

**Nitrogen and Phosphorus Load Estimates from Iowa Point Sources
During the 1980-96 Hypoxia Task Force Baseline Period**

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June 2018

Executive Summary

The Hypoxia Task Force (HTF) 2015 goal framework includes an interim target to reduce nitrogen and phosphorus loading 20% by 2025 while continuing efforts to achieve the 45% reduction target by 2035. These targets are to be measured relative to the average Mississippi/Atchafalaya River Basin (MARB) nutrient loading to the Gulf of Mexico during the 1980-1996 “baseline” period. Given this and efforts to implement Iowa’s Nutrient Reduction Strategy (INRS), it will be important to have the ability to track point source progress in reducing nutrient loads from those loads present during the 1980-1996 baseline period.

In 2016, the Iowa Department of Natural Resources (Iowa DNR) began coordinating with the United States Geological Survey (USGS) in an effort to better understand historical nutrient loads from point sources in Iowa. The USGS shared a draft data set which contained annual total nitrogen (TN) and annual total phosphorus (TP) load estimates for Iowa point sources for the years 1992, 1997, and 2002 (hereinafter referred to as the “shared data set”). As described below, the Iowa DNR evaluated the 1992 annual nutrient loads and concluded that the shared data set could be used, with modification, to estimate baseline nutrient loads for Iowa point sources. Using the modified approach described below, 1992 annual TN and TP loads were estimated for Iowa’s major publically-owned treatment works (POTWs), minor domestic wastewater dischargers (including POTWs and semipublic facilities), and industrial dischargers that provide biological treatment of process wastewater (BTP). These loads were then summed to provide the point source baseline TN and TP load estimates shown in Table 1.

Table 1. Iowa Point Source 1992 Annual Baseline TN and TP load estimates.

Discharge Type	Total Nitrogen (tons)	Total Phosphorus (tons)
Major POTWs	10,311	1,380
Minor Domestic Wastewater Dischargers	1,597	324
Industrial (major and minor with BTP)	1,262	683
Sum	13,170	2,386

Justification for Using 1992 as the Reference Point for the Baseline Nutrient Load Estimates

The year 1992 was selected as the reference point for estimating baseline nutrient loads for Iowa point sources for three reasons. First, the shared data set includes actual discharger-specific monthly average or seasonal effluent flow data from 1992 for a large number of both domestic wastewater and industrial point source dischargers in Iowa. This flow data set is the earliest that is readily available during the 1980-1996 “baseline” period for a comprehensive universe of Iowa point source dischargers. Second, the year 1992 falls within the 1980-1996 “baseline” period associated with the HTF nutrient reduction targets. Third, based on a review of Iowa statewide monthly average precipitation totals for each year during the 1980-1996 period (Table 2), 1992 is a representative year in terms of average rainfall for the period as a whole. This is important since precipitation levels influence point source flows due to inflow and infiltration, and effluent flows, in turn, affect nutrient loads. Both the wettest and third driest years on state record (1873-2017) occurred during the 1980-1996 period. Yearly totals based on statewide monthly average precipitation records during the 1980-1996 period ranged from 21.65 inches (1988) to 48.22 inches (1993). The average of these yearly totals was 34.56 inches. The yearly total for 1992 was 36.66 inches, which is only 2.1 inches greater than the 1980-1996 average, and falls within the mid-range of yearly totals during 1980-1996 period.

Table 2. Iowa Statewide Average Precipitation (inches), 1980-1996.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANN	RANK* (1873-2017)
1993	1.17	1.19	2.76	3.69	5.58	8.09	10.50	8.24	3.73	1.35	1.12	0.80	48.22	1
1982	1.84	0.41	2.73	2.51	7.14	3.32	6.20	4.58	3.37	3.31	2.94	3.43	41.78	10
1986	0.25	1.26	2.11	4.57	5.72	4.64	5.08	3.98	6.92	3.76	1.18	0.84	40.31	12
1990	0.86	0.70	4.32	2.28	5.82	8.02	6.42	4.43	1.41	1.91	1.69	1.62	39.48	17
1991	0.81	0.30	4.24	5.78	5.24	4.03	2.36	3.47	2.82	2.95	4.46	1.51	37.97	20
1984	0.52	0.95	1.87	5.73	4.76	6.81	4.01	1.04	2.05	5.28	2.00	2.14	37.16	24
1992	1.03	1.33	2.26	3.65	1.81	1.98	8.53	2.61	5.48	1.68	4.47	1.83	36.66	28
1983	0.68	1.22	3.17	2.90	4.80	5.55	2.52	2.40	4.08	3.32	4.74	1.13	36.51	30
1996	1.92	0.27	1.44	1.65	7.39	5.11	3.24	3.82	2.83	2.76	2.72	0.89	34.04	56
1987	0.33	0.27	3.21	1.92	4.02	2.59	5.20	7.63	2.60	0.76	2.68	1.86	33.07	62
1995	0.86	0.32	2.57	4.92	5.99	3.79	3.50	3.54	2.98	2.05	1.74	0.41	32.67	66
1981	0.12	1.40	0.78	3.41	2.61	5.56	4.99	5.14	2.62	2.58	2.12	1.09	32.42	71
1985	0.68	1.12	2.69	2.35	2.85	2.98	2.83	3.95	5.35	3.15	2.33	1.31	31.59	81
1994	1.07	1.21	0.20	2.44	2.10	6.36	3.91	3.74	3.59	1.97	2.28	1.21	30.08	99
1980	1.29	0.75	1.05	1.43	2.87	4.77	2.60	7.95	3.15	1.96	0.42	1.14	29.38	108
1989	0.91	0.55	0.92	2.07	2.57	3.31	3.32	3.58	4.74	1.88	0.28	0.37	24.50	139
1988	0.78	0.50	0.79	1.97	1.75	1.72	2.23	4.22	3.58	0.66	2.66	0.79	21.65	143
AVG	0.89	0.81	2.18	3.13	4.30	4.63	4.56	4.37	3.61	2.43	2.34	1.32	34.56	

*Rank No. 1 represents the wettest year on state record between 1873 and 2017.

Summary of Nutrient Load Data Set Shared by USGS

The shared data set included facility information, effluent flows, TN and TP effluent concentrations, and annual TN and TP load estimates for major and minor domestic and industrial wastewater dischargers in Iowa for the years 1992, 1997, and 2002. Data sources, methods, and load calculation procedures are detailed in Maupin and Ivahnenko (2011). Briefly, nutrient loads were derived only for those facilities with actual measured effluent flow data. Effluent flow and nutrient concentration data were obtained primarily from the United States Environmental Protection Agency’s (USEPA) permit compliance system (PCS) database, with some data obtained directly from states. Where TN and TP effluent concentrations were not available, concentrations were estimated using a hierarchy of “typical pollutant concentrations” (TPCs). Factors considered in deriving the TPCs included: standard industrial classification (SIC) code, major river basin (Mississippi (MRB3) or Missouri (MRB4)), season (n=4), and effluent flow class (n=5).

Major POTWs

Evaluation of the Shared Data Set for Major POTWs

Since major POTWs are prioritized over minor domestic wastewater dischargers in the INRS, the Iowa DNR first focused on major POTWs when evaluating the 1992 annual nutrient load estimates available in the shared data set.

For a subset of major POTWs, monthly average effluent flows from 1992 in the shared data set were compared with monthly average effluent flows from 1992 available in Iowa DNR’s own database. The effluent flows in the shared data set matched those available in the Iowa DNR’s database. Since flow data within the Iowa DNR’s database were available for more POTWs in the year 1997 than 1992, monthly average effluent flows from 1997 in both data sets were also compared for a subset of major POTWs to provide further confidence regarding the agreement between both flow data sets.

In regards to TN and TP effluent concentrations, the 1992 annual nutrient load estimates for major POTWs in the shared data set were derived using TPCs for sewerage systems (SIC code 4952) based on major river basin, season, and effluent flow class (Table 3). The Iowa DNR compared the TPCs used in the shared data set with TPCs used in other nutrient load estimation efforts for sewerage systems (Table 4). Comparisons were made with Pait (1993), Tetra Tech (1999), USEPA (2007), USEPA’s Discharge Monitoring Report (DMR) loading tool (2018), and the INRS (2013).

Pait (1993), Tetra Tech (1999), and the USEPA (2007) derived TPCs for TN and TP based on treatment level (i.e., primary, secondary, tertiary). The nutrient model used in the USEPA’s DMR loading tool (2018) derives TPCs for POTWs not likely to have additional treatment for nutrients, and effluent flow class is considered in deriving these TPCs. The INRS (2013) included point source nutrient load reduction estimates based on the assumption that current TN and TP effluent concentrations are equivalent to that found in typical domestic sewage (25 mg/L and 4 mg/L, respectively) and that biological nutrient removal (BNR) technology can achieve TN and TP effluent concentrations of 10 mg/L and 1 mg/L, respectively.

Table 3. Summary of TPCs for Sewerage Systems Used in Data Set Shared by USGS.

Factors Considered in Deriving TPCs			TPC Statistics (mg/L)					
River Basin	Flow Class*	Season**	TN (min)	TN (max)	TN (avg)	TP (min)	TP (max)	TP (avg)
MRB3	≤1 MGD**	n = 4	2.6	21.6	13.2	0.8	1.9	1.5
	>1-≤5 MGD	n = 4	8.3	12.1	10.6	0.6	0.7	0.6
	>5 MGD	n = 4	12.0	19.5	14.2	0.6	0.7	0.6
MRB4	≤1 MGD**	n = 4	12.5	20.5	16.9	0.4	1.9	0.9
	>1-≤5 MGD	n = 4	8.0	11.9	10.3	1.7	2.5	2.0
	>5 MGD	n = 4	14.2	22.0	18.0	1.5	1.8	1.7

*The ≤1 MGD flow class includes three subsets: ≤0.05 MGD, >0.05 to ≤0.2 MGD, and >0.2 to ≤1 MGD

**Seasons include spring (Mar-May), summer (Jun-Aug), fall (Sep-Nov), and winter (Dec-Feb)

Table 4. Summary of TPCs for Sewerage Systems Used in Other Nutrient Load Estimation Efforts.

TPC Source	Factors Considered in Deriving TPCs		TPC (mg/L)	
	Treatment Type	Flow Class	TN	TP
INRS, 2013	Typical Domestic Sewage		25.0	4.0
Pait, 1993	Primary		15.1	13.0
Pait, 1993	Secondary		11.2	7.0
TetraTech, 1999			11.2	2.0
EPA SAB, 2007			15	4
EPA DMR, 2018	POTWs not likely to have additional treatment for nutrients	all	13.343	2.439
		≤1 MGD	14.436	2.422
		>1-≤5 MGD	12.75	2.599
		>5 MGD	13.586	2.039
Pait, 1993	Tertiary		5.6	3.5
TetraTech, 1999			5.6	0.8
EPA SAB, 2007			11.2	2.0
INRS, 2013	Achievable with BNR		10.0	1.0

The TPCs used to derive the 1992 annual nutrient load estimates in the shared data set were also compared with Iowa-specific TPCs for major POTWs (Table 5). The Iowa-specific TPCs were derived using recent nutrient effluent concentration data now available through implementation of the INRS. More specifically, the TPCs were derived using actual monthly average TN and TP effluent concentrations from calendar year 2016 for 54 major POTWs. The monthly average TN and TP effluent concentrations were divided into one of three flow class categories (<1 MGD, 1-5 MGD, and >5 MGD) based on the monthly average effluent flow associated with the concentration value. The Iowa-specific TPCs reflect the average TN and TP effluent concentrations for each of these flow classes. It should be noted that as more effluent concentration data become available in the future, opportunities may exist to further refine these TPCs in consideration of additional factors such as secondary treatment technology type (aerated lagoon, activated sludge, etc.).

Though the Iowa-specific TPCs are not based on nutrient effluent concentration data from the 1980-1996 “baseline” period, they should be considered when evaluating the TPCs used to derive the 1992 annual nutrient load estimates in the shared data set for three reasons. First, there is a general lack of TN and TP effluent concentration data from Iowa domestic wastewater dischargers during the 1980-1996 “baseline” period. Second, the majority of Iowa POTWs continue to employ secondary treatment without additional treatment specifically intended to remove nutrients. Third, as reflected in Table 5, large sample sizes support the Iowa-specific TPCs (54 major POTWs, weekly sampling). Fourth, as previously noted, yearly rainfall totals based on statewide

monthly average precipitation records during the 1980-1996 period ranged from 21.65 inches (1988) to 48.22 inches (1993). The average of these yearly totals was 34.56 inches. As shown in Table 6, the yearly total for 2016 was 38.76 inches, which is only 4.2 inches greater than the 1980-1996 average.

Table 5. Iowa-specific TPCs for Major POTWs.

Statistic	Flow Class	Sample Size	TPC (mg/L)	
			TN	TP
Average	<1 MGD	216	15.8	3.2
	1-5 MGD	322	13.3	2.6
	>5 MGD	102	24.7	2.9

Table 6. Iowa Statewide Average Precipitation (inches), 2016.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANN	RANK* (1873-2017)
2016	0.64	0.96	2.46	3.26	4.53	3.69	5.88	6.05	6.19	2.10	1.45	1.55	38.76	19
AVG 1980- 1996	0.89	0.81	2.18	3.13	4.30	4.63	4.56	4.37	3.61	2.43	2.34	1.32	34.56	

*Rank No. 1 represents the wettest year on state record between 1873 and 2017.

In making the TPC comparisons detailed above, it was noted that the TPCs in the shared data set were generally less than those used in EPA’s DMR loading tool and less than the Iowa-specific TPCs. This was particularly true for TN in the middle flow class and for TP in all flow classes, where the TPCs in the shared data set were closer to levels anticipated for POTWs employing tertiary treatment.

To further evaluate the TPCs in the shared data set, 1992 annual nutrient load estimates for 51 Iowa major POTWs were derived using the discharger-specific monthly average effluent flows from 1992 and three different concentration assumptions. These assumptions used: a) the TPCs in the shared data set, b) the Iowa-specific TPCs, and c) discharger-specific actual monthly average TN and TP effluent concentrations from 2016. Where only seasonal average effluent flows were available, the seasonal flow was applied to each month during the season. The 51 discharger-specific loads were then summed for each parameter and calculation method. The results are shown in Table 7 below. As would be anticipated, the annual load sums derived using the Iowa-specific TPCs are similar to the annual load sums derived using the discharger-specific actual monthly average TN and TP effluent concentrations from 2016. In comparison, the annual load sums derived using the TPCs in the shared data set are approximately 39% lower for TN and 76% lower for TP. It can be assumed that the TPCs in the shared data set are the reason for these lower load estimates since the same effluent flows were used in all three calculation methods.

Table 7. Comparison of 1992 Annual TN and TP Load Sums (lbs) for 51 Major POTWs Derived Using 1992 Monthly Average Effluent Flows and Three Different Concentration Assumptions.

Parameter	TPCs from Data Set Shared by USGS	Iowa-specific TPCs	Discharger-specific 2016 Monthly Avg Effluent Concentrations
TN	6,691,587	10,962,162	10,984,987
TP	343,644	1,451,146	1,459,603

Derivation of 1992 Annual Baseline Nutrient Load Estimates for Major POTWs

Based on the above evaluation, it was concluded that baseline TN and TP loads for Iowa’s major POTWs would be best estimated using the effluent flows from 1992 in the shared data set and the Iowa-specific TPCs. 1992 annual baseline TN and TP loads were estimated for 106 major POTWs (listed in Appendix A). These include the 103 major POTWs listed in the 2017 INRS, the City of Cascade which was recently classified as a major POTW, and two major POTWs (City of Ankeny and Iowa City (North)) that are closed but now send their wastewater to other major POTWs listed in the 2017 INRS.

For each major POTW, monthly TN and TP loads were derived in the following manner. The monthly average effluent flow was multiplied by the corresponding Iowa-specific TPC, by the number of days in the month, and by a conversion factor of 8.3453. For the cities of Carlisle and Jesup (South), 1992 monthly average effluent flows

were not available in the shared data set but were available for 1997 and 2002. As such, these 1997 and 2002 effluent flows were used instead. For four major POTWs (cities of Ames, Knoxville, New Hampton, and Storm Lake), no effluent flow data was available in the shared data set. For these four POTWs, monthly average effluent flows for 1992 were estimated by applying a percentage (17.96%) to the monthly average effluent flows for these dischargers in 2016. This percentage reflects the percent difference between the 1992 and 2016 total annual flows for the subset of POTWs with both 1992 and 2016 effluent flows. Where only seasonal average effluent flows were available, the seasonal flow was applied to each month during the season.

Once monthly loads were derived for each of the 106 major POTWs, the monthly loads were summed to derive an annual load for 1992 for each of the POTWs. The 1992 annual loads for each POTW were then summed to provide 1992 annual baseline TN and TP load estimates shown in Table 8. The 1992 total annual flow estimate from all 106 major POTWs is also shown in Table 8.

Table 8. 1992 Annual Flow and Baseline TN and TP Load Estimates for Major POTWs.

Point Source Discharge Type	Flow	Total Nitrogen		Total Phosphorus	
	billion gallons	lbs	tons	lbs	tons
Major POTWs	115.48	20,622,402	10,311	2,759,974	1,380

Minor Domestic Wastewater Dischargers

Evaluation of the Shared Data Set for Minor Domestic Wastewater Dischargers

A review of the shared data set revealed that 1992 annual nutrient load estimates were only available for approximately half of the minor domestic wastewater dischargers that existed in Iowa in 1992. Further, based on evaluation of current average wet weather (AWW) design flows, minor domestic wastewater dischargers represent approximately 11% of the total flow from all point sources in Iowa. For these reasons, the 1992 annual TN and TP load estimates for those minor domestic wastewater sources that were available in the shared data set were not used directly in deriving the baseline nutrient load estimates for all minor domestic wastewater dischargers. Rather, the modified approach described below was used to estimate baseline nutrient loads for this category of point sources.

Derivation of 1992 Annual Baseline Nutrient Load Estimates for Minor Domestic Wastewater Dischargers

There are currently 104 major POTWs representing a total AWW design flow of 650.98 MGD. Additionally, there are currently 909 minor domestic wastewater dischargers (including minor POTWs and semi-public facilities) representing a total AWW design flow of 147.88 MGD. These total AWW design flows were adjusted to the number of major POTWs and minor domestic wastewater dischargers that existed in 1992. The resulting 1992-adjusted total AWW design flows for major POTWs and minor domestic wastewater dischargers were 644.72 MGD and 135.27 MGD, respectively. The ratio of the 1992-adjusted total AWW design flow for minor domestic wastewater dischargers to the 1992-adjusted total AWW design flow for major POTWs is 20.98%.

The 20.98% ratio was then applied to the 1992 total annual flow for major POTWs shown in Table 7 above (115.48 billion gallons) in order to estimate a 1992 total annual flow for the minor domestic wastewater dischargers that existed in 1992. This resulting flow (24.23 billion gallons) was then multiplied by the Iowa-specific TPCs for the <1 MGD flow class (15.8 mg/L TN and 3.2 mg/L TP) to derive the 1992 annual TN and TP load estimates for minor domestic wastewater dischargers that are shown in Table 9 below.

Table 9. 1992 Annual Flow and Baseline TN and TP Load Estimates for Minor Domestic Wastewater Dischargers.

Point Source Discharge Type	Flow	Total Nitrogen		Total Phosphorus	
	billion gallons	lbs	tons	lbs	tons
Minor Domestic Wastewater Dischargers	24.23	3,194,596	1,597	647,007	324

Industrial Dischargers with BTP

Evaluation of the Shared Data Set for Industrial Dischargers with BTP

The 2017 INRS identifies 32 major and minor industrial dischargers that provide biological treatment of process wastewater (BTP). Those major industrial dischargers identified on the 2017 INRS as not providing BTP are not included in the baseline derivation effort at this time. This is due in part to the complexity in determining baseline loads for dischargers like power plants where the “net increase” compared to background nutrient loads is the load of interest for tracking purposes. In addition, design flow information is not available for most major industrial dischargers who do not provide BTP.

Eight of the 32 industrial dischargers with BTP did not exist in 1992. For the remaining 24 industrial dischargers, the Iowa DNR identified those outfalls with process wastewater receiving biological treatment and then reviewed the shared data set to determine whether 1992 annual nutrient load estimates were available for these outfalls. Based on this review, 13 industrial dischargers were identified that have 1992 annual nutrient load estimates in the shared data set. As with the major POTWs previously described, the load estimates in the shared data set were derived using actual measured discharger-specific effluent flow data from 1992 and TPCs. The effluent flows were either monthly averages or seasonal averages. Likewise, TPCs were applied on a monthly or seasonal basis.

To evaluate the TPCs underlying the 1992 annual nutrient load estimates in the shared data set, the TPCs were compared with recent nutrient effluent concentration data now available through implementation of the INRS. For each of the aforementioned 13 industrial dischargers, the TPCs used for the discharger were averaged and then compared to recent discharger-specific long-term average (LTA) concentrations for TN and TP. With one exception, the LTAs reflect the average of daily TN or TP effluent concentrations available from September 2013 to April 2017. For Cargill, Inc., the LTAs reflect the average of daily TN or TP effluent concentrations available from December 2017 to February 2018.

A similar comparison was performed for the effluent flows underlying the 1992 annual nutrient load estimates in the shared data set. Each discharger’s 1992 monthly (or seasonal) average effluent flows were averaged and then compared to discharger-specific LTA effluent flows. Each discharger-specific LTA effluent flow was calculated by averaging the discharger’s monthly average effluent flows from September 2013 to April 2017.

Based on the results of the aforementioned comparison (Table 10), the effluent flows underlying the 1992 annual nutrient load estimates in the shared data set appear to be reasonable for use in deriving baseline TN and TP loads for the 13 industrial dischargers. However, in most instances, the total phosphorus TPC average used for a given discharger was lower (often significantly lower) than the recent discharger-specific LTA concentration for TP. In most instances, the total nitrogen TPC average used for a given discharger was either significantly lower or significantly higher than the recent discharger-specific LTA concentration for TN.

Table 10. Comparison of effluent flows and TPCs underlying the 1992 annual nutrient load estimates in the data set shared by USGS with recent discharger-specific LTA effluent flows and TN and TP concentrations.

Discharger Information		TN Concentration (mg/L)			TP Concentration (mg/L)			Effluent Flow (MGD)		
Name	Outfall	92 TPC Avg	Recent LTA	% Change	92 TPC Avg	Recent LTA	% Change	92 Avg	Recent LTA	% Change
John Deere Dubuque	011	3.0	6.60	120%	0.0350	20.63	58835%	0.1255	0.0952	-24%
Equistar Chemicals	001	33.4	1.17	-96%	0.2800	0.72	157%	1.7188	1.6857	-2%
Roquette America	012	39.9	3.09	-92%	0.0365	2.77	7493%	2.4784	4.0552	64%
Whirlpool Corp-Amana	002	Not Avail	44.05	--	4.1000	5.37	31%	0.0731	0.0420	-43%
Whirlpool Corp-Amana	003	Not Avail	67.12	--	4.1000	11.38	178%	0.0548	0.0610	11%
Iowa Premium Beef	001	10.8	17.30	60%	0.9700	7.70	694%	0.8760	0.8545	-2%
Assc Milk Producers	001	36.5	4.00	-89%	1.3100	3.40	160%	0.1044	0.1305	25%
Tama Paperboard	001	1.4	13.10	836%	0.5028	1.00	99%	0.2333	0.1831	-22%
Tyson Fresh Meats-Perry	001	10.8	34.90	223%	0.6350	8.40	1223%	0.9262	1.0318	11%
Twin County Dairy	001	36.5	8.74	-76%	1.0391	19.47	1773%	0.0615	0.1303	112%
Cambrex Charles City	002	Not Avail	13.5	--	2.7000	5.10	89%	0.1724	0.1530	-11%
Swiss Valley Farms	001	36.5	40.20	10%	14.3823	14.10	-2%	0.2758	0.2914	6%
Manildra Milling Corp	001	16.8	8.70	-48%	0.7833	1.00	28%	0.0630	0.1515	140%
Cargill, Inc.	001	39.9	48.04	20%	0.0365	25.61	70058%	4.7042	6.5374	39%

Derivation of 1992 Annual Baseline Nutrient Load Estimates for Industrial Dischargers with BTP

A multi-faceted approach based on data availability was used to derive the 1992 annual baseline TN and TP loads shown in Table 11 below for the industrial dischargers with BTP. Individual discharger-specific baseline TP and TP loads are provided in Appendix B.

For the 13 industrial dischargers identified in Table 10, monthly TN and TP loads were derived in the following manner (referred to as a Type 1 estimate in Appendix B). The monthly average effluent flows from 1992 in the shared data set were multiplied by the recent discharger-specific LTA concentrations for TN and TP shown in Table 10, by the number of days in the month, and by a conversion factor of 8.3453. As previously described, the LTA concentrations reflect the average of daily TN and TP effluent concentrations from September 2013 to April 2017, except in the case of Cargill, Inc. Where only seasonal average effluent flows were available from 1992, the seasonal flow was applied to each month during the season. The monthly loads were then summed to derive an annual load for each of the 13 dischargers.

Note that although the LTA concentrations for the 13 dischargers are reflective of more recent data, they were used to derive the baseline loads since actual measured discharger-specific TN and TP concentrations are not available for 1992. Additionally, the LTA concentrations are believed to be more representative of concentrations that would have existed in 1992 than the TPCs used to derive the 1992 annual nutrient loads in the shared data set. This conclusion is based on the TPC evaluation previously described and the discharger-specific nature of the LTA concentrations.

For 11 industrial dischargers, effluent flows from 1992 were not available in the shared data set. For 9 of these dischargers, annual baseline TN and TP loads were derived by multiplying LTA loads for TN and TP by 365 days per year (referred to as a Type 2 estimate in Appendix B). The LTA loads reflect the average of daily TN and TP effluent loads available from September 2013 to April 2017. In three cases (Monsanto, Gelita, and Ajinomoto Heartland), only more recent daily effluent loads were available so these were used to calculate the LTA.

For one of the aforementioned 11 industrial dischargers (Pinnacle Foods Group), daily TN and TP effluent loads were not available in the facility’s discharge monitoring reports. Therefore, a LTA effluent flow was derived by averaging daily effluent flows for the discharger from September 2013 to April 2017. The LTA effluent flow was multiplied by the average of the daily TN and TP effluent concentrations from September 2013 to April 2017. These results were then multiplied by a conversion factor of 8.3453 and by 365 days per year to derive the annual TN and TP baseline loads (referred to as a Type 3 estimate in Appendix B).

For one of the aforementioned 11 industrial dischargers (Northern Natural Gas – Redfield), no TN or TP effluent concentration data were available. Since the effluent from this facility is not anticipated to be high in TN or TP,

the INRS concentration targets of 10 mg/L for TN and 1 mg/L for TP were used to derive the annual baseline loads. These concentrations were multiplied by the average of combined daily effluent flows from outfalls 001 and 002 from September 2013 to April 2017. These results were then multiplied by a conversion factor of 8.3453 and by 365 days per year to derive the annual TN and TP baseline loads (referred to as a Type 4 estimate in Appendix B).

The 1992 annual baseline TN and TP load estimates shown in Table 11 reflect the sum of the annual loads for each of the 24 industrial dischargers described above. For the remaining 8 industrial dischargers that did not exist in 1992, baseline TN and TP loads were set equal to zero (referred to as a Type 5 estimate in Appendix B).

Table 11. 1992 Annual Baseline TN and TP Load Estimates for Major and Minor Industrial Dischargers with Biological Treatment of Process Wastewater.

Point Source Discharge Type	Total Nitrogen		Total Phosphorus	
	lbs	tons	lbs	tons
Industrial (major and minor with BTP)	2,523,018	1,262	1,365,945	683

Conclusions

The 1980 -1996 point source annual baseline TN and TP load estimates were derived using actual facility-specific effluent flows from 1992 where available and concentrations based on actual TN and TP effluent concentration data for Iowa point sources now available through implementation of the INRS.

Moving forward, the Iowa-specific TPCs derived under this effort may also be useful for estimating nutrient loads in future INRS annual reports for those major POTWs lacking TN and TP effluent concentration data (until such time as those data become available). Additionally, as additional data becomes available further refinement of these baseline estimates may be possible in the future.

References

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Appendix A: 1992 Annual Baseline TN and TP Load Estimates for 106 Major POTWs
(Note: monthly loads estimates are presented for the sole purpose of estimating annual loads)

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
1	2503001	ADEL CITY OF STP	Jan	WI	0.51	15.8	2,091	3.2	423
2	2503001	ADEL CITY OF STP	Feb	WI	0.51	15.8	1,888	3.2	382
3	2503001	ADEL CITY OF STP	Mar	SP	0.67	15.8	2,743	3.2	555
4	2503001	ADEL CITY OF STP	Apr	SP	0.67	15.8	2,654	3.2	538
5	2503001	ADEL CITY OF STP	May	SP	0.67	15.8	2,743	3.2	555
6	2503001	ADEL CITY OF STP	Jun	SU	0.43	15.8	1,709	3.2	346
7	2503001	ADEL CITY OF STP	Jul	SU	0.43	15.8	1,766	3.2	358
8	2503001	ADEL CITY OF STP	Aug	SU	0.43	15.8	1,766	3.2	358
9	2503001	ADEL CITY OF STP	Sep	FA	0.49	15.8	1,956	3.2	396
10	2503001	ADEL CITY OF STP	Oct	FA	0.49	15.8	2,021	3.2	409
11	2503001	ADEL CITY OF STP	Nov	FA	0.49	15.8	1,956	3.2	396
12	2503001	ADEL CITY OF STP	Dec	WI	0.51	15.8	2,091	3.2	423
13	2503001	ADEL CITY OF STP	Annual				25,384		5,141
14	5502001	ALGONA CITY OF STP	Jan	WI	1.04	13.3	3,572	2.6	698
15	5502001	ALGONA CITY OF STP	Feb	WI	1.21	13.3	3,760	2.6	735
16	5502001	ALGONA CITY OF STP	Mar	SP	2.68	13.3	9,235	2.6	1,805
17	5502001	ALGONA CITY OF STP	Apr	SP	1.44	13.3	4,795	2.6	937
18	5502001	ALGONA CITY OF STP	May	SP	0.79	15.8	3,229	3.2	654
19	5502001	ALGONA CITY OF STP	Jun	SU	0.62	15.8	2,468	3.2	500
20	5502001	ALGONA CITY OF STP	Jul	SU	0.83	15.8	3,389	3.2	686
21	5502001	ALGONA CITY OF STP	Aug	SU	0.69	15.8	2,812	3.2	570
22	5502001	ALGONA CITY OF STP	Sep	FA	0.54	15.8	2,124	3.2	430
23	5502001	ALGONA CITY OF STP	Oct	FA	0.71	15.8	2,882	3.2	584
24	5502001	ALGONA CITY OF STP	Nov	FA	0.98	15.8	3,892	3.2	788
25	5502001	ALGONA CITY OF STP	Dec	WI	0.83	15.8	3,380	3.2	685
26	5502001	ALGONA CITY OF STP	Annual				45,539		9,073
27	8503001	AMES WPCF	Jan	WI	5.78	24.7	36,932	2.9	4,336
28	8503001	AMES WPCF	Feb	WI	6.02	24.7	34,727	2.9	4,077
29	8503001	AMES WPCF	Mar	SP	5.48	24.7	35,003	2.9	4,110
30	8503001	AMES WPCF	Apr	SP	5.92	24.7	36,639	2.9	4,302
31	8503001	AMES WPCF	May	SP	5.70	24.7	36,432	2.9	4,277
32	8503001	AMES WPCF	Jun	SU	4.35	13.3	14,492	2.6	2,833
33	8503001	AMES WPCF	Jul	SU	4.32	13.3	14,851	2.6	2,903
34	8503001	AMES WPCF	Aug	SU	5.29	24.7	33,787	2.9	3,967
35	8503001	AMES WPCF	Sep	FA	7.33	24.7	45,299	2.9	5,319
36	8503001	AMES WPCF	Oct	FA	5.74	24.7	36,696	2.9	4,308
37	8503001	AMES WPCF	Nov	FA	4.54	13.3	15,128	2.6	2,957
38	8503001	AMES WPCF	Dec	WI	5.90	24.7	37,690	2.9	4,425
39	8503001	AMES WPCF	Annual				377,676		47,815
40	5307001	ANAMOSA CITY OF STP	Jan	WI	0.50	15.8	2,060	3.2	417
41	5307001	ANAMOSA CITY OF STP	Feb	WI	0.56	15.8	2,082	3.2	422
42	5307001	ANAMOSA CITY OF STP	Mar	SP	0.56	15.8	2,293	3.2	464
43	5307001	ANAMOSA CITY OF STP	Apr	SP	0.65	15.8	2,575	3.2	522
44	5307001	ANAMOSA CITY OF STP	May	SP	0.59	15.8	2,416	3.2	489
45	5307001	ANAMOSA CITY OF STP	Jun	SU	0.57	15.8	2,243	3.2	454
46	5307001	ANAMOSA CITY OF STP	Jul	SU	0.64	15.8	2,600	3.2	527
47	5307001	ANAMOSA CITY OF STP	Aug	SU	0.61	15.8	2,510	3.2	508
48	5307001	ANAMOSA CITY OF STP	Sep	FA	0.60	15.8	2,389	3.2	484
49	5307001	ANAMOSA CITY OF STP	Oct	FA	0.53	15.8	2,166	3.2	439
50	5307001	ANAMOSA CITY OF STP	Nov	FA	0.67	15.8	2,634	3.2	534
51	5307001	ANAMOSA CITY OF STP	Dec	WI	0.60	15.8	2,465	3.2	499
52	5307001	ANAMOSA CITY OF STP	Annual				28,434		5,759
53	7709001	ANKENY CITY OF STP	Jan	WI	3.08	13.3	10,591	2.6	2,070
54	7709001	ANKENY CITY OF STP	Feb	WI	3.50	13.3	10,877	2.6	2,126
55	7709001	ANKENY CITY OF STP	Mar	SP	3.80	13.3	13,082	2.6	2,557
56	7709001	ANKENY CITY OF STP	Apr	SP	3.49	13.3	11,611	2.6	2,270
57	7709001	ANKENY CITY OF STP	May	SP	2.50	13.3	8,602	2.6	1,682
58	7709001	ANKENY CITY OF STP	Jun	SU	1.80	13.3	5,994	2.6	1,172
59	7709001	ANKENY CITY OF STP	Jul	SU	3.34	13.3	11,492	2.6	2,247

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
60	7709001	ANKENY CITY OF STP	Aug	SU	3.04	13.3	10,460	2.6	2,045
61	7709001	ANKENY CITY OF STP	Sep	FA	2.29	13.3	7,609	2.6	1,487
62	7709001	ANKENY CITY OF STP	Oct	FA	1.76	13.3	6,056	2.6	1,184
63	7709001	ANKENY CITY OF STP	Nov	FA	1.77	13.3	5,884	2.6	1,150
64	7709001	ANKENY CITY OF STP	Dec	WI	3.17	13.3	10,897	2.6	2,130
65	7709001	ANKENY CITY OF STP	Annual				113,153		22,120
66	1509001	ATLANTIC CITY OF STP	Jan	WI	0.33	15.8	1,365	3.2	277
67	1509001	ATLANTIC CITY OF STP	Feb	WI	0.37	15.8	1,377	3.2	279
68	1509001	ATLANTIC CITY OF STP	Mar	SP	0.32	15.8	1,320	3.2	267
69	1509001	ATLANTIC CITY OF STP	Apr	SP	0.47	15.8	1,855	3.2	376
70	1509001	ATLANTIC CITY OF STP	May	SP	0.25	15.8	1,026	3.2	208
71	1509001	ATLANTIC CITY OF STP	Jun	SU	0.22	15.8	862	3.2	175
72	1509001	ATLANTIC CITY OF STP	Jul	SU	0.38	15.8	1,545	3.2	313
73	1509001	ATLANTIC CITY OF STP	Aug	SU	0.91	15.8	3,728	3.2	755
74	1509001	ATLANTIC CITY OF STP	Sep	FA	1.68	13.3	5,594	2.6	1,094
75	1509001	ATLANTIC CITY OF STP	Oct	FA	0.62	15.8	2,522	3.2	511
76	1509001	ATLANTIC CITY OF STP	Nov	FA	0.54	15.8	2,120	3.2	429
77	1509001	ATLANTIC CITY OF STP	Dec	WI	0.62	15.8	2,522	3.2	511
78	1509001	ATLANTIC CITY OF STP	Annual				25,837		5,193
79	0819001	BOONE CITY OF STP	Jan	WI	2.19	13.3	7,528	2.6	1,472
80	0819001	BOONE CITY OF STP	Feb	WI	2.47	13.3	7,670	2.6	1,499
81	0819001	BOONE CITY OF STP	Mar	SP	3.37	13.3	11,609	2.6	2,269
82	0819001	BOONE CITY OF STP	Apr	SP	4.23	13.3	14,085	2.6	2,753
83	0819001	BOONE CITY OF STP	May	SP	2.57	13.3	8,853	2.6	1,731
84	0819001	BOONE CITY OF STP	Jun	SU	1.56	13.3	5,178	2.6	1,012
85	0819001	BOONE CITY OF STP	Jul	SU	2.39	13.3	8,237	2.6	1,610
86	0819001	BOONE CITY OF STP	Aug	SU	2.03	13.3	6,999	2.6	1,368
87	0819001	BOONE CITY OF STP	Sep	FA	1.75	13.3	5,840	2.6	1,142
88	0819001	BOONE CITY OF STP	Oct	FA	1.36	13.3	4,662	2.6	911
89	0819001	BOONE CITY OF STP	Nov	FA	2.13	13.3	7,099	2.6	1,388
90	0819001	BOONE CITY OF STP	Dec	WI	2.34	13.3	8,045	2.6	1,573
91	0819001	BOONE CITY OF STP	Annual				95,805		18,729
92	4103001	BRITT CITY OF STP	Jan	WI	0.32	15.8	1,296	3.2	262
93	4103001	BRITT CITY OF STP	Feb	WI	0.35	15.8	1,281	3.2	259
94	4103001	BRITT CITY OF STP	Mar	SP	0.81	15.8	3,295	3.2	667
95	4103001	BRITT CITY OF STP	Apr	SP	0.66	15.8	2,595	3.2	526
96	4103001	BRITT CITY OF STP	May	SP	0.47	15.8	1,929	3.2	391
97	4103001	BRITT CITY OF STP	Jun	SU	0.32	15.8	1,250	3.2	253
98	4103001	BRITT CITY OF STP	Jul	SU	0.49	15.8	1,995	3.2	404
99	4103001	BRITT CITY OF STP	Aug	SU	0.42	15.8	1,721	3.2	349
100	4103001	BRITT CITY OF STP	Sep	FA	0.37	15.8	1,448	3.2	293
101	4103001	BRITT CITY OF STP	Oct	FA	0.40	15.8	1,619	3.2	328
102	4103001	BRITT CITY OF STP	Nov	FA	0.63	15.8	2,484	3.2	503
103	4103001	BRITT CITY OF STP	Dec	WI	0.42	15.8	1,704	3.2	345
104	4103001	BRITT CITY OF STP	Annual				22,616		4,581
105	2909001	BURLINGTON CITY OF STP	Jan	WI	6.99	24.7	44,672	2.9	5,245
106	2909001	BURLINGTON CITY OF STP	Feb	WI	6.99	24.7	40,349	2.9	4,737
107	2909001	BURLINGTON CITY OF STP	Mar	SP	7.11	24.7	45,433	2.9	5,334
108	2909001	BURLINGTON CITY OF STP	Apr	SP	7.11	24.7	43,967	2.9	5,162
109	2909001	BURLINGTON CITY OF STP	May	SP	7.11	24.7	45,433	2.9	5,334
110	2909001	BURLINGTON CITY OF STP	Jun	SU	8.60	24.7	53,187	2.9	6,245
111	2909001	BURLINGTON CITY OF STP	Jul	SU	8.60	24.7	54,960	2.9	6,453
112	2909001	BURLINGTON CITY OF STP	Aug	SU	8.60	24.7	54,960	2.9	6,453
113	2909001	BURLINGTON CITY OF STP	Sep	FA	7.17	24.7	44,335	2.9	5,205
114	2909001	BURLINGTON CITY OF STP	Oct	FA	7.17	24.7	45,813	2.9	5,379
115	2909001	BURLINGTON CITY OF STP	Nov	FA	7.17	24.7	44,335	2.9	5,205
116	2909001	BURLINGTON CITY OF STP	Dec	WI	6.99	24.7	44,672	2.9	5,245
117	2909001	BURLINGTON CITY OF STP	Annual				562,119		65,998
118	9113001	CARLISLE CITY OF STP	Jan	WI	0.28	15.8	1,161	3.2	235
119	9113001	CARLISLE CITY OF STP	Feb	WI	0.60	15.8	2,223	3.2	450
120	9113001	CARLISLE CITY OF STP	Mar	SP	0.70	15.8	2,878	3.2	583
121	9113001	CARLISLE CITY OF STP	Apr	SP	0.37	15.8	1,468	3.2	297
122	9113001	CARLISLE CITY OF STP	May	SP	0.60	15.8	2,457	3.2	498

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
123	9113001	CARLISLE CITY OF STP	Jun	SU	0.39	15.8	1,551	3.2	314
124	9113001	CARLISLE CITY OF STP	Jul	SU	0.46	15.8	1,860	3.2	377
125	9113001	CARLISLE CITY OF STP	Aug	SU	0.35	15.8	1,443	3.2	292
126	9113001	CARLISLE CITY OF STP	Sep	FA	0.30	15.8	1,187	3.2	240
127	9113001	CARLISLE CITY OF STP	Oct	FA	0.35	15.8	1,447	3.2	293
128	9113001	CARLISLE CITY OF STP	Nov	FA	0.35	15.8	1,400	3.2	284
129	9113001	CARLISLE CITY OF STP	Dec	WI	0.38	15.8	1,537	3.2	311
130	9113001	CARLISLE CITY OF STP	Annual				20,609		4,174
131	1415001	CARROLL, CITY OF STP	Jan	WI	1.55	13.3	5,340	2.6	1,044
132	1415001	CARROLL, CITY OF STP	Feb	WI	1.51	13.3	4,680	2.6	915
133	1415001	CARROLL, CITY OF STP	Mar	SP	1.73	13.3	5,956	2.6	1,164
134	1415001	CARROLL, CITY OF STP	Apr	SP	0.20	15.8	773	3.2	156
135	1415001	CARROLL, CITY OF STP	May	SP	0.17	15.8	705	3.2	143
136	1415001	CARROLL, CITY OF STP	Jun	SU	0.15	15.8	580	3.2	118
137	1415001	CARROLL, CITY OF STP	Jul	SU	0.15	15.8	601	3.2	122
138	1415001	CARROLL, CITY OF STP	Aug	SU	1.49	13.3	5,123	2.6	1,002
139	1415001	CARROLL, CITY OF STP	Sep	FA	2.06	13.3	6,846	2.6	1,338
140	1415001	CARROLL, CITY OF STP	Oct	FA	1.71	13.3	5,897	2.6	1,153
141	1415001	CARROLL, CITY OF STP	Nov	FA	1.93	13.3	6,430	2.6	1,257
142	1415001	CARROLL, CITY OF STP	Dec	WI	1.93	13.3	6,623	2.6	1,295
143	1415001	CARROLL, CITY OF STP	Annual				49,555		9,706
144	5318001	CASCADE CITY OF STP	Jan	WI	0.15	15.8	595	3.2	120
145	5318001	CASCADE CITY OF STP	Feb	WI	0.15	15.8	537	3.2	109
146	5318001	CASCADE CITY OF STP	Mar	SP	0.15	15.8	601	3.2	122
147	5318001	CASCADE CITY OF STP	Apr	SP	0.15	15.8	581	3.2	118
148	5318001	CASCADE CITY OF STP	May	SP	0.15	15.8	601	3.2	122
149	5318001	CASCADE CITY OF STP	Jun	SU	0.17	15.8	661	3.2	134
150	5318001	CASCADE CITY OF STP	Jul	SU	0.17	15.8	683	3.2	138
151	5318001	CASCADE CITY OF STP	Aug	SU	0.17	15.8	683	3.2	138
152	5318001	CASCADE CITY OF STP	Sep	FA	0.15	15.8	589	3.2	119
153	5318001	CASCADE CITY OF STP	Oct	FA	0.15	15.8	609	3.2	123
154	5318001	CASCADE CITY OF STP	Nov	FA	0.15	15.8	589	3.2	119
155	5318001	CASCADE CITY OF STP	Dec	WI	0.15	15.8	595	3.2	120
156	5318001	CASCADE CITY OF STP	Annual				7,324		1,483
157	0709001	CEDAR FALLS CITY OF STP	Jan	WI	6.34	24.7	40,513	2.9	4,757
158	0709001	CEDAR FALLS CITY OF STP	Feb	WI	7.14	24.7	41,209	2.9	4,838
159	0709001	CEDAR FALLS CITY OF STP	Mar	SP	8.80	24.7	56,232	2.9	6,602
160	0709001	CEDAR FALLS CITY OF STP	Apr	SP	8.56	24.7	52,934	2.9	6,215
161	0709001	CEDAR FALLS CITY OF STP	May	SP	6.47	24.7	41,343	2.9	4,854
162	0709001	CEDAR FALLS CITY OF STP	Jun	SU	5.17	24.7	31,971	2.9	3,754
163	0709001	CEDAR FALLS CITY OF STP	Jul	SU	5.18	24.7	33,100	2.9	3,886
164	0709001	CEDAR FALLS CITY OF STP	Aug	SU	4.90	13.3	16,860	2.6	3,296
165	0709001	CEDAR FALLS CITY OF STP	Sep	FA	4.65	13.3	15,483	2.6	3,027
166	0709001	CEDAR FALLS CITY OF STP	Oct	FA	5.00	13.3	17,204	2.6	3,363
167	0709001	CEDAR FALLS CITY OF STP	Nov	FA	6.21	24.7	38,402	2.9	4,509
168	0709001	CEDAR FALLS CITY OF STP	Dec	WI	6.38	24.7	40,768	2.9	4,787
169	0709001	CEDAR FALLS CITY OF STP	Annual				426,019		53,887
170	5715001	CEDAR RAPIDS CITY OF STP	Jan	WI	37.16	24.7	237,452	2.9	27,879
171	5715001	CEDAR RAPIDS CITY OF STP	Feb	WI	37.16	24.7	214,473	2.9	25,181
172	5715001	CEDAR RAPIDS CITY OF STP	Mar	SP	36.05	24.7	230,359	2.9	27,046
173	5715001	CEDAR RAPIDS CITY OF STP	Apr	SP	36.05	24.7	222,928	2.9	26,174
174	5715001	CEDAR RAPIDS CITY OF STP	May	SP	36.05	24.7	230,359	2.9	27,046
175	5715001	CEDAR RAPIDS CITY OF STP	Jun	SU	34.59	24.7	213,900	2.9	25,114
176	5715001	CEDAR RAPIDS CITY OF STP	Jul	SU	34.59	24.7	221,030	2.9	25,951
177	5715001	CEDAR RAPIDS CITY OF STP	Aug	SU	34.59	24.7	221,030	2.9	25,951
178	5715001	CEDAR RAPIDS CITY OF STP	Sep	FA	32.90	24.7	203,449	2.9	23,887
179	5715001	CEDAR RAPIDS CITY OF STP	Oct	FA	32.90	24.7	210,231	2.9	24,683
180	5715001	CEDAR RAPIDS CITY OF STP	Nov	FA	32.90	24.7	203,449	2.9	23,887
181	5715001	CEDAR RAPIDS CITY OF STP	Dec	WI	37.16	24.7	237,452	2.9	27,879
182	5715001	CEDAR RAPIDS CITY OF STP	Annual				2,646,114		310,677
183	0407003	CENTERVILLE CITY OF STP (EAST)	Jan	WI	0.47	15.8	1,925	3.2	390
184	0407003	CENTERVILLE CITY OF STP (EAST)	Feb	WI	0.55	15.8	2,038	3.2	413
185	0407003	CENTERVILLE CITY OF STP (EAST)	Mar	SP	0.55	15.8	2,240	3.2	454

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
186	0407003	CENTERVILLE CITY OF STP (EAST)	Apr	SP	0.78	15.8	3,070	3.2	622
187	0407003	CENTERVILLE CITY OF STP (EAST)	May	SP	0.43	15.8	1,762	3.2	357
188	0407003	CENTERVILLE CITY OF STP (EAST)	Jun	SU	0.32	15.8	1,282	3.2	260
189	0407003	CENTERVILLE CITY OF STP (EAST)	Jul	SU	0.55	15.8	2,228	3.2	451
190	0407003	CENTERVILLE CITY OF STP (EAST)	Aug	SU	0.45	15.8	1,835	3.2	372
191	0407003	CENTERVILLE CITY OF STP (EAST)	Sep	FA	0.50	15.8	1,958	3.2	397
192	0407003	CENTERVILLE CITY OF STP (EAST)	Oct	FA	0.37	15.8	1,525	3.2	309
193	0407003	CENTERVILLE CITY OF STP (EAST)	Nov	FA	0.59	15.8	2,338	3.2	473
194	0407003	CENTERVILLE CITY OF STP (EAST)	Dec	WI	0.60	15.8	2,444	3.2	495
195	0407003	CENTERVILLE CITY OF STP (EAST)	Annual				24,644		4,991
196	5903001	CHARITON CITY OF STP	Jan	WI	0.75	15.8	3,049	3.2	618
197	5903001	CHARITON CITY OF STP	Feb	WI	0.97	15.8	3,563	3.2	722
198	5903001	CHARITON CITY OF STP	Mar	SP	0.82	15.8	3,344	3.2	677
199	5903001	CHARITON CITY OF STP	Apr	SP	1.26	13.3	4,192	2.6	820
200	5903001	CHARITON CITY OF STP	May	SP	0.62	15.8	2,542	3.2	515
201	5903001	CHARITON CITY OF STP	Jun	SU	0.50	15.8	1,966	3.2	398
202	5903001	CHARITON CITY OF STP	Jul	SU	0.85	15.8	3,458	3.2	700
203	5903001	CHARITON CITY OF STP	Aug	SU	0.74	15.8	3,033	3.2	614
204	5903001	CHARITON CITY OF STP	Sep	FA	1.28	13.3	4,269	2.6	834
205	5903001	CHARITON CITY OF STP	Oct	FA	0.59	15.8	2,399	3.2	486
206	5903001	CHARITON CITY OF STP	Nov	FA	1.06	13.3	3,530	2.6	690
207	5903001	CHARITON CITY OF STP	Dec	WI	1.34	13.3	4,600	2.6	899
208	5903001	CHARITON CITY OF STP	Annual				39,945		7,973
209	3405001	CHARLES CITY, CITY OF STP	Jan	WI	1.44	13.3	4,962	2.6	970
210	3405001	CHARLES CITY, CITY OF STP	Feb	WI	1.45	13.3	4,497	2.6	879
211	3405001	CHARLES CITY, CITY OF STP	Mar	SP	1.91	13.3	6,572	2.6	1,285
212	3405001	CHARLES CITY, CITY OF STP	Apr	SP	2.02	13.3	6,716	2.6	1,313
213	3405001	CHARLES CITY, CITY OF STP	May	SP	1.70	13.3	5,860	2.6	1,145
214	3405001	CHARLES CITY, CITY OF STP	Jun	SU	1.46	13.3	4,845	2.6	947
215	3405001	CHARLES CITY, CITY OF STP	Jul	SU	1.46	13.3	5,037	2.6	985
216	3405001	CHARLES CITY, CITY OF STP	Aug	SU	1.35	13.3	4,655	2.6	910
217	3405001	CHARLES CITY, CITY OF STP	Sep	FA	1.45	13.3	4,832	2.6	945
218	3405001	CHARLES CITY, CITY OF STP	Oct	FA	1.37	13.3	4,700	2.6	919
219	3405001	CHARLES CITY, CITY OF STP	Nov	FA	1.66	13.3	5,514	2.6	1,078
220	3405001	CHARLES CITY, CITY OF STP	Dec	WI	1.50	13.3	5,147	2.6	1,006
221	3405001	CHARLES CITY, CITY OF STP	Annual				63,337		12,382
222	1811002	CHEROKEE CITY OF STP	Jan	WI	0.81	15.8	3,311	3.2	671
223	1811002	CHEROKEE CITY OF STP	Feb	WI	0.77	15.8	2,843	3.2	576
224	1811002	CHEROKEE CITY OF STP	Mar	SP	1.02	13.3	3,510	2.6	686
225	1811002	CHEROKEE CITY OF STP	Apr	SP	1.20	13.3	3,996	2.6	781
226	1811002	CHEROKEE CITY OF STP	May	SP	1.29	13.3	4,439	2.6	868
227	1811002	CHEROKEE CITY OF STP	Jun	SU	1.05	13.3	3,496	2.6	683
228	1811002	CHEROKEE CITY OF STP	Jul	SU	1.09	13.3	3,750	2.6	733
229	1811002	CHEROKEE CITY OF STP	Aug	SU	1.16	13.3	3,991	2.6	780
230	1811002	CHEROKEE CITY OF STP	Sep	FA	1.21	13.3	4,029	2.6	788
231	1811002	CHEROKEE CITY OF STP	Oct	FA	0.89	15.8	3,638	3.2	737
232	1811002	CHEROKEE CITY OF STP	Nov	FA	1.29	13.3	4,295	2.6	840
233	1811002	CHEROKEE CITY OF STP	Dec	WI	1.04	13.3	3,578	2.6	700
234	1811002	CHEROKEE CITY OF STP	Annual				44,876		8,842
235	7329001	CLARINDA CITY OF STP	Jan	WI	0.84	15.8	3,421	3.2	693
236	7329001	CLARINDA CITY OF STP	Feb	WI	0.93	15.8	3,422	3.2	693
237	7329001	CLARINDA CITY OF STP	Mar	SP	1.06	13.3	3,640	2.6	712
238	7329001	CLARINDA CITY OF STP	Apr	SP	0.91	15.8	3,588	3.2	727
239	7329001	CLARINDA CITY OF STP	May	SP	1.44	13.3	4,968	2.6	971
240	7329001	CLARINDA CITY OF STP	Jun	SU	1.19	13.3	3,949	2.6	772
241	7329001	CLARINDA CITY OF STP	Jul	SU	0.92	15.8	3,761	3.2	762
242	7329001	CLARINDA CITY OF STP	Aug	SU	0.84	15.8	3,438	3.2	696
243	7329001	CLARINDA CITY OF STP	Sep	FA	1.12	13.3	3,739	2.6	731
244	7329001	CLARINDA CITY OF STP	Oct	FA	0.86	15.8	3,511	3.2	711
245	7329001	CLARINDA CITY OF STP	Nov	FA	1.36	13.3	4,525	2.6	885
246	7329001	CLARINDA CITY OF STP	Dec	WI	1.56	13.3	5,361	2.6	1,048
247	7329001	CLARINDA CITY OF STP	Annual				47,324		9,400
248	1716901	CLEAR LAKE SANITARY DISTRICT	Jan	WI	2.32	13.3	7,993	2.6	1,563

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
249	1716901	CLEAR LAKE SANITARY DISTRICT	Feb	WI	2.35	13.3	7,316	2.6	1,430
250	1716901	CLEAR LAKE SANITARY DISTRICT	Mar	SP	3.20	13.3	11,004	2.6	2,151
251	1716901	CLEAR LAKE SANITARY DISTRICT	Apr	SP	2.84	13.3	9,467	2.6	1,851
252	1716901	CLEAR LAKE SANITARY DISTRICT	May	SP	2.77	13.3	9,531	2.6	1,863
253	1716901	CLEAR LAKE SANITARY DISTRICT	Jun	SU	2.58	13.3	8,591	2.6	1,679
254	1716901	CLEAR LAKE SANITARY DISTRICT	Jul	SU	2.27	13.3	7,793	2.6	1,524
255	1716901	CLEAR LAKE SANITARY DISTRICT	Aug	SU	2.08	13.3	7,146	2.6	1,397
256	1716901	CLEAR LAKE SANITARY DISTRICT	Sep	FA	2.03	13.3	6,773	2.6	1,324
257	1716901	CLEAR LAKE SANITARY DISTRICT	Oct	FA	2.03	13.3	6,988	2.6	1,366
258	1716901	CLEAR LAKE SANITARY DISTRICT	Nov	FA	2.73	13.3	9,104	2.6	1,780
259	1716901	CLEAR LAKE SANITARY DISTRICT	Dec	WI	2.11	13.3	7,250	2.6	1,417
260	1716901	CLEAR LAKE SANITARY DISTRICT	Annual				98,955		19,345
261	2326001	CLINTON CITY OF STP	Jan	WI	6.10	24.7	38,953	2.9	4,573
262	2326001	CLINTON CITY OF STP	Feb	WI	6.79	24.7	39,212	2.9	4,604
263	2326001	CLINTON CITY OF STP	Mar	SP	7.18	24.7	45,880	2.9	5,387
264	2326001	CLINTON CITY OF STP	Apr	SP	8.03	24.7	49,681	2.9	5,833
265	2326001	CLINTON CITY OF STP	May	SP	6.56	24.7	41,931	2.9	4,923
266	2326001	CLINTON CITY OF STP	Jun	SU	5.15	24.7	31,822	2.9	3,736
267	2326001	CLINTON CITY OF STP	Jul	SU	6.57	24.7	41,957	2.9	4,926
268	2326001	CLINTON CITY OF STP	Aug	SU	5.40	24.7	34,493	2.9	4,050
269	2326001	CLINTON CITY OF STP	Sep	FA	6.80	24.7	42,026	2.9	4,934
270	2326001	CLINTON CITY OF STP	Oct	FA	5.00	24.7	31,969	2.9	3,753
271	2326001	CLINTON CITY OF STP	Nov	FA	7.68	24.7	47,517	2.9	5,579
272	2326001	CLINTON CITY OF STP	Dec	WI	7.32	24.7	46,743	2.9	5,488
273	2326001	CLINTON CITY OF STP	Annual				492,185		57,787
274	5208001	CORALVILLE CITY OF STP	Jan	WI	2.45	13.3	8,423	2.6	1,647
275	5208001	CORALVILLE CITY OF STP	Feb	WI	2.30	13.3	7,160	2.6	1,400
276	5208001	CORALVILLE CITY OF STP	Mar	SP	2.27	13.3	7,811	2.6	1,527
277	5208001	CORALVILLE CITY OF STP	Apr	SP	2.30	13.3	7,672	2.6	1,500
278	5208001	CORALVILLE CITY OF STP	May	SP	2.16	13.3	7,432	2.6	1,453
279	5208001	CORALVILLE CITY OF STP	Jun	SU	2.16	13.3	7,192	2.6	1,406
280	5208001	CORALVILLE CITY OF STP	Jul	SU	2.16	13.3	7,432	2.6	1,453
281	5208001	CORALVILLE CITY OF STP	Aug	SU	2.16	13.3	7,432	2.6	1,453
282	5208001	CORALVILLE CITY OF STP	Sep	FA	2.16	13.3	7,192	2.6	1,406
283	5208001	CORALVILLE CITY OF STP	Oct	FA	2.16	13.3	7,432	2.6	1,453
284	5208001	CORALVILLE CITY OF STP	Nov	FA	2.16	13.3	7,192	2.6	1,406
285	5208001	CORALVILLE CITY OF STP	Dec	WI	2.16	13.3	7,432	2.6	1,453
286	5208001	CORALVILLE CITY OF STP	Annual				89,803		17,555
287	7820001	COUNCIL BLUFFS CITY OF STP	Jan	WI	5.64	24.7	36,040	2.9	4,231
288	7820001	COUNCIL BLUFFS CITY OF STP	Feb	WI	5.95	24.7	34,341	2.9	4,032
289	7820001	COUNCIL BLUFFS CITY OF STP	Mar	SP	5.99	24.7	38,276	2.9	4,494
290	7820001	COUNCIL BLUFFS CITY OF STP	Apr	SP	5.71	24.7	35,310	2.9	4,146
291	7820001	COUNCIL BLUFFS CITY OF STP	May	SP	5.78	24.7	36,934	2.9	4,336
292	7820001	COUNCIL BLUFFS CITY OF STP	Jun	SU	5.76	24.7	35,619	2.9	4,182
293	7820001	COUNCIL BLUFFS CITY OF STP	Jul	SU	6.30	24.7	40,257	2.9	4,727
294	7820001	COUNCIL BLUFFS CITY OF STP	Aug	SU	5.65	24.7	36,103	2.9	4,239
295	7820001	COUNCIL BLUFFS CITY OF STP	Sep	FA	6.13	24.7	37,907	2.9	4,451
296	7820001	COUNCIL BLUFFS CITY OF STP	Oct	FA	6.26	24.7	40,001	2.9	4,697
297	7820001	COUNCIL BLUFFS CITY OF STP	Nov	FA	6.50	24.7	40,195	2.9	4,719
298	7820001	COUNCIL BLUFFS CITY OF STP	Dec	WI	6.67	24.7	42,621	2.9	5,004
299	7820001	COUNCIL BLUFFS CITY OF STP	Annual				453,605		53,257
300	4515001	CRESCO CITY OF STP	Jan	WI	0.70	15.8	2,865	3.2	580
301	4515001	CRESCO CITY OF STP	Feb	WI	0.55	15.8	2,038	3.2	413
302	4515001	CRESCO CITY OF STP	Mar	SP	1.43	13.3	4,907	2.6	959
303	4515001	CRESCO CITY OF STP	Apr	SP	0.81	15.8	3,216	3.2	651
304	4515001	CRESCO CITY OF STP	May	SP	1.71	13.3	5,870	2.6	1,148
305	4515001	CRESCO CITY OF STP	Jun	SU	1.12	13.3	3,723	2.6	728
306	4515001	CRESCO CITY OF STP	Jul	SU	0.77	15.8	3,151	3.2	638
307	4515001	CRESCO CITY OF STP	Aug	SU	0.63	15.8	2,555	3.2	517
308	4515001	CRESCO CITY OF STP	Sep	FA	1.06	13.3	3,526	2.6	689
309	4515001	CRESCO CITY OF STP	Oct	FA	0.74	15.8	3,041	3.2	616
310	4515001	CRESCO CITY OF STP	Nov	FA	0.95	15.8	3,774	3.2	764
311	4515001	CRESCO CITY OF STP	Dec	WI	0.85	15.8	3,466	3.2	702

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
312	4515001	CRESCO CITY OF STP	Annual				42,132		8,406
313	8816001	CRESTON CITY OF STP	Jan	WI	1.30	13.3	4,483	2.6	876
314	8816001	CRESTON CITY OF STP	Feb	WI	1.06	13.3	3,279	2.6	641
315	8816001	CRESTON CITY OF STP	Mar	SP	1.04	13.3	3,578	2.6	700
316	8816001	CRESTON CITY OF STP	Apr	SP	0.88	15.8	3,481	3.2	705
317	8816001	CRESTON CITY OF STP	May	SP	1.72	13.3	5,915	2.6	1,156
318	8816001	CRESTON CITY OF STP	Jun	SU	1.30	13.3	4,329	2.6	846
319	8816001	CRESTON CITY OF STP	Jul	SU	0.96	15.8	3,940	3.2	798
320	8816001	CRESTON CITY OF STP	Aug	SU	1.57	13.3	5,399	2.6	1,055
321	8816001	CRESTON CITY OF STP	Sep	FA	1.13	13.3	3,769	2.6	737
322	8816001	CRESTON CITY OF STP	Oct	FA	1.01	13.3	3,479	2.6	680
323	8816001	CRESTON CITY OF STP	Nov	FA	1.65	13.3	5,491	2.6	1,073
324	8816001	CRESTON CITY OF STP	Dec	WI	1.97	13.3	6,775	2.6	1,324
325	8816001	CRESTON CITY OF STP	Annual				53,917		10,593
326	8222003	DAVENPORT CITY OF STP	Jan	WI	19.40	24.7	123,966	2.9	14,555
327	8222003	DAVENPORT CITY OF STP	Feb	WI	22.50	24.7	129,861	2.9	15,247
328	8222003	DAVENPORT CITY OF STP	Mar	SP	25.90	24.7	165,501	2.9	19,431
329	8222003	DAVENPORT CITY OF STP	Apr	SP	26.70	24.7	165,109	2.9	19,385
330	8222003	DAVENPORT CITY OF STP	May	SP	23.60	24.7	150,804	2.9	17,706
331	8222003	DAVENPORT CITY OF STP	Jun	SU	19.10	24.7	118,112	2.9	13,867
332	8222003	DAVENPORT CITY OF STP	Jul	SU	30.60	24.7	195,534	2.9	22,957
333	8222003	DAVENPORT CITY OF STP	Aug	SU	23.00	24.7	146,970	2.9	17,256
334	8222003	DAVENPORT CITY OF STP	Sep	FA	26.60	24.7	164,491	2.9	19,313
335	8222003	DAVENPORT CITY OF STP	Oct	FA	19.80	24.7	126,522	2.9	14,855
336	8222003	DAVENPORT CITY OF STP	Nov	FA	30.20	24.7	186,753	2.9	21,926
337	8222003	DAVENPORT CITY OF STP	Dec	WI	31.20	24.7	199,368	2.9	23,408
338	8222003	DAVENPORT CITY OF STP	Annual				1,872,990		219,906
339	9630001	DECORAH CITY OF STP	Jan	WI	1.18	13.3	4,064	2.6	794
340	9630001	DECORAH CITY OF STP	Feb	WI	1.22	13.3	3,788	2.6	741
341	9630001	DECORAH CITY OF STP	Mar	SP	1.58	13.3	5,426	2.6	1,061
342	9630001	DECORAH CITY OF STP	Apr	SP	1.88	13.3	6,260	2.6	1,224
343	9630001	DECORAH CITY OF STP	May	SP	1.42	13.3	4,879	2.6	954
344	9630001	DECORAH CITY OF STP	Jun	SU	1.05	13.3	3,490	2.6	682
345	9630001	DECORAH CITY OF STP	Jul	SU	1.18	13.3	4,074	2.6	796
346	9630001	DECORAH CITY OF STP	Aug	SU	1.03	13.3	3,530	2.6	690
347	9630001	DECORAH CITY OF STP	Sep	FA	1.15	13.3	3,816	2.6	746
348	9630001	DECORAH CITY OF STP	Oct	FA	1.08	13.3	3,699	2.6	723
349	9630001	DECORAH CITY OF STP	Nov	FA	1.12	13.3	3,736	2.6	730
350	9630001	DECORAH CITY OF STP	Dec	WI	1.09	13.3	3,737	2.6	730
351	9630001	DECORAH CITY OF STP	Annual				50,498		9,872
352	2424001	DENISON MUNICIPAL UTILITIES	Jan	WI	2.88	13.3	9,892	2.6	1,934
353	2424001	DENISON MUNICIPAL UTILITIES	Feb	WI	1.82	13.3	5,641	2.6	1,103
354	2424001	DENISON MUNICIPAL UTILITIES	Mar	SP	2.54	13.3	8,729	2.6	1,706
355	2424001	DENISON MUNICIPAL UTILITIES	Apr	SP	2.94	13.3	9,800	2.6	1,916
356	2424001	DENISON MUNICIPAL UTILITIES	May	SP	0.23	15.8	944	3.2	191
357	2424001	DENISON MUNICIPAL UTILITIES	Jun	SU	2.22	13.3	7,402	2.6	1,447
358	2424001	DENISON MUNICIPAL UTILITIES	Jul	SU	2.48	13.3	8,537	2.6	1,669
359	2424001	DENISON MUNICIPAL UTILITIES	Aug	SU	2.46	13.3	8,461	2.6	1,654
360	2424001	DENISON MUNICIPAL UTILITIES	Sep	FA	2.52	13.3	8,404	2.6	1,643
361	2424001	DENISON MUNICIPAL UTILITIES	Oct	FA	2.65	13.3	9,108	2.6	1,780
362	2424001	DENISON MUNICIPAL UTILITIES	Nov	FA	2.71	13.3	9,014	2.6	1,762
363	2424001	DENISON MUNICIPAL UTILITIES	Dec	WI	2.06	13.3	7,102	2.6	1,388
364	2424001	DENISON MUNICIPAL UTILITIES	Annual				93,032		18,193
365	7727001	DES MOINES METROPOLITAN WRF	Jan	WI	48.50	24.7	309,915	2.9	36,387
366	7727001	DES MOINES METROPOLITAN WRF	Feb	WI	53.20	24.7	307,050	2.9	36,050
367	7727001	DES MOINES METROPOLITAN WRF	Mar	SP	64.30	24.7	410,877	2.9	48,241
368	7727001	DES MOINES METROPOLITAN WRF	Apr	SP	73.50	24.7	454,514	2.9	53,364
369	7727001	DES MOINES METROPOLITAN WRF	May	SP	58.00	24.7	370,620	2.9	43,514
370	7727001	DES MOINES METROPOLITAN WRF	Jun	SU	40.60	24.7	251,065	2.9	29,477
371	7727001	DES MOINES METROPOLITAN WRF	Jul	SU	50.40	24.7	322,056	2.9	37,812
372	7727001	DES MOINES METROPOLITAN WRF	Aug	SU	45.70	24.7	292,023	2.9	34,286
373	7727001	DES MOINES METROPOLITAN WRF	Sep	FA	44.50	24.7	275,182	2.9	32,309
374	7727001	DES MOINES METROPOLITAN WRF	Oct	FA	38.00	24.7	242,820	2.9	28,509

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
375	7727001	DES MOINES METROPOLITAN WRF	Nov	FA	45.60	24.7	281,984	2.9	33,107
376	7727001	DES MOINES METROPOLITAN WRF	Dec	WI	52.20	24.7	333,558	2.9	39,163
377	7727001	DES MOINES METROPOLITAN WRF	Annual				3,851,663		452,220
378	2330001	DEWITT CITY OF STP	Jan	WI	0.88	15.8	3,595	3.2	728
379	2330001	DEWITT CITY OF STP	Feb	WI	0.88	15.8	3,247	3.2	658
380	2330001	DEWITT CITY OF STP	Mar	SP	0.82	15.8	3,364	3.2	681
381	2330001	DEWITT CITY OF STP	Apr	SP	0.82	15.8	3,256	3.2	659
382	2330001	DEWITT CITY OF STP	May	SP	0.82	15.8	3,364	3.2	681
383	2330001	DEWITT CITY OF STP	Jun	SU	0.69	15.8	2,737	3.2	554
384	2330001	DEWITT CITY OF STP	Jul	SU	0.69	15.8	2,829	3.2	573
385	2330001	DEWITT CITY OF STP	Aug	SU	0.69	15.8	2,829	3.2	573
386	2330001	DEWITT CITY OF STP	Sep	FA	0.84	15.8	3,335	3.2	675
387	2330001	DEWITT CITY OF STP	Oct	FA	0.84	15.8	3,446	3.2	698
388	2330001	DEWITT CITY OF STP	Nov	FA	0.84	15.8	3,335	3.2	675
389	2330001	DEWITT CITY OF STP	Dec	WI	0.88	15.8	3,595	3.2	728
390	2330001	DEWITT CITY OF STP	Annual				38,930		7,885
391	3126001	DUBUQUE CITY OF STP	Jan	WI	9.75	24.7	62,309	2.9	7,316
392	3126001	DUBUQUE CITY OF STP	Feb	WI	9.86	24.7	56,931	2.9	6,684
393	3126001	DUBUQUE CITY OF STP	Mar	SP	10.40	24.7	66,456	2.9	7,803
394	3126001	DUBUQUE CITY OF STP	Apr	SP	11.23	24.7	69,414	2.9	8,150
395	3126001	DUBUQUE CITY OF STP	May	SP	10.11	24.7	64,609	2.9	7,586
396	3126001	DUBUQUE CITY OF STP	Jun	SU	9.22	24.7	57,003	2.9	6,693
397	3126001	DUBUQUE CITY OF STP	Jul	SU	9.59	24.7	61,274	2.9	7,194
398	3126001	DUBUQUE CITY OF STP	Aug	SU	9.44	24.7	60,302	2.9	7,080
399	3126001	DUBUQUE CITY OF STP	Sep	FA	9.77	24.7	60,398	2.9	7,091
400	3126001	DUBUQUE CITY OF STP	Oct	FA	9.70	24.7	61,977	2.9	7,277
401	3126001	DUBUQUE CITY OF STP	Nov	FA	10.54	24.7	65,166	2.9	7,651
402	3126001	DUBUQUE CITY OF STP	Dec	WI	10.16	24.7	64,922	2.9	7,622
403	3126001	DUBUQUE CITY OF STP	Annual				750,760		88,146
404	9926001	EAGLE GROVE, CITY OF STP	Jan	WI	0.89	15.8	3,646	3.2	738
405	9926001	EAGLE GROVE, CITY OF STP	Feb	WI	0.90	15.8	3,319	3.2	672
406	9926001	EAGLE GROVE, CITY OF STP	Mar	SP	1.17	13.3	4,029	2.6	788
407	9926001	EAGLE GROVE, CITY OF STP	Apr	SP	1.04	13.3	3,450	2.6	674
408	9926001	EAGLE GROVE, CITY OF STP	May	SP	0.89	15.8	3,617	3.2	733
409	9926001	EAGLE GROVE, CITY OF STP	Jun	SU	0.73	15.8	2,903	3.2	588
410	9926001	EAGLE GROVE, CITY OF STP	Jul	SU	0.89	15.8	3,617	3.2	733
411	9926001	EAGLE GROVE, CITY OF STP	Aug	SU	0.96	15.8	3,932	3.2	796
412	9926001	EAGLE GROVE, CITY OF STP	Sep	FA	0.71	15.8	2,789	3.2	565
413	9926001	EAGLE GROVE, CITY OF STP	Oct	FA	0.69	15.8	2,820	3.2	571
414	9926001	EAGLE GROVE, CITY OF STP	Nov	FA	1.06	13.3	3,543	2.6	693
415	9926001	EAGLE GROVE, CITY OF STP	Dec	WI	0.85	15.8	3,487	3.2	706
416	9926001	EAGLE GROVE, CITY OF STP	Annual				41,153		8,257
417	4236001	ELDORA CITY OF STP	Jan	WI	0.73	15.8	3,000	3.2	608
418	4236001	ELDORA CITY OF STP	Feb	WI	0.73	15.8	2,710	3.2	549
419	4236001	ELDORA CITY OF STP	Mar	SP	0.83	15.8	3,401	3.2	689
420	4236001	ELDORA CITY OF STP	Apr	SP	0.83	15.8	3,291	3.2	667
421	4236001	ELDORA CITY OF STP	May	SP	0.83	15.8	3,401	3.2	689
422	4236001	ELDORA CITY OF STP	Jun	SU	0.54	15.8	2,132	3.2	432
423	4236001	ELDORA CITY OF STP	Jul	SU	0.54	15.8	2,203	3.2	446
424	4236001	ELDORA CITY OF STP	Aug	SU	0.54	15.8	2,203	3.2	446
425	4236001	ELDORA CITY OF STP	Sep	FA	0.49	15.8	1,934	3.2	392
426	4236001	ELDORA CITY OF STP	Oct	FA	0.49	15.8	1,999	3.2	405
427	4236001	ELDORA CITY OF STP	Nov	FA	0.49	15.8	1,934	3.2	392
428	4236001	ELDORA CITY OF STP	Dec	WI	0.73	15.8	3,000	3.2	608
429	4236001	ELDORA CITY OF STP	Annual				31,209		6,321
430	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Jan	WI	0.06	15.8	225	3.2	46
431	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Feb	WI	0.06	15.8	203	3.2	41
432	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Mar	SP	0.04	15.8	164	3.2	33
433	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Apr	SP	0.04	15.8	158	3.2	32
434	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	May	SP	0.04	15.8	164	3.2	33
435	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Jun	SU	0.04	15.8	174	3.2	35
436	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Jul	SU	0.04	15.8	180	3.2	36
437	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Aug	SU	0.04	15.8	180	3.2	36

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
438	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Sep	FA	0.06	15.8	218	3.2	44
439	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Oct	FA	0.06	15.8	225	3.2	46
440	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Nov	FA	0.06	15.8	218	3.2	44
441	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Dec	WI	0.06	15.8	225	3.2	46
442	8230003	ELDRIDGE, CITY OF SOUTH SLOPE	Annual				2,332		472
443	7428002	EMMETSBURG CITY OF STP	Jan	WI	0.60	15.8	2,453	3.2	497
444	7428002	EMMETSBURG CITY OF STP	Feb	WI	0.60	15.8	2,215	3.2	449
445	7428002	EMMETSBURG CITY OF STP	Mar	SP	0.78	15.8	3,176	3.2	643
446	7428002	EMMETSBURG CITY OF STP	Apr	SP	0.78	15.8	3,074	3.2	622
447	7428002	EMMETSBURG CITY OF STP	May	SP	0.78	15.8	3,176	3.2	643
448	7428002	EMMETSBURG CITY OF STP	Jun	SU	0.62	15.8	2,441	3.2	494
449	7428002	EMMETSBURG CITY OF STP	Jul	SU	0.62	15.8	2,522	3.2	511
450	7428002	EMMETSBURG CITY OF STP	Aug	SU	0.62	15.8	2,522	3.2	511
451	7428002	EMMETSBURG CITY OF STP	Sep	FA	0.62	15.8	2,447	3.2	496
452	7428002	EMMETSBURG CITY OF STP	Oct	FA	0.62	15.8	2,528	3.2	512
453	7428002	EMMETSBURG CITY OF STP	Nov	FA	0.62	15.8	2,447	3.2	496
454	7428002	EMMETSBURG CITY OF STP	Dec	WI	0.60	15.8	2,453	3.2	497
455	7428002	EMMETSBURG CITY OF STP	Annual				31,452		6,370
456	3218002	ESTHERVILLE CITY OF STP	Jan	WI	0.90	15.8	3,683	3.2	746
457	3218002	ESTHERVILLE CITY OF STP	Feb	WI	0.92	15.8	3,408	3.2	690
458	3218002	ESTHERVILLE CITY OF STP	Mar	SP	1.58	13.3	5,423	2.6	1,060
459	3218002	ESTHERVILLE CITY OF STP	Apr	SP	1.75	13.3	5,827	2.6	1,139
460	3218002	ESTHERVILLE CITY OF STP	May	SP	1.30	13.3	4,466	2.6	873
461	3218002	ESTHERVILLE CITY OF STP	Jun	SU	0.96	15.8	3,801	3.2	770
462	3218002	ESTHERVILLE CITY OF STP	Jul	SU	1.21	13.3	4,170	2.6	815
463	3218002	ESTHERVILLE CITY OF STP	Aug	SU	1.09	13.3	3,737	2.6	730
464	3218002	ESTHERVILLE CITY OF STP	Sep	FA	0.93	15.8	3,675	3.2	744
465	3218002	ESTHERVILLE CITY OF STP	Oct	FA	1.01	13.3	3,458	2.6	676
466	3218002	ESTHERVILLE CITY OF STP	Nov	FA	1.07	13.3	3,546	2.6	693
467	3218002	ESTHERVILLE CITY OF STP	Dec	WI	0.96	15.8	3,912	3.2	792
468	3218002	ESTHERVILLE CITY OF STP	Annual				49,105		9,730
469	0723001	EVANSDALE CITY OF STP	Jan	WI	0.51	15.8	2,072	3.2	420
470	0723001	EVANSDALE CITY OF STP	Feb	WI	0.51	15.8	1,872	3.2	379
471	0723001	EVANSDALE CITY OF STP	Mar	SP	0.62	15.8	2,514	3.2	509
472	0723001	EVANSDALE CITY OF STP	Apr	SP	0.62	15.8	2,433	3.2	493
473	0723001	EVANSDALE CITY OF STP	May	SP	0.62	15.8	2,514	3.2	509
474	0723001	EVANSDALE CITY OF STP	Jun	SU	0.47	15.8	1,859	3.2	377
475	0723001	EVANSDALE CITY OF STP	Jul	SU	0.47	15.8	1,921	3.2	389
476	0723001	EVANSDALE CITY OF STP	Aug	SU	0.47	15.8	1,921	3.2	389
477	0723001	EVANSDALE CITY OF STP	Sep	FA	0.42	15.8	1,675	3.2	339
478	0723001	EVANSDALE CITY OF STP	Oct	FA	0.42	15.8	1,731	3.2	351
479	0723001	EVANSDALE CITY OF STP	Nov	FA	0.42	15.8	1,675	3.2	339
480	0723001	EVANSDALE CITY OF STP	Dec	WI	0.51	15.8	2,072	3.2	420
481	0723001	EVANSDALE CITY OF STP	Annual				24,260		4,913
482	5131001	FAIRFIELD CITY OF STP	Jan	WI	0.95	15.8	3,867	3.2	783
483	5131001	FAIRFIELD CITY OF STP	Feb	WI	0.98	15.8	3,611	3.2	731
484	5131001	FAIRFIELD CITY OF STP	Mar	SP	1.39	13.3	4,776	2.6	934
485	5131001	FAIRFIELD CITY OF STP	Apr	SP	0.99	15.8	3,896	3.2	789
486	5131001	FAIRFIELD CITY OF STP	May	SP	1.29	13.3	4,432	2.6	866
487	5131001	FAIRFIELD CITY OF STP	Jun	SU	1.10	13.3	3,649	2.6	713
488	5131001	FAIRFIELD CITY OF STP	Jul	SU	0.75	15.8	3,049	3.2	618
489	5131001	FAIRFIELD CITY OF STP	Aug	SU	1.10	13.3	3,778	2.6	739
490	5131001	FAIRFIELD CITY OF STP	Sep	FA	1.12	13.3	3,733	2.6	730
491	5131001	FAIRFIELD CITY OF STP	Oct	FA	0.65	15.8	2,673	3.2	541
492	5131001	FAIRFIELD CITY OF STP	Nov	FA	1.15	13.3	3,829	2.6	749
493	5131001	FAIRFIELD CITY OF STP	Dec	WI	1.55	13.3	5,333	2.6	1,043
494	5131001	FAIRFIELD CITY OF STP	Annual				46,626		9,235
495	9525001	FOREST CITY, CITY OF STP	Jan	WI	0.60	15.8	2,448	3.2	496
496	9525001	FOREST CITY, CITY OF STP	Feb	WI	0.63	15.8	2,315	3.2	469
497	9525001	FOREST CITY, CITY OF STP	Mar	SP	1.27	13.3	4,359	2.6	852
498	9525001	FOREST CITY, CITY OF STP	Apr	SP	0.96	15.8	3,790	3.2	768
499	9525001	FOREST CITY, CITY OF STP	May	SP	0.67	15.8	2,743	3.2	555
500	9525001	FOREST CITY, CITY OF STP	Jun	SU	0.58	15.8	2,294	3.2	465

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
501	9525001	FOREST CITY, CITY OF STP	Jul	SU	0.62	15.8	2,542	3.2	515
502	9525001	FOREST CITY, CITY OF STP	Aug	SU	0.54	15.8	2,207	3.2	447
503	9525001	FOREST CITY, CITY OF STP	Sep	FA	0.58	15.8	2,275	3.2	461
504	9525001	FOREST CITY, CITY OF STP	Oct	FA	0.59	15.8	2,416	3.2	489
505	9525001	FOREST CITY, CITY OF STP	Nov	FA	0.80	15.8	3,149	3.2	638
506	9525001	FOREST CITY, CITY OF STP	Dec	WI	0.61	15.8	2,493	3.2	505
507	9525001	FOREST CITY, CITY OF STP	Annual				33,031		6,659
508	9433003	FORT DODGE CITY OF STP	Jan	WI	3.94	13.3	13,539	2.6	2,647
509	9433003	FORT DODGE CITY OF STP	Feb	WI	4.15	13.3	12,900	2.6	2,522
510	9433003	FORT DODGE CITY OF STP	Mar	SP	5.65	24.7	36,084	2.9	4,237
511	9433003	FORT DODGE CITY OF STP	Apr	SP	5.28	24.7	32,676	2.9	3,836
512	9433003	FORT DODGE CITY OF STP	May	SP	4.30	13.3	14,799	2.6	2,893
513	9433003	FORT DODGE CITY OF STP	Jun	SU	3.78	13.3	12,570	2.6	2,457
514	9433003	FORT DODGE CITY OF STP	Jul	SU	5.34	24.7	34,129	2.9	4,007
515	9433003	FORT DODGE CITY OF STP	Aug	SU	4.65	13.3	16,003	2.6	3,128
516	9433003	FORT DODGE CITY OF STP	Sep	FA	3.44	13.3	11,451	2.6	2,239
517	9433003	FORT DODGE CITY OF STP	Oct	FA	3.29	13.3	11,310	2.6	2,211
518	9433003	FORT DODGE CITY OF STP	Nov	FA	3.88	13.3	12,910	2.6	2,524
519	9433003	FORT DODGE CITY OF STP	Dec	WI	3.83	13.3	13,175	2.6	2,576
520	9433003	FORT DODGE CITY OF STP	Annual				221,545		35,276
521	5625001	FORT MADISON CITY OF STP	Jan	WI	2.46	13.3	8,454	2.6	1,653
522	5625001	FORT MADISON CITY OF STP	Feb	WI	2.35	13.3	7,297	2.6	1,426
523	5625001	FORT MADISON CITY OF STP	Mar	SP	2.85	13.3	9,792	2.6	1,914
524	5625001	FORT MADISON CITY OF STP	Apr	SP	3.05	13.3	10,152	2.6	1,985
525	5625001	FORT MADISON CITY OF STP	May	SP	2.61	13.3	8,970	2.6	1,754
526	5625001	FORT MADISON CITY OF STP	Jun	SU	2.33	13.3	7,742	2.6	1,513
527	5625001	FORT MADISON CITY OF STP	Jul	SU	2.80	13.3	9,648	2.6	1,886
528	5625001	FORT MADISON CITY OF STP	Aug	SU	2.22	13.3	7,628	2.6	1,491
529	5625001	FORT MADISON CITY OF STP	Sep	FA	2.67	13.3	8,887	2.6	1,737
530	5625001	FORT MADISON CITY OF STP	Oct	FA	2.04	13.3	7,005	2.6	1,369
531	5625001	FORT MADISON CITY OF STP	Nov	FA	2.99	13.3	9,949	2.6	1,945
532	5625001	FORT MADISON CITY OF STP	Dec	WI	2.98	13.3	10,264	2.6	2,006
533	5625001	FORT MADISON CITY OF STP	Annual				105,790		20,681
534	6525001	GMU WWTF	Jan	WI	0.56	15.8	2,301	3.2	466
535	6525001	GMU WWTF	Feb	WI	0.54	15.8	2,008	3.2	407
536	6525001	GMU WWTF	Mar	SP	0.58	15.8	2,387	3.2	483
537	6525001	GMU WWTF	Apr	SP	0.65	15.8	2,563	3.2	519
538	6525001	GMU WWTF	May	SP	0.64	15.8	2,596	3.2	526
539	6525001	GMU WWTF	Jun	SU	0.59	15.8	2,346	3.2	475
540	6525001	GMU WWTF	Jul	SU	0.62	15.8	2,551	3.2	517
541	6525001	GMU WWTF	Aug	SU	0.70	15.8	2,869	3.2	581
542	6525001	GMU WWTF	Sep	FA	0.60	15.8	2,354	3.2	477
543	6525001	GMU WWTF	Oct	FA	0.59	15.8	2,395	3.2	485
544	6525001	GMU WWTF	Nov	FA	0.55	15.8	2,156	3.2	437
545	6525001	GMU WWTF	Dec	WI	0.53	15.8	2,158	3.2	437
546	6525001	GMU WWTF	Annual				28,684		5,810
547	0140001	GREENFIELD CITY OF STP	Jan	WI	0.36	15.8	1,484	3.2	301
548	0140001	GREENFIELD CITY OF STP	Feb	WI	0.38	15.8	1,396	3.2	283
549	0140001	GREENFIELD CITY OF STP	Mar	SP	0.37	15.8	1,521	3.2	308
550	0140001	GREENFIELD CITY OF STP	Apr	SP	0.63	15.8	2,496	3.2	506
551	0140001	GREENFIELD CITY OF STP	May	SP	0.47	15.8	1,905	3.2	386
552	0140001	GREENFIELD CITY OF STP	Jun	SU	0.21	15.8	835	3.2	169
553	0140001	GREENFIELD CITY OF STP	Jul	SU	0.52	15.8	2,142	3.2	434
554	0140001	GREENFIELD CITY OF STP	Aug	SU	0.24	15.8	973	3.2	197
555	0140001	GREENFIELD CITY OF STP	Sep	FA	0.23	15.8	890	3.2	180
556	0140001	GREENFIELD CITY OF STP	Oct	FA	0.26	15.8	1,075	3.2	218
557	0140001	GREENFIELD CITY OF STP	Nov	FA	0.45	15.8	1,780	3.2	361
558	0140001	GREENFIELD CITY OF STP	Dec	WI	0.58	15.8	2,363	3.2	478
559	0140001	GREENFIELD CITY OF STP	Annual				18,858		3,819
560	7736001	GRIMES, CITY OF STP	Jan	WI	0.37	15.8	1,500	3.2	304
561	7736001	GRIMES, CITY OF STP	Feb	WI	0.42	15.8	1,565	3.2	317
562	7736001	GRIMES, CITY OF STP	Mar	SP	0.42	15.8	1,729	3.2	350
563	7736001	GRIMES, CITY OF STP	Apr	SP	0.45	15.8	1,776	3.2	360

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
564	7736001	GRIMES, CITY OF STP	May	SP	0.40	15.8	1,631	3.2	330
565	7736001	GRIMES, CITY OF STP	Jun	SU	0.31	15.8	1,206	3.2	244
566	7736001	GRIMES, CITY OF STP	Jul	SU	0.40	15.8	1,623	3.2	329
567	7736001	GRIMES, CITY OF STP	Aug	SU	0.39	15.8	1,586	3.2	321
568	7736001	GRIMES, CITY OF STP	Sep	FA	0.35	15.8	1,392	3.2	282
569	7736001	GRIMES, CITY OF STP	Oct	FA	0.32	15.8	1,296	3.2	262
570	7736001	GRIMES, CITY OF STP	Nov	FA	0.49	15.8	1,938	3.2	393
571	7736001	GRIMES, CITY OF STP	Dec	WI	0.57	15.8	2,326	3.2	471
572	7736001	GRIMES, CITY OF STP	Annual				19,569		3,963
573	7930001	GRINNELL, CITY OF STP	Jan	WI	1.58	13.3	5,423	2.6	1,060
574	7930001	GRINNELL, CITY OF STP	Feb	WI	1.86	13.3	5,777	2.6	1,129
575	7930001	GRINNELL, CITY OF STP	Mar	SP	1.75	13.3	6,025	2.6	1,178
576	7930001	GRINNELL, CITY OF STP	Apr	SP	2.80	13.3	9,313	2.6	1,821
577	7930001	GRINNELL, CITY OF STP	May	SP	1.66	13.3	5,694	2.6	1,113
578	7930001	GRINNELL, CITY OF STP	Jun	SU	0.92	15.8	3,623	3.2	734
579	7930001	GRINNELL, CITY OF STP	Jul	SU	1.64	13.3	5,646	2.6	1,104
580	7930001	GRINNELL, CITY OF STP	Aug	SU	1.53	13.3	5,261	2.6	1,028
581	7930001	GRINNELL, CITY OF STP	Sep	FA	2.25	13.3	7,482	2.6	1,463
582	7930001	GRINNELL, CITY OF STP	Oct	FA	1.33	13.3	4,566	2.6	893
583	7930001	GRINNELL, CITY OF STP	Nov	FA	2.53	13.3	8,411	2.6	1,644
584	7930001	GRINNELL, CITY OF STP	Dec	WI	2.53	13.3	8,702	2.6	1,701
585	7930001	GRINNELL, CITY OF STP	Annual				75,924		14,868
586	3833001	GRUNDY CENTER CITY OF STP	Jan	WI	0.56	15.8	2,277	3.2	461
587	3833001	GRUNDY CENTER CITY OF STP	Feb	WI	0.63	15.8	2,333	3.2	473
588	3833001	GRUNDY CENTER CITY OF STP	Mar	SP	0.66	15.8	2,706	3.2	548
589	3833001	GRUNDY CENTER CITY OF STP	Apr	SP	0.64	15.8	2,543	3.2	515
590	3833001	GRUNDY CENTER CITY OF STP	May	SP	0.49	15.8	2,019	3.2	409
591	3833001	GRUNDY CENTER CITY OF STP	Jun	SU	0.33	15.8	1,297	3.2	263
592	3833001	GRUNDY CENTER CITY OF STP	Jul	SU	0.48	15.8	1,946	3.2	394
593	3833001	GRUNDY CENTER CITY OF STP	Aug	SU	0.45	15.8	1,856	3.2	376
594	3833001	GRUNDY CENTER CITY OF STP	Sep	FA	0.36	15.8	1,412	3.2	286
595	3833001	GRUNDY CENTER CITY OF STP	Oct	FA	0.32	15.8	1,296	3.2	262
596	3833001	GRUNDY CENTER CITY OF STP	Nov	FA	0.56	15.8	2,199	3.2	445
597	3833001	GRUNDY CENTER CITY OF STP	Dec	WI	0.60	15.8	2,448	3.2	496
598	3833001	GRUNDY CENTER CITY OF STP	Annual				24,333		4,928
599	3544001	HAMPTON CITY OF STP	Jan	WI	0.50	15.8	2,032	3.2	411
600	3544001	HAMPTON CITY OF STP	Feb	WI	0.52	15.8	1,920	3.2	389
601	3544001	HAMPTON CITY OF STP	Mar	SP	0.65	15.8	2,645	3.2	536
602	3544001	HAMPTON CITY OF STP	Apr	SP	0.61	15.8	2,397	3.2	485
603	3544001	HAMPTON CITY OF STP	May	SP	0.57	15.8	2,322	3.2	470
604	3544001	HAMPTON CITY OF STP	Jun	SU	0.52	15.8	2,061	3.2	417
605	3544001	HAMPTON CITY OF STP	Jul	SU	0.58	15.8	2,350	3.2	476
606	3544001	HAMPTON CITY OF STP	Aug	SU	0.58	15.8	2,387	3.2	483
607	3544001	HAMPTON CITY OF STP	Sep	FA	0.55	15.8	2,156	3.2	437
608	3544001	HAMPTON CITY OF STP	Oct	FA	0.48	15.8	1,978	3.2	401
609	3544001	HAMPTON CITY OF STP	Nov	FA	0.57	15.8	2,235	3.2	453
610	3544001	HAMPTON CITY OF STP	Dec	WI	0.56	15.8	2,289	3.2	464
611	3544001	HAMPTON CITY OF STP	Annual				26,771		5,422
612	8335002	HARLAN CITY OF STP	Jan	WI	0.61	15.8	2,481	3.2	503
613	8335002	HARLAN CITY OF STP	Feb	WI	0.52	15.8	1,920	3.2	389
614	8335002	HARLAN CITY OF STP	Mar	SP	0.51	15.8	2,072	3.2	420
615	8335002	HARLAN CITY OF STP	Apr	SP	0.74	15.8	2,915	3.2	590
616	8335002	HARLAN CITY OF STP	May	SP	0.68	15.8	2,796	3.2	566
617	8335002	HARLAN CITY OF STP	Jun	SU	0.56	15.8	2,203	3.2	446
618	8335002	HARLAN CITY OF STP	Jul	SU	0.63	15.8	2,579	3.2	522
619	8335002	HARLAN CITY OF STP	Aug	SU	0.58	15.8	2,350	3.2	476
620	8335002	HARLAN CITY OF STP	Sep	FA	1.16	13.3	3,856	2.6	754
621	8335002	HARLAN CITY OF STP	Oct	FA	0.81	15.8	3,307	3.2	670
622	8335002	HARLAN CITY OF STP	Nov	FA	0.76	15.8	3,014	3.2	610
623	8335002	HARLAN CITY OF STP	Dec	WI	0.73	15.8	2,984	3.2	604
624	8335002	HARLAN CITY OF STP	Annual				32,478		6,551
625	4641001	HUMBOLDT CITY OF STP	Jan	WI	0.74	15.8	3,008	3.2	609
626	4641001	HUMBOLDT CITY OF STP	Feb	WI	0.74	15.8	2,717	3.2	550

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
627	4641001	HUMBOLDT CITY OF STP	Mar	SP	0.82	15.8	3,340	3.2	676
628	4641001	HUMBOLDT CITY OF STP	Apr	SP	0.82	15.8	3,232	3.2	655
629	4641001	HUMBOLDT CITY OF STP	May	SP	0.82	15.8	3,340	3.2	676
630	4641001	HUMBOLDT CITY OF STP	Jun	SU	0.79	15.8	3,129	3.2	634
631	4641001	HUMBOLDT CITY OF STP	Jul	SU	0.79	15.8	3,233	3.2	655
632	4641001	HUMBOLDT CITY OF STP	Aug	SU	0.79	15.8	3,233	3.2	655
633	4641001	HUMBOLDT CITY OF STP	Sep	FA	0.87	15.8	3,434	3.2	695
634	4641001	HUMBOLDT CITY OF STP	Oct	FA	0.87	15.8	3,548	3.2	719
635	4641001	HUMBOLDT CITY OF STP	Nov	FA	0.87	15.8	3,434	3.2	695
636	4641001	HUMBOLDT CITY OF STP	Dec	WI	0.74	15.8	3,008	3.2	609
637	4641001	HUMBOLDT CITY OF STP	Annual				38,655		7,829
638	1037001	INDEPENDENCE CITY OF STP	Jan	WI	1.38	13.3	4,734	2.6	926
639	1037001	INDEPENDENCE CITY OF STP	Feb	WI	1.55	13.3	4,811	2.6	940
640	1037001	INDEPENDENCE CITY OF STP	Mar	SP	1.59	13.3	5,457	2.6	1,067
641	1037001	INDEPENDENCE CITY OF STP	Apr	SP	1.47	13.3	4,908	2.6	959
642	1037001	INDEPENDENCE CITY OF STP	May	SP	1.30	13.3	4,466	2.6	873
643	1037001	INDEPENDENCE CITY OF STP	Jun	SU	1.13	13.3	3,763	2.6	736
644	1037001	INDEPENDENCE CITY OF STP	Jul	SU	1.04	13.3	3,561	2.6	696
645	1037001	INDEPENDENCE CITY OF STP	Aug	SU	1.04	13.3	3,568	2.6	698
646	1037001	INDEPENDENCE CITY OF STP	Sep	FA	1.07	13.3	3,576	2.6	699
647	1037001	INDEPENDENCE CITY OF STP	Oct	FA	0.96	15.8	3,916	3.2	793
648	1037001	INDEPENDENCE CITY OF STP	Nov	FA	1.14	13.3	3,796	2.6	742
649	1037001	INDEPENDENCE CITY OF STP	Dec	WI	1.15	13.3	3,950	2.6	772
650	1037001	INDEPENDENCE CITY OF STP	Annual				50,507		9,901
651	9133001	INDIANOLA CITY OF STP (N)	Jan	WI	1.01	13.3	3,489	2.6	682
652	9133001	INDIANOLA CITY OF STP (NORTH)	Feb	WI	1.11	13.3	3,459	2.6	676
653	9133001	INDIANOLA CITY OF STP (NORTH)	Mar	SP	1.10	13.3	3,795	2.6	742
654	9133001	INDIANOLA CITY OF STP (NORTH)	Apr	SP	1.40	13.3	4,652	2.6	909
655	9133001	INDIANOLA CITY OF STP (NORTH)	May	SP	1.21	13.3	4,163	2.6	814
656	9133001	INDIANOLA CITY OF STP (NORTH)	Jun	SU	0.95	15.8	3,758	3.2	761
657	9133001	INDIANOLA CITY OF STP (NORTH)	Jul	SU	1.21	13.3	4,160	2.6	813
658	9133001	INDIANOLA CITY OF STP (NORTH)	Aug	SU	1.19	13.3	4,095	2.6	800
659	9133001	INDIANOLA CITY OF STP (NORTH)	Sep	FA	1.35	13.3	4,479	2.6	876
660	9133001	INDIANOLA CITY OF STP (NORTH)	Oct	FA	1.40	13.3	4,814	2.6	941
661	9133001	INDIANOLA CITY OF STP (NORTH)	Nov	FA	1.43	13.3	4,748	2.6	928
662	9133001	INDIANOLA CITY OF STP (NORTH)	Dec	WI	1.46	13.3	5,034	2.6	984
663	9133001	INDIANOLA CITY OF STP (NORTH)	Annual				50,645		9,927
664	5225001	IOWA CITY, CITY OF (NORTH) STP	Jan	WI	6.87	24.7	43,899	2.9	5,154
665	5225001	IOWA CITY, CITY OF (NORTH) STP	Feb	WI	7.69	24.7	44,384	2.9	5,211
666	5225001	IOWA CITY, CITY OF (NORTH) STP	Mar	SP	7.37	24.7	47,094	2.9	5,529
667	5225001	IOWA CITY, CITY OF (NORTH) STP	Apr	SP	8.46	24.7	52,316	2.9	6,142
668	5225001	IOWA CITY, CITY OF (NORTH) STP	May	SP	7.47	24.7	47,733	2.9	5,604
669	5225001	IOWA CITY, CITY OF (NORTH) STP	Jun	SU	6.60	24.7	40,814	2.9	4,792
670	5225001	IOWA CITY, CITY OF (NORTH) STP	Jul	SU	7.70	24.7	49,203	2.9	5,777
671	5225001	IOWA CITY, CITY OF (NORTH) STP	Aug	SU	7.79	24.7	49,778	2.9	5,844
672	5225001	IOWA CITY, CITY OF (NORTH) STP	Sep	FA	8.58	24.7	53,058	2.9	6,229
673	5225001	IOWA CITY, CITY OF (NORTH) STP	Oct	FA	7.27	24.7	46,455	2.9	5,454
674	5225001	IOWA CITY, CITY OF (NORTH) STP	Nov	FA	9.72	24.7	60,107	2.9	7,057
675	5225001	IOWA CITY, CITY OF (NORTH) STP	Dec	WI	8.99	24.7	57,446	2.9	6,745
676	5225001	IOWA CITY, CITY OF (NORTH) STP	Annual				592,287		69,540
677	5225002	IOWA CITY, CITY OF (SOUTH) STP	Jan	WI	1.41	13.3	4,851	2.6	948
678	5225002	IOWA CITY, CITY OF (SOUTH) STP	Feb	WI	1.61	13.3	5,004	2.6	978
679	5225002	IOWA CITY, CITY OF (SOUTH) STP	Mar	SP	1.59	13.3	5,471	2.6	1,069
680	5225002	IOWA CITY, CITY OF (SOUTH) STP	Apr	SP	2.73	13.3	9,090	2.6	1,777
681	5225002	IOWA CITY, CITY OF (SOUTH) STP	May	SP	1.86	13.3	6,400	2.6	1,251
682	5225002	IOWA CITY, CITY OF (SOUTH) STP	Jun	SU	1.27	13.3	4,229	2.6	827
683	5225002	IOWA CITY, CITY OF (SOUTH) STP	Jul	SU	1.98	13.3	6,813	2.6	1,332
684	5225002	IOWA CITY, CITY OF (SOUTH) STP	Aug	SU	1.59	13.3	5,471	2.6	1,069
685	5225002	IOWA CITY, CITY OF (SOUTH) STP	Sep	FA	2.25	13.3	7,492	2.6	1,465
686	5225002	IOWA CITY, CITY OF (SOUTH) STP	Oct	FA	1.50	13.3	5,161	2.6	1,009
687	5225002	IOWA CITY, CITY OF (SOUTH) STP	Nov	FA	3.05	13.3	10,156	2.6	1,985
688	5225002	IOWA CITY, CITY OF (SOUTH) STP	Dec	WI	2.60	13.3	8,946	2.6	1,749
689	5225002	IOWA CITY, CITY OF (SOUTH) STP	Annual				79,083		15,460

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
690	4260001	IOWA FALLS CITY OF STP	Jan	WI	0.94	15.8	3,850	3.2	780
691	4260001	IOWA FALLS CITY OF STP	Feb	WI	0.97	15.8	3,581	3.2	725
692	4260001	IOWA FALLS CITY OF STP	Mar	SP	1.05	13.3	3,613	2.6	706
693	4260001	IOWA FALLS CITY OF STP	Apr	SP	1.02	13.3	3,390	2.6	663
694	4260001	IOWA FALLS CITY OF STP	May	SP	0.93	15.8	3,797	3.2	769
695	4260001	IOWA FALLS CITY OF STP	Jun	SU	0.75	15.8	2,979	3.2	603
696	4260001	IOWA FALLS CITY OF STP	Jul	SU	0.79	15.8	3,237	3.2	656
697	4260001	IOWA FALLS CITY OF STP	Aug	SU	0.83	15.8	3,405	3.2	690
698	4260001	IOWA FALLS CITY OF STP	Sep	FA	0.81	15.8	3,212	3.2	651
699	4260001	IOWA FALLS CITY OF STP	Oct	FA	0.71	15.8	2,918	3.2	591
700	4260001	IOWA FALLS CITY OF STP	Nov	FA	0.93	15.8	3,683	3.2	746
701	4260001	IOWA FALLS CITY OF STP	Dec	WI	0.93	15.8	3,785	3.2	767
702	4260001	IOWA FALLS CITY OF STP	Annual				41,451		8,346
703	3050901	IOWA GREAT LAKES SAN DIST STP	Jan	WI	1.60	13.3	5,495	2.6	1,074
704	3050901	IOWA GREAT LAKES SAN DIST STP	Feb	WI	1.73	13.3	5,376	2.6	1,051
705	3050901	IOWA GREAT LAKES SAN DIST STP	Mar	SP	2.47	13.3	8,512	2.6	1,664
706	3050901	IOWA GREAT LAKES SAN DIST STP	Apr	SP	3.29	13.3	10,945	2.6	2,140
707	3050901	IOWA GREAT LAKES SAN DIST STP	May	SP	3.04	13.3	10,456	2.6	2,044
708	3050901	IOWA GREAT LAKES SAN DIST STP	Jun	SU	2.98	13.3	9,929	2.6	1,941
709	3050901	IOWA GREAT LAKES SAN DIST STP	Jul	SU	3.99	13.3	13,736	2.6	2,685
710	3050901	IOWA GREAT LAKES SAN DIST STP	Aug	SU	3.40	13.3	11,695	2.6	2,286
711	3050901	IOWA GREAT LAKES SAN DIST STP	Sep	FA	2.46	13.3	8,185	2.6	1,600
712	3050901	IOWA GREAT LAKES SAN DIST STP	Oct	FA	2.31	13.3	7,931	2.6	1,550
713	3050901	IOWA GREAT LAKES SAN DIST STP	Nov	FA	2.05	13.3	6,816	2.6	1,332
714	3050901	IOWA GREAT LAKES SAN DIST STP	Dec	WI	1.75	13.3	6,014	2.6	1,176
715	3050901	IOWA GREAT LAKES SAN DIST STP	Annual				105,091		20,544
716	3742001	JEFFERSON CITY OF STP	Jan	WI	0.82	15.8	3,364	3.2	681
717	3742001	JEFFERSON CITY OF STP	Feb	WI	0.85	15.8	3,131	3.2	634
718	3742001	JEFFERSON CITY OF STP	Mar	SP	0.01	15.8	51	3.2	10
719	3742001	JEFFERSON CITY OF STP	Apr	SP	0.12	15.8	467	3.2	95
720	3742001	JEFFERSON CITY OF STP	May	SP	0.81	15.8	3,319	3.2	672
721	3742001	JEFFERSON CITY OF STP	Jun	SU	0.50	15.8	1,978	3.2	401
722	3742001	JEFFERSON CITY OF STP	Jul	SU	0.65	15.8	2,641	3.2	535
723	3742001	JEFFERSON CITY OF STP	Aug	SU	0.67	15.8	2,747	3.2	556
724	3742001	JEFFERSON CITY OF STP	Sep	FA	0.58	15.8	2,278	3.2	461
725	3742001	JEFFERSON CITY OF STP	Oct	FA	0.51	15.8	2,081	3.2	421
726	3742001	JEFFERSON CITY OF STP	Nov	FA	0.84	15.8	3,327	3.2	674
727	3742001	JEFFERSON CITY OF STP	Dec	WI	0.99	15.8	4,051	3.2	820
728	3742001	JEFFERSON CITY OF STP	Annual				29,433		5,961
729	1044002	JESUP, CITY OF STP (SOUTH)	Jan	WI	0.04	15.8	172	3.2	35
730	1044002	JESUP, CITY OF STP (SOUTH)	Feb	WI	0.08	15.8	277	3.2	56
731	1044002	JESUP, CITY OF STP (SOUTH)	Mar	SP	0.06	15.8	233	3.2	47
732	1044002	JESUP, CITY OF STP (SOUTH)	Apr	SP	0.08	15.8	324	3.2	66
733	1044002	JESUP, CITY OF STP (SOUTH)	May	SP	0.09	15.8	384	3.2	78
734	1044002	JESUP, CITY OF STP (SOUTH)	Jun	SU	0.11	15.8	415	3.2	84
735	1044002	JESUP, CITY OF STP (SOUTH)	Jul	SU	0.06	15.8	237	3.2	48
736	1044002	JESUP, CITY OF STP (SOUTH)	Aug	SU	0.09	15.8	352	3.2	71
737	1044002	JESUP, CITY OF STP (SOUTH)	Sep	FA	0.03	15.8	103	3.2	21
738	1044002	JESUP, CITY OF STP (SOUTH)	Oct	FA	0.04	15.8	168	3.2	34
739	1044002	JESUP, CITY OF STP (SOUTH)	Nov	FA	0.03	15.8	134	3.2	27
740	1044002	JESUP, CITY OF STP (SOUTH)	Dec	WI	0.04	15.8	159	3.2	32
741	1044002	JESUP, CITY OF STP (SOUTH)	Annual				2,958		599
742	5640001	KEOKUK CITY OF STP	Jan	WI	2.90	13.3	9,975	2.6	1,950
743	5640001	KEOKUK CITY OF STP	Feb	WI	3.04	13.3	9,448	2.6	1,847
744	5640001	KEOKUK CITY OF STP	Mar	SP	3.25	13.3	11,172	2.6	2,184
745	5640001	KEOKUK CITY OF STP	Apr	SP	3.89	13.3	12,966	2.6	2,535
746	5640001	KEOKUK CITY OF STP	May	SP	3.38	13.3	11,630	2.6	2,273
747	5640001	KEOKUK CITY OF STP	Jun	SU	3.22	13.3	10,709	2.6	2,093
748	5640001	KEOKUK CITY OF STP	Jul	SU	4.35	13.3	14,950	2.6	2,923
749	5640001	KEOKUK CITY OF STP	Aug	SU	3.31	13.3	11,403	2.6	2,229
750	5640001	KEOKUK CITY OF STP	Sep	FA	3.59	13.3	11,967	2.6	2,339
751	5640001	KEOKUK CITY OF STP	Oct	FA	3.36	13.3	11,558	2.6	2,259
752	5640001	KEOKUK CITY OF STP	Nov	FA	5.92	24.7	36,621	2.9	4,300

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
753	5640001	KEOKUK CITY OF STP	Dec	WI	4.57	13.3	15,717	2.6	3,073
754	5640001	KEOKUK CITY OF STP	Annual				168,115		30,005
755	6342001	KNOXVILLE CITY OF STP	Jan	WI	1.49	13.3	5,119	2.6	1,001
756	6342001	KNOXVILLE CITY OF STP	Feb	WI	1.41	13.3	4,373	2.6	855
757	6342001	KNOXVILLE CITY OF STP	Mar	SP	1.17	13.3	4,011	2.6	784
758	6342001	KNOXVILLE CITY OF STP	Apr	SP	1.17	13.3	3,893	2.6	761
759	6342001	KNOXVILLE CITY OF STP	May	SP	1.17	13.3	4,037	2.6	789
760	6342001	KNOXVILLE CITY OF STP	Jun	SU	0.97	15.8	3,833	3.2	776
761	6342001	KNOXVILLE CITY OF STP	Jul	SU	1.29	13.3	4,450	2.6	870
762	6342001	KNOXVILLE CITY OF STP	Aug	SU	1.19	13.3	4,085	2.6	798
763	6342001	KNOXVILLE CITY OF STP	Sep	FA	1.29	13.3	4,303	2.6	841
764	6342001	KNOXVILLE CITY OF STP	Oct	FA	0.89	15.8	3,652	3.2	740
765	6342001	KNOXVILLE CITY OF STP	Nov	FA	0.72	15.8	2,867	3.2	581
766	6342001	KNOXVILLE CITY OF STP	Dec	WI	0.72	15.8	2,937	3.2	595
767	6342001	KNOXVILLE CITY OF STP	Annual				47,561		9,391
768	8245002	LECLAIRE CITY OF STP	Jan	WI	0.30	15.8	1,234	3.2	250
769	8245002	LECLAIRE CITY OF STP	Feb	WI	0.30	15.8	1,115	3.2	226
770	8245002	LECLAIRE CITY OF STP	Mar	SP	0.28	15.8	1,145	3.2	232
771	8245002	LECLAIRE CITY OF STP	Apr	SP	0.28	15.8	1,108	3.2	224
772	8245002	LECLAIRE CITY OF STP	May	SP	0.28	15.8	1,145	3.2	232
773	8245002	LECLAIRE CITY OF STP	Jun	SU	0.36	15.8	1,412	3.2	286
774	8245002	LECLAIRE CITY OF STP	Jul	SU	0.36	15.8	1,459	3.2	296
775	8245002	LECLAIRE CITY OF STP	Aug	SU	0.36	15.8	1,459	3.2	296
776	8245002	LECLAIRE CITY OF STP	Sep	FA	0.36	15.8	1,406	3.2	285
777	8245002	LECLAIRE CITY OF STP	Oct	FA	0.36	15.8	1,453	3.2	294
778	8245002	LECLAIRE CITY OF STP	Nov	FA	0.36	15.8	1,406	3.2	285
779	8245002	LECLAIRE CITY OF STP	Dec	WI	0.30	15.8	1,234	3.2	250
780	8245002	LECLAIRE CITY OF STP	Annual				15,577		3,155
781	7540001	LEMARS CITY OF STP	Jan	WI	1.53	13.3	5,261	2.6	1,028
782	7540001	LEMARS CITY OF STP	Feb	WI	1.56	13.3	4,851	2.6	948
783	7540001	LEMARS CITY OF STP	Mar	SP	1.68	13.3	5,780	2.6	1,130
784	7540001	LEMARS CITY OF STP	Apr	SP	1.72	13.3	5,711	2.6	1,116
785	7540001	LEMARS CITY OF STP	May	SP	1.73	13.3	5,949	2.6	1,163
786	7540001	LEMARS CITY OF STP	Jun	SU	1.72	13.3	5,731	2.6	1,120
787	7540001	LEMARS CITY OF STP	Jul	SU	1.80	13.3	6,193	2.6	1,211
788	7540001	LEMARS CITY OF STP	Aug	SU	1.70	13.3	5,832	2.6	1,140
789	7540001	LEMARS CITY OF STP	Sep	FA	1.57	13.3	5,234	2.6	1,023
790	7540001	LEMARS CITY OF STP	Oct	FA	1.66	13.3	5,701	2.6	1,115
791	7540001	LEMARS CITY OF STP	Nov	FA	1.41	13.3	4,708	2.6	920
792	7540001	LEMARS CITY OF STP	Dec	WI	1.36	13.3	4,666	2.6	912
793	7540001	LEMARS CITY OF STP	Annual				65,618		12,828
794	4950001	MAQUOKETA CITY OF STP	Jan	WI	0.80	15.8	3,262	3.2	661
795	4950001	MAQUOKETA CITY OF STP	Feb	WI	0.80	15.8	2,946	3.2	597
796	4950001	MAQUOKETA CITY OF STP	Mar	SP			0		0
797	4950001	MAQUOKETA CITY OF STP	Apr	SP			0		0
798	4950001	MAQUOKETA CITY OF STP	May	SP			0		0
799	4950001	MAQUOKETA CITY OF STP	Jun	SU	0.74	15.8	2,923	3.2	592
800	4950001	MAQUOKETA CITY OF STP	Jul	SU	0.74	15.8	3,021	3.2	612
801	4950001	MAQUOKETA CITY OF STP	Aug	SU	0.74	15.8	3,021	3.2	612
802	4950001	MAQUOKETA CITY OF STP	Sep	FA	0.80	15.8	3,168	3.2	642
803	4950001	MAQUOKETA CITY OF STP	Oct	FA	0.80	15.8	3,274	3.2	663
804	4950001	MAQUOKETA CITY OF STP	Nov	FA	0.80	15.8	3,168	3.2	642
805	4950001	MAQUOKETA CITY OF STP	Dec	WI	0.80	15.8	3,262	3.2	661
806	4950001	MAQUOKETA CITY OF STP	Annual				28,046		5,680
807	6469001	MARSHALLTOWN CITY OF	Jan	WI	6.40	24.7	40,896	2.9	4,802
808	6469001	MARSHALLTOWN CITY OF	Feb	WI	6.66	24.7	38,427	2.9	4,512
809	6469001	MARSHALLTOWN CITY OF	Mar	SP	5.17	24.7	33,036	2.9	3,879
810	6469001	MARSHALLTOWN CITY OF	Apr	SP	7.07	24.7	43,720	2.9	5,133
811	6469001	MARSHALLTOWN CITY OF	May	SP	6.28	24.7	40,129	2.9	4,712
812	6469001	MARSHALLTOWN CITY OF	Jun	SU	5.12	24.7	31,661	2.9	3,717
813	6469001	MARSHALLTOWN CITY OF	Jul	SU	6.72	24.7	42,941	2.9	5,042
814	6469001	MARSHALLTOWN CITY OF	Aug	SU	7.55	24.7	48,244	2.9	5,664
815	6469001	MARSHALLTOWN CITY OF	Sep	FA	5.03	24.7	31,105	2.9	3,652

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
816	6469001	MARSHALLTOWN CITY OF	Oct	FA	4.79	13.3	16,481	2.6	3,222
817	6469001	MARSHALLTOWN CITY OF	Nov	FA	6.02	24.7	37,227	2.9	4,371
818	6469001	MARSHALLTOWN CITY OF	Dec	WI	6.50	24.7	41,535	2.9	4,877
819	6469001	MARSHALLTOWN CITY OF	Annual				445,403		53,581
820	1750001	MASON CITY, CITY OF STP	Jan	WI	6.68	24.7	42,666	2.9	5,009
821	1750001	MASON CITY, CITY OF STP	Feb	WI	7.05	24.7	40,673	2.9	4,775
822	1750001	MASON CITY, CITY OF STP	Mar	SP	11.20	24.7	71,568	2.9	8,403
823	1750001	MASON CITY, CITY OF STP	Apr	SP	9.62	24.7	59,495	2.9	6,985
824	1750001	MASON CITY, CITY OF STP	May	SP	9.06	24.7	57,906	2.9	6,799
825	1750001	MASON CITY, CITY OF STP	Jun	SU	7.30	24.7	45,136	2.9	5,299
826	1750001	MASON CITY, CITY OF STP	Jul	SU	7.31	24.7	46,724	2.9	5,486
827	1750001	MASON CITY, CITY OF STP	Aug	SU	6.64	24.7	42,410	2.9	4,979
828	1750001	MASON CITY, CITY OF STP	Sep	FA	7.20	24.7	44,518	2.9	5,227
829	1750001	MASON CITY, CITY OF STP	Oct	FA	6.10	24.7	38,960	2.9	4,574
830	1750001	MASON CITY, CITY OF STP	Nov	FA	7.97	24.7	49,285	2.9	5,787
831	1750001	MASON CITY, CITY OF STP	Dec	WI	6.89	24.7	44,040	2.9	5,171
832	1750001	MASON CITY, CITY OF STP	Annual				583,380		68,494
833	6352001	MELCHER--DALLAS CITY OF STP	Jan	WI	0.19	15.8	777	3.2	157
834	6352001	MELCHER--DALLAS CITY OF STP	Feb	WI	0.39	15.8	1,451	3.2	294
835	6352001	MELCHER--DALLAS CITY OF STP	Mar	SP	0.38	15.8	1,553	3.2	315
836	6352001	MELCHER--DALLAS CITY OF STP	Apr	SP	0.05	15.8	198	3.2	40
837	6352001	MELCHER--DALLAS CITY OF STP	May	SP	0.42	15.8	1,733	3.2	351
838	6352001	MELCHER--DALLAS CITY OF STP	Jun	SU	0.28	15.8	1,104	3.2	224
839	6352001	MELCHER--DALLAS CITY OF STP	Jul	SU	0.47	15.8	1,913	3.2	387
840	6352001	MELCHER--DALLAS CITY OF STP	Aug	SU	0.30	15.8	1,243	3.2	252
841	6352001	MELCHER--DALLAS CITY OF STP	Sep	FA	0.25	15.8	969	3.2	196
842	6352001	MELCHER--DALLAS CITY OF STP	Oct	FA	0.08	15.8	335	3.2	68
843	6352001	MELCHER--DALLAS CITY OF STP	Nov	FA	0.45	15.8	1,780	3.2	361
844	6352001	MELCHER--DALLAS CITY OF STP	Dec	WI	0.38	15.8	1,537	3.2	311
845	6352001	MELCHER--DALLAS CITY OF STP	Annual				14,592		2,955
846	7751001	MITCHELLVILLE CITY OF STP	Jan	WI	0.48	15.8	1,962	3.2	397
847	7751001	MITCHELLVILLE CITY OF STP	Feb	WI	0.56	15.8	2,049	3.2	415
848	7751001	MITCHELLVILLE CITY OF STP	Mar	SP	0.55	15.8	2,252	3.2	456
849	7751001	MITCHELLVILLE CITY OF STP	Apr	SP	0.75	15.8	2,951	3.2	598
850	7751001	MITCHELLVILLE CITY OF STP	May	SP	0.50	15.8	2,032	3.2	411
851	7751001	MITCHELLVILLE CITY OF STP	Jun	SU	0.30	15.8	1,183	3.2	240
852	7751001	MITCHELLVILLE CITY OF STP	Jul	SU	0.46	15.8	1,893	3.2	383
853	7751001	MITCHELLVILLE CITY OF STP	Aug	SU	0.45	15.8	1,852	3.2	375
854	7751001	MITCHELLVILLE CITY OF STP	Sep	FA	0.42	15.8	1,665	3.2	337
855	7751001	MITCHELLVILLE CITY OF STP	Oct	FA	0.32	15.8	1,300	3.2	263
856	7751001	MITCHELLVILLE CITY OF STP	Nov	FA	0.49	15.8	1,922	3.2	389
857	7751001	MITCHELLVILLE CITY OF STP	Dec	WI	0.63	15.8	2,591	3.2	525
858	7751001	MITCHELLVILLE CITY OF STP	Annual				23,652		4,790
859	7950001	MONTEZUMA CITY OF STP	Jan	WI	0.40	15.8	1,635	3.2	331
860	7950001	MONTEZUMA CITY OF STP	Feb	WI	0.40	15.8	1,477	3.2	299
861	7950001	MONTEZUMA CITY OF STP	Mar	SP	0.40	15.8	1,635	3.2	331
862	7950001	MONTEZUMA CITY OF STP	Apr	SP	0.40	15.8	1,582	3.2	320
863	7950001	MONTEZUMA CITY OF STP	May	SP	0.40	15.8	1,635	3.2	331
864	7950001	MONTEZUMA CITY OF STP	Jun	SU	0.40	15.8	1,582	3.2	320
865	7950001	MONTEZUMA CITY OF STP	Jul	SU	0.40	15.8	1,635	3.2	331
866	7950001	MONTEZUMA CITY OF STP	Aug	SU	0.40	15.8	1,635	3.2	331
867	7950001	MONTEZUMA CITY OF STP	Sep	FA	0.40	15.8	1,582	3.2	320
868	7950001	MONTEZUMA CITY OF STP	Oct	FA	0.40	15.8	1,635	3.2	331
869	7950001	MONTEZUMA CITY OF STP	Nov	FA	0.40	15.8	1,582	3.2	320
870	7950001	MONTEZUMA CITY OF STP	Dec	WI	0.40	15.8	1,635	3.2	331
871	7950001	MONTEZUMA CITY OF STP	Annual				19,251		3,899
872	5343001	MONTICELLO CITY OF STP	Jan	WI	0.47	15.8	1,917	3.2	388
873	5343001	MONTICELLO CITY OF STP	Feb	WI	0.54	15.8	1,990	3.2	403
874	5343001	MONTICELLO CITY OF STP	Mar	SP	0.50	15.8	2,027	3.2	411
875	5343001	MONTICELLO CITY OF STP	Apr	SP	0.56	15.8	2,195	3.2	445
876	5343001	MONTICELLO CITY OF STP	May	SP	0.44	15.8	1,778	3.2	360
877	5343001	MONTICELLO CITY OF STP	Jun	SU	0.34	15.8	1,329	3.2	269
878	5343001	MONTICELLO CITY OF STP	Jul	SU	0.34	15.8	1,402	3.2	284

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
879	5343001	MONTICELLO CITY OF STP	Aug	SU	0.50	15.8	2,056	3.2	416
880	5343001	MONTICELLO CITY OF STP	Sep	FA	0.40	15.8	1,598	3.2	324
881	5343001	MONTICELLO CITY OF STP	Oct	FA	0.38	15.8	1,561	3.2	316
882	5343001	MONTICELLO CITY OF STP	Nov	FA	0.53	15.8	2,093	3.2	424
883	5343001	MONTICELLO CITY OF STP	Dec	WI	0.54	15.8	2,207	3.2	447
884	5343001	MONTICELLO CITY OF STP	Annual				22,154		4,487
885	4453001	MT PLEASANT CITY OF STP (MAIN)	Jan	WI	1.14	13.3	3,905	2.6	763
886	4453001	MT PLEASANT CITY OF STP (MAIN)	Feb	WI	1.36	13.3	4,233	2.6	827
887	4453001	MT PLEASANT CITY OF STP (MAIN)	Mar	SP	1.34	13.3	4,611	2.6	901
888	4453001	MT PLEASANT CITY OF STP (MAIN)	Apr	SP	1.42	13.3	4,712	2.6	921
889	4453001	MT PLEASANT CITY OF STP (MAIN)	May	SP	1.21	13.3	4,156	2.6	813
890	4453001	MT PLEASANT CITY OF STP (MAIN)	Jun	SU	1.00	13.3	3,333	2.6	652
891	4453001	MT PLEASANT CITY OF STP (MAIN)	Jul	SU	1.55	13.3	5,330	2.6	1,042
892	4453001	MT PLEASANT CITY OF STP (MAIN)	Aug	SU	1.09	13.3	3,733	2.6	730
893	4453001	MT PLEASANT CITY OF STP (MAIN)	Sep	FA	1.15	13.3	3,826	2.6	748
894	4453001	MT PLEASANT CITY OF STP (MAIN)	Oct	FA	0.92	15.8	3,769	3.2	763
895	4453001	MT PLEASANT CITY OF STP (MAIN)	Nov	FA	1.35	13.3	4,482	2.6	876
896	4453001	MT PLEASANT CITY OF STP (MAIN)	Dec	WI	1.36	13.3	4,662	2.6	911
897	4453001	MT PLEASANT CITY OF STP (MAIN)	Annual				50,752		9,948
898	5758001	MOUNT VERNON CITY OF STP	Jan	WI	0.37	15.8	1,512	3.2	306
899	5758001	MOUNT VERNON CITY OF STP	Feb	WI	0.37	15.8	1,366	3.2	277
900	5758001	MOUNT VERNON CITY OF STP	Mar	SP	0.29	15.8	1,177	3.2	238
901	5758001	MOUNT VERNON CITY OF STP	Apr	SP	0.29	15.8	1,139	3.2	231
902	5758001	MOUNT VERNON CITY OF STP	May	SP	0.29	15.8	1,177	3.2	238
903	5758001	MOUNT VERNON CITY OF STP	Jun	SU	0.32	15.8	1,282	3.2	260
904	5758001	MOUNT VERNON CITY OF STP	Jul	SU	0.32	15.8	1,324	3.2	268
905	5758001	MOUNT VERNON CITY OF STP	Aug	SU	0.32	15.8	1,324	3.2	268
906	5758001	MOUNT VERNON CITY OF STP	Sep	FA	0.44	15.8	1,754	3.2	355
907	5758001	MOUNT VERNON CITY OF STP	Oct	FA	0.44	15.8	1,813	3.2	367
908	5758001	MOUNT VERNON CITY OF STP	Nov	FA	0.44	15.8	1,754	3.2	355
909	5758001	MOUNT VERNON CITY OF STP	Dec	WI	0.37	15.8	1,512	3.2	306
910	5758001	MOUNT VERNON CITY OF STP	Annual				17,136		3,471
911	7048001	MUSCATINE CITY OF STP	Jan	WI	6.21	24.7	39,663	2.9	4,657
912	7048001	MUSCATINE CITY OF STP	Feb	WI	6.56	24.7	37,862	2.9	4,445
913	7048001	MUSCATINE CITY OF STP	Mar	SP	6.98	24.7	44,621	2.9	5,239
914	7048001	MUSCATINE CITY OF STP	Apr	SP	8.03	24.7	49,675	2.9	5,832
915	7048001	MUSCATINE CITY OF STP	May	SP	6.77	24.7	43,260	2.9	5,079
916	7048001	MUSCATINE CITY OF STP	Jun	SU	6.26	24.7	38,711	2.9	4,545
917	7048001	MUSCATINE CITY OF STP	Jul	SU	9.34	24.7	59,657	2.9	7,004
918	7048001	MUSCATINE CITY OF STP	Aug	SU	8.05	24.7	51,439	2.9	6,039
919	7048001	MUSCATINE CITY OF STP	Sep	FA	9.01	24.7	55,710	2.9	6,541
920	7048001	MUSCATINE CITY OF STP	Oct	FA	7.65	24.7	48,877	2.9	5,739
921	7048001	MUSCATINE CITY OF STP	Nov	FA	7.57	24.7	46,793	2.9	5,494
922	7048001	MUSCATINE CITY OF STP	Dec	WI	8.25	24.7	52,724	2.9	6,190
923	7048001	MUSCATINE CITY OF STP	Annual				568,993		66,805
924	8562001	NEVADA CITY OF STP	Jan	WI	1.13	13.3	3,878	2.6	758
925	8562001	NEVADA CITY OF STP	Feb	WI	1.25	13.3	3,897	2.6	762
926	8562001	NEVADA CITY OF STP	Mar	SP	1.53	13.3	5,254	2.6	1,027
927	8562001	NEVADA CITY OF STP	Apr	SP	1.72	13.3	5,717	2.6	1,118
928	8562001	NEVADA CITY OF STP	May	SP	1.36	13.3	4,693	2.6	917
929	8562001	NEVADA CITY OF STP	Jun	SU	1.03	13.3	3,430	2.6	670
930	8562001	NEVADA CITY OF STP	Jul	SU	1.38	13.3	4,762	2.6	931
931	8562001	NEVADA CITY OF STP	Aug	SU	1.27	13.3	4,366	2.6	854
932	8562001	NEVADA CITY OF STP	Sep	FA	0.82	15.8	3,232	3.2	655
933	8562001	NEVADA CITY OF STP	Oct	FA	0.67	15.8	2,739	3.2	555
934	8562001	NEVADA CITY OF STP	Nov	FA	0.73	15.8	2,903	3.2	588
935	8562001	NEVADA CITY OF STP	Dec	WI	0.89	15.8	3,638	3.2	737
936	8562001	NEVADA CITY OF STP	Annual				48,509		9,571
937	1970001	NEW HAMPTON CITY OF STP	Jan	WI	0.98	15.8	4,013	3.2	813
938	1970001	NEW HAMPTON CITY OF STP	Feb	WI	0.98	15.8	3,627	3.2	735
939	1970001	NEW HAMPTON CITY OF STP	Mar	SP	1.42	13.3	4,890	2.6	956
940	1970001	NEW HAMPTON CITY OF STP	Apr	SP	1.26	13.3	4,200	2.6	821
941	1970001	NEW HAMPTON CITY OF STP	May	SP	1.11	13.3	3,815	2.6	746

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
942	1970001	NEW HAMPTON CITY OF STP	Jun	SU	1.00	15.8	3,938	3.2	798
943	1970001	NEW HAMPTON CITY OF STP	Jul	SU	1.16	13.3	4,000	2.6	782
944	1970001	NEW HAMPTON CITY OF STP	Aug	SU	1.53	13.3	5,273	2.6	1,031
945	1970001	NEW HAMPTON CITY OF STP	Sep	FA	1.87	13.3	6,243	2.6	1,220
946	1970001	NEW HAMPTON CITY OF STP	Oct	FA	1.08	13.3	3,709	2.6	725
947	1970001	NEW HAMPTON CITY OF STP	Nov	FA	1.00	13.3	3,332	2.6	651
948	1970001	NEW HAMPTON CITY OF STP	Dec	WI	0.96	15.8	3,921	3.2	794
949	1970001	NEW HAMPTON CITY OF STP	Annual				50,961		10,071
950	5059002	NEWTON CITY OF STP	Jan	WI	2.81	13.3	9,658	2.6	1,888
951	5059002	NEWTON CITY OF STP	Feb	WI	3.12	13.3	9,690	2.6	1,894
952	5059002	NEWTON CITY OF STP	Mar	SP	3.42	13.3	11,781	2.6	2,303
953	5059002	NEWTON CITY OF STP	Apr	SP	5.00	24.7	30,932	2.9	3,632
954	5059002	NEWTON CITY OF STP	May	SP	3.26	13.3	11,213	2.6	2,192
955	5059002	NEWTON CITY OF STP	Jun	SU	2.12	13.3	7,042	2.6	1,377
956	5059002	NEWTON CITY OF STP	Jul	SU	4.08	13.3	14,038	2.6	2,744
957	5059002	NEWTON CITY OF STP	Aug	SU	3.32	13.3	11,413	2.6	2,231
958	5059002	NEWTON CITY OF STP	Sep	FA	2.93	13.3	9,743	2.6	1,905
959	5059002	NEWTON CITY OF STP	Oct	FA	2.26	13.3	7,762	2.6	1,517
960	5059002	NEWTON CITY OF STP	Nov	FA	3.46	13.3	11,521	2.6	2,252
961	5059002	NEWTON CITY OF STP	Dec	WI	4.10	13.3	14,107	2.6	2,758
962	5059002	NEWTON CITY OF STP	Annual				148,902		26,694
963	5252001	NORTH LIBERTY CITY OF STP	Jan	WI	0.44	15.8	1,794	3.2	363
964	5252001	NORTH LIBERTY CITY OF STP	Feb	WI	0.49	15.8	1,794	3.2	363
965	5252001	NORTH LIBERTY CITY OF STP	Mar	SP	0.45	15.8	1,839	3.2	373
966	5252001	NORTH LIBERTY CITY OF STP	Apr	SP	0.56	15.8	2,219	3.2	449
967	5252001	NORTH LIBERTY CITY OF STP	May	SP	0.41	15.8	1,655	3.2	335
968	5252001	NORTH LIBERTY CITY OF STP	Jun	SU	0.32	15.8	1,278	3.2	259
969	5252001	NORTH LIBERTY CITY OF STP	Jul	SU	0.49	15.8	2,019	3.2	409
970	5252001	NORTH LIBERTY CITY OF STP	Aug	SU	0.44	15.8	1,803	3.2	365
971	5252001	NORTH LIBERTY CITY OF STP	Sep	FA	0.59	15.8	2,338	3.2	473
972	5252001	NORTH LIBERTY CITY OF STP	Oct	FA	0.44	15.8	1,803	3.2	365
973	5252001	NORTH LIBERTY CITY OF STP	Nov	FA	0.71	15.8	2,809	3.2	569
974	5252001	NORTH LIBERTY CITY OF STP	Dec	WI	0.61	15.8	2,477	3.2	502
975	5252001	NORTH LIBERTY CITY OF STP	Annual				23,828		4,826
976	3353001	OELWEIN CITY OF STP	Jan	WI	1.52	13.3	5,213	2.6	1,019
977	3353001	OELWEIN CITY OF STP	Feb	WI	1.41	13.3	4,388	2.6	858
978	3353001	OELWEIN CITY OF STP	Mar	SP	1.63	13.3	5,615	2.6	1,098
979	3353001	OELWEIN CITY OF STP	Apr	SP	1.75	13.3	5,814	2.6	1,137
980	3353001	OELWEIN CITY OF STP	May	SP	1.22	13.3	4,201	2.6	821
981	3353001	OELWEIN CITY OF STP	Jun	SU	0.89	15.8	3,509	3.2	711
982	3353001	OELWEIN CITY OF STP	Jul	SU	0.88	15.8	3,593	3.2	728
983	3353001	OELWEIN CITY OF STP	Aug	SU	0.86	15.8	3,523	3.2	714
984	3353001	OELWEIN CITY OF STP	Sep	FA	0.94	15.8	3,706	3.2	751
985	3353001	OELWEIN CITY OF STP	Oct	FA	0.82	15.8	3,360	3.2	680
986	3353001	OELWEIN CITY OF STP	Nov	FA	1.04	13.3	3,470	2.6	678
987	3353001	OELWEIN CITY OF STP	Dec	WI	1.07	13.3	3,689	2.6	721
988	3353001	OELWEIN CITY OF STP	Annual				50,081		9,915
989	8474001	ORANGE CITY CITY OF STP	Jan	WI	0.77	15.8	3,160	3.2	640
990	8474001	ORANGE CITY CITY OF STP	Feb	WI	0.82	15.8	3,027	3.2	613
991	8474001	ORANGE CITY CITY OF STP	Mar	SP	1.04	13.3	3,585	2.6	701
992	8474001	ORANGE CITY CITY OF STP	Apr	SP	1.17	13.3	3,886	2.6	760
993	8474001	ORANGE CITY CITY OF STP	May	SP	1.19	13.3	4,101	2.6	802
994	8474001	ORANGE CITY CITY OF STP	Jun	SU	0.93	15.8	3,675	3.2	744
995	8474001	ORANGE CITY CITY OF STP	Jul	SU	1.07	13.3	3,669	2.6	717
996	8474001	ORANGE CITY CITY OF STP	Aug	SU	0.96	15.8	3,912	3.2	792
997	8474001	ORANGE CITY CITY OF STP	Sep	FA	1.08	13.3	3,603	2.6	704
998	8474001	ORANGE CITY CITY OF STP	Oct	FA	1.37	13.3	4,717	2.6	922
999	8474001	ORANGE CITY CITY OF STP	Nov	FA	1.03	13.3	3,423	2.6	669
1000	8474001	ORANGE CITY CITY OF STP	Dec	WI	0.97	15.8	3,961	3.2	802
1001	8474001	ORANGE CITY CITY OF STP	Annual				44,719		8,867
1002	2038002	OSCEOLA CITY OF STP	Jan	WI	0.97	15.8	3,953	3.2	801
1003	2038002	OSCEOLA CITY OF STP	Feb	WI	1.16	13.3	3,596	2.6	703
1004	2038002	OSCEOLA CITY OF STP	Mar	SP	1.08	13.3	3,719	2.6	727

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
1005	2038002	OSCEOLA CITY OF STP	Apr	SP	1.29	13.3	4,295	2.6	840
1006	2038002	OSCEOLA CITY OF STP	May	SP	0.81	15.8	3,319	3.2	672
1007	2038002	OSCEOLA CITY OF STP	Jun	SU	0.68	15.8	2,698	3.2	546
1008	2038002	OSCEOLA CITY OF STP	Jul	SU	0.90	15.8	3,662	3.2	742
1009	2038002	OSCEOLA CITY OF STP	Aug	SU	0.76	15.8	3,102	3.2	628
1010	2038002	OSCEOLA CITY OF STP	Sep	FA	0.68	15.8	2,690	3.2	545
1011	2038002	OSCEOLA CITY OF STP	Oct	FA	0.47	15.8	1,913	3.2	387
1012	2038002	OSCEOLA CITY OF STP	Nov	FA	0.97	15.8	3,829	3.2	776
1013	2038002	OSCEOLA CITY OF STP	Dec	WI	1.05	13.3	3,613	2.6	706
1014	2038002	OSCEOLA CITY OF STP	Annual				40,390		8,073
1015	6273002	OSKALOOSA (SOUTHWEST)	Jan	WI	0.73	15.8	3,000	3.2	608
1016	6273002	OSKALOOSA (SOUTHWEST)	Feb	WI	1.02	13.3	3,167	2.6	619
1017	6273002	OSKALOOSA (SOUTHWEST)	Mar	SP	1.18	13.3	4,060	2.6	794
1018	6273002	OSKALOOSA (SOUTHWEST)	Apr	SP	1.37	13.3	4,575	2.6	894
1019	6273002	OSKALOOSA (SOUTHWEST)	May	SP	1.13	13.3	3,898	2.6	762
1020	6273002	OSKALOOSA (SOUTHWEST)	Jun	SU	0.66	15.8	2,595	3.2	526
1021	6273002	OSKALOOSA (SOUTHWEST)	Jul	SU	0.98	15.8	3,985	3.2	807
1022	6273002	OSKALOOSA (SOUTHWEST)	Aug	SU	1.18	13.3	4,060	2.6	794
1023	6273002	OSKALOOSA (SOUTHWEST)	Sep	FA	0.03	15.8	120	3.2	24
1024	6273002	OSKALOOSA (SOUTHWEST)	Oct	FA	0.91	15.8	3,711	3.2	752
1025	6273002	OSKALOOSA (SOUTHWEST)	Nov	FA	1.32	13.3	4,395	2.6	859
1026	6273002	OSKALOOSA (SOUTHWEST)	Dec	WI	0.80	15.8	3,278	3.2	664
1027	6273002	OSKALOOSA (SOUTHWEST)	Annual				40,846		8,102
1028	6273001	OSKALOOSA CITY OF STP (NE)	Jan	WI	0.91	15.8	3,732	3.2	756
1029	6273001	OSKALOOSA CITY OF STP (NE)	Feb	WI	0.85	15.8	3,131	3.2	634
1030	6273001	OSKALOOSA CITY OF STP (NE)	Mar	SP	0.83	15.8	3,409	3.2	690
1031	6273001	OSKALOOSA CITY OF STP (NE)	Apr	SP	0.90	15.8	3,556	3.2	720
1032	6273001	OSKALOOSA CITY OF STP (NE)	May	SP	0.43	15.8	1,766	3.2	358
1033	6273001	OSKALOOSA CITY OF STP (NE)	Jun	SU	0.51	15.8	2,025	3.2	410
1034	6273001	OSKALOOSA CITY OF STP (NE)	Jul	SU	0.72	15.8	2,923	3.2	592
1035	6273001	OSKALOOSA CITY OF STP (NE)	Aug	SU	0.58	15.8	2,363	3.2	478
1036	6273001	OSKALOOSA CITY OF STP (NE)	Sep	FA	0.81	15.8	3,216	3.2	651
1037	6273001	OSKALOOSA CITY OF STP (NE)	Oct	FA	0.70	15.8	2,849	3.2	577
1038	6273001	OSKALOOSA CITY OF STP (NE)	Nov	FA	1.24	13.3	4,129	2.6	807
1039	6273001	OSKALOOSA CITY OF STP (NE)	Dec	WI	1.10	13.3	3,795	2.6	742
1040	6273001	OSKALOOSA CITY OF STP (NE)	Annual				36,893		7,416
1041	9083001	OTTUMWA CITY OF STP	Jan	WI	6.44	24.7	41,133	2.9	4,829
1042	9083001	OTTUMWA CITY OF STP	Feb	WI	6.44	24.7	37,152	2.9	4,362
1043	9083001	OTTUMWA CITY OF STP	Mar	SP	6.38	24.7	40,770	2.9	4,787
1044	9083001	OTTUMWA CITY OF STP	Apr	SP	6.38	24.7	39,455	2.9	4,632
1045	9083001	OTTUMWA CITY OF STP	May	SP	6.38	24.7	40,770	2.9	4,787
1046	9083001	OTTUMWA CITY OF STP	Jun	SU	5.52	24.7	34,121	2.9	4,006
1047	9083001	OTTUMWA CITY OF STP	Jul	SU	5.52	24.7	35,259	2.9	4,140
1048	9083001	OTTUMWA CITY OF STP	Aug	SU	5.52	24.7	35,259	2.9	4,140
1049	9083001	OTTUMWA CITY OF STP	Sep	FA	6.62	24.7	40,962	2.9	4,809
1050	9083001	OTTUMWA CITY OF STP	Oct	FA	6.62	24.7	42,327	2.9	4,970
1051	9083001	OTTUMWA CITY OF STP	Nov	FA	6.62	24.7	40,962	2.9	4,809
1052	9083001	OTTUMWA CITY OF STP	Dec	WI	6.44	24.7	41,133	2.9	4,829
1053	9083001	OTTUMWA CITY OF STP	Annual				469,304		55,100
1054	6368006	PELLA CITY OF STP	Jan	WI	1.43	13.3	4,924	2.6	963
1055	6368006	PELLA CITY OF STP	Feb	WI	1.62	13.3	5,019	2.6	981
1056	6368006	PELLA CITY OF STP	Mar	SP	1.50	13.3	5,147	2.6	1,006
1057	6368006	PELLA CITY OF STP	Apr	SP	3.18	13.3	10,602	2.6	2,073
1058	6368006	PELLA CITY OF STP	May	SP	1.60	13.3	5,505	2.6	1,076
1059	6368006	PELLA CITY OF STP	Jun	SU	1.10	13.3	3,659	2.6	715
1060	6368006	PELLA CITY OF STP	Jul	SU	2.45	13.3	8,433	2.6	1,649
1061	6368006	PELLA CITY OF STP	Aug	SU	1.76	13.3	6,042	2.6	1,181
1062	6368006	PELLA CITY OF STP	Sep	FA	2.66	13.3	8,851	2.6	1,730
1063	6368006	PELLA CITY OF STP	Oct	FA	1.32	13.3	4,538	2.6	887
1064	6368006	PELLA CITY OF STP	Nov	FA	2.31	13.3	7,692	2.6	1,504
1065	6368006	PELLA CITY OF STP	Dec	WI	2.38	13.3	8,172	2.6	1,597
1066	6368006	PELLA CITY OF STP	Annual				78,585		15,362
1067	2561001	PERRY CITY OF STP	Jan	WI	1.03	13.3	3,530	2.6	690

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
1068	2561001	PERRY CITY OF STP	Feb	WI	1.09	13.3	3,387	2.6	662
1069	2561001	PERRY CITY OF STP	Mar	SP	1.41	13.3	4,838	2.6	946
1070	2561001	PERRY CITY OF STP	Apr	SP	1.37	13.3	4,555	2.6	890
1071	2561001	PERRY CITY OF STP	May	SP	1.48	13.3	5,085	2.6	994
1072	2561001	PERRY CITY OF STP	Jun	SU	0.99	15.8	3,912	3.2	792
1073	2561001	PERRY CITY OF STP	Jul	SU	1.23	13.3	4,246	2.6	830
1074	2561001	PERRY CITY OF STP	Aug	SU	1.26	13.3	4,328	2.6	846
1075	2561001	PERRY CITY OF STP	Sep	FA	1.26	13.3	4,199	2.6	821
1076	2561001	PERRY CITY OF STP	Oct	FA	0.99	15.8	4,059	3.2	822
1077	2561001	PERRY CITY OF STP	Nov	FA	1.27	13.3	4,215	2.6	824
1078	2561001	PERRY CITY OF STP	Dec	WI	1.38	13.3	4,734	2.6	926
1079	2561001	PERRY CITY OF STP	Annual				51,090		10,044
1080	6950001	RED OAK CITY OF STP	Jan	WI	1.09	13.3	3,733	2.6	730
1081	6950001	RED OAK CITY OF STP	Feb	WI	1.07	13.3	3,322	2.6	649
1082	6950001	RED OAK CITY OF STP	Mar	SP	1.04	13.3	3,561	2.6	696
1083	6950001	RED OAK CITY OF STP	Apr	SP	0.11	15.8	445	3.2	90
1084	6950001	RED OAK CITY OF STP	May	SP	0.95	15.8	3,863	3.2	782
1085	6950001	RED OAK CITY OF STP	Jun	SU	1.33	13.3	4,439	2.6	868
1086	6950001	RED OAK CITY OF STP	Jul	SU	0.95	15.8	3,895	3.2	789
1087	6950001	RED OAK CITY OF STP	Aug	SU	0.85	15.8	3,487	3.2	706
1088	6950001	RED OAK CITY OF STP	Sep	FA	1.01	13.3	3,350	2.6	655
1089	6950001	RED OAK CITY OF STP	Oct	FA	0.98	15.8	4,022	3.2	815
1090	6950001	RED OAK CITY OF STP	Nov	FA	1.15	13.3	3,819	2.6	747
1091	6950001	RED OAK CITY OF STP	Dec	WI	1.31	13.3	4,501	2.6	880
1092	6950001	RED OAK CITY OF STP	Annual				42,437		8,407
1093	1376001	ROCKWELL CITY, CITY OF STP	Jan	WI	0.37	15.8	1,504	3.2	305
1094	1376001	ROCKWELL CITY, CITY OF STP	Feb	WI	0.34	15.8	1,252	3.2	253
1095	1376001	ROCKWELL CITY, CITY OF STP	Mar	SP	0.50	15.8	2,036	3.2	412
1096	1376001	ROCKWELL CITY, CITY OF STP	Apr	SP	0.65	15.8	2,575	3.2	522
1097	1376001	ROCKWELL CITY, CITY OF STP	May	SP	0.37	15.8	1,492	3.2	302
1098	1376001	ROCKWELL CITY, CITY OF STP	Jun	SU	0.23	15.8	918	3.2	186
1099	1376001	ROCKWELL CITY, CITY OF STP	Jul	SU	0.31	15.8	1,267	3.2	257
1100	1376001	ROCKWELL CITY, CITY OF STP	Aug	SU	0.24	15.8	961	3.2	195
1101	1376001	ROCKWELL CITY, CITY OF STP	Sep	FA	0.28	15.8	1,108	3.2	224
1102	1376001	ROCKWELL CITY, CITY OF STP	Oct	FA	0.26	15.8	1,067	3.2	216
1103	1376001	ROCKWELL CITY, CITY OF STP	Nov	FA	0.40	15.8	1,570	3.2	318
1104	1376001	ROCKWELL CITY, CITY OF STP	Dec	WI	0.39	15.8	1,574	3.2	319
1105	1376001	ROCKWELL CITY, CITY OF STP	Annual				17,322		3,508
1106	7170001	SHELDON CITY OF STP	Jan	WI	0.97	15.8	3,949	3.2	800
1107	7170001	SHELDON CITY OF STP	Feb	WI	0.97	15.8	3,566	3.2	722
1108	7170001	SHELDON CITY OF STP	Mar	SP	1.09	13.3	3,737	2.6	730
1109	7170001	SHELDON CITY OF STP	Apr	SP	1.09	13.3	3,616	2.6	707
1110	7170001	SHELDON CITY OF STP	May	SP	1.09	13.3	3,737	2.6	730
1111	7170001	SHELDON CITY OF STP	Jun	SU	1.12	13.3	3,739	2.6	731
1112	7170001	SHELDON CITY OF STP	Jul	SU	1.12	13.3	3,864	2.6	755
1113	7170001	SHELDON CITY OF STP	Aug	SU	1.12	13.3	3,864	2.6	755
1114	7170001	SHELDON CITY OF STP	Sep	FA	1.12	13.3	3,716	2.6	726
1115	7170001	SHELDON CITY OF STP	Oct	FA	1.12	13.3	3,840	2.6	751
1116	7170001	SHELDON CITY OF STP	Nov	FA	1.12	13.3	3,716	2.6	726
1117	7170001	SHELDON CITY OF STP	Dec	WI	0.97	15.8	3,949	3.2	800
1118	7170001	SHELDON CITY OF STP	Annual				45,292		8,935
1119	3659001	SHENANDOAH CITY OF STP	Jan	WI	0.82	15.8	3,348	3.2	678
1120	3659001	SHENANDOAH CITY OF STP	Feb	WI	0.52	15.8	1,901	3.2	385
1121	3659001	SHENANDOAH CITY OF STP	Mar	SP	0.66	15.8	2,698	3.2	546
1122	3659001	SHENANDOAH CITY OF STP	Apr	SP	0.12	15.8	462	3.2	94
1123	3659001	SHENANDOAH CITY OF STP	May	SP	0.70	15.8	2,865	3.2	580
1124	3659001	SHENANDOAH CITY OF STP	Jun	SU	0.54	15.8	2,124	3.2	430
1125	3659001	SHENANDOAH CITY OF STP	Jul	SU	0.69	15.8	2,829	3.2	573
1126	3659001	SHENANDOAH CITY OF STP	Aug	SU	0.67	15.8	2,747	3.2	556
1127	3659001	SHENANDOAH CITY OF STP	Sep	FA	0.51	15.8	2,033	3.2	412
1128	3659001	SHENANDOAH CITY OF STP	Oct	FA	0.81	15.8	3,323	3.2	673
1129	3659001	SHENANDOAH CITY OF STP	Nov	FA	0.83	15.8	3,263	3.2	661
1130	3659001	SHENANDOAH CITY OF STP	Dec	WI	0.88	15.8	3,609	3.2	731

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
1131	3659001	SHENANDOAH CITY OF STP	Annual				31,203		6,320
1132	8486002	SIOUX CENTER CITY OF STP	Jan	WI	0.94	15.8	3,842	3.2	778
1133	8486002	SIOUX CENTER CITY OF STP	Feb	WI	0.94	15.8	3,470	3.2	703
1134	8486002	SIOUX CENTER CITY OF STP	Mar	SP	1.14	13.3	3,905	2.6	763
1135	8486002	SIOUX CENTER CITY OF STP	Apr	SP	1.14	13.3	3,779	2.6	739
1136	8486002	SIOUX CENTER CITY OF STP	May	SP	1.14	13.3	3,905	2.6	763
1137	8486002	SIOUX CENTER CITY OF STP	Jun	SU	1.24	13.3	4,142	2.6	810
1138	8486002	SIOUX CENTER CITY OF STP	Jul	SU	1.24	13.3	4,280	2.6	837
1139	8486002	SIOUX CENTER CITY OF STP	Aug	SU	1.24	13.3	4,280	2.6	837
1140	8486002	SIOUX CENTER CITY OF STP	Sep	FA	1.24	13.3	4,121	2.6	806
1141	8486002	SIOUX CENTER CITY OF STP	Oct	FA	1.24	13.3	4,258	2.6	832
1142	8486002	SIOUX CENTER CITY OF STP	Nov	FA	1.24	13.3	4,121	2.6	806
1143	8486002	SIOUX CENTER CITY OF STP	Dec	WI	0.94	15.8	3,842	3.2	778
1144	8486002	SIOUX CENTER CITY OF STP	Annual				47,947		9,452
1145	9778001	SIOUX CITY CITY OF STP	Jan	WI	12.38	24.7	79,108	2.9	9,288
1146	9778001	SIOUX CITY CITY OF STP	Feb	WI	12.43	24.7	71,741	2.9	8,423
1147	9778001	SIOUX CITY CITY OF STP	Mar	SP	12.32	24.7	78,725	2.9	9,243
1148	9778001	SIOUX CITY CITY OF STP	Apr	SP	11.97	24.7	74,021	2.9	8,691
1149	9778001	SIOUX CITY CITY OF STP	May	SP	11.98	24.7	76,552	2.9	8,988
1150	9778001	SIOUX CITY CITY OF STP	Jun	SU	12.20	24.7	75,443	2.9	8,858
1151	9778001	SIOUX CITY CITY OF STP	Jul	SU	11.78	24.7	75,274	2.9	8,838
1152	9778001	SIOUX CITY CITY OF STP	Aug	SU	12.23	24.7	78,150	2.9	9,175
1153	9778001	SIOUX CITY CITY OF STP	Sep	FA	12.04	24.7	74,454	2.9	8,742
1154	9778001	SIOUX CITY CITY OF STP	Oct	FA	13.80	24.7	88,182	2.9	10,353
1155	9778001	SIOUX CITY CITY OF STP	Nov	FA	12.39	24.7	76,618	2.9	8,996
1156	9778001	SIOUX CITY CITY OF STP	Dec	WI	11.33	24.7	72,399	2.9	8,500
1157	9778001	SIOUX CITY CITY OF STP	Annual				920,667		108,094
1158	2171004	SPENCER, CITY OF STP	Jan	WI	1.82	13.3	6,262	2.6	1,224
1159	2171004	SPENCER, CITY OF STP	Feb	WI	2.06	13.3	6,402	2.6	1,252
1160	2171004	SPENCER, CITY OF STP	Mar	SP	2.24	13.3	7,707	2.6	1,507
1161	2171004	SPENCER, CITY OF STP	Apr	SP	2.87	13.3	9,556	2.6	1,868
1162	2171004	SPENCER, CITY OF STP	May	SP	2.94	13.3	10,116	2.6	1,978
1163	2171004	SPENCER, CITY OF STP	Jun	SU	2.48	13.3	8,258	2.6	1,614
1164	2171004	SPENCER, CITY OF STP	Jul	SU	3.13	13.3	10,770	2.6	2,105
1165	2171004	SPENCER, CITY OF STP	Aug	SU	2.89	13.3	9,944	2.6	1,944
1166	2171004	SPENCER, CITY OF STP	Sep	FA	2.26	13.3	7,525	2.6	1,471
1167	2171004	SPENCER, CITY OF STP	Oct	FA	2.72	13.3	9,359	2.6	1,830
1168	2171004	SPENCER, CITY OF STP	Nov	FA	2.20	13.3	7,326	2.6	1,432
1169	2171004	SPENCER, CITY OF STP	Dec	WI	1.94	13.3	6,675	2.6	1,305
1170	2171004	SPENCER, CITY OF STP	Annual				99,900		19,529
1171	1178001	STORM LAKE CITY OF STP	Jan	WI	1.92	13.3	6,602	2.6	1,291
1172	1178002	STORM LAKE CITY OF STP	Feb	WI	2.15	13.3	6,676	2.6	1,305
1173	1178003	STORM LAKE CITY OF STP	Mar	SP	2.71	13.3	9,340	2.6	1,826
1174	1178004	STORM LAKE CITY OF STP	Apr	SP	3.35	13.3	11,148	2.6	2,179
1175	1178005	STORM LAKE CITY OF STP	May	SP	3.77	13.3	12,957	2.6	2,533
1176	1178006	STORM LAKE CITY OF STP	Jun	SU	1.91	13.3	6,361	2.6	1,244
1177	1178007	STORM LAKE CITY OF STP	Jul	SU	1.86	13.3	6,411	2.6	1,253
1178	1178008	STORM LAKE CITY OF STP	Aug	SU	1.95	13.3	6,723	2.6	1,314
1179	1178009	STORM LAKE CITY OF STP	Sep	FA	3.20	13.3	10,655	2.6	2,083
1180	1178010	STORM LAKE CITY OF STP	Oct	FA	3.02	13.3	10,396	2.6	2,032
1181	1178011	STORM LAKE CITY OF STP	Nov	FA	1.90	13.3	6,324	2.6	1,236
1182	1178012	STORM LAKE CITY OF STP	Dec	WI	1.81	13.3	6,222	2.6	1,216
1183	1178012	STORM LAKE CITY OF STP	Annual				99,816		19,513
1184	8670002	TAMA CITY OF STP	Jan	WI	0.57	15.8	2,334	3.2	473
1185	8670002	TAMA CITY OF STP	Feb	WI	0.67	15.8	2,481	3.2	502
1186	8670002	TAMA CITY OF STP	Mar	SP	0.75	15.8	3,049	3.2	618
1187	8670002	TAMA CITY OF STP	Apr	SP	0.99	15.8	3,900	3.2	790
1188	8670002	TAMA CITY OF STP	May	SP	0.76	15.8	3,086	3.2	625
1189	8670002	TAMA CITY OF STP	Jun	SU	0.49	15.8	1,954	3.2	396
1190	8670002	TAMA CITY OF STP	Jul	SU	0.81	15.8	3,303	3.2	669
1191	8670002	TAMA CITY OF STP	Aug	SU	0.81	15.8	3,290	3.2	666
1192	8670002	TAMA CITY OF STP	Sep	FA	0.51	15.8	2,006	3.2	406
1193	8670002	TAMA CITY OF STP	Oct	FA	0.51	15.8	2,076	3.2	421

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
1194	8670002	TAMA CITY OF STP	Nov	FA	0.65	15.8	2,555	3.2	518
1195	8670002	TAMA CITY OF STP	Dec	WI	0.68	15.8	2,763	3.2	560
1196	8670002	TAMA CITY OF STP	Annual				32,798		6,643
1197	1689001	TIPTON CITY OF STP (WEST)	Jan	WI	0.39	15.8	1,593	3.2	323
1198	1689001	TIPTON CITY OF STP (WEST)	Feb	WI	0.39	15.8	1,438	3.2	291
1199	1689001	TIPTON CITY OF STP (WEST)	Mar	SP	0.29	15.8	1,183	3.2	240
1200	1689001	TIPTON CITY OF STP (WEST)	Apr	SP	0.29	15.8	1,145	3.2	232
1201	1689001	TIPTON CITY OF STP (WEST)	May	SP	0.29	15.8	1,183	3.2	240
1202	1689001	TIPTON CITY OF STP (WEST)	Jun	SU	0.31	15.8	1,231	3.2	249
1203	1689001	TIPTON CITY OF STP (WEST)	Jul	SU	0.31	15.8	1,272	3.2	258
1204	1689001	TIPTON CITY OF STP (WEST)	Aug	SU	0.31	15.8	1,272	3.2	258
1205	1689001	TIPTON CITY OF STP (WEST)	Sep	FA	0.43	15.8	1,720	3.2	348
1206	1689001	TIPTON CITY OF STP (WEST)	Oct	FA	0.43	15.8	1,777	3.2	360
1207	1689001	TIPTON CITY OF STP (WEST)	Nov	FA	0.43	15.8	1,720	3.2	348
1208	1689001	TIPTON CITY OF STP (WEST)	Dec	WI	0.39	15.8	1,593	3.2	323
1209	1689001	TIPTON CITY OF STP (WEST)	Annual				17,127		3,469
1210	8676001	TOLEDO CITY OF STP	Jan	WI	0.53	15.8	2,162	3.2	438
1211	8676001	TOLEDO CITY OF STP	Feb	WI	0.62	15.8	2,296	3.2	465
1212	8676001	TOLEDO CITY OF STP	Mar	SP	0.63	15.8	2,583	3.2	523
1213	8676001	TOLEDO CITY OF STP	Apr	SP	0.87	15.8	3,453	3.2	699
1214	8676001	TOLEDO CITY OF STP	May	SP	0.58	15.8	2,375	3.2	481
1215	8676001	TOLEDO CITY OF STP	Jun	SU	0.38	15.8	1,519	3.2	308
1216	8676001	TOLEDO CITY OF STP	Jul	SU	0.58	15.8	2,383	3.2	483
1217	8676001	TOLEDO CITY OF STP	Aug	SU	0.68	15.8	2,759	3.2	559
1218	8676001	TOLEDO CITY OF STP	Sep	FA	0.44	15.8	1,721	3.2	348
1219	8676001	TOLEDO CITY OF STP	Oct	FA	0.54	15.8	2,187	3.2	443
1220	8676001	TOLEDO CITY OF STP	Nov	FA	0.68	15.8	2,674	3.2	542
1221	8676001	TOLEDO CITY OF STP	Dec	WI	0.68	15.8	2,792	3.2	565
1222	8676001	TOLEDO CITY OF STP	Annual				28,905		5,854
1223	0688001	VINTON CITY OF STP	Jan	WI	0.78	15.8	3,196	3.2	647
1224	0688001	VINTON CITY OF STP	Feb	WI	0.87	15.8	3,219	3.2	652
1225	0688001	VINTON CITY OF STP	Mar	SP	0.77	15.8	3,143	3.2	637
1226	0688001	VINTON CITY OF STP	Apr	SP	0.76	15.8	3,022	3.2	612
1227	0688001	VINTON CITY OF STP	May	SP	0.62	15.8	2,542	3.2	515
1228	0688001	VINTON CITY OF STP	Jun	SU	0.56	15.8	2,223	3.2	450
1229	0688001	VINTON CITY OF STP	Jul	SU	0.86	15.8	3,528	3.2	714
1230	0688001	VINTON CITY OF STP	Aug	SU	0.77	15.8	3,160	3.2	640
1231	0688001	VINTON CITY OF STP	Sep	FA	0.70	15.8	2,769	3.2	561
1232	0688001	VINTON CITY OF STP	Oct	FA	0.60	15.8	2,453	3.2	497
1233	0688001	VINTON CITY OF STP	Nov	FA	0.77	15.8	3,050	3.2	618
1234	0688001	VINTON CITY OF STP	Dec	WI	0.83	15.8	3,397	3.2	688
1235	0688001	VINTON CITY OF STP	Annual				35,702		7,231
1236	7085001	WALCOTT CITY OF STP (SOUTH)	Jan	WI	0.24	15.8	969	3.2	196
1237	7085001	WALCOTT CITY OF STP (SOUTH)	Feb	WI	0.24	15.8	875	3.2	177
1238	7085001	WALCOTT CITY OF STP (SOUTH)	Mar	SP	0.21	15.8	854	3.2	173
1239	7085001	WALCOTT CITY OF STP (SOUTH)	Apr	SP	0.21	15.8	827	3.2	167
1240	7085001	WALCOTT CITY OF STP (SOUTH)	May	SP	0.21	15.8	854	3.2	173
1241	7085001	WALCOTT CITY OF STP (SOUTH)	Jun	SU	0.18	15.8	696	3.2	141
1242	7085001	WALCOTT CITY OF STP (SOUTH)	Jul	SU	0.18	15.8	719	3.2	146
1243	7085001	WALCOTT CITY OF STP (SOUTH)	Aug	SU	0.18	15.8	719	3.2	146
1244	7085001	WALCOTT CITY OF STP (SOUTH)	Sep	FA	0.26	15.8	1,032	3.2	209
1245	7085001	WALCOTT CITY OF STP (SOUTH)	Oct	FA	0.26	15.8	1,067	3.2	216
1246	7085001	WALCOTT CITY OF STP (SOUTH)	Nov	FA	0.26	15.8	1,032	3.2	209
1247	7085001	WALCOTT CITY OF STP (SOUTH)	Dec	WI	0.24	15.8	969	3.2	196
1248	7085001	WALCOTT CITY OF STP (SOUTH)	Annual				10,615		2,150
1249	5879001	WAPELLO CITY OF STP	Jan	WI	0.25	15.8	1,030	3.2	209
1250	5879001	WAPELLO CITY OF STP	Feb	WI	0.25	15.8	930	3.2	188
1251	5879001	WAPELLO CITY OF STP	Mar	SP	0.28	15.8	1,124	3.2	228
1252	5879001	WAPELLO CITY OF STP	Apr	SP	0.28	15.8	1,088	3.2	220
1253	5879001	WAPELLO CITY OF STP	May	SP	0.28	15.8	1,124	3.2	228
1254	5879001	WAPELLO CITY OF STP	Jun	SU	0.29	15.8	1,143	3.2	232
1255	5879001	WAPELLO CITY OF STP	Jul	SU	0.29	15.8	1,181	3.2	239
1256	5879001	WAPELLO CITY OF STP	Aug	SU	0.29	15.8	1,181	3.2	239

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
1257	5879001	WAPELLO CITY OF STP	Sep	FA	0.33	15.8	1,288	3.2	261
1258	5879001	WAPELLO CITY OF STP	Oct	FA	0.33	15.8	1,330	3.2	269
1259	5879001	WAPELLO CITY OF STP	Nov	FA	0.33	15.8	1,288	3.2	261
1260	5879001	WAPELLO CITY OF STP	Dec	WI	0.25	15.8	1,030	3.2	209
1261	5879001	WAPELLO CITY OF STP	Annual				13,738		2,782
1262	9271001	WASHINGTON CITY OF STP	Jan	WI	0.95	15.8	3,891	3.2	788
1263	9271001	WASHINGTON CITY OF STP	Feb	WI	1.42	13.3	4,410	2.6	862
1264	9271001	WASHINGTON CITY OF STP	Mar	SP	1.55	13.3	5,340	2.6	1,044
1265	9271001	WASHINGTON CITY OF STP	Apr	SP	1.31	13.3	4,365	2.6	853
1266	9271001	WASHINGTON CITY OF STP	May	SP	0.99	15.8	4,030	3.2	816
1267	9271001	WASHINGTON CITY OF STP	Jun	SU	0.66	15.8	2,619	3.2	530
1268	9271001	WASHINGTON CITY OF STP	Jul	SU	1.52	13.3	5,213	2.6	1,019
1269	9271001	WASHINGTON CITY OF STP	Aug	SU	1.18	13.3	4,064	2.6	794
1270	9271001	WASHINGTON CITY OF STP	Sep	FA	1.95	13.3	6,476	2.6	1,266
1271	9271001	WASHINGTON CITY OF STP	Oct	FA	1.11	13.3	3,816	2.6	746
1272	9271001	WASHINGTON CITY OF STP	Nov	FA	1.58	13.3	5,251	2.6	1,027
1273	9271001	WASHINGTON CITY OF STP	Dec	WI	2.07	13.3	7,119	2.6	1,392
1274	9271001	WASHINGTON CITY OF STP	Annual				56,594		11,138
1275	0790001	WATERLOO CITY OF STP	Jan	WI	15.72	24.7	100,451	2.9	11,794
1276	0790001	WATERLOO CITY OF STP	Feb	WI	17.43	24.7	100,599	2.9	11,811
1277	0790001	WATERLOO CITY OF STP	Mar	SP	19.55	24.7	124,924	2.9	14,667
1278	0790001	WATERLOO CITY OF STP	Apr	SP	23.71	24.7	146,619	2.9	17,214
1279	0790001	WATERLOO CITY OF STP	May	SP	19.91	24.7	127,225	2.9	14,937
1280	0790001	WATERLOO CITY OF STP	Jun	SU	16.48	24.7	101,910	2.9	11,965
1281	0790001	WATERLOO CITY OF STP	Jul	SU	16.33	24.7	104,349	2.9	12,251
1282	0790001	WATERLOO CITY OF STP	Aug	SU	16.63	24.7	106,266	2.9	12,477
1283	0790001	WATERLOO CITY OF STP	Sep	FA	16.29	24.7	100,735	2.9	11,827
1284	0790001	WATERLOO CITY OF STP	Oct	FA	16.32	24.7	104,285	2.9	12,244
1285	0790001	WATERLOO CITY OF STP	Nov	FA	17.50	24.7	108,218	2.9	12,706
1286	0790001	WATERLOO CITY OF STP	Dec	WI	18.20	24.7	116,298	2.9	13,654
1287	0790001	WATERLOO CITY OF STP	Annual				1,341,879		157,548
1288	2573001	WAUKEE CITY OF STP	Jan	WI	0.40	15.8	1,635	3.2	331
1289	2573001	WAUKEE CITY OF STP	Feb	WI	0.41	15.8	1,511	3.2	306
1290	2573001	WAUKEE CITY OF STP	Mar	SP	0.39	15.8	1,574	3.2	319
1291	2573001	WAUKEE CITY OF STP	Apr	SP	0.44	15.8	1,733	3.2	351
1292	2573001	WAUKEE CITY OF STP	May	SP	0.26	15.8	1,066	3.2	216
1293	2573001	WAUKEE CITY OF STP	Jun	SU	0.21	15.8	811	3.2	164
1294	2573001	WAUKEE CITY OF STP	Jul	SU	0.46	15.8	1,890	3.2	383
1295	2573001	WAUKEE CITY OF STP	Aug	SU	0.51	15.8	2,071	3.2	419
1296	2573001	WAUKEE CITY OF STP	Sep	FA	0.52	15.8	2,038	3.2	413
1297	2573001	WAUKEE CITY OF STP	Oct	FA	0.48	15.8	1,948	3.2	395
1298	2573001	WAUKEE CITY OF STP	Nov	FA	0.61	15.8	2,418	3.2	490
1299	2573001	WAUKEE CITY OF STP	Dec	WI	0.77	15.8	3,128	3.2	634
1300	2573001	WAUKEE CITY OF STP	Annual				21,823		4,420
1301	0398001	WAUKON CITY OF STP	Jan	WI	0.89	15.8	3,638	3.2	737
1302	0398001	WAUKON CITY OF STP	Feb	WI	0.86	15.8	3,168	3.2	642
1303	0398001	WAUKON CITY OF STP	Mar	SP	0.80	15.8	3,278	3.2	664
1304	0398001	WAUKON CITY OF STP	Apr	SP	0.84	15.8	3,339	3.2	676
1305	0398001	WAUKON CITY OF STP	May	SP	0.71	15.8	2,914	3.2	590
1306	0398001	WAUKON CITY OF STP	Jun	SU	0.79	15.8	3,141	3.2	636
1307	0398001	WAUKON CITY OF STP	Jul	SU	0.80	15.8	3,266	3.2	661
1308	0398001	WAUKON CITY OF STP	Aug	SU	0.75	15.8	3,057	3.2	619
1309	0398001	WAUKON CITY OF STP	Sep	FA	0.76	15.8	3,010	3.2	610
1310	0398001	WAUKON CITY OF STP	Oct	FA	0.82	15.8	3,344	3.2	677
1311	0398001	WAUKON CITY OF STP	Nov	FA	0.88	15.8	3,461	3.2	701
1312	0398001	WAUKON CITY OF STP	Dec	WI	0.92	15.8	3,756	3.2	761
1313	0398001	WAUKON CITY OF STP	Annual				39,373		7,974
1314	0990001	WAVERLY CITY OF STP	Jan	WI	1.11	13.3	3,816	2.6	746
1315	0990001	WAVERLY CITY OF STP	Feb	WI	1.10	13.3	3,403	2.6	665
1316	0990001	WAVERLY CITY OF STP	Mar	SP	1.42	13.3	4,882	2.6	954
1317	0990001	WAVERLY CITY OF STP	Apr	SP	1.25	13.3	4,176	2.6	816
1318	0990001	WAVERLY CITY OF STP	May	SP	1.10	13.3	3,775	2.6	738
1319	0990001	WAVERLY CITY OF STP	Jun	SU	0.93	15.8	3,679	3.2	745

Row	NPDES #	POTW Name	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
						IA-specific TPC (mg/L)	Baseline Load (lbs)	IA-specific TPC (mg/L)	Baseline Load (lbs)
1320	0990001	WAVERLY CITY OF STP	Jul	SU	1.01	13.3	3,482	2.6	681
1321	0990001	WAVERLY CITY OF STP	Aug	SU	0.96	15.8	3,928	3.2	796
1322	0990001	WAVERLY CITY OF STP	Sep	FA	0.97	15.8	3,829	3.2	776
1323	0990001	WAVERLY CITY OF STP	Oct	FA	0.85	15.8	3,462	3.2	701
1324	0990001	WAVERLY CITY OF STP	Nov	FA	1.03	13.3	3,443	2.6	673
1325	0990001	WAVERLY CITY OF STP	Dec	WI	0.92	15.8	3,765	3.2	762
1326	0990001	WAVERLY CITY OF STP	Annual				45,639		9,053
1327	4063001	WEBSTER CITY, CITY OF STP	Jan	WI	1.24	13.3	4,263	2.6	833
1328	4063001	WEBSTER CITY, CITY OF STP	Feb	WI	1.40	13.3	4,338	2.6	848
1329	4063001	WEBSTER CITY, CITY OF STP	Mar	SP	1.69	13.3	5,822	2.6	1,138
1330	4063001	WEBSTER CITY, CITY OF STP	Apr	SP	1.73	13.3	5,767	2.6	1,127
1331	4063001	WEBSTER CITY, CITY OF STP	May	SP	1.42	13.3	4,876	2.6	953
1332	4063001	WEBSTER CITY, CITY OF STP	Jun	SU	1.23	13.3	4,092	2.6	800
1333	4063001	WEBSTER CITY, CITY OF STP	Jul	SU	1.23	13.3	4,239	2.6	829
1334	4063001	WEBSTER CITY, CITY OF STP	Aug	SU	1.09	13.3	3,757	2.6	735
1335	4063001	WEBSTER CITY, CITY OF STP	Sep	FA	1.03	13.3	3,420	2.6	669
1336	4063001	WEBSTER CITY, CITY OF STP	Oct	FA	0.97	15.8	3,981	3.2	806
1337	4063001	WEBSTER CITY, CITY OF STP	Nov	FA	1.13	13.3	3,746	2.6	732
1338	4063001	WEBSTER CITY, CITY OF STP	Dec	WI	1.10	13.3	3,775	2.6	738
1339	4063001	WEBSTER CITY, CITY OF STP	Annual				52,076		10,208
1340	2985001	WEST BURLINGTON CITY OF STP	Jan	WI	0.30	15.8	1,243	3.2	252
1341	2985001	WEST BURLINGTON CITY OF STP	Feb	WI	0.45	15.8	1,643	3.2	333
1342	2985001	WEST BURLINGTON CITY OF STP	Mar	SP	0.61	15.8	2,493	3.2	505
1343	2985001	WEST BURLINGTON CITY OF STP	Apr	SP	0.93	15.8	3,691	3.2	747
1344	2985001	WEST BURLINGTON CITY OF STP	May	SP	0.39	15.8	1,574	3.2	319
1345	2985001	WEST BURLINGTON CITY OF STP	Jun	SU	0.32	15.8	1,266	3.2	256
1346	2985001	WEST BURLINGTON CITY OF STP	Jul	SU	0.65	15.8	2,645	3.2	536
1347	2985001	WEST BURLINGTON CITY OF STP	Aug	SU	0.51	15.8	2,085	3.2	422
1348	2985001	WEST BURLINGTON CITY OF STP	Sep	FA	0.50	15.8	1,982	3.2	401
1349	2985001	WEST BURLINGTON CITY OF STP	Oct	FA	0.33	15.8	1,333	3.2	270
1350	2985001	WEST BURLINGTON CITY OF STP	Nov	FA	0.89	15.8	3,517	3.2	712
1351	2985001	WEST BURLINGTON CITY OF STP	Dec	WI	0.62	15.8	2,514	3.2	509
1352	2985001	WEST BURLINGTON CITY OF STP	Annual				25,983		5,262
1353	7073001	WEST LIBERTY CITY OF STP	Jan	WI	0.51	15.8	2,085	3.2	422
1354	7073001	WEST LIBERTY CITY OF STP	Feb	WI	0.55	15.8	2,016	3.2	408
1355	7073001	WEST LIBERTY CITY OF STP	Mar	SP	0.57	15.8	2,342	3.2	474
1356	7073001	WEST LIBERTY CITY OF STP	Apr	SP	0.66	15.8	2,603	3.2	527
1357	7073001	WEST LIBERTY CITY OF STP	May	SP	0.59	15.8	2,403	3.2	487
1358	7073001	WEST LIBERTY CITY OF STP	Jun	SU	1.02	13.3	3,396	2.6	664
1359	7073001	WEST LIBERTY CITY OF STP	Jul	SU	1.07	13.3	3,668	2.6	717
1360	7073001	WEST LIBERTY CITY OF STP	Aug	SU	1.03	13.3	3,554	2.6	695
1361	7073001	WEST LIBERTY CITY OF STP	Sep	FA	1.19	13.3	3,956	2.6	773
1362	7073001	WEST LIBERTY CITY OF STP	Oct	FA	1.03	13.3	3,554	2.6	695
1363	7073001	WEST LIBERTY CITY OF STP	Nov	FA	1.03	13.3	3,440	2.6	672
1364	7073001	WEST LIBERTY CITY OF STP	Dec	WI	1.03	13.3	3,554	2.6	695
1365	7073001	WEST LIBERTY CITY OF STP	Annual				36,571		7,230
1366	6171001	WINTERSET CITY OF STP	Jan	WI	0.82	15.8	3,340	3.2	676
1367	6171001	WINTERSET CITY OF STP	Feb	WI	1.03	13.3	3,198	2.6	625
1368	6171001	WINTERSET CITY OF STP	Mar	SP	0.88	15.8	3,581	3.2	725
1369	6171001	WINTERSET CITY OF STP	Apr	SP	1.35	13.3	4,482	2.6	876
1370	6171001	WINTERSET CITY OF STP	May	SP	0.69	15.8	2,833	3.2	574
1371	6171001	WINTERSET CITY OF STP	Jun	SU	0.41	15.8	1,634	3.2	331
1372	6171001	WINTERSET CITY OF STP	Jul	SU	0.32	15.8	1,296	3.2	262
1373	6171001	WINTERSET CITY OF STP	Aug	SU	0.70	15.8	2,865	3.2	580
1374	6171001	WINTERSET CITY OF STP	Sep	FA	2.06	13.3	6,853	2.6	1,340
1375	6171001	WINTERSET CITY OF STP	Oct	FA	0.85	15.8	3,466	3.2	702
1376	6171001	WINTERSET CITY OF STP	Nov	FA	1.69	13.3	5,614	2.6	1,097
1377	6171001	WINTERSET CITY OF STP	Dec	WI	2.18	13.3	7,484	2.6	1,463
1378	6171001	WINTERSET CITY OF STP	Annual				46,644		9,252
1379		TOTAL	Annual				20,622,402		2,759,974

Appendix B: 1992 Annual Baseline TN and TP Load Estimates for 32 Industrial Dischargers with Biological Treatment of Process Wastewater

Type 1 Estimates

Row	NPDES #	Discharger Name	Outfall	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
							LTA Conc (mg/L)	Baseline Load (lbs)	LTA Conc (mg/L)	Baseline Load (lbs)
1	3126107	JOHN DEERE DUBUQUE	011	Jan	WI	0.11	6.60	191	20.63	598
2	3126107	JOHN DEERE DUBUQUE	011	Feb	WI	0.12	6.60	182	20.63	569
3	3126107	JOHN DEERE DUBUQUE	011	Mar	SP	0.12	6.60	205	20.63	640
4	3126107	JOHN DEERE DUBUQUE	011	Apr	SP	0.11	6.60	174	20.63	542
5	3126107	JOHN DEERE DUBUQUE	011	May	SP	0.11	6.60	188	20.63	587
6	3126107	JOHN DEERE DUBUQUE	011	Jun	SU	0.11	6.60	189	20.63	589
7	3126107	JOHN DEERE DUBUQUE	011	Jul	SU	0.13	6.60	217	20.63	678
8	3126107	JOHN DEERE DUBUQUE	011	Aug	SU	0.16	6.60	270	20.63	843
9	3126107	JOHN DEERE DUBUQUE	011	Sep	FA	0.16	6.60	258	20.63	806
10	3126107	JOHN DEERE DUBUQUE	011	Oct	FA	0.12	6.60	198	20.63	619
11	3126107	JOHN DEERE DUBUQUE	011	Nov	FA	0.14	6.60	228	20.63	713
12	3126107	JOHN DEERE DUBUQUE	011	Dec	WI	0.13	6.60	226	20.63	704
13	3126107	JOHN DEERE DUBUQUE	011	Annual				2,526		7,887
14	2326112	EQUISTAR CHEMICALS, LP	001	Jan	WI	1.74	1.17	527	0.72	323
15	2326112	EQUISTAR CHEMICALS, LP	001	Feb	WI	1.74	1.17	476	0.72	292
16	2326112	EQUISTAR CHEMICALS, LP	001	Mar	SP	1.67	1.17	507	0.72	311
17	2326112	EQUISTAR CHEMICALS, LP	001	Apr	SP	1.67	1.17	490	0.72	301
18	2326112	EQUISTAR CHEMICALS, LP	001	May	SP	1.67	1.17	507	0.72	311
19	2326112	EQUISTAR CHEMICALS, LP	001	Jun	SU	1.77	1.17	520	0.72	319
20	2326112	EQUISTAR CHEMICALS, LP	001	Jul	SU	1.77	1.17	537	0.72	330
21	2326112	EQUISTAR CHEMICALS, LP	001	Aug	SU	1.77	1.17	537	0.72	330
22	2326112	EQUISTAR CHEMICALS, LP	001	Sep	FA	1.70	1.17	499	0.72	306
23	2326112	EQUISTAR CHEMICALS, LP	001	Oct	FA	1.70	1.17	516	0.72	317
24	2326112	EQUISTAR CHEMICALS, LP	001	Nov	FA	1.70	1.17	499	0.72	306
25	2326112	EQUISTAR CHEMICALS, LP	001	Dec	WI	1.74	1.17	527	0.72	323
26	2326112	EQUISTAR CHEMICALS, LP	001	Annual				6,142		3,768
27	5640101	ROQUETTE AMERICA, INC.	012	Jan	WI	2.05	3.09	1,642	2.77	1,471
28	5640101	ROQUETTE AMERICA, INC.	012	Feb	WI	2.85	3.09	2,062	2.77	1,847
29	5640101	ROQUETTE AMERICA, INC.	012	Mar	SP	2.65	3.09	2,117	2.77	1,896
30	5640101	ROQUETTE AMERICA, INC.	012	Apr	SP	2.65	3.09	2,053	2.77	1,839
31	5640101	ROQUETTE AMERICA, INC.	012	May	SP	2.24	3.09	1,789	2.77	1,602
32	5640101	ROQUETTE AMERICA, INC.	012	Jun	SU	2.60	3.09	2,012	2.77	1,803
33	5640101	ROQUETTE AMERICA, INC.	012	Jul	SU	2.44	3.09	1,951	2.77	1,747
34	5640101	ROQUETTE AMERICA, INC.	012	Aug	SU	2.34	3.09	1,874	2.77	1,678
35	5640101	ROQUETTE AMERICA, INC.	012	Sep	FA	2.39	3.09	1,850	2.77	1,657
36	5640101	ROQUETTE AMERICA, INC.	012	Oct	FA	2.63	3.09	2,107	2.77	1,887
37	5640101	ROQUETTE AMERICA, INC.	012	Nov	FA	2.54	3.09	1,966	2.77	1,761
38	5640101	ROQUETTE AMERICA, INC.	012	Dec	WI	2.37	3.09	1,899	2.77	1,701
39	5640101	ROQUETTE AMERICA, INC.	012	Annual				23,321		20,890
40	4802102	WHIRLPOOL CORP - AMANA	002	Jan	WI	0.07	44.05	764	5.37	93
41	4802102	WHIRLPOOL CORP - AMANA	002	Feb	WI	0.07	44.05	751	5.37	92
42	4802102	WHIRLPOOL CORP - AMANA	002	Mar	SP	0.07	44.05	809	5.37	99
43	4802102	WHIRLPOOL CORP - AMANA	002	Apr	SP	0.08	44.05	860	5.37	105
44	4802102	WHIRLPOOL CORP - AMANA	002	May	SP	0.07	44.05	752	5.37	92
45	4802102	WHIRLPOOL CORP - AMANA	002	Jun	SU	0.07	44.05	761	5.37	93
46	4802102	WHIRLPOOL CORP - AMANA	002	Jul	SU	0.08	44.05	923	5.37	112
47	4802102	WHIRLPOOL CORP - AMANA	002	Aug	SU	0.07	44.05	764	5.37	93
48	4802102	WHIRLPOOL CORP - AMANA	002	Sep	FA	0.07	44.05	761	5.37	93
49	4802102	WHIRLPOOL CORP - AMANA	002	Oct	FA	0.06	44.05	718	5.37	87
50	4802102	WHIRLPOOL CORP - AMANA	002	Nov	FA	0.09	44.05	960	5.37	117
51	4802102	WHIRLPOOL CORP - AMANA	002	Dec	WI	0.09	44.05	980	5.37	119
52	4802102	WHIRLPOOL CORP - AMANA	002	Annual				9,803		1,194
53	4802102	WHIRLPOOL CORP - AMANA	003	Jan	WI	0.05	67.12	851	11.38	144
54	4802102	WHIRLPOOL CORP - AMANA	003	Feb	WI	0.04	67.12	659	11.38	112
55	4802102	WHIRLPOOL CORP - AMANA	003	Mar	SP	0.04	67.12	764	11.38	130
56	4802102	WHIRLPOOL CORP - AMANA	003	Apr	SP	0.05	67.12	891	11.38	151
57	4802102	WHIRLPOOL CORP - AMANA	003	May	SP	0.06	67.12	1,059	11.38	180
58	4802102	WHIRLPOOL CORP - AMANA	003	Jun	SU	0.07	67.12	1,092	11.38	185

Row	NPDES #	Discharger Name	Outfall	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
							LTA Conc (mg/L)	Baseline Load (lbs)	LTA Conc (mg/L)	Baseline Load (lbs)
59	4802102	WHIRLPOOL CORP - AMANA	003	Jul	SU	0.07	67.12	1,129	11.38	191
60	4802102	WHIRLPOOL CORP - AMANA	003	Aug	SU	0.05	67.12	851	11.38	144
61	4802102	WHIRLPOOL CORP - AMANA	003	Sep	FA	0.06	67.12	1,059	11.38	180
62	4802102	WHIRLPOOL CORP - AMANA	003	Oct	FA	0.05	67.12	799	11.38	135
63	4802102	WHIRLPOOL CORP - AMANA	003	Nov	FA	0.06	67.12	1,075	11.38	182
64	4802102	WHIRLPOOL CORP - AMANA	003	Dec	WI	0.06	67.12	972	11.38	165
65	4802102	WHIRLPOOL CORP - AMANA	003	Annual				11,201		1,900
66	8670101	IOWA PREMIUM BEEF	001	Jan	WI	0.88	17.30	3,921	7.70	1,745
67	8670101	IOWA PREMIUM BEEF	001	Feb	WI	0.88	17.30	3,541	7.70	1,576
68	8670101	IOWA PREMIUM BEEF	001	Mar	SP	0.86	17.30	3,867	7.70	1,721
69	8670101	IOWA PREMIUM BEEF	001	Apr	SP	0.86	17.30	3,742	7.70	1,666
70	8670101	IOWA PREMIUM BEEF	001	May	SP	0.86	17.30	3,867	7.70	1,721
71	8670101	IOWA PREMIUM BEEF	001	Jun	SU	0.90	17.30	3,898	7.70	1,735
72	8670101	IOWA PREMIUM BEEF	001	Jul	SU	0.90	17.30	4,028	7.70	1,793
73	8670101	IOWA PREMIUM BEEF	001	Aug	SU	0.90	17.30	4,028	7.70	1,793
74	8670101	IOWA PREMIUM BEEF	001	Sep	FA	0.86	17.30	3,742	7.70	1,666
75	8670101	IOWA PREMIUM BEEF	001	Oct	FA	0.86	17.30	3,867	7.70	1,721
76	8670101	IOWA PREMIUM BEEF	001	Nov	FA	0.86	17.30	3,742	7.70	1,666
77	8670101	IOWA PREMIUM BEEF	001	Dec	WI	0.88	17.30	3,921	7.70	1,745
78	8670101	IOWA PREMIUM BEEF	001	Annual				46,164		20,547
79	3300100	ASSOCIATED MILK PRODUCERS	001	Jan	WI	0.09	4.00	88	3.40	75
80	3300100	ASSOCIATED MILK PRODUCERS	001	Feb	WI	0.09	4.00	80	3.40	68
81	3300100	ASSOCIATED MILK PRODUCERS	001	Mar	SP	0.09	4.00	97	3.40	83
82	3300100	ASSOCIATED MILK PRODUCERS	001	Apr	SP	0.09	4.00	94	3.40	80
83	3300100	ASSOCIATED MILK PRODUCERS	001	May	SP	0.09	4.00	97	3.40	83
84	3300100	ASSOCIATED MILK PRODUCERS	001	Jun	SU	0.18	4.00	181	3.40	154
85	3300100	ASSOCIATED MILK PRODUCERS	001	Jul	SU	0.18	4.00	187	3.40	159
86	3300100	ASSOCIATED MILK PRODUCERS	001	Aug	SU	0.18	4.00	187	3.40	159
87	3300100	ASSOCIATED MILK PRODUCERS	001	Sep	FA	0.06	4.00	57	3.40	49
88	3300100	ASSOCIATED MILK PRODUCERS	001	Oct	FA	0.06	4.00	59	3.40	50
89	3300100	ASSOCIATED MILK PRODUCERS	001	Nov	FA	0.06	4.00	57	3.40	49
90	3300100	ASSOCIATED MILK PRODUCERS	001	Dec	WI	0.09	4.00	88	3.40	75
91	3300100	ASSOCIATED MILK PRODUCERS	001	Annual				1,275		1,083
92	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Jan	WI	0.19	13.10	649	1.00	50
93	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Feb	WI	0.17	13.10	505	1.00	39
94	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Mar	SP	0.18	13.10	600	1.00	46
95	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Apr	SP	0.26	13.10	836	1.00	64
96	8670100	CARAUSTAR-TAMA PAPERBOARD	001	May	SP	0.22	13.10	746	1.00	57
97	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Jun	SU	0.21	13.10	672	1.00	51
98	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Jul	SU	0.43	13.10	1,444	1.00	110
99	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Aug	SU	0.23	13.10	783	1.00	60
100	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Sep	FA	0.26	13.10	866	1.00	66
101	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Oct	FA	0.24	13.10	808	1.00	62
102	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Nov	FA	0.20	13.10	666	1.00	51
103	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Dec	WI	0.22	13.10	760	1.00	58
104	8670100	CARAUSTAR-TAMA PAPERBOARD	001	Annual				9,334		713
105	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Jan	WI	0.88	34.90	7,927	8.40	1,908
106	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Feb	WI	0.80	34.90	6,524	8.40	1,570
107	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Mar	SP	0.90	34.90	8,117	8.40	1,954
108	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Apr	SP	1.00	34.90	8,772	8.40	2,111
109	2500100	TYSON FRESH MEATS, INC. - PERRY	001	May	SP	0.85	34.90	7,711	8.40	1,856
110	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Jun	SU	0.86	34.90	7,506	8.40	1,806
111	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Jul	SU	0.94	34.90	8,478	8.40	2,041
112	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Aug	SU	0.96	34.90	8,632	8.40	2,077
113	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Sep	FA	0.95	34.90	8,309	8.40	2,000
114	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Oct	FA	0.99	34.90	8,975	8.40	2,160
115	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Nov	FA	1.06	34.90	9,218	8.40	2,219
116	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Dec	WI	0.93	34.90	8,352	8.40	2,010
117	2500100	TYSON FRESH MEATS, INC. - PERRY	001	Annual				98,520		23,713
118	5200104	TWIN COUNTY DAIRY, INC.	001	Jan	WI	0.06	8.74	138	19.47	307
119	5200104	TWIN COUNTY DAIRY, INC.	001	Feb	WI	0.06	8.74	125	19.47	277
120	5200104	TWIN COUNTY DAIRY, INC.	001	Mar	SP	0.07	8.74	158	19.47	353
121	5200104	TWIN COUNTY DAIRY, INC.	001	Apr	SP	0.07	8.74	153	19.47	341

Row	NPDES #	Discharger Name	Outfall	Month	Season	1992 Flow (MGD)	Total Nitrogen		Total Phosphorus	
							LTA Conc (mg/L)	Baseline Load (lbs)	LTA Conc (mg/L)	Baseline Load (lbs)
122	5200104	TWIN COUNTY DAIRY, INC.	001	May	SP	0.07	8.74	158	19.47	353
123	5200104	TWIN COUNTY DAIRY, INC.	001	Jun	SU	0.06	8.74	129	19.47	288
124	5200104	TWIN COUNTY DAIRY, INC.	001	Jul	SU	0.06	8.74	133	19.47	297
125	5200104	TWIN COUNTY DAIRY, INC.	001	Aug	SU	0.06	8.74	133	19.47	297
126	5200104	TWIN COUNTY DAIRY, INC.	001	Sep	FA	0.06	8.74	123	19.47	273
127	5200104	TWIN COUNTY DAIRY, INC.	001	Oct	FA	0.06	8.74	127	19.47	282
128	5200104	TWIN COUNTY DAIRY, INC.	001	Nov	FA	0.06	8.74	123	19.47	273
129	5200104	TWIN COUNTY DAIRY, INC.	001	Dec	WI	0.06	8.74	138	19.47	307
130	5200104	TWIN COUNTY DAIRY, INC.	001	Annual				1,638		3,648
131	3405100	CAMBREX CHARLES CITY, INC.	002	Jan	WI	0.18	13.50	622	5.10	235
132	3405100	CAMBREX CHARLES CITY, INC.	002	Feb	WI	0.18	13.50	562	5.10	212
133	3405100	CAMBREX CHARLES CITY, INC.	002	Mar	SP	0.18	13.50	625	5.10	236
134	3405100	CAMBREX CHARLES CITY, INC.	002	Apr	SP	0.18	13.50	605	5.10	229
135	3405100	CAMBREX CHARLES CITY, INC.	002	May	SP	0.18	13.50	625	5.10	236
136	3405100	CAMBREX CHARLES CITY, INC.	002	Jun	SU	0.17	13.50	578	5.10	218
137	3405100	CAMBREX CHARLES CITY, INC.	002	Jul	SU	0.17	13.50	597	5.10	226
138	3405100	CAMBREX CHARLES CITY, INC.	002	Aug	SU	0.17	13.50	597	5.10	226
139	3405100	CAMBREX CHARLES CITY, INC.	002	Sep	FA	0.16	13.50	546	5.10	206
140	3405100	CAMBREX CHARLES CITY, INC.	002	Oct	FA	0.16	13.50	564	5.10	213
141	3405100	CAMBREX CHARLES CITY, INC.	002	Nov	FA	0.16	13.50	546	5.10	206
142	3405100	CAMBREX CHARLES CITY, INC.	002	Dec	WI	0.18	13.50	622	5.10	235
143	3405100	CAMBREX CHARLES CITY, INC.	002	Annual				7,088		2,678
144	2200100	SWISS VALLEY FARMS	001	Jan	WI	0.07	40.20	759	14.10	266
145	2200100	SWISS VALLEY FARMS	001	Feb	WI	0.30	40.20	2,799	14.10	982
146	2200100	SWISS VALLEY FARMS	001	Mar	SP	0.25	40.20	2,621	14.10	919
147	2200100	SWISS VALLEY FARMS	001	Apr	SP	0.26	40.20	2,566	14.10	900
148	2200100	SWISS VALLEY FARMS	001	May	SP	0.29	40.20	2,985	14.10	1,047
149	2200100	SWISS VALLEY FARMS	001	Jun	SU	0.31	40.20	3,130	14.10	1,098
150	2200100	SWISS VALLEY FARMS	001	Jul	SU	0.31	40.20	3,245	14.10	1,138
151	2200100	SWISS VALLEY FARMS	001	Aug	SU	0.28	40.20	2,881	14.10	1,010
152	2200100	SWISS VALLEY FARMS	001	Sep	FA	0.30	40.20	3,009	14.10	1,055
153	2200100	SWISS VALLEY FARMS	001	Oct	FA	0.30	40.20	3,089	14.10	1,083
154	2200100	SWISS VALLEY FARMS	001	Nov	FA	0.30	40.20	3,060	14.10	1,073
155	2200100	SWISS VALLEY FARMS	001	Dec	WI	0.34	40.20	3,578	14.10	1,255
156	2200100	SWISS VALLEY FARMS	001	Annual				33,721		11,828
157	3621100	MANILDRA MILLING CORP	001	Jan	WI	0.06	8.70	128	1.00	15
158	3621100	MANILDRA MILLING CORP	001	Feb	WI	0.06	8.70	118	1.00	14
159	3621100	MANILDRA MILLING CORP	001	Mar	SP	0.06	8.70	131	1.00	15
160	3621100	MANILDRA MILLING CORP	001	Apr	SP	0.06	8.70	129	1.00	15
161	3621100	MANILDRA MILLING CORP	001	May	SP	0.06	8.70	140	1.00	16
162	3621100	MANILDRA MILLING CORP	001	Jun	SU	0.06	8.70	139	1.00	16
163	3621100	MANILDRA MILLING CORP	001	Jul	SU	0.07	8.70	149	1.00	17
164	3621100	MANILDRA MILLING CORP	001	Aug	SU	0.06	8.70	144	1.00	17
165	3621100	MANILDRA MILLING CORP	001	Sep	FA	0.07	8.70	142	1.00	16
166	3621100	MANILDRA MILLING CORP	001	Oct	FA	0.07	8.70	149	1.00	17
167	3621100	MANILDRA MILLING CORP	001	Nov	FA	0.07	8.70	148	1.00	17
168	3621100	MANILDRA MILLING CORP	001	Dec	WI	0.07	8.70	155	1.00	18
169	3621100	MANILDRA MILLING CORP	001	Annual				1,670		192
170	6800100	CARGILL, INC.	001	Jan	WI	4.05	48.04	50,332	25.61	26,831
171	6800100	CARGILL, INC.	001	Feb	WI	4.56	48.04	51,186	25.61	27,286
172	6800100	CARGILL, INC.	001	Mar	SP	4.81	48.04	59,778	25.61	31,865
173	6800100	CARGILL, INC.	001	Apr	SP	5.23	48.04	62,900	25.61	33,530
174	6800100	CARGILL, INC.	001	May	SP	5.11	48.04	63,506	25.61	33,853
175	6800100	CARGILL, INC.	001	Jun	SU	5.04	48.04	60,615	25.61	32,312
176	6800100	CARGILL, INC.	001	Jul	SU	4.73	48.04	58,783	25.61	31,335
177	6800100	CARGILL, INC.	001	Aug	SU	4.09	48.04	50,830	25.61	27,096
178	6800100	CARGILL, INC.	001	Sep	FA	4.72	48.04	56,767	25.61	30,260
179	6800100	CARGILL, INC.	001	Oct	FA	4.99	48.04	62,015	25.61	33,058
180	6800100	CARGILL, INC.	001	Nov	FA	4.45	48.04	53,520	25.61	28,529
181	6800100	CARGILL, INC.	001	Dec	WI	4.67	48.04	58,038	25.61	30,938
182	6800100	CARGILL, INC.	001	Annual				688,269		366,893
183		SUBTOTAL		Annual				940,671		466,933

Type 2 Estimates

Row	NPDES #	Discharger Name	Outfall	Month	#Days/ Yr	Total Nitrogen		Total Phosphorus	
						LTA Load (lbs)	Baseline Load (lbs)	LTA Load (lbs)	Baseline Load (lbs)
1	7000102	MONSANTO COMPANY	002	Annual	365	377	137,457	163	59,640
2	5800100	TYSON - COLUMBUS JUNCTION	801	Annual	365	1,143	417,249	192	70,183
3	7048101	GRAIN PROCESSING CORPORATION	006	Annual	365	68	24,995	88	32,008
4	2326101	ARCHER DANIELS MIDLAND CORN PROCESSING	005	Annual	365	438	159,732	685	249,948
5	9700101	GELITA USA, INC.	003	Annual	365	174	63,534	12	4,227
6	9083101	JBS PORK	001	Annual	365	943	344,082	400	145,837
7	1178105	TYSON FRESH MEATS, INC. - STORM LAKE	002	Annual	365	855	311,961	306	111,707
8	6800113	AJINOMOTO HEARTLAND LLC	003	Annual	365	124	45,225	555	202,444
9	8748102	MICHAEL FOODS, INC.	001	Annual	365	28	10,135	26	9,607
10		SUBTOTAL		Annual			1,514,370		885,601

Type 3 Estimate

Row	NPDES #	Discharger Name	Outfall	Month	#Days/Yr	LTA Flow (MGD)	Total Nitrogen		Total Phosphorus	
							LTA Conc (mg/L)	Baseline Load (lbs)	LTA Conc (mg/L)	Baseline Load (lbs)
1	5600105	PINNACLE FOODS GROUP LLC	002	Annual	365	0.58	15.43	27,213	5.29	9,334
2		SUBTOTAL		Annual				27,213		9,334

Type 4 Estimate

Row	NPDES #	Discharger Name	Outfall	Month	#Days/ Yr	LTA Flow (MGD)	Total Nitrogen		Total Phosphorus	
							From INRS (mg/L)	Baseline Load (lbs)	From INRS (mg/L)	Baseline Load (lbs)
1	2500103	NORTHERN NATURAL GAS - REDFIELD	001 & 002	Annual	365	1.34	10.00	40,764	1.00	4,076
2		SUBTOTAL		Annual				40,764		4,076

Type 5 Estimates

Row	NPDES #	Discharger Name	Outfall	TN Baseline Load (lbs)	TP Baseline Load (lbs)
1	0375102	AGRI STAR MEAT AND POULTRY LLC	001	0	0
2	3900103	GUTHRIE CENTER EGG FARM	001	0	0
3	4500802	LIME SPRINGS BEEF, LLC	001	0	0
4	5600118	IOWA FERTILIZER COMPANY	001	0	0
5	7856100	OAKLAND FOODS, L.L.C.	001	0	0
6	8400120	AGROPUR INC.	001	0	0
7	9300104	DAIRICONCEPTS	001	0	0
8	9500102	REMBRANDT ENTERPRISES, INC. - THOMPSON	001	0	0
9		SUBTOTAL		0	0