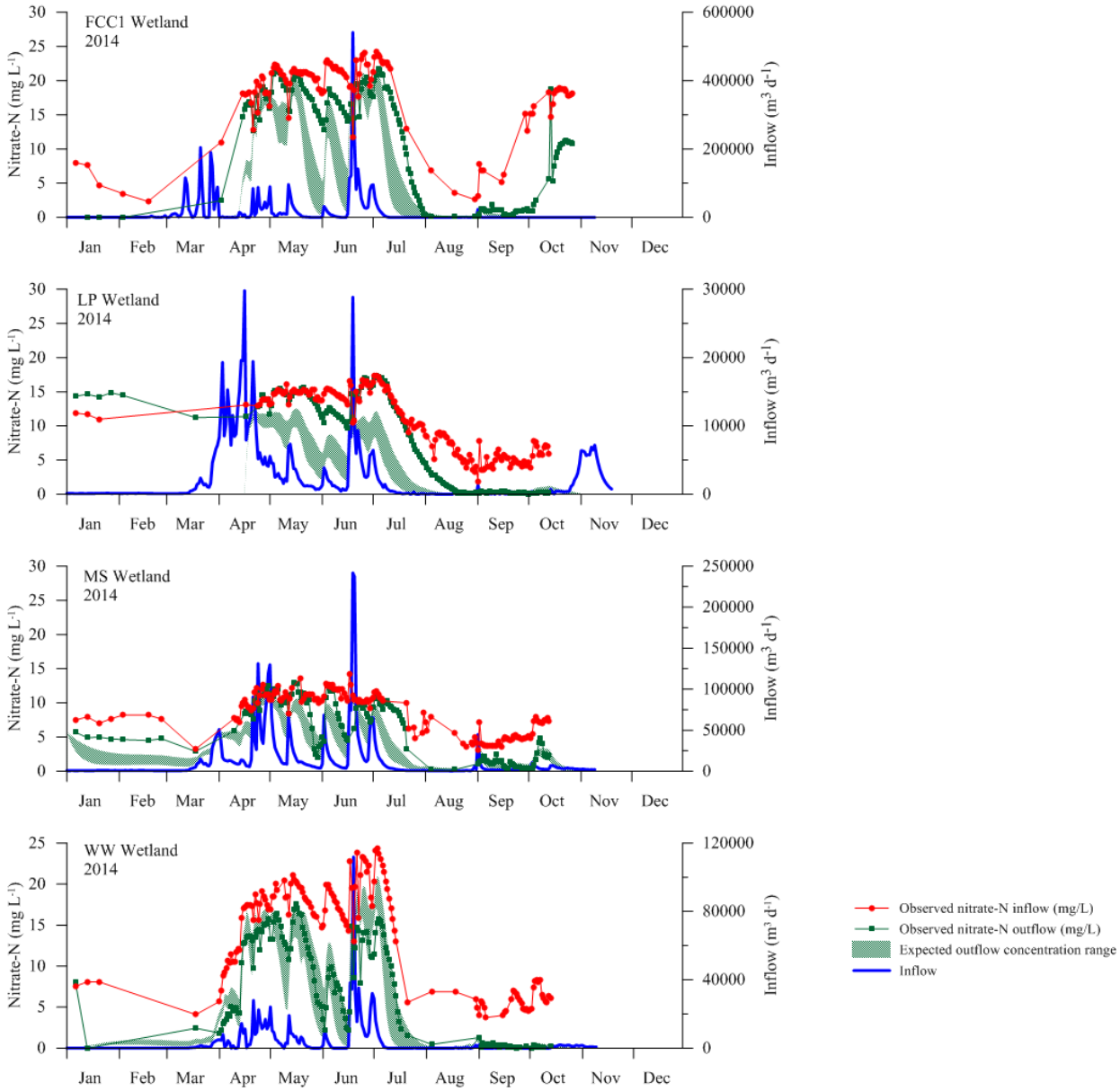

Figure 6 (Continued) Measured and modeled nitrate concentrations and flows for northeast Iowa wetlands monitored during 2014.

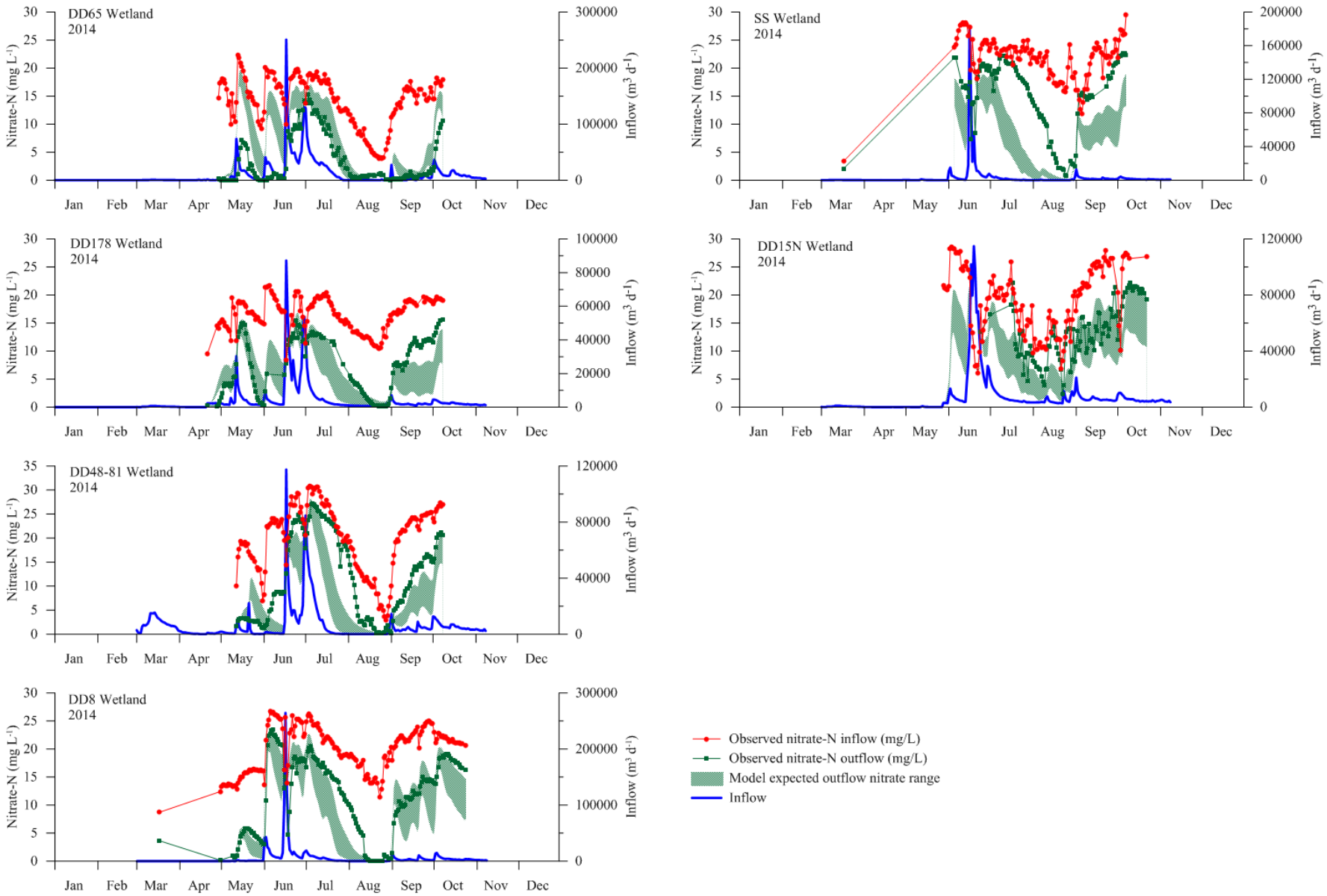

Figure 6 (Continued) Measured and modeled nitrate concentrations and flows for northwest Iowa wetlands monitored during 2014.

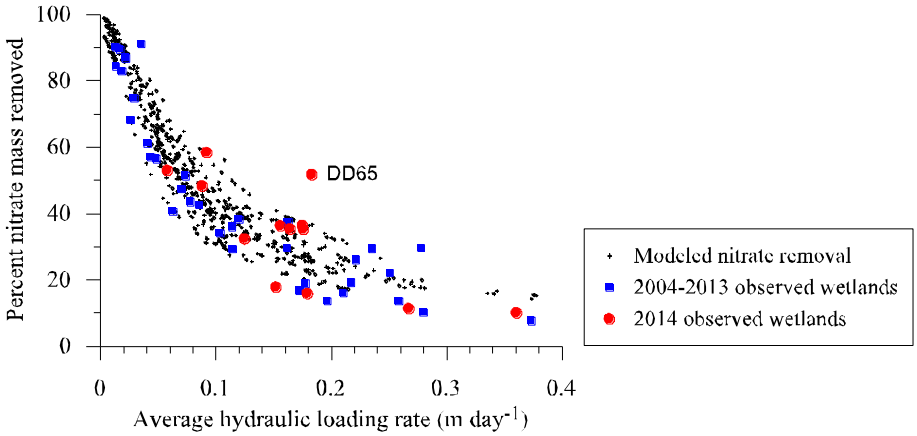

Figure 7. Modeled nitrate removal efficiencies for CREP wetlands based on 1980 to 2005 input conditions and measured nitrate removal efficiencies for CREP wetlands during 2004 to 2014. (*The high performance of the DD65 wetland during 2014 is thought to be at least partially due to high water temperature and the berms placed within the wetland to influence water flow through the wetland.*)

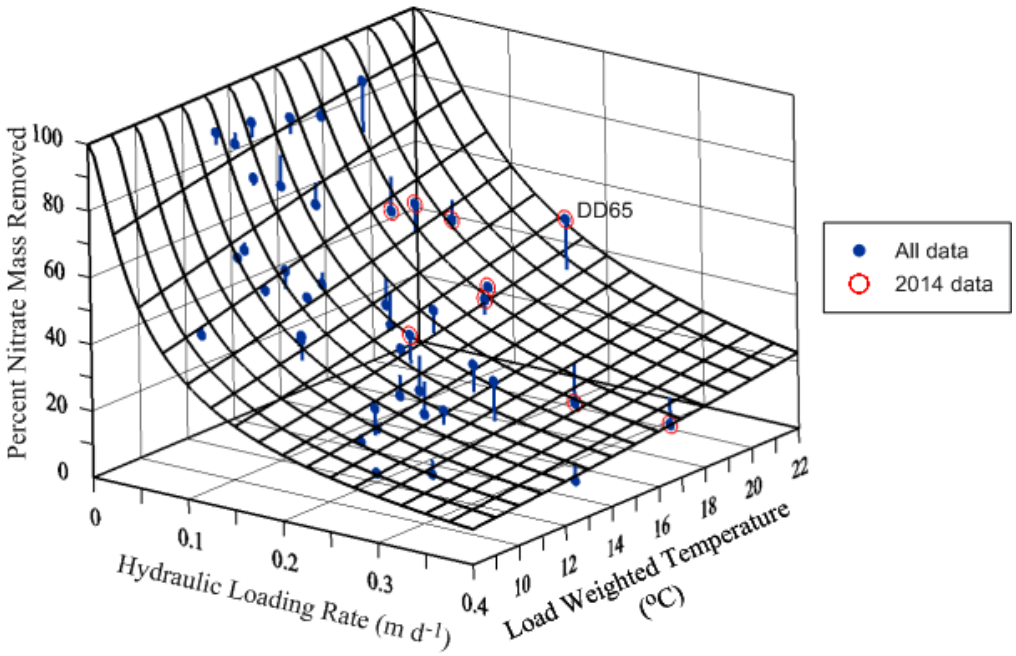

Figure 8. Percent nitrate mass loss versus hydraulic load rate and temperature (R^2 = 0.913; the model is based on three parameters (a decay rate constant, k; a temperature correction constant, θ; and a wetland mixing parameter, n) all of which were statistically significant at the 0.01 level. (*Only nine 2014 wetlands has adequate temperature and nitrate concentration data to include in this analysis.*)

Alternative Evaluation of CREP Wetland Performance

The success of CREP wetlands in removing nitrate may also be illustrated by considering how much row crop land would have to be retired to achieve an equivalent reduction in

nitrate mass exported from the watershed served by the wetland. We can estimate this under the assumption that the nitrate-N yield from the landscape is contributed uniformly from the row cropped land, and then calculating how much of that land would need to be retired to reduce the nitrate export to the removal measured for the wetland. This area is the nitrate-N mass removed by the wetland (lb) divided by the nitrate-N yield (lb/acre row crop) from the landscape. Alternatively, this is more simply just the product of the row crop land area and the fraction of nitrate mass removed by the wetland. The results of these calculations for those 39 wetland years that comprise Figure 7 are listed in Table 2. Comparison of the wetland area to the hypothetical retired land area shows the retired land area averages about 40 times the wetland area.

ISU monitoring of CREP wetlands has resulted in more than 45 wetland-years of data, however, not all of that data is of high quality primarily as a result of occasional equipment failures during critical flow events and flooding events resulting in equipment failure or damage. Nevertheless, ISU has accumulated 39 wetland-years of high quality wetland monitoring data. These data show substantial variation in percent nitrate mass removal ranging from 8% to 91% among wetlands and years resulting primarily from variation in annual hydraulic loading rate, which is a function of both wetland to watershed area ratio and annual precipitation. The nitrate mass reductions show an average of 35% overall. This suggests that an average of 35% of the row crop land in those watersheds served by these wetlands would have to have been taken out of production to have reduced nitrate mass export from the landscape in an amount equivalent to what these wetlands have removed.

Alternatively, consider a hypothetical 1000 acre catchment that is entirely row crop agriculture during an average year having 0.25 m water yield and an inflow nitrate-N concentration of 13 mg/L, the approximate average observed for CREP wetlands. For this scenario, the 1000 acre catchment will have a nitrate-N yield of 29.0 lb/acre. A typical 10 acre wetland on this 1000 acre catchment will remove about 1480 lb nitrate-N per acre (14,800 lb total removal), which is equivalent to retiring about 510 acres of row crop land. A typical 20 acre wetland on that same 1000 acre catchment will remove about 1020 lb nitrate-N per acre (20,400 lb total removal), which is equivalent to retiring about 700 acres of row crop land. From these considerations we see that: 1) all other things being equal, a larger wetland removes less mass per acre of wetland but removes a greater total mass than a smaller wetland, and 2) the wetland removes this nitrate mass at a small fraction of the land area that would need to be retired to achieve a comparable nitrate-N mass reduction.

Wetland Vegetation Survey

Emergent vegetation surveys were initiated at CREP wetlands beginning in July of 2014. Wetlands of priority were those that had recently been seeded by IDALS. We have surveyed 32 wetlands this field season, with 24 of those having been recently seeded.

A standard surveying technique is utilized at each wetland. Starting on the left side of the dam looking toward the wetland, transects are run perpendicular to the shore, from the

shore to the emergent edge-open water interface. The distance between transects was calculated based on the size of the wetland's design pool acres resulting in approximately 15 to 20 transects at each wetland. For each transect, two surveying techniques were implemented. The first being the line intercept method, noting whether or not a plant was present at a given interval along the transect line. The length of each transect determined how many points were taken along each transect. The second method employed 1×1 meter quadrats. The length of each transect determined how many quadrats were taken. Both transect and quadrat data will allow estimation of the percent cover of the emergent edge vegetation for each wetland surveyed. Depth measurements were taken at each transect on the emergent edge-open water interface. The last transect taken at each wetland was at the right side of the dam.

Additionally, the emergent edge curvature throughout the entire wetland was documented. This was accomplished by taking a GPS point, including a depth measurement, wherever there was a significant deviation in the emergent band. All spatial data were collected with a Trimble Geo 7X GPS unit. Lastly, one plant specimen was collected for each species found at each wetland. All plants collected have been pressed, dried, and frozen for later confirmation of identification.

Education and outreach

Information from this project has been shared through numerous presentations in Iowa and the region.

Table 2. Percent of row cropped land retirement necessary to produce equivalent wetland nitrate removal capacity.

Wetland	Year	Wetland to watershed area ratio (%)	Watershed area (acre)	Percent of watershed in row crop	Wetland area (acre)	Landscape nitrate yield (lb N/row crop acre)	Mass nitrate removed (lb N/acre wetland)	Row crop land retirement required to match wetland nitrate removal (acre)
AA	2011	0.96	1085	87	10.45	27.9	905	339
AA	2012	0.96	1085	87	10.45	10.8	600	578
AA	2013	0.96	1085	87	10.45	63.6	1706	281
AA	2014	0.96	1085	87	10.45	27.0	1424	551
AL	2006	1.11	539	86	6.0	42.0	1667	238
AL	2007	1.11	539	86	6.0	57.2	1693	178
AL	2008	1.11	539	86	6.0	36.2	1193	198
AL	2009	1.11	539	86	6.0	24.1	1052	262
AL	2010	1.11	539	86	6.0	36.0	1319	220
AL	2011	1.11	539	86	6.0	33.6	1132	202
AL	2012	1.11	539	86	6.0	7.8	548	423
BG	2008	0.52	2904	91	15.13	39.2	688	265
DD178	2014	0.76	975	89	7.38	33.4	1268	280
DD4881	2014	0.54	1969	90	10.7	24.2	710	314
DD65	2013	0.64	2472	89	15.71	34.8	1812	818
DD65	2014	0.64	2472	89	15.71	41.3	2973	1132
DD8	2014	0.64	1228	94	7.8	35.8	1856	405
DJ	2007	0.59	590	86	3.5	44.0	1020	81
DJ	2008	0.59	590	86	3.5	33.5	915	96
DJ	2009	0.59	590	86	3.5	48.4	1343	97
FCC1	2014	0.54	2692	83	14.63	45.7	693	222
GF	2014	1.19	1120	84	13.37	26.2	886	453
JM	2010	1.41	989	68	13.9	22.8	372	227
JM	2011	1.41	989	68	13.9	12.5	244	272
JM	2012	1.41	989	68	13.9	2.6	103	554
JM	2014	1.41	989	68	13.9	26.4	672	354
JR	2007	0.56	1430	89	8.0	42.3	1986	376
KS	2009	0.58	634	90	3.7	60.7	1256	77
KS	2010	0.58	634	90	3.7	61.9	718	43
KS	2011	0.58	634	90	3.7	31.5	812	96
KS	2012	0.58	634	90	3.7	22.7	1026	167
KS	2013	0.58	634	90	3.7	81.4	1710	78
KS	2014	0.58	634	90	3.7	58.7	1014	64
LICA	2014	0.50	847	81	4.27	10.6	617	249
MS	2014	0.63	3895	82	24.58	29.3	600	503
ND	2007	0.60	727	89	4.36	74.9	2472	144
SS	2014	1.08	505	86	5.45	67.6	1959	158
TI	2006	0.68	1081	63	7.3	87.8	2147	179
WW	2014	1.05	648.5	75	6.78	70.5	1782	171

Table 1. Program accomplishments and financial contributions

2014 Federal Financial Contribution

County	Project ID	Practice	Contracts	Wetland Acres	Watershed Acres	CRP-1 Acres	CCC Average Rental Rate	CCC Per Contract Cost-Share	CCC Per Contract PIP
Hardin	Har892029C	CP-23	1	8.80	916	28.40	N/A [1]	N/A [1]	N/A [1]
Mitchell	Mit981810C	CP-23	1	4.37	843	35.84	$408.82	N/A [1]	N/A [1]
Floyd	Flo961819A	CP-23	4	18.56	1888	110.51	$393.16	N/A [1]	N/A [1]
Floyd	Flo961822D	CP-23	2	12.40	1094	34.27	$409.59	N/A [1]	N/A [1]
Story	Sto852311A	CP-23	2	5.00	614	10.88	N/A [1]	N/A [1]	N/A [1]
Totals			**10**	**49.13**	**5355**	**219.90**	**$403.86** Average	**N/A [1]**	**N/A [1]**

2014 State Financial Contribution

County	Project ID	Practice	Easements	Wetland Acres	Watershed Acres	Easement Acres	Number of Easement Payments	Total Easement Payment	Outsourced Technical Assistance [2]
Hardin	Har892029C	CP-23	1	8.80	916	28.40	1	N/A [1]	$21,979
Mitchell	Mit981810C	CP-23	1	4.37	843	35.84	1	N/A [1]	$18,860
Floyd	Flo961819A	CP-23	4	18.56	1888	110.51	4	N/A [1]	$20,000
Floyd	Flo961822D	CP-23	2	12.40	1094	34.27	2	N/A [1]	$30,271
Story	Sto852311A	CP-23	2	5.00	614	10.88	2	N/A [1]	$16,185
Multiple	Projects with engineering started - not finished								$130,602
Totals			**10**	**49.13**	**5355**	**219.90**	**10**	**$0**	**$237,897**

State Technical Assistance

Staff		**FY 2014** % FTE	**FY 2014** Cost	**Cumulative** Cost
	Administration	0.25	$25,572	$508,373
	Coordination	0.25	$25,572	$891,860
	GIS	0.10	$10,229	$486,030
	Engineering	0.50	$58,643	$512,120
	Support	0.00	$0	$114,823
	Field Specialists	1.50	$113,253	$857,674
	Totals	**2.60**	**$233,269**	**$3,370,880**
NRCS Engineering/Service Contract			$0	$223,425
Outsourced Technical Assistance [2]			$237,897	$3,283,076
Monitoring and Evaluation [3]			$418,366	$3,071,850
Total State Technical Assistance			**$889,532**	**$9,949,231**

[1] N/A - Figures not available at the time this report was prepared
[2] Includes engineering, survey, design, title search, public bidding announcement, recording fees, etc.
[3] Monitoring, evaluation and research support provided under contract with Iowa State University

Table 2 : Sites under survey/engineering design phase (not completed)

	A	B	C	D
1	**Project ID**	**Wetland (ac)**	**Estimated Easement (ac)**	**Watershed (ac)**
2	Wri932534B	6.2	21.7	1000
3	Gut803019A	6.2	21.7	849
4	Gut803020C	7.1	24.9	510
5	Gre842916D	5.1	17.9	743
6	Boo832612D	21.0	73.5	3246
7	Emm993330B	4.3	16.8	841
8	Sto822120C	14.4	49.4	1922
9	Fra932001A	5.6	19.6	833
10	Gre853229C	4.3	15.1	818
11	Fra901902C	3.4	11.9	581
12	Gut813207B	8.4	29.4	942
13	Flo961529D	5.9	19.3	688
14	Gru871810B	5.6	19.6	623
15	Car843325A	16.5	75.0	2576
16	Gru891604AC	31.0	108.5	2720
17	Car853312A	3.7	13.0	628
18	Kos952703D	10.8	37.8	1775
19	Kos952719C	20.6	72.1	2475
20	Gre842915B	20.4	71.4	2294
21	**Totals**	**200.5**	**718.4**	**26064**

Table 3: Cumulative Program Summary (Estimated Costs in Red)

Project ID	Wetland Area (acres)	Basin %	Surveyed Easement (acres)	CRP-1 Contract Area (Acres)	Drainage Area (acres)	Soil Rental Rate ($/acre)	SCI Payment ($)	State Easement Payment ($/acre)	CRP Contract Payment ($/acre/yr)	CRP Yearly Payment ($/yr)	Total Design Cost	Total Easement Cost	Total Construction Cost	Total CRP Payments Over 15 Years	Total Project Cost	Cost/acre treated ($/acre)	Cost/acre treated lifetime ($/acre/150 yrs)	Cost/lb N removed lifetime ($/lb/150 yrs)	N Tons Removed Lifetime (150 yrs)	10% Construction Cost	State Construction Cost	FSA Construction Cost	Total State Costs	Total FSA Costs
Dal812619C	15.00	0.76	57.60	57.50	1974	$163.52	None	$650.00	$224.98	$12,936.35	$4,502.14	$37,440.00	$88,363.10	$194,045.25	$324,350.49	$164.31	$1.10	$0.10	1688	$8,836.31	$8,762.41	$79,600.69	$50,704.55	$273,645.94
Cal873427D	3.41	0.66	20.00	20.00	514	$153.57	None	$325.00	$221.96	$4,439.20	$5,162.96	$6,500.00	$37,784.68	$66,588.00	$116,035.64	$225.75	$1.51	$0.15	384	$3,778.47	$3,778.68	$34,006.00	$15,441.64	$100,594.00
Kos962903D	6.00	1.11	26.89	26.89	539	$157.41	None	$325.00	$214.67	$5,772.48	$5,337.66	$8,739.25	$49,352.90	$86,587.14	$150,016.95	$278.32	$1.86	$0.11	675	$4,935.29	$4,885.98	$44,466.92	$18,962.89	$131,054.06
Boo852602B	7.30	0.68	34.48	34.48	1081	$144.13	None	$650.00	$197.72	$6,817.39	$3,863.99	$22,412.00	$52,816.40	$102,260.78	$181,353.17	$167.76	$1.12	$0.11	821	$5,281.64	$5,040.80	$47,775.60	$31,316.79	$150,036.38
Sto852430B	3.70	0.58	19.05	19.05	634	$164.26	None	$325.00	$237.98	$4,533.52	$3,561.17	$6,191.25	$45,691.94	$68,002.79	$123,447.15	$194.71	$1.30	$0.15	416	$4,569.19	$4,568.94	$41,123.00	$14,321.36	$109,125.79
Mad752802B	7.00	1.23	32.09	32.09	569	$162.97	None	$325.00	$160.51	$5,150.77	$3,887.01	$10,429.25	$75,730.61	$77,261.49	$167,308.36	$294.04	$1.96	$0.11	788	$7,573.06	$7,452.61	$68,278.00	$21,768.87	$145,539.49
Dal792828C	4.36	0.60	19.27	19.27	727	$145.75	None	$650.00	$192.59	$3,711.21	$25,387.52	$12,525.50	$71,356.01	$55,668.14	$164,937.17	$226.87	$1.51	$0.17	491	$7,135.60	$7,135.60	$64,220.41	$45,048.62	$119,888.55
Dal812728C	8.00	0.56	42.66	42.66	1430	$165.57	None	$650.00	$229.85	$9,805.40	$25,235.74	$27,729.00	$69,973.49	$147,081.02	$270,019.25	$188.82	$1.26	$0.15	900	$6,997.35	$6,997.17	$62,976.32	$59,961.91	$210,057.34
Emm983322C	9.10	0.69	50.10	50.10	1328	$124.54	None	$325.00	$156.98	$7,864.70	$39,182.57	$16,282.50	$77,456.24	$117,970.47	$250,891.78	$188.92	$1.26	$0.12	1024	$7,745.62	$7,745.74	$69,710.50	$63,210.81	$187,680.97
Win982409D	3.50	0.59	16.01	16.01	590	$151.81	None	$325.00	$214.71	$3,437.51	$24,479.21	$5,203.25	$84,155.36	$51,562.61	$165,400.43	$280.34	$1.87	$0.21	394	$8,415.54	$8,415.22	$75,740.14	$38,097.68	$127,302.75
Boo822729D	9.23	0.60	61.60	61.60	1530	$163.87	None	$325.00	$224.34	$13,819.34	$22,130.84	$20,020.00	$128,743.31	$207,290.16	$378,184.31	$247.18	$1.65	$0.18	1038	$12,874.33	$12,874.31	$115,869.00	$55,025.15	$323,159.16
Ham892406C	15.13	0.52	55.95	55.95	2904	$158.32	None	$325.00	$214.43	$11,997.36	$26,911.31	$18,183.75	$125,993.25	$179,960.38	$351,048.69	$120.88	$0.81	$0.10	1702	$12,599.33	$12,600.19	$113,393.06	$57,695.25	$293,353.44
Emm983229C	11.70	0.51	56.75	56.80	2300	$147.25	$6,644.71	$325.00	$208.52	$11,843.94	$54,034.38	$18,443.75	$233,854.69	$177,659.04	$490,636.57	$213.32	$1.42	$0.19	1316	$23,385.47	$37,227.69	$196,627.00	$116,350.53	$374,286.04
Emm983327B	8.78	0.82	44.40	44.40	1070	$128.64	$5,531.35	$325.00	$191.87	$8,519.03	$30,789.60	$14,430.00	$136,126.45	$127,785.42	$314,662.82	$294.08	$1.96	$0.16	988	$13,612.65	$31,581.45	$104,545.00	$82,332.40	$232,330.42
Dic983729C	18.25	0.67	66.21	66.21	2739	$147.55	$8,609.95	$650.00	$200.06	$13,245.97	$31,172.04	$43,036.50	$176,002.62	$198,689.59	$457,510.70	$167.04	$1.11	$0.11	2053	$17,600.26	$40,293.62	$135,709.00	$123,112.11	$334,398.59
Cal873421C	8.30	0.61	37.27	37.27	1362	$151.90	None	$325.00	$217.47	$8,105.11	$56,156.87	$12,112.75	$138,863.54	$121,576.60	$328,709.76	$241.34	$1.61	$0.18	934	$13,886.35	$13,887.54	$124,976.00	$82,157.16	$246,552.60
Boo852603D	13.90	1.41	66.05	66.05	989	$152.73	$9,509.22	$325.00	$220.95	$14,593.75	$17,861.19	$21,466.25	$46,805.18	$218,906.21	$314,548.05	$318.05	$2.12	$0.10	1564	$4,680.52	$6,687.18	$40,118.00	$55,523.84	$259,024.21
Boo832824B	18.44	0.50	70.30	70.30	3653	$165.07	$10,901.57	$325.00	$237.58	$16,701.87	$22,173.72	$22,850.75	$191,767.24	$250,528.11	$498,221.39	$136.39	$0.91	$0.12	2075	$19,176.72	$50,848.24	$140,919.00	$106,774.28	$391,447.11
Mit981528A	12.68	1.61	69.18	69.18	787	$140.05	$8,685.55	$325.00	$193.33	$13,374.57	$33,384.98	$22,483.50	$128,850.98	$200,618.54	$394,023.55	$500.67	$3.34	$0.14	1427	$12,885.10	$14,425.98	$114,425.00	$78,980.01	$315,043.54
Cer971931C	3.75	0.51	18.40	18.40	736	$173.71	$2,721.73	$325.00	$226.88	$4,174.59	$25,801.42	$5,980.00	$140,083.84	$62,618.88	$237,205.87	$322.29	$2.15	$0.28	422	$14,008.38	$29,108.92	$110,974.92	$63,612.07	$173,593.80
Wor1002115C	20.70	0.87	90.00	90.00	2386	$138.80	None	$650.00	$212.14	$19,093.00	$28,622.98	$60,078.08	$139,945.49	$286,395.00	$515,041.55	$215.86	$1.44	$0.11	2329	$13,994.55	$39,065.49	$100,880.00	$127,766.55	$387,275.00
Poc933406C	12.58	0.52	61.39	61.39	2431	$151.78	$2,349.70	$325.00	$229.65	$14,098.21	$26,914.60	$19,951.75	$165,649.81	$211,473.20	$426,339.06	$175.38	$1.17	$0.15	1415	$16,564.98	$43,371.81	$122,278.00	$92,587.86	$333,751.20
Gre853026B	3.40	0.55	22.10	22.10	617	$157.78	$404.33	$325.00	$219.54	$4,851.83	$22,534.22	$7,182.50	$80,183.75	$72,777.51	$183,082.31	$296.73	$1.98	$0.24	383	$8,018.38	$8,017.75	$72,166.00	$38,138.80	$144,943.51
Sto832121A	10.45	0.96	45.40	45.40	1085	$162.60	$7,394.83	$325.00	$248.65	$11,288.71	$44,194.26	$14,735.50	$139,799.58	$169,330.65	$375,455.89	$346.04	$2.31	$0.16	1176	$13,979.96	$13,979.96	$125,820.69	$80,304.55	$295,151.34
Boo852603C	4.34	0.52	34.40	34.40	842	$138.18	$4,572.63	$650.00	$203.63	$7,004.87	$21,992.79	$22,334.00	$78,257.60	$105,073.08	$232,230.10	$275.81	$1.84	$0.24	488	$7,825.76	$7,825.76	$70,431.84	$56,725.18	$175,504.92
Flo961502D	5.66	1.03	33.40	33.40	548	$142.96	$4,308.51	$650.00	$197.38	$6,592.49	$25,757.09	$21,723.00	$68,772.15	$98,887.38	$219,448.13	$400.45	$2.67	$0.17	637	$6,877.22	$6,877.15	$61,895.00	$58,665.75	$160,782.38
Cer962220C	14.80	2.09	34.80	34.80	708	$149.09	$5,295.25	$325.00	$232.37	$8,086.48	$33,200.04	$11,303.50	$122,491.86	$121,297.14	$293,587.79	$414.67	$2.76	$0.09	1665	$12,249.19	$7,556.71	$68,020.00	$57,355.50	$189,317.14
Kos962802C	6.51	0.79	32.26	32.30	828	$143.14	$4,617.70	$2,741.57	$218.71	$7,064.33	$30,001.55	$88,443.06	$107,648.01	$105,965.00	$336,675.32	$406.61	$2.71	$0.23	732	$10,764.80	$10,765.01	$96,883.00	$133,827.32	$202,848.00
Kos953011B	6.49	0.62	22.29	22.30	1043	$158.93	$3,542.55	$2,792.18	$229.86	$5,125.88	$28,220.50	$62,237.69	$179,235.35	$76,888.17	$350,124.26	$335.69	$2.24	$0.24	730	$17,923.54	$41,623.35	$137,612.00	$135,624.09	$214,500.17
Gru871718B	5.60	0.68	30.36	30.50	821	$174.44	$5,780.70	$1,220.70	$263.66	$8,041.63	$35,176.10	$37,060.46	$102,032.51	$120,624.45	$300,674.22	$366.05	$2.44	$0.24	630	$10,203.25	$10,203.51	$91,829.00	$88,220.77	$212,453.45
Flo961502B	6.78	1.05	29.82	29.80	649	$146.00	$4,592.28	$2,905.53	$221.00	$6,585.80	$28,652.41	$86,642.90	$91,690.52	$98,787.00	$310,365.11	$478.59	$3.19	$0.20	763	$9,169.05	$9,169.52	$82,521.00	$129,057.11	$181,308.00
Flo941526D	5.58	0.83	25.84	25.80	672	$144.18	$3,926.64	$2,934.96	$218.27	$5,631.37	$30,752.16	$75,839.36	$124,808.04	$84,470.49	$319,796.69	$475.82	$3.17	$0.25	628	$12,480.80	$12,481.04	$112,327.00	$122,999.20	$196,797.49
Gut813028D	4.60	0.83	22.18	22.20	551	$193.67	$4,295.63	$2,891.71	$265.90	$5,903.00	$41,556.44	$64,138.08	$202,663.51	$88,545.00	$401,198.66	$728.13	$4.85	$0.39	518	$20,266.35	$33,612.10	$170,452.66	$143,602.25	$258,997.66
Wor1002215C	6.05	0.85	30.25	30.30	709	$142.14	$543.42	$2,979.12	$215.21	$6,521.00	$27,609.24	$90,118.38	$126,799.11	$97,815.00	$342,885.15	$483.62	$3.22	$0.25	681	$12,679.91	$24,770.11	$102,029.00	$143,041.15	$199,844.00
Wri922423A	3.35	0.60	15.00	15.00	559	$159.85	$302.21	$2,713.96	$241.77	$3,627.00	$31,456.48	$40,709.40	$131,298.51	$54,405.00	$258,171.60	$462.09	$3.08	$0.34	377	$13,129.85	$29,807.51	$101,491.00	$102,275.60	$155,896.00
Mar821905C	4.27	0.50	19.92	19.90	847	$165.80	$4,954.10	$963.23	$250.70	$4,989.00	$44,605.83	$19,160.85	$128,236.80	$74,835.00	$271,792.58	$320.89	$2.14	$0.28	480	$12,823.68	$14,118.80	$114,118.00	$82,839.58	$188,953.00
Flo971521B	14.63	0.54	67.25	67.20	2692	$151.89	$15,322.24	$2,322.74	$229.83	$15,444.58	$30,620.47	$156,204.27	$134,773.80	$231,668.70	$568,589.48	$211.21	$1.41	$0.17	1646	$13,477.38	$27,046.80	$107,727.00	$229,193.78	$339,395.70
Cla973604DB	5.37	0.55	30.33	30.30	982	$171.25	$7,790.87	$2,638.03	$258.87	$7,844.00	$32,896.89	$80,011.45	$174,232.76	$117,660.00	$412,591.97	$420.15	$2.80	$0.34	604	$17,423.28	$37,116.76	$137,116.00	$157,815.97	$254,776.00
Gre833136B	8.00	0.51	52.51	52.51	1559	$170.94	$13,464.08	$3,242.90	$258.41	$13,569.11	$24,285.62	$170,284.68	$163,956.62	$203,536.65	$575,527.65	$369.16	$2.46	$0.32	900	$16,395.66	$16,396.62	$147,560.00	$224,431.00	$351,096.65
Dic983735CD	3.03	0.50	17.61	17.60	605	$126.63	$3,345.02	$1,634.97	$191.95	$3,378.32	$25,051.60	$28,791.82	$122,324.00	$50,674.80	$230,187.24	$380.47	$2.54	$0.34	341	$12,232.40	$12,232.40	$110,091.60	$69,420.84	$160,766.40
Web893018B	4.00	0.58	27.47	27.50	690	$181.16	$7,472.93	$1,214.69	$273.74	$7,537.00	$24,385.21	$33,367.54	$87,131.20	$113,055.00	$265,411.88	$384.65	$2.56	$0.29	450	$8,713.12	$8,713.20	$78,418.00	$73,938.88	$191,473.00
Kos952829C	3.28	0.51	28.38	28.40	648	$149.47	$6,363.12	$2,459.76	$226.20	$6,424.00	$53,267.42	$69,807.86	$213,344.05	$96,360.00	$439,142.45	$677.69	$4.52	$0.60	369	$21,334.41	$58,087.05	$155,257.00	$187,525.45	$251,617.00
BV933512D	6.35	1.27	28.32	28.30	500	$171.22	$7,273.43	$3,642.12	$258.83	$7,325.00	$43,354.10	$103,144.84	$134,859.16	$109,875.00	$398,506.53	$797.01	$5.31	$0.28	714	$13,485.92	$19,850.03	$115,009.13	$173,622.40	$224,884.13
Pal973205A	5.57	1.02	24.44	24.40	548	$189.78	$7,536.33	$3,279.59	$284.67	$6,946.00	$22,884.87	$80,153.18	$171,149.07	$104,190.00	$385,913.45	$704.22	$4.69	$0.31	627	$17,114.91	$52,339.07	$118,810.00	$162,913.45	$223,000.00
Pal953418D	5.45	1.08	26.20	26.20	505	$182.33	$7,165.44	$3,386.04	$275.49	$7,218.00	$24,468.82	$88,714.25	$130,559.22	$108,270.00	$359,177.73	$711.24	$4.74	$0.29	613	$13,055.92	$22,497.22	$108,062.00	$142,845.73	$216,332.00
Dal812703C	2.74	0.52	15.56	15.50	528	$154.97	None	$3,864.09	$232.46	$3,603.00	$41,480.71	$60,125.24	$107,202.25	$54,045.00	$262,853.20	$497.83	$3.32	$0.43	308	$10,720.23	$24,398.22	$82,804.03	$126,004.17	$136,849.03
Poc913121A	15.71	0.64	76.16	76.20	2472	$161.77	None	$3,727.56	$242.66	$18,490.69	$43,167.17	$283,890.97	$174,716.87	$277,360.35	$779,135.36	$315.18	$2.10	$0.22	1767	$17,471.69	$52,384.87	$122,332.00	$379,443.01	$399,692.35
BV923734D	17.75	0.54	83.52	83.50	3314	$180.07	$22,558.75	$985.48	$270.10	$22,553.35	$38,588.20	$82,307.29	$197,144.33	$338,300.25	$678,898.82	$204.86	$1.37	$0.17	1997	$19,714.43	$52,799.33	$144,345.00	$196,253.57	$482,645.25
Car853415B	3.50	0.50	18.83	18.80	707	$193.18	$5,456.37	$2,385.82	$289.77	$5,448.00	$38,727.37	$44,925.00	$248,637.65	$81,720.00	$419,466.39	$593.30	$3.96	$0.53	394	$24,863.77	$30,149.65	$218,488.00	$119,258.39	$300,208.00
Sac873729B	9.40	0.70	47.64	47.60	1340	$218.22	None	$1,975.42	$327.33	$15,581.00	$32,285.18	$94,109.01	$128,671.38	$233,715.00	$488,780.57	$364.76	$2.43	$0.23	1058	$12,867.14	$14,335.38	$114,336.00	$140,729.57	$348,051.00
Mad772718B	5.20	0.70	17.44	17.40	745	$211.14	None	$0.00	$316.71	$5,511.00	$42,025.40	$1.00	$154,789.58	$82,665.00	$279,480.98	$375.14	$2.50	$0.24	585	$15,478.96	$27,394.58	$127,395.00	$69,420.98	$210,060.00
Fra931907C	13.49	0.70	79.53	79.50	1941	$179.76	$21,445.15	$2,777.72	$269.63	$21,435.92	$41,081.35	$220,912.25	$251,037.81	$321,538.80	$856,015.36	$441.06	$2.94	$0.28	1518	$25,103.78	$30,534.57	$220,503.24	$313,973.32	$542,042.04
Cer972025CD	8.81	0.51	47.44	47.40	1734	$185.09	$13,171.24	$1,083.68	$277.64	$13,160.24	$45,270.91	$51,409.88	$200,035.14	$197,403.60	$507,290.77	$292.56	$1.95	$0.26	991	$20,003.51	$46,017.14	$154,018.00	$155,869.17	$351,421.60
Dal802632C	5.65	0.47	25.73	25.70	1205	$183.11	$7,067.26	$4,586.95	$274.67	$7,059.00	$39,966.80	$118,022.22	$167,261.88	$105,885.00	$438,203.16	$363.65	$2.42	$0.34	636	$16,726.19	$38,251.64	$129,010.04	$203,307.92	$234,895.04
Cla963720D	12.60	0.54	57.60	57.60	2337	$200.00	$17,280.00	$7,939.01	$300.00	$17,280.00	$28,531.13	$457,286.98	$152,532.00	$259,200.00	$914,830.11	$391.45	$2.61	$0.32	1418	$15,253.20	$26,266.00	$126,266.00	$529,364.11	$385,466.00
Sto842303B	7.54	0.53	35.67	35.70	1425	$199.12	$10,652.89	$7,585.23	$298.68	$10,663.00	$47,005.75	$270,565.11	$220,961.82	$159,945.00	$709,130.57	$497.64	$3.32	$0.42	848	$22,096.18	$53,933.82	$167,028.00	$382,157.57	$326,973.00
Poc923113B	7.38	0.76	35.81	35.80	975	$194.72	$10,459.38	$8,025.54	$292.08	$10,456.00	$54,319.06	$287,394.59	$160,599.54	$156,840.00	$669,612.57	$686.78	$4.58	$0.40	830	$16,059.95	$36,857.54	$123,742.00	$389,030.57	$280,582.00
Boo842518D	13.47	1.19	36.48	36.50	1120	$189.79	$10,384.55	$7,738.06	$284.68	$10,391.00	$47,834.30	$282,284.52	$208,528.87	$155,865.00	$704,897.24	$629.37	$4.20	$0.23	1504	$20,852.89	$50,264.87	$158,264.00	$390,768.24	$314,129.00
Web883022B	3.02	0.53	12.06	12.10	570	$208.70	$3,775.38	$7,427.90	$313.05	$3,788.00	$37,893.25	$89,580.47	$124,247.65	$56,820.00	$312,316.75	$547.92	$3.65	$0.46	340	$12,424.77	$12,424.65	$111,823.00	$143,673.75	$168,643.00
Flo971621B	24.58	0.63	76.89	55.40	3895	$190.37	$15,805.75	$4,951.54	$285.56	$15,820.00	$50,913.86	$380,723.87	$200,671.01	$237,300.00	$885,414.49	$227.32	$1.52	$0.16	2765	$20,067.10	$50,335.01	$150,336.00	$497,778.49	$387,636.00
Cla943506C	9.57	0.78	31.53	31.50	1228	$177.74	$8,406.21	$8,303.84	$266.61	$8,398.00	$44,481.61	$261,820.08	$254,901.88	$125,970.00	$695,579.78	$566.43	$3.78	$0.32	1077	$25,490.19	$77,450.88	$177,451.00	$392,158.78	$303,421.00
Poc903105B	11.53	0.59	48.13	48.20	1969	$197.99	$14,294.61	$7,971.79	$296.99	$14,315.00	$44,759.79	$383,682.25	$278,382.77	$214,725.00	$935,844.42	$475.29	$3.17	$0.36	1297	$27,838.28	$91,944.77	$186,388.00	$534,681.42	$401,113.00
Flo971527D	5.54	0.87	22.78	22.80	640	$191.93	None	$6,853.30	$287.89	$6,564.00	$42,144.00	$156,118.12	$124,083.80	$98,460.00	$420,805.92	$657.51	$4.38	$0.34	623	$12,408.38	$12,408.80	$111,675.00	$210,670.92	$210,135.00
Flo971736C	11.01	1.14	48.07	48.00	966	$188.97	None	$6,901.43	$283.46	$13,606.00	$44,832.00	$331,751.33	$102,993.54	$204,090.00	$683,666.87	$707.73	$4.72	$0.28	1239	$10,299.35	$11,119.54	$91,874.00	$387,702.87	$295,964.00
Han972326A	6.40	0.84	35.39	35.40	758	$168.00	None	$5,050.38	$252.00	$8,920.80	$36,373.00	$178,732.95	$155,869.40	$133,812.00	$504,787.35	$665.95	$4.44	$0.35	720	$15,586.94	$15,586.40	$140,283.00	$230,692.35	$274,095.00
Pal973236A	25.69	0.65	54.95	55.00	3970	$193.12	None	$8,051.77	$289.68	$15,932.00	$51,289.00	$442,444.76	$265,308.65	$238,980.00	$998,022.41	$251.39	$1.68	$0.17	2890	$26,530.87	$51,970.00	$213,338.65	$545,703.76	$452,318.65
LICA 2	7.50	0.77	NA	NA	980	NA	None	None	None	None	$22,940.34	None	$0.00	None	$22,940.34	$23.41	$0.16	$0.01	844	$0.00	$0.00	$0.00	$22,940.34	$0.00
Flo961527B	6.52	1.51	39.24	39.20	432	$253.38	None	$1,300.68	$380.07	$14,899.00	$40,078.00	$51,038.72	$174,370.00	$223,485.00	$488,971.72	$1,131.88	$7.55	$0.33	734	$17,437.00	$53,390.00	$120,980.00	$144,506.72	$344,465.00
Gru871703B	4.32	0.61	20.66	20.60	714	$304.53	None	$7,468.05	$456.80	$9,410.00	$45,281.00	$154,290.00	$167,643.00	$141,150.00	$508,364.00	$711.99	$4.75	$0.52	486	$16,764.30	$16,766.00	$150,877.00	$216,337.00	$292,027.00
Har892036A	4.30	0.85	19.87	19.90	507	$296.61	None	$7,597.43	$444.92	$8,854.00	$44,501.00	$150,960.93	$217,392.00	$132,810.00	$545,663.93	$1,076.26	$7.18	$0.56	484	$21,739.20	$68,696.00	$148,696.00	$264,157.93	$281,506.00
Sac863622D	5.79	0.90	28.57	28.60	646	$284.50	None	$4,570.65	$426.75	$12,205.00	$40,125.00	$130,583.56	$210,681.50	$183,075.00	$564,465.06	$873.78	$5.83	$0.43	651	$21,068.15	$42,136.30	$168,545.20	$212,844.86	$351,620.20
Dal802627D	25.40	0.96	98.85	98.80	2641	$272.05	None	$8,000.08	$408.08	$40,318.00	$41,458.00	$790,807.91	$418,086.22	$604,770.00	$1,855,122.13	$702.43	$4.68	$0.32	2858	$41,808.62	$83,617.24	$334,468.98	$915,883.15	$939,238.98
Har892029C	8.80	0.96	28.40	28.40	916	$285.59	None	$5,236.00	$428.38	$12,163.85	$45,000.00	$148,676.22	$217,571.25	$182,457.75	$593,705.22	$648.15	$4.32	$0.30	990	$21,757.13	$43,514.25	$174,057.00	$237,190.47	$356,514.75
Mit981810C	4.37	0.52	35.84	35.84	843	$272.55	None	$3,496.79	$408.82	$14,652.11	$45,000.00	$125,325.00	$149,636.67	$219,781.63	$539,743.30	$640.26	$4.27	$0.55	492	$14,963.67	$29,927.33	$119,709.34	$200,252.33	$339,490.97
Flo961819A	18.56	0.98	110.51	110.51	1888	$262.11	None	$6,083.73	$393.16	$43,448.11	$45,000.00	$672,313.00	$303,100.26	$651,721.67	$1,672,134.93	$885.66	$5.90	$0.40	2088	$30,310.03	$60,620.05	$242,480.21	$777,933.05	$894,201.88
Flo961822D	12.40	1.13	34.27	34.27	1094	$273.06	None	$6,177.53	$409.59	$14,036.65	$45,000.00	$211,704.00	$214,000.00	$210,549.74	$681,253.74	$622.72	$4.15	$0.24	1395	$21,400.00	$42,800.00	$171,200.00	$299,504.00	$381,749.74
Sto852311A	5.00	0.81	10.88	10.88	614	$271.33	None	$1,200.00	$407.00	$4,428.16	$45,000.00	$13,056.00	$147,700.00	$66,422.40	$272,178.40	$443.29	$2.96	$0.24	563	$14,770.00	$29,540.00	$118,160.00	$87,596.00	$184,582.40
Totals	687.81		3050.48	3028.81	96594.50		$345,975.56				$2,595,831.19	$8,811,440.88	$11,520,373.03	$12,066,383.03	$35,340,004.76				77378.63	$1,152,037.30	$2,159,677.84	$9,315,132.16	$13,912,925.47	$21,381,515.19
Averages	8.93	0.77	40.14	39.85	1254.47	$181.19	$7,863.08	$2,850.74	$266.17	$10,584.55	$33,712.09	$115,940.01	$149,615.23	$158,768.20	$458,961.10	$430.16	$2.87	$0.26	1004.92	$14,961.52	$28,047.76	$120,975.74	$180,687.34	$277,682.02