



**ILLINOIS**  
NUTRIENT LOSS  
REDUCTION STRATEGY

# Biennial Report 2023

## APPENDIX G: COMPANION DATA



**Illinois Extension**  
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN



## Chapter 4: Agricultural Sector

**Companion data to Figure 4.2. Acres enrolled in CRP wetlands and buffers**

|              | 2011    | 2015    | 2016    | 2017    | 2018    | 2019    | 2020    | 2021    | 2022    |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| CRP wetlands | 57,463  | 45,790  | 27,616  | 43,826  | 55,716  | 55,794  | 57,867  | 62,609  | 62,861  |
| CRP buffers  | 145,813 | 279,534 | 197,442 | 270,002 | 265,753 | 257,485 | 250,784 | 238,009 | 230,159 |

**Companion data to Figure 4.3. Acres in perennials / energy / pasture**

|  | 2011    | 2015      | 2016      | 2017      | 2018      | 2019      | 2020      | 2021      | 2022      |
|--|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| All Perennials / Energy / Pasture          | 985,531 | 1,524,379 | 1,386,378 | 1,547,612 | 1,086,474 | 1,609,325 | 1,605,154 | 1,576,736 | 1,562,275 |
| CRP-enrolled Perennials / Energy / Pasture | 212,346 | 533,291   | 547,899   | 558,726   | 515,455   | 504,957   | 523,645   | 521,028   | 524,013   |

**Companion data to Figure 4.4. Acres in cover crops reported by producers to FSA**

|             | 2011 | 2015   | 2016   | 2017   | 2018   | 2019    | 2020    | 2021    | 2022    |
|-------------|------|--------|--------|--------|--------|---------|---------|---------|---------|
| Cover crops | 768  | 11,064 | 27,064 | 83,980 | 92,970 | 427,985 | 131,757 | 607,151 | 520,292 |

**Companion data to Figure 4.5. Total acres enrolled in EQIP**

|      | Acres Per Year | Subtracting the Contract Expiration | Cumulative Acres |
|------|----------------|-------------------------------------|------------------|
| 2013 | 91,095         | 91,095                              | 91,095           |
| 2014 | 41,457         | 132,552                             | 132,552          |
| 2015 | 26,424         | 158,976                             | 158,976          |
| 2016 | 25,563         | 184,539                             | 184,539          |
| 2017 | 31,035         | 215,574                             | 215,574          |
| 2018 | 40,989         | 165,468                             | 256,563          |
| 2019 | 44,325         | 168,336                             | 300,888          |
| 2020 | 37,452         | 179,364                             | 338,340          |
| 2021 | 40,072         | 193,873                             | 378,412          |
| 2022 | 28,827         | 191,665                             | 407,239          |



**Companion data to Figure 4.6. Acres implemented and dollars spent on nutrient conservation practices through EQIP**

|                         | 2021 Acres | 2021 Dollars | 2022 Acres | 2022 Dollars | Biennial Sum (Acres) | Biennial Sum (Dollars) |
|-------------------------|------------|--------------|------------|--------------|----------------------|------------------------|
| Filter Strips (Buffers) | 4          | \$2,224      | 28         | \$9,849      | 32                   | \$12,073               |
| Nutrient Management     | 8,758      | \$182,938    | 9,191      | \$205,883    | 17,948               | \$388,821              |
| Conservation Tillage    | 7,636      | \$128,745    | 11,930     | \$205,478    | 19,566               | \$334,224              |
| Cover Crops             | 15,420     | \$800,251    | 15,876     | \$843,132    | 31,296               | \$1,643,383            |
| Perennials              | 1,182      | \$323,172    | 768        | \$210,723    | 1,950                | \$533,894              |
| Wetlands                | 0          | \$0          | 0          | \$0          | 0                    | \$0                    |
| Bioreactors             | 40         | \$13,744     | 40         | \$18,910     | 80                   | \$32,654               |
| Saturated Buffers       | 0          | \$0          | 0          | \$0          | 0                    | \$0                    |
| Terraces                | 1,906      | \$350,472    | 1,515      | \$261,247    | 3,421                | \$611,718              |
| WASCOBs                 | 12,290     | \$1,074,550  | 11,580     | \$1,085,762  | 23,870               | \$2,160,312            |

**Companion data to Figure 4.7. Cumulative acres enrolled in CSP, 2011–22**

**New Acres Enrolled in Conservation Stewardship Program**

|                                   | 2011    | 2012    | 2013    | 2014    | 2015      | 2016      | 2017      | 2018      | 2019      | 2020      | 2021      | 2022      |
|-----------------------------------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Acres Per Year (New + Renewed)    | 165,416 | 229,815 | 188,731 | 399,024 | 214,557   | 160,172   | 149,844   | 200,455   | 122,638   | 382,806   | 191,425   | 232,730   |
| Subtracting the Five-year Dropoff | 165,416 | 395,231 | 583,962 | 982,986 | 1,197,543 | 1,192,299 | 1,112,328 | 1,124,052 | 847,666   | 1,015,915 | 1,047,168 | 1,130,054 |
| Cumulative Acres                  | 165,416 | 395,231 | 583,962 | 982,986 | 1,197,543 | 1,357,715 | 1,507,559 | 1,708,014 | 1,830,652 | 2,213,458 | 2,404,883 | 2,637,613 |



**Companion data to Figure 4.8. Acres implemented and dollars spent on nutrient conservation practices through CSP**

|                         | 2021 Acres | 2021 Dollars | 2022 Acres | 2022 Dollars | Biennial Sum (Acres) | Biennial Sum (Dollars) |
|-------------------------|------------|--------------|------------|--------------|----------------------|------------------------|
| Filter Strips (buffers) | 10         | \$6,321      | 52         | \$19,142     | 62                   | \$25,464               |
| Nutrient Management     | 86,998     | \$1,054,275  | 247,787    | \$3,119,233  | 334,785              | \$4,173,507            |
| Conservation Tillage    | 33,777     | \$105,285    | 172,432    | \$603,102    | 206,209              | \$708,387              |
| Cover Crops             | 53,994     | \$460,640    | 131,503    | \$1,088,980  | 185,497              | \$1,549,620            |
| Perennials              | 797        | \$111,041    | 3,382      | \$666,641    | 4,179                | \$777,682              |
| Wetlands                | 0          | \$0          | 0          | \$0          | 0                    | \$0                    |
| Bioreactors             | 0          | \$0          | 0          | \$0          | 0                    | \$0                    |
| Saturated Buffers       | 0          | \$0          | 0          | \$0          | 0                    | \$0                    |

**Companion Data to Figure 4.9. New wetland acres enrolled in ACEP-WRE and ACEP-WRE/WREP**

|      | Acres Per Year Enrolled | Cumulative Acres |
|------|-------------------------|------------------|
| 2011 | 1,788                   | 1,788            |
| 2012 | 1,420                   | 3,208            |
| 2013 | 469                     | 3,677            |
| 2014 | 305                     | 3,982            |
| 2015 | 396                     | 4,378            |
| 2016 | 491                     | 4,869            |
| 2017 | 2,846                   | 7,715            |
| 2018 | 267                     | 7,982            |
| 2019 | 1,359                   | 9,341            |
| 2020 | 1,291                   | 10,632           |
| 2021 | 1,824                   | 12,456           |
| 2022 | 1,461                   | 13,917           |



**Companion data to Figure 4.12. Acres implemented and dollars spent on nutrient conservation practices through RCPP**

|                         | 2021 Acres | 2021 Dollars | 2022 Acres | 2022 Dollars | Biennial Sum (Acres) | Biennial Sum (Dollars) |
|-------------------------|------------|--------------|------------|--------------|----------------------|------------------------|
| Filter Strips (buffers) | 0          | \$0          | 2          | \$679        | 2                    | \$679                  |
| Nutrient Management     | 5,115      | \$48,332     | 21,850     | \$324,260    | 26,965               | \$372,592              |
| Conservation Tillage    | 4,875      | \$28,160     | 15,588     | \$56,417     | 20,463               | \$84,577               |
| Cover Crops             | 11,159     | \$244,793    | 28,429     | \$299,074    | 39,588               | \$543,867              |
| Perennials              | 236        | \$5,644      | 164        | \$69,261     | 400                  | \$74,905               |
| Wetlands                | 0          | \$0          | 0          | \$0          | 0                    | \$0                    |
| Bioreactors             | 0          | \$0          | 40         | \$4,877      | 40                   | \$4,877                |
| Saturated Buffers       | 0          | \$0          | 0          | \$0          | 0                    | \$0                    |
| Terraces                | 0          | \$0          | 0          | \$0          | 0                    | \$0                    |
| WASCOBs                 | 550        | \$40,042     | 320        | \$23,638     | 870                  | \$63,680               |

**Companion data to Figure 4.21. Acres of Illinois CREP easements contributing to NLRS**

|                      | 2011 | 2012  | 2013  | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020   | 2021   | 2022   |
|----------------------|------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Wetland              | 20   | 651   | 3,681 | 11,976 | 17,406 | 19,467 | 19,523 | 19,523 | 19,523 | 19,528 | 19,760 | 19,852 |
| Buffer               | 526  | 1,324 | 2,720 | 5,467  | 8,768  | 13,568 | 13,764 | 13,850 | 13,855 | 13,855 | 15,467 | 15,672 |
| Perennial/<br>Energy | 0    | 7     | 84    | 1,622  | 2,107  | 4,395  | 4,670  | 4,718  | 4,726  | 4,726  | 5,666  | 5,679  |



**Companion data to Figure 4.22. Acres treated by and dollars spent on PFC in 2021 and 2022**

|                     | 2021 Acres | 2021 Cost-Share Dollars | 2021 Landowner Dollars | 2022 Acres | 2022 Cost Share Dollars | 2022 Landowner Dollars |
|---------------------|------------|-------------------------|------------------------|------------|-------------------------|------------------------|
| Bioreactors         | 0          | \$0                     | \$0                    | 30         | \$5,489                 | \$6,979                |
| Wetlands            | 0          | \$0                     | \$0                    | 0          | \$0                     | \$0                    |
| Filter Strips       | 0          | \$0                     | \$0                    | 0          | \$0                     | \$0                    |
| Tillage             | 1,663      | \$8,207                 | \$334                  | 4,470      | \$75,624                | \$59,043               |
| Perennials          | 194        | \$32,440                | \$27,376               | 205        | \$71,727                | \$65,247               |
| Cover Crops         | 17,207     | \$385,880               | \$343,879              | 20,887     | \$570,384               | \$449,855              |
| Nutrient Management | 0          | \$0                     | \$0                    | 93         | \$1,117                 | \$0                    |
| Terraces            | 260        | \$72,181                | \$64,151               | 837        | \$220,131               | \$250,267              |
| WASCOBs             | 4,427      | \$770,928               | \$578,037              | 3,206      | \$703,485               | \$520,362              |
| Saturated Buffers   | 0          | \$0                     | \$0                    | 0          | \$0                     | \$0                    |



**Companion data to Figure 4.23.** Calculated total nitrogen load reduction (lb/yr) from PFC in 2021 and 2022.

**Companion data to 4.24.** Calculated total phosphorus load reduction (lb/yr) from PFC in 2021 and 2022.

| Practice Codes |                      | Total Nitrogen Reduction (lb/yr) |        | Total Phosphorus Reduction (lb/yr) |       |
|----------------|----------------------|----------------------------------|--------|------------------------------------|-------|
|                |                      | 2021                             | 2022   | 2021                               | 2022  |
| 605            | Bioreactors          | 0                                | 0      | 0                                  | 0     |
| 656            | Wetlands             | 0                                | 0      | 0                                  | 0     |
| 393            | Filter Strips        | 0                                | 0      | 0                                  | 0     |
| 329, 345       | Conservation Tillage | 4,710                            | 13,548 | 2,347                              | 6,774 |
| 327, 342, 512  | Perennials           | 592                              | 2,040  | 298                                | 892   |
| 340            | Cover Crops          | 10,439                           | 13,583 | 5,295                              | 6,798 |
| 590            | Nutrient Management  | 0                                | 0      | n/a                                | n/a   |
| 600            | Terraces             | 709                              | 1,589  | 371                                | 800   |
| 638            | WASCOBs              | 7,179                            | 5,832  | 2,288                              | 2,927 |
| 604            | Saturated Buffers    | 0                                | 0      | 0                                  | 0     |

**Note:** Annual load reductions are based on the year the practices were implemented; reductions are achieved annually through the life of each practice.

**Companion data to Figure 4.25.** Acres treated by agricultural practices installed under the Section 319 grant program 2021-22

|      | Cover and Green Manure Crops | Filter Strips | Nutrient Management |
|------|------------------------------|---------------|---------------------|
| 2021 | 1,434                        | 3             | -                   |
| 2022 | 591                          | -             | 3,294               |

**Companion data to Figure 4.26.** Calculated total nitrogen and total phosphorus load reductions from Section 319 grant program agricultural practices 2021-22.

|      | N reduction (lbs/yr) | P reduction (lbs/yr) |
|------|----------------------|----------------------|
| 2021 | 8,807                | 972                  |
| 2022 | 3,685                | 460                  |

**Note:** Annual load reductions are based on the year the practices were implemented; reductions are achieved annually through the life of practice.



## Chapter 6: Urban Stormwater Sector

**Companion data to Figure 6.2** Types and numbers of urban practices installed under Section 319 grant program in 2021–22

| Urban Practice Type         | 2021     | 2022     |
|-----------------------------|----------|----------|
| Porous Pavement             | 2        | 1        |
| Rain Garden                 | 1        | 1        |
| Sediment Basin              | 3        | 0        |
| Structure for Water Control | 1        | 0        |
| Trees                       | 1        | 0        |
| Urban Filter Strip          | 1        | 2        |
| Woodland Management         | 0        | 1        |
| <b>Total</b>                | <b>9</b> | <b>5</b> |

**Companion data to Figure 6.3** Types and acreage of urban practices installed under Section 319 grant program in 2021–22

| Urban Practice Type         | 2021       | 2022         |
|-----------------------------|------------|--------------|
| Porous Pavement             | 0.2        | 0.1          |
| Rain Garden                 | 1          | 1            |
| Sediment Basin              | N/A        | N/A          |
| Structure for Water Control | N/A        | N/A          |
| Trees                       | N/A        | N/A          |
| Urban Filter Strip          | 1.7        | 4.6          |
| Woodland Management         | 0          | 165          |
| <b>Total</b>                | <b>2.9</b> | <b>170.7</b> |





**Companion data to Figure 6.4** Calculated total nitrogen and total phosphorus load reduction (lb/yr) from Section 319 grant program by urban practice type in 2021–22

| Urban Practice Type         | Total N reduction |              | Total P reduction |            |
|-----------------------------|-------------------|--------------|-------------------|------------|
|                             | 2021              | 2022         | 2021              | 2022       |
| Porous Pavement             | 271               | 1            | 134               | 0          |
| Rain Garden                 | 17                | 1            | 8                 | 1          |
| Sediment Basin              | 107               | 0            | 54                | 0          |
| Structure for Water Control | 144               | 0            | 72                | 0          |
| Trees                       | 0                 | 0            | 0                 | 0          |
| Urban Filter Strip          | 1                 | 2,848        | 1                 | 363        |
| Woodland Management         | 0                 | 802          | 0                 | 400        |
| <b>Total</b>                | <b>540</b>        | <b>3,652</b> | <b>269</b>        | <b>764</b> |



## Chapter 8: Adaptive Management and Measuring Progress

Companion data to Figure 8.9 Partners for Conservation cost-share funding since 2011 baseline

| Year                 | Total                |
|----------------------|----------------------|
| 2011                 | \$6,950,592          |
| 2012                 | \$1,947,891          |
| 2013                 | \$5,497,121          |
| 2014                 | \$5,962,478          |
| 2015                 | \$3,301,423          |
| 2016                 | \$0                  |
| 2017                 | \$4,969,999          |
| 2018                 | \$5,000,000          |
| 2019                 | \$7,500,000          |
| 2020                 | \$7,500,000          |
| 2021                 | \$7,500,000          |
| 2022                 | \$11,500,000         |
| <b>Total 2011-22</b> | <b>\$67,629,504</b>  |
| <b>Total 1965-22</b> | <b>\$302,669,094</b> |