

Appendix A – National Land Cover and Land Use Data for Each Project

Appendix A1. Land use/land cover acreage and percent of total by MidAmerican Project.

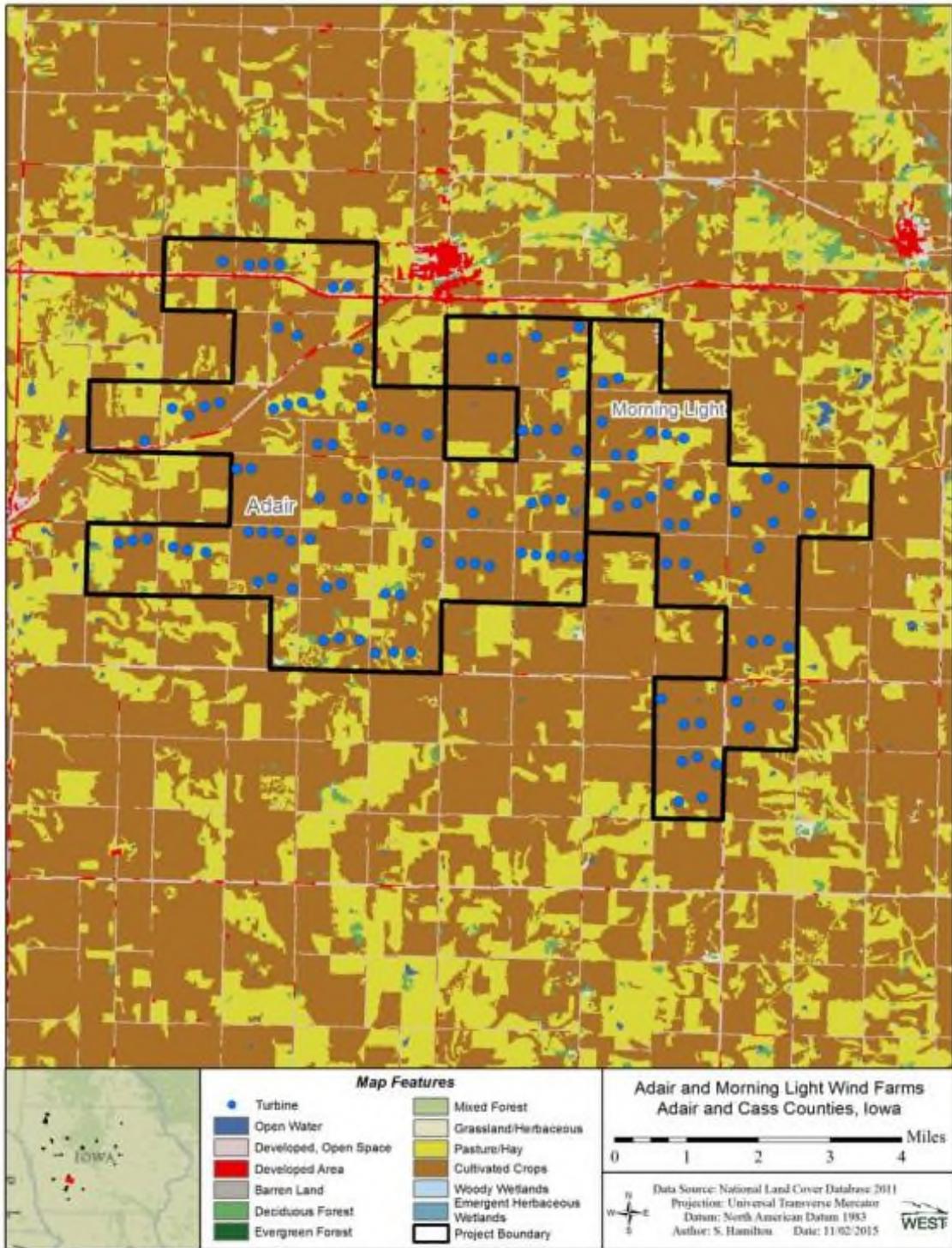
| Site | Deciduous Forest | Developed, High Intensity | Developed, Low Intensity | Developed, Medium Intensity | Developed, Open Space | Barren | Emergent Wetlands | Mixed Forest |
|---------------|------------------|---------------------------|--------------------------|-----------------------------|-----------------------|---------------|-------------------|----------------|
| Adair | 102.15 (0.59%) | 1.55 (0.01%) | 149.50 (0.86%) | 49.11 (0.28%) | 684.60 (3.95%) | | 6.45 (0.04%) | |
| Adams | 125.84 (0.95%) | | 172.03 (1.30%) | | 260.00 (1.97%) | | 1.63 (0.01%) | 1.07 (0.01%) |
| Carroll | 21.66 (0.13%) | 13.24 (0.08%) | 130.52 (0.80%) | 32.09 (0.20%) | 930.54 (5.73%) | 4.20 (0.03%) | 1.15 (0.01%) | |
| Century | 4.68 (0.03%) | | 19.09 (0.11%) | | 983.10 (5.51%) | 8.99 (0.05%) | 1.52 (0.01%) | |
| Charles City | 79.85 (0.68%) | 0.75 (0.01%) | 91.44 (0.78%) | 50.60 (0.43%) | 700.68 (6.01%) | | | |
| Eclipse | 106.01 (0.53%) | 6.17 (0.03%) | 62.90 (0.31%) | 13.80 (0.07%) | 689.31 (3.44%) | | | |
| Highland | 10.82 (0.02%) | 14.37 (0.02%) | 369.15 (0.63%) | 133.52 (0.23%) | 2,933.08 (5.01%) | | 135.72 (0.23%) | |
| Ida | 37.09 (0.06%) | 6.11 (0.01%) | 344.16 (0.52%) | 73.88 (0.11) | 3,111.32 (4.72%) | 6.25 (0.01%) | 116.72 (0.18%) | |
| Intrepid | 35.84 (0.13%) | 9.63 (0.03%) | 160.30 (0.58%) | 45.50 (0.16%) | 1,599.84 (5.77%) | 3.29 (0.01%) | 10.51 (0.04%) | |
| Laurel | 22.77 (0.22%) | 3.19 (0.03%) | 4.76 (0.05%) | | 515.20 (5.03%) | | 1.15 (0.01%) | |
| Lundgren | 30.68 (0.09%) | 2.79 (0.01%) | 173.43 (0.52%) | 27.29 (0.08%) | 1,934.65 (5.83%) | 7.74 (0.02%) | 9.91 (0.03%) | |
| Macksburg | 808.90 (5.63%) | | 117.86 (0.82%) | 0.63 (0.00%) | 461.59 (3.21%) | | 2.33 (0.02%) | |
| Morning Light | 8.24 (0.10%) | 3.23 (0.04%) | 24.75 (0.30%) | | 295.42 (3.61%) | 1.55 (0.02%) | | |
| O'Brien | 10.78 (0.02%) | 18.54 (0.03%) | 431.96 (0.71%) | 202.18 (0.33%) | 3,675.17 (6.03%) | 5.12 (0.01%) | 222.10 (0.36%) | 169.23 (0.28%) |
| Pomeroy | 19.47 (0.09%) | | 40.13 (0.19%) | 9.61 (0.05%) | 1,175.48 (5.55%) | | 11.78 (0.06%) | |
| Rolling Hills | 710.89 (1.60%) | | 479.37 (1.08%) | 3.59 (0.01%) | 1,258.97 (2.84%) | 10.47 (0.02%) | 6.98 (0.02%) | |
| Victory | 6.19 (0.03%) | | 54.43 (0.30%) | 10.53 (0.06%) | 854.65 (4.71%) | 1.15 (0.01%) | 2.29 (0.01%) | |
| Vienna | 13.48 (0.14%) | | 18.68 (0.20%) | 0.89 (0.01%) | 527.68 (5.53%) | | | |
| Vienna II | 5.22 (0.07%) | | 12.20 (0.18%) | | 401.46 (5.76%) | | 0.89 (0.01%) | |
| Walnut | 28.19 (0.14%) | 5.15 (0.03%) | 350.12 (1.72%) | 85.32 (0.42%) | 990.82 (4.85%) | | 4.89 (0.02%) | |
| Wellsburg | 29.12 (0.13%) | 1.90 (0.01%) | 89.16 (0.39%) | 11.93 (0.05%) | 1,402.34 (6.10%) | 9.26 (0.04%) | | |

Note: The Iowa State Fair turbine is covered by the HCP, but excluded from these analyses.

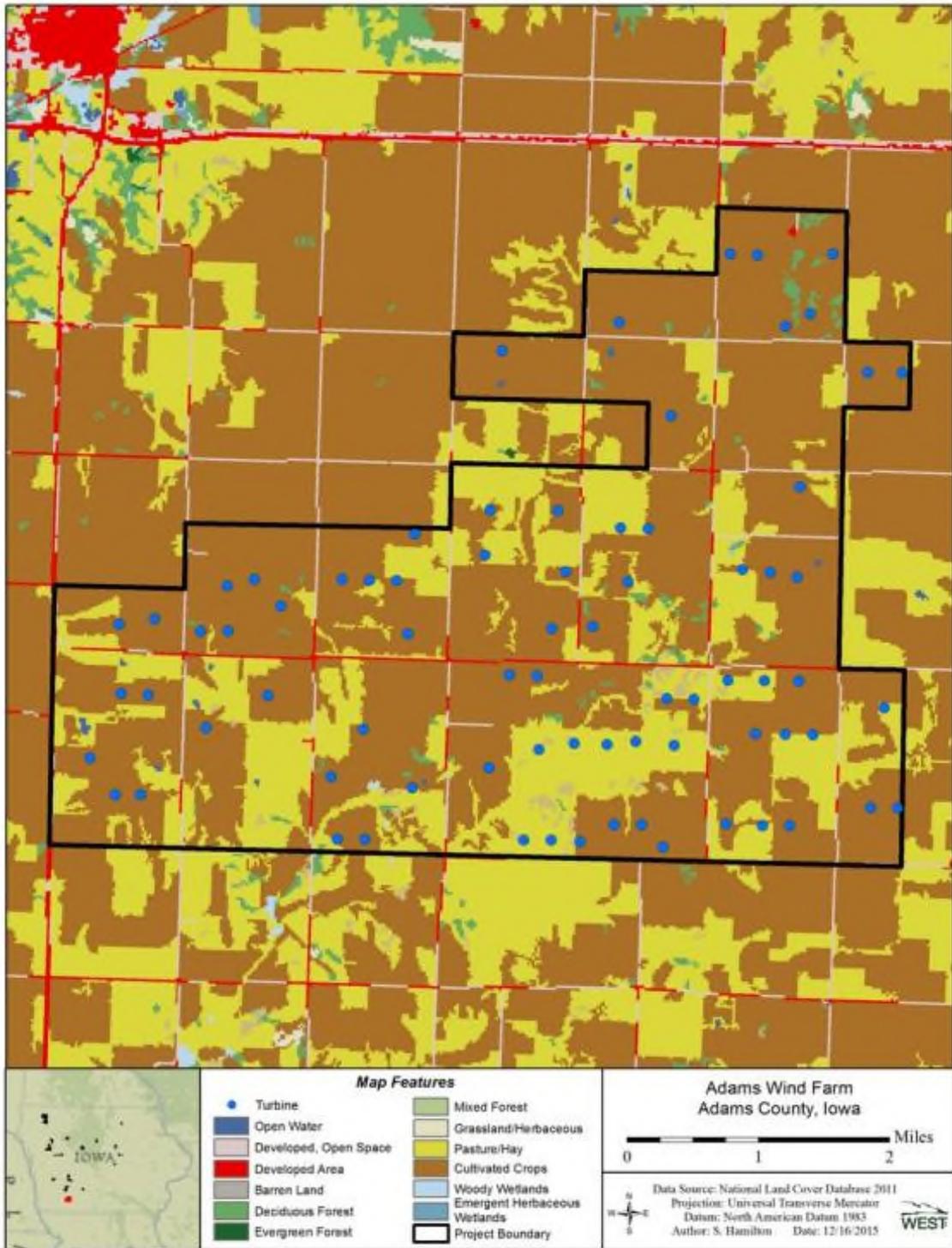
Appendix A1 (continued). Land use/land cover acreage and percent of total by MidAmerican Project.

| Site | Evergreen Forest | Grassland | Crops | Pasture/Hay | Shrub/Scrub | Open Water | Woody Wetlands | Total Acres |
|---------------|------------------|----------------|--------------------|--------------------|----------------|---------------|----------------|-------------|
| Adair | | 9.33 (0.05%) | 12,387.91 (71.39%) | 3,913.48 (22.55%) | 15.97 (0.09%) | 30.02 (0.17%) | 2.21 (0.01%) | 17,352.28 |
| Adams | | | 8,988.32 (68.10%) | 3,548.30 (26.88%) | 81.41 (0.62%) | 15.94 (0.12%) | 4.41 (0.03%) | 13,198.94 |
| Carroll | 4.97 (0.03%) | 148.10 (0.91%) | 14,228.40 (87.61%) | 725.88 (4.47%) | | 0.04 (0.00%) | | 16,240.78 |
| Century | | 104.67 (0.59%) | 16,695.69 (93.63%) | | | 11.64 (0.07%) | 1.64 (0.01%) | 17,831.02 |
| Charles City | 5.90 (0.05%) | 422.16 (3.62%) | 10,309.78 (88.38%) | | | 0.75 (0.01%) | 3.77 (0.03%) | 11,665.67 |
| Eclipse | | | 16,135.05 (80.49%) | 2,995.67 (14.94%) | 16.97 (0.08%) | 17.71 (0.09%) | 2.57 (0.01%) | 20,046.16 |
| Highland | 162.42 (0.28%) | 824.93 (1.41%) | 53,248.43 (90.94%) | 596.14 (1.02%) | 82.38 (0.14%) | 41.17 (0.07%) | 1.84 (0.00%) | 58,553.96 |
| Ida | 1.98 (<0.1%) | 895.11 (1.36%) | 56,000.81 (84.90%) | 5,303.69 (8.04%) | | 64.05 (0.10%) | 1.71 (<0.10%) | 65,962.89 |
| Intrepid | | 15.44 (0.06%) | 25,272.51 (91.12%) | 571.78 (2.06%) | | 10.26 (0.04%) | | 27,734.90 |
| Laurel | 4.47 (0.04%) | 461.87 (4.51%) | 8,460.25 (82.61%) | 756.19 (7.38%) | | 9.20 (0.09%) | 1.79 (0.02%) | 10,240.85 |
| Lundgren | | 251.19 (0.76%) | 30,585.64 (92.16%) | 157.68 (0.48%) | | | 7.75 (0.02%) | 33,188.75 |
| Macksburg | | 63.03 (0.44%) | 6,322.58 (44.01%) | 6,437.10 (44.80%) | 82.28 (0.57%) | 46.77 (0.33%) | 23.89 (0.17%) | 14,366.95 |
| Morning Light | | | 6,528.42 (79.85%) | 1,292.70 (15.81%) | 3.35 (0.04%) | 18.42 (0.23%) | | 81,76.07 |
| O'Brien | | 831.47 (1.36%) | 54,941.79 (90.13%) | 354.84 (0.58%) | 31.32 (0.05%) | 61.11 (0.10%) | | 60,955.61 |
| Pomeroy | | 106.05 (0.50%) | 19,668.22 (92.88%) | 120.46 (0.57%) | | | 23.77 (0.11%) | 21,174.98 |
| Rolling Hills | 32.83 (0.07%) | 61.58 (0.14%) | 23,821.86 (53.78%) | 17,662.74 (39.88%) | 126.17 (0.28%) | 93.66 (0.21%) | 16.15 (0.04%) | 44,293.78 |
| Victory | | 101.83 (0.56%) | 16,436.44 (90.66%) | 654.55 (3.61%) | | 7.14 (0.04%) | | 18,129.21 |
| Vienna | 2.39 (0.03%) | 54.10 (0.57%) | 8,807.52 (92.36%) | 105.39 (1.11%) | | 2.80 (0.03%) | 3.18 (0.03%) | 9,536.11 |
| Vienna II | 0.89 (0.01%) | 52.32 (0.75%) | 6,192.94 (88.85%) | 295.22 (4.24%) | | 8.91 (0.13%) | | 6,970.04 |
| Walnut | | 262.71 (1.29%) | 17,475.91 (85.63%) | 1,191.50 (5.84%) | | 9.01 (0.04%) | 5.59 (0.03%) | 20,409.22 |
| Wellsburg | 1.27 (0.01%) | 429.75 (1.87%) | 20,643.35 (89.84%) | 358.51 (1.56%) | | | 2.41 (0.01%) | 22,979.00 |

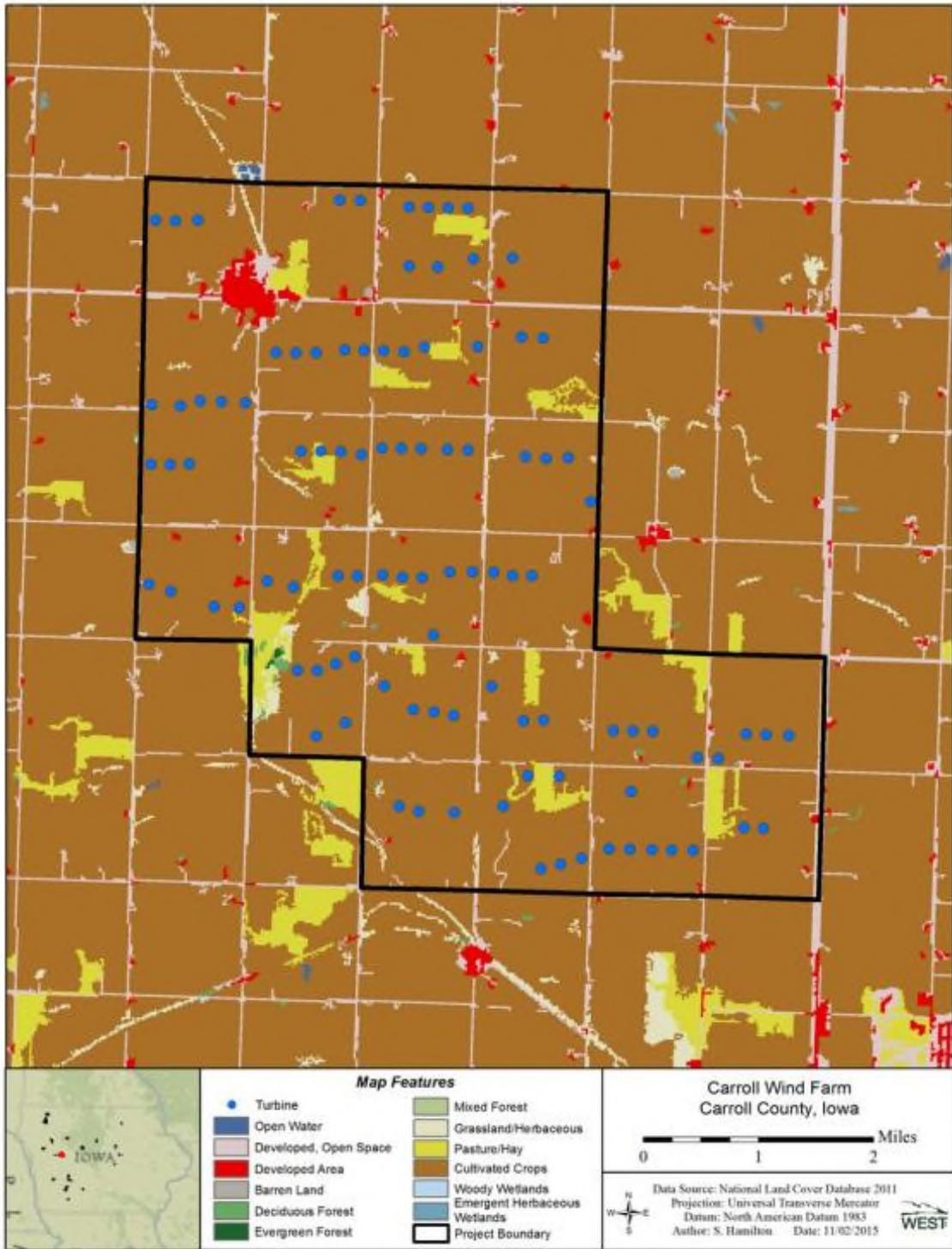
Note: The Iowa State Fair turbine is covered by the HCP, but excluded from these analyses.



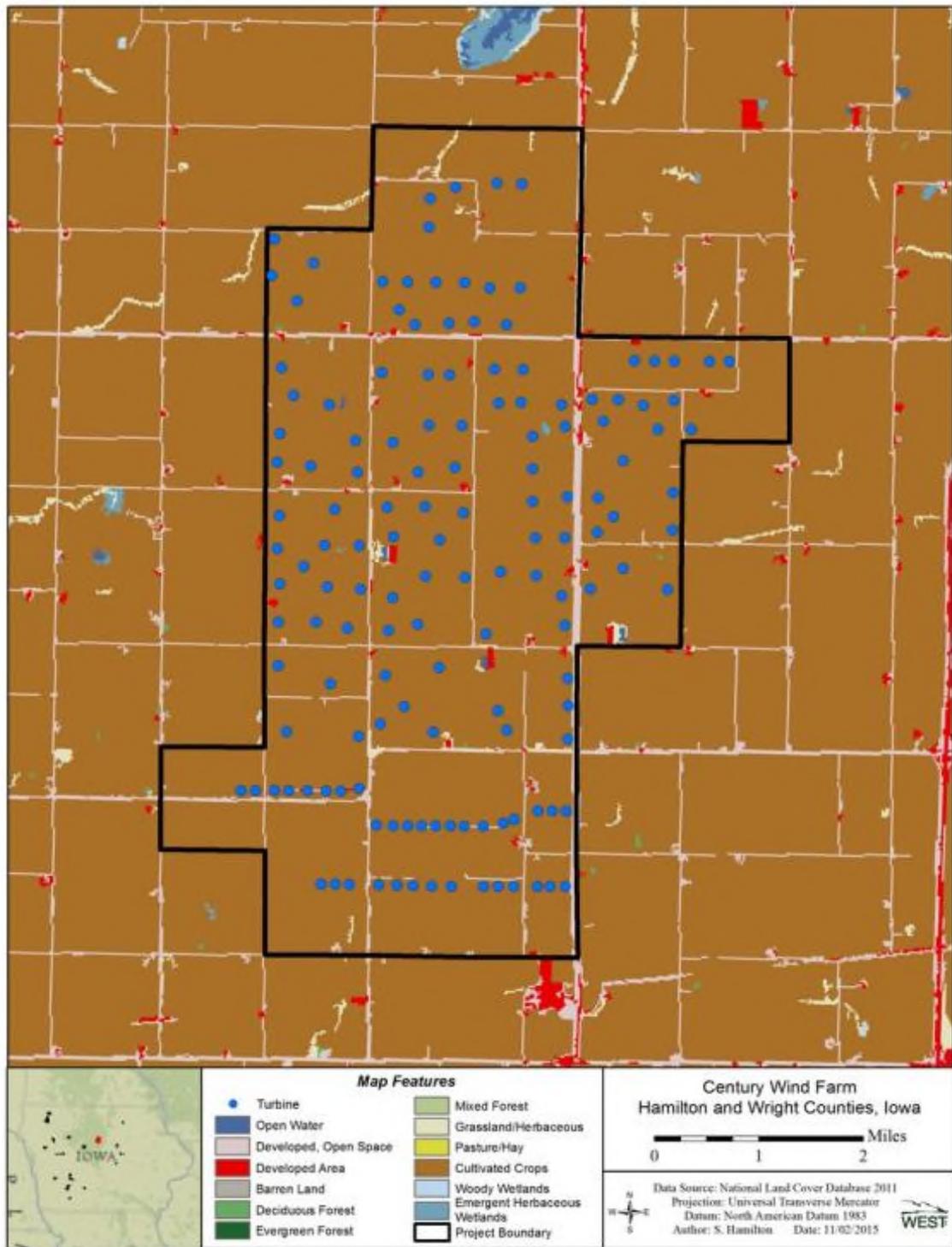
Appendix A2. Land use/land cover at the Adair and Morning Light Projects.



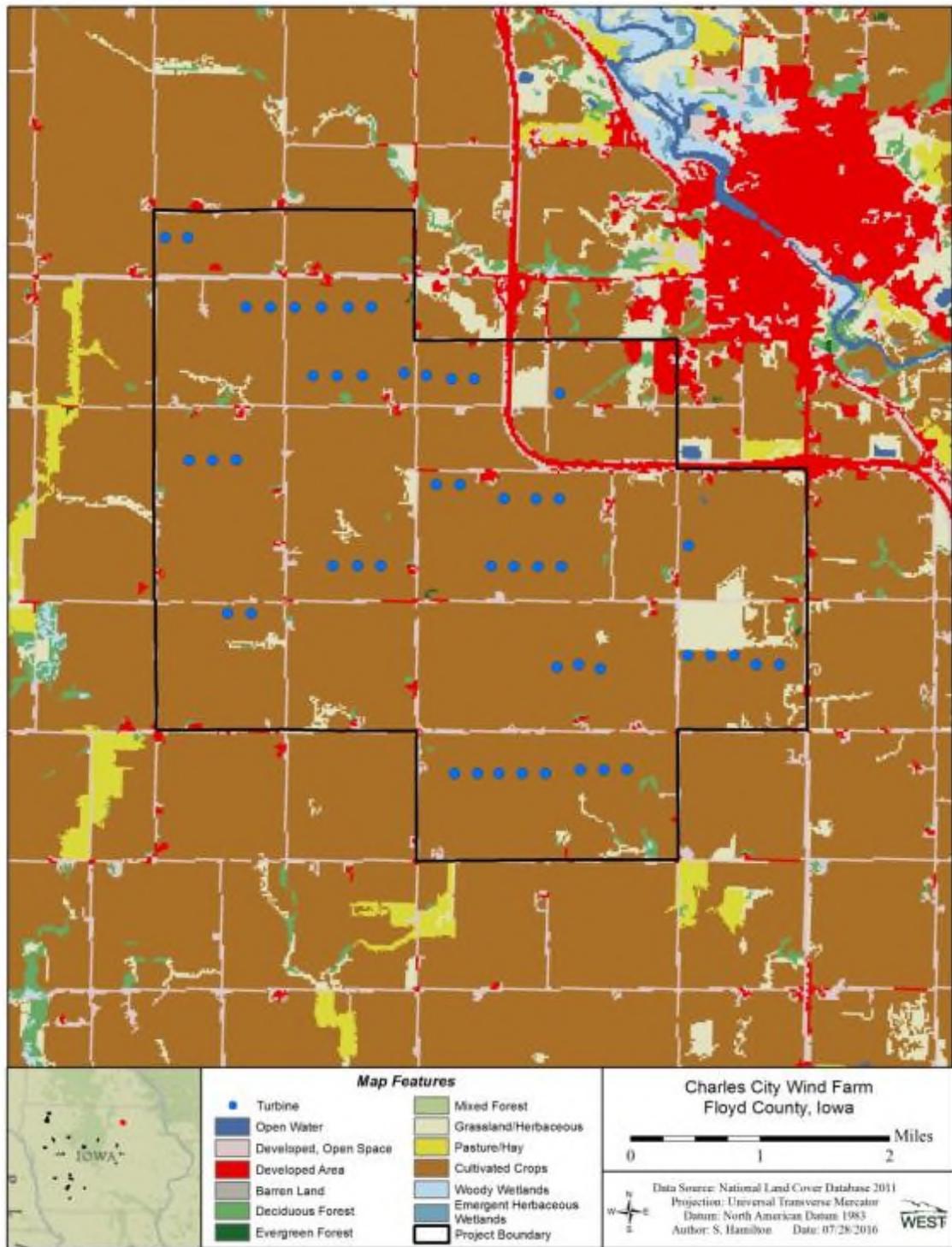
Appendix A3. Land use/land cover at the Adams Project.



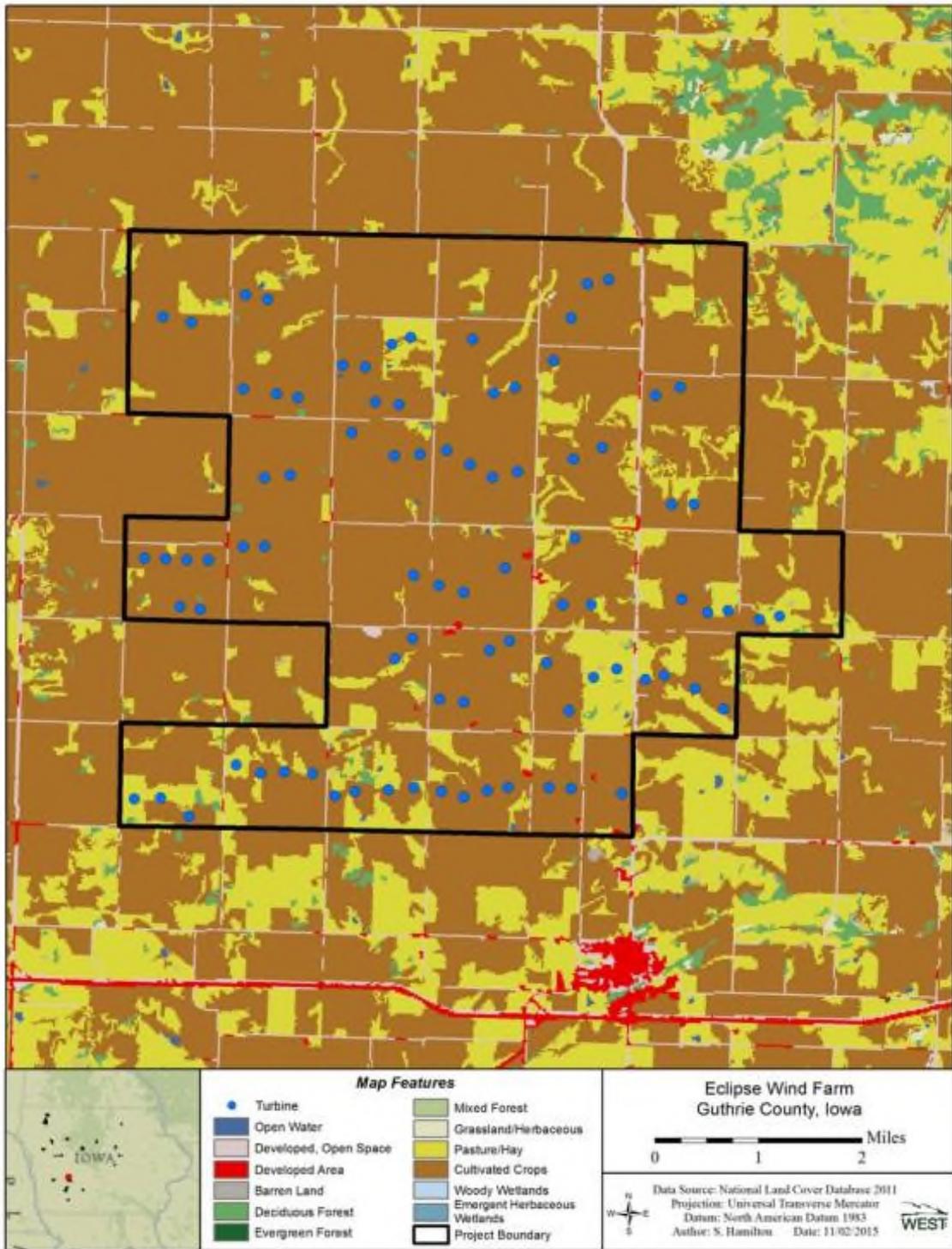
Appendix A4. Land use/land cover at the Carroll Project.



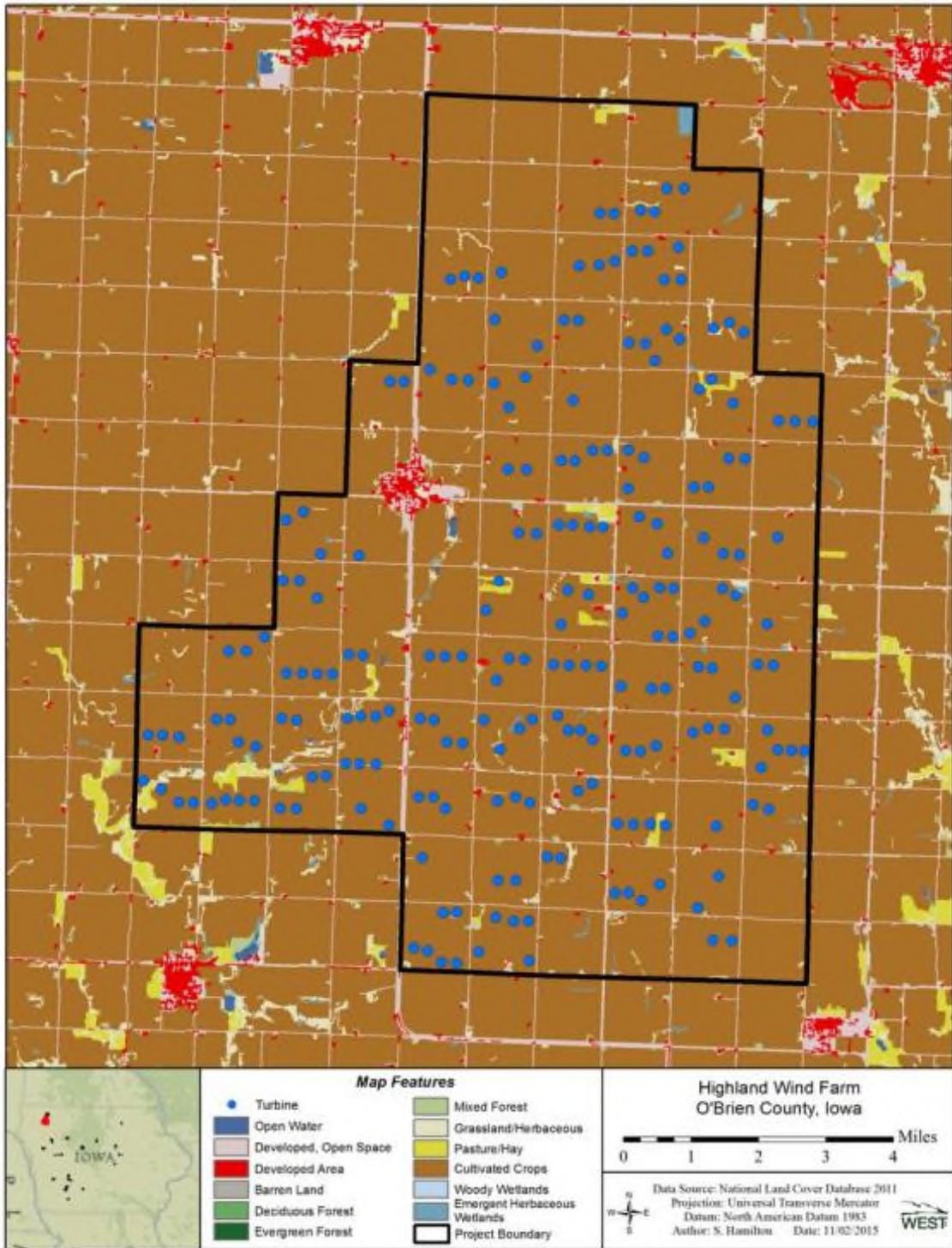
Appendix A5. Land use/land cover at the Century Project.



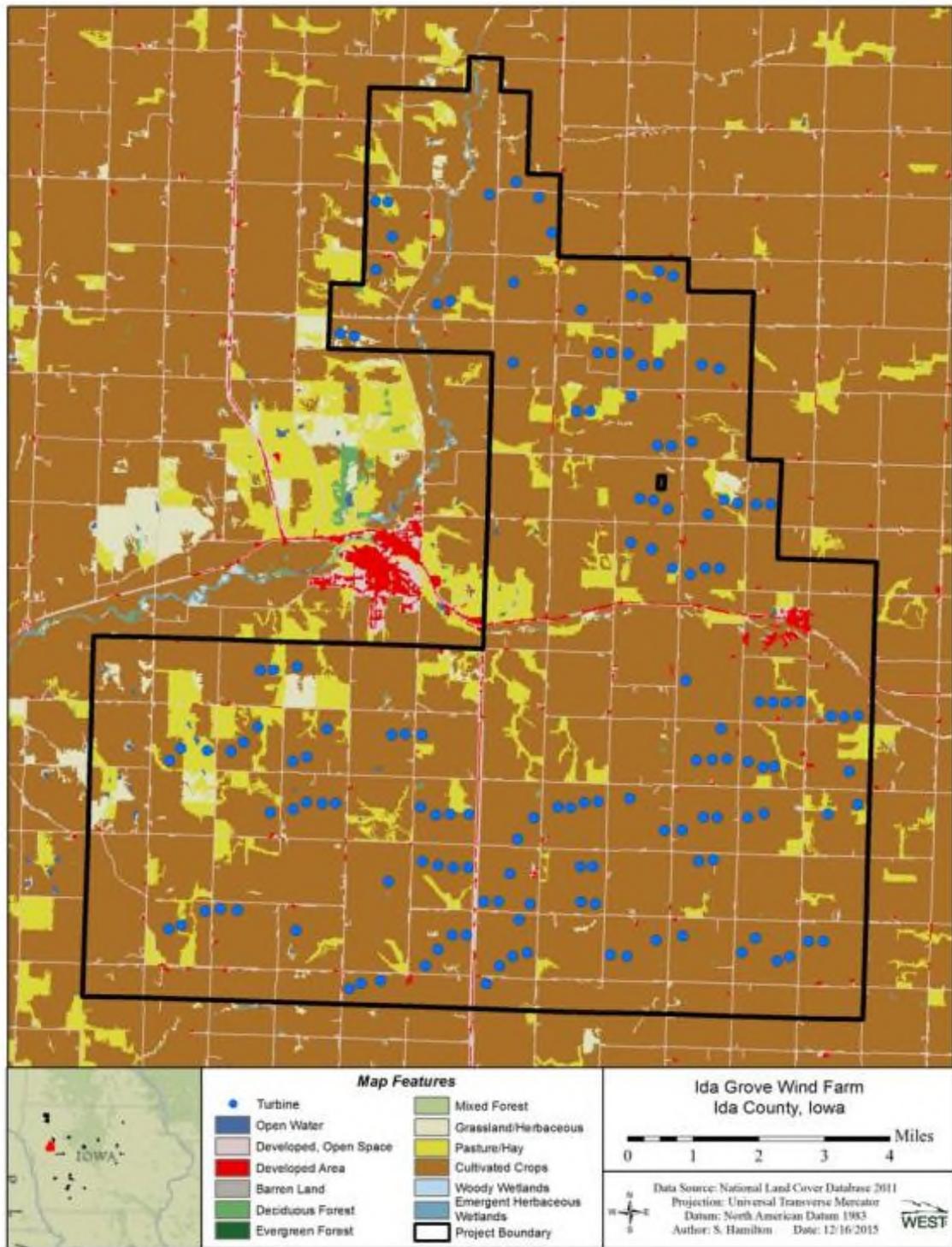
Appendix A6. Land use/land cover at the Charles City Project.



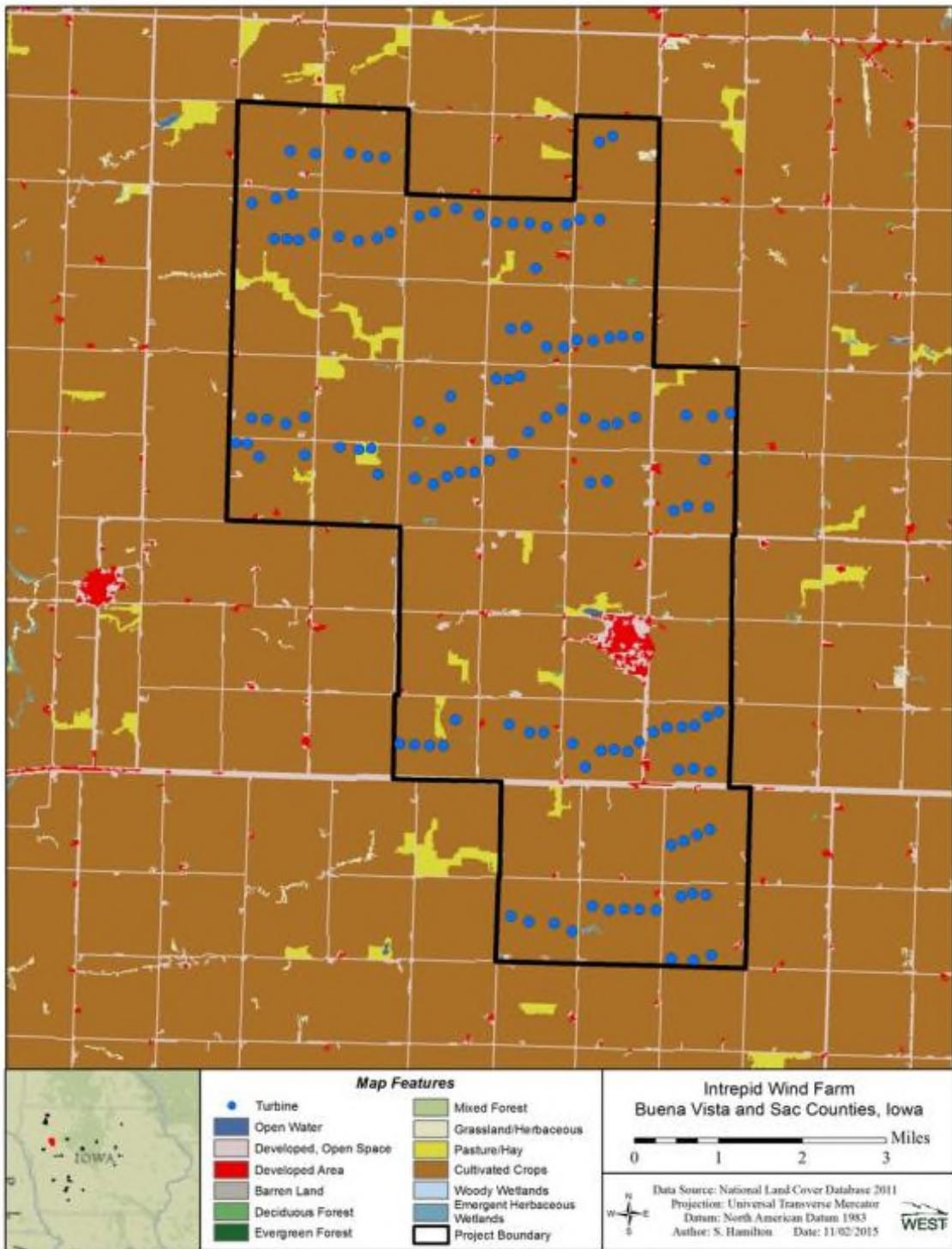
Appendix A7. Land use/land cover at the Eclipse Project.



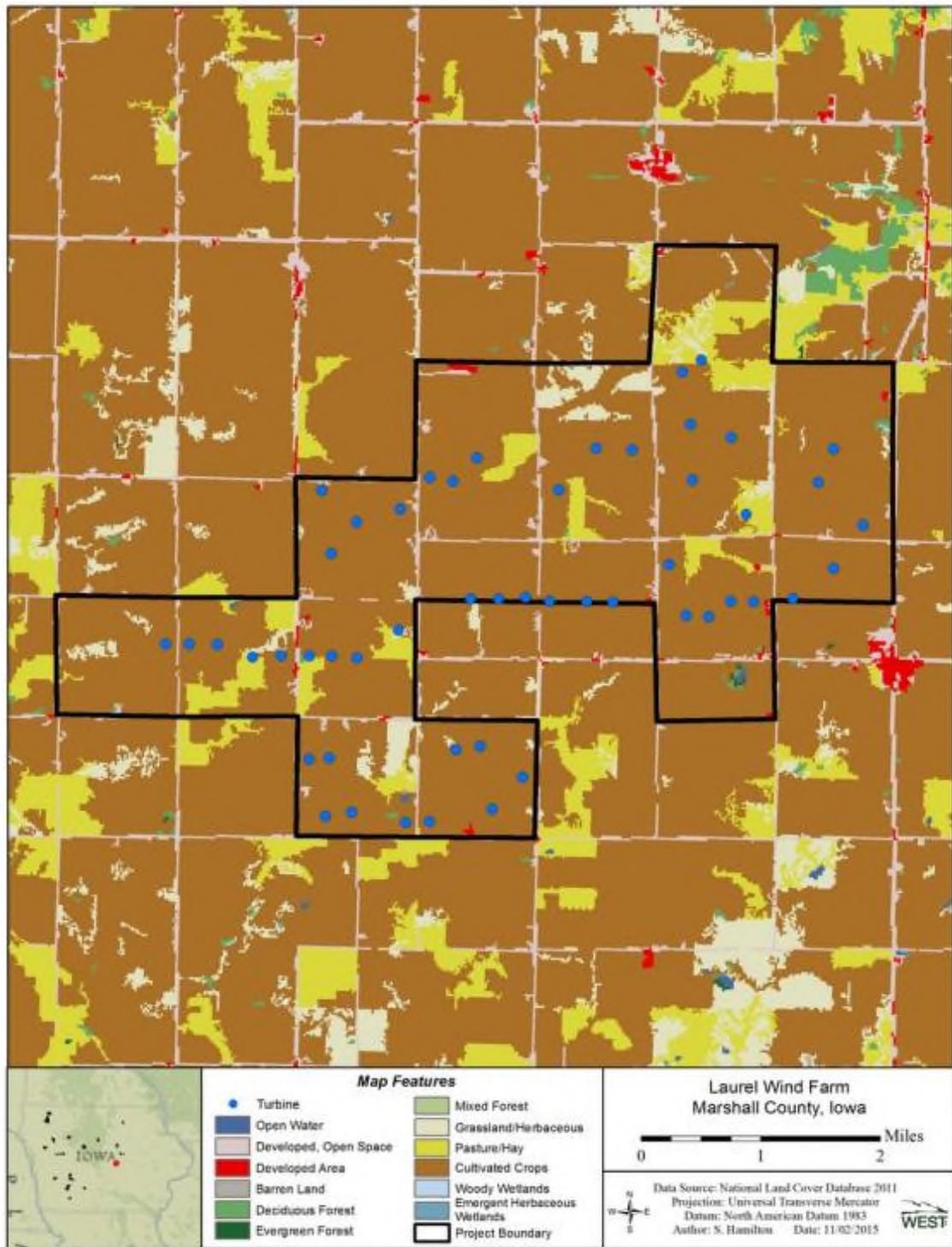
Appendix A8. Land use/land cover at the Highland Project.



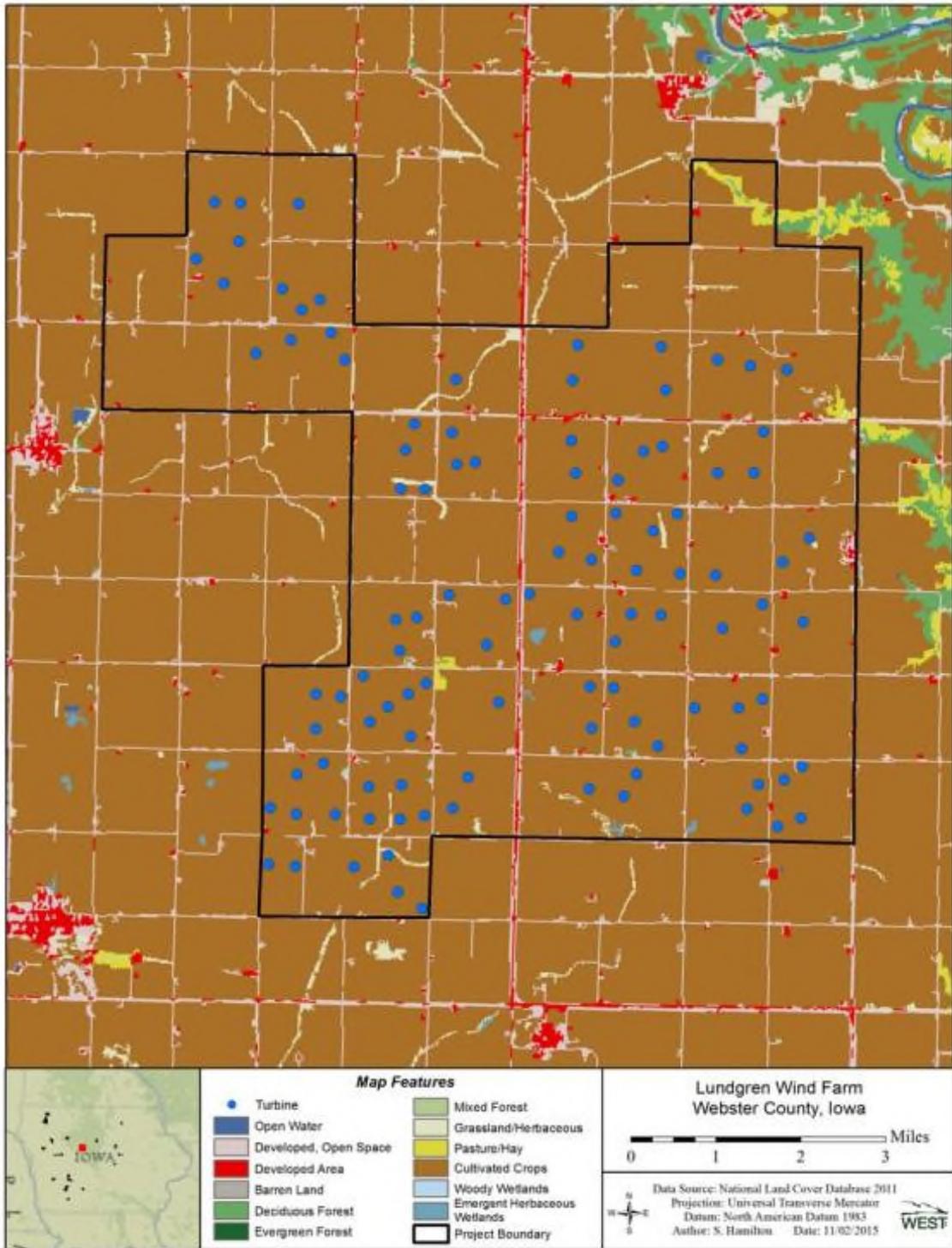
Appendix A9. Land use/land cover at the Ida Grove Project.



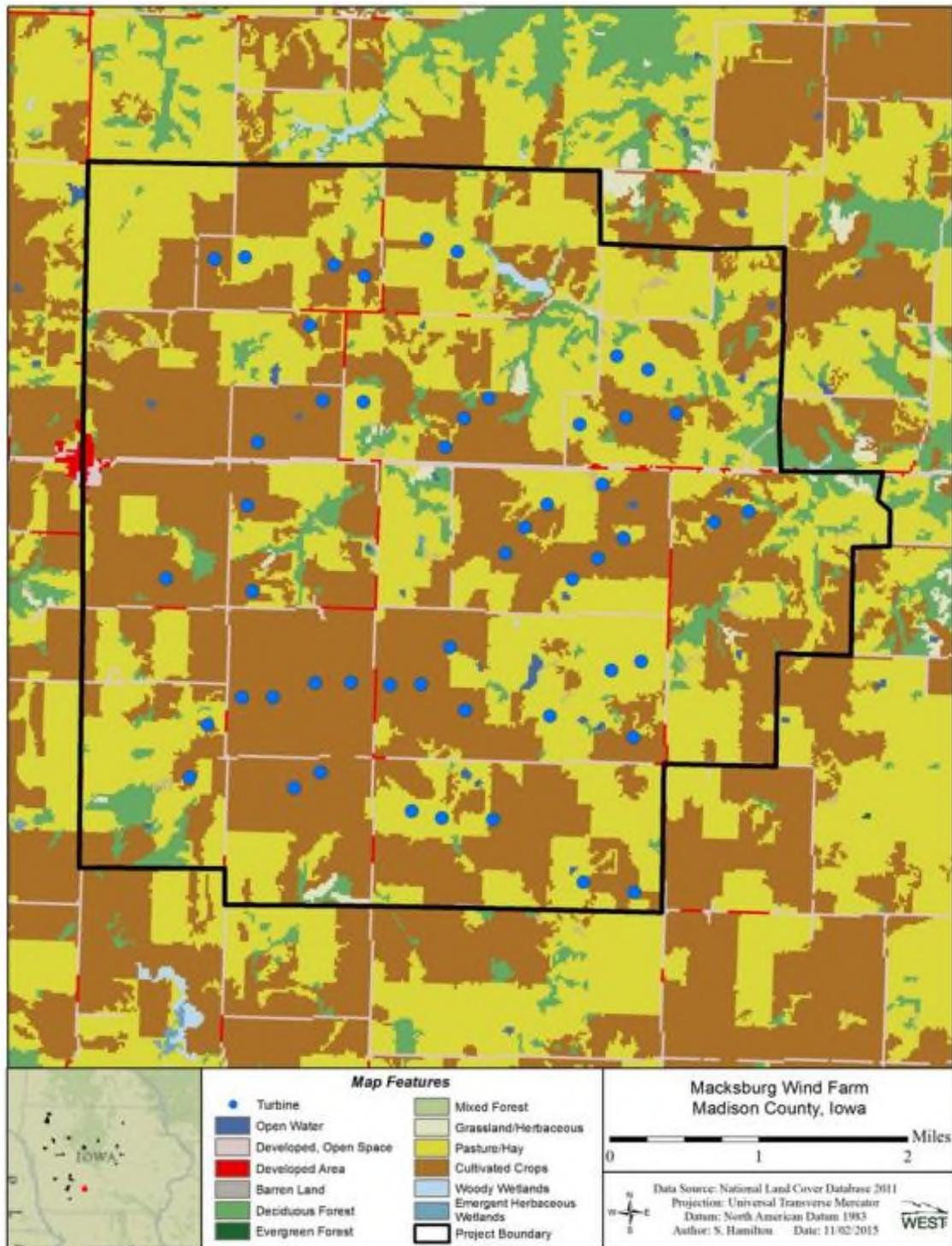
Appendix A10. Land use/land cover at the Intrepid Project.



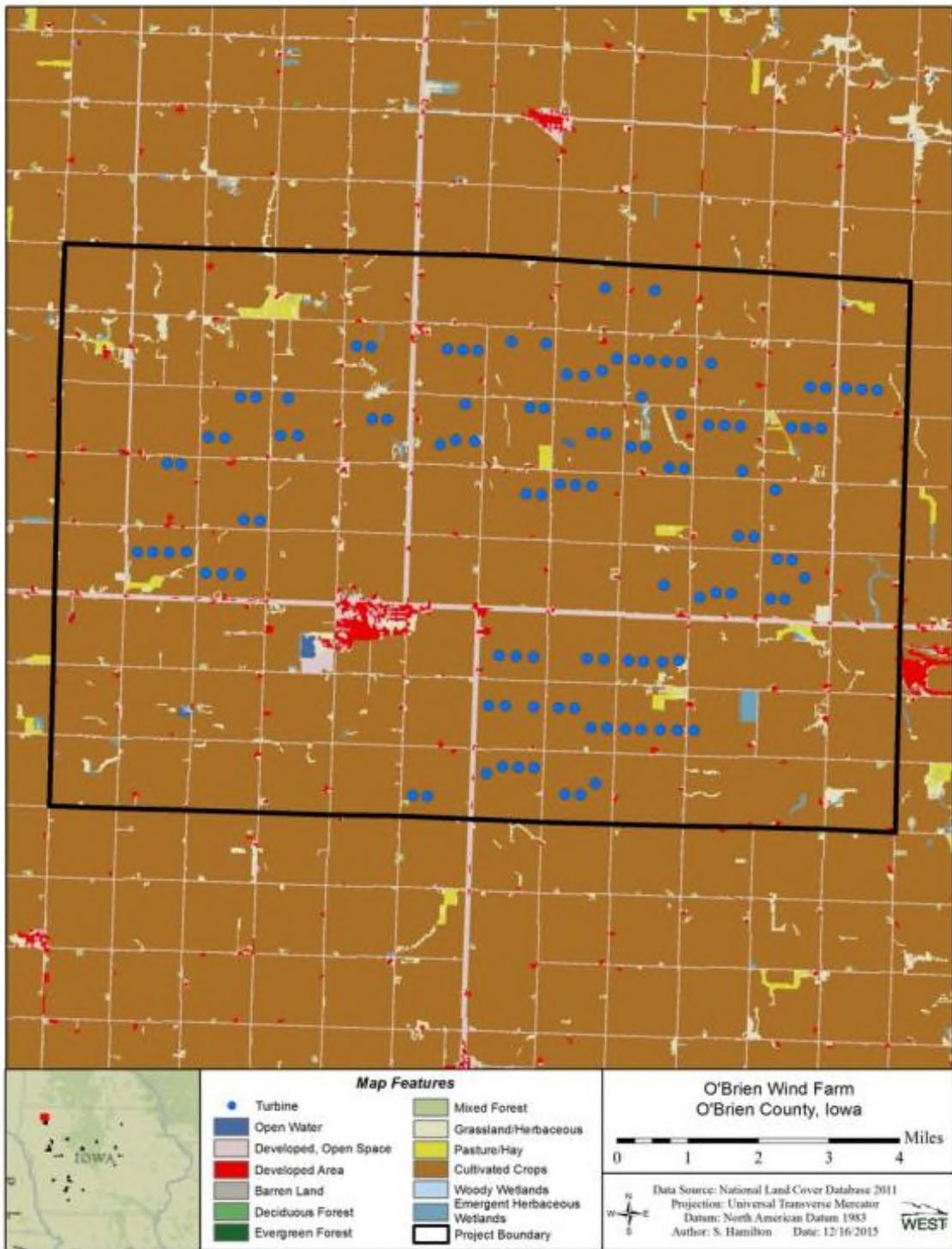
Appendix A11. Land use/land cover at the Laurel Project.



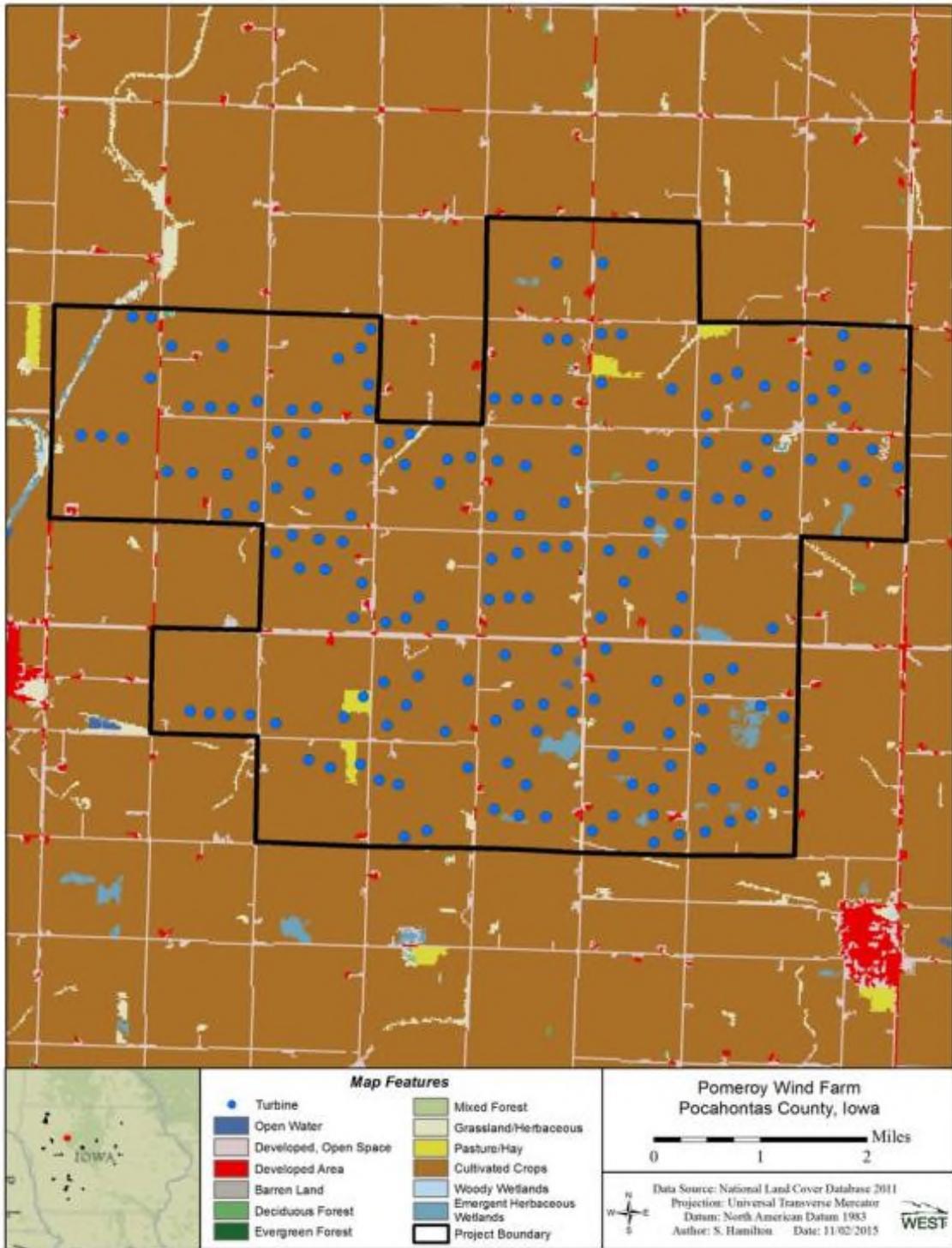
Appendix A12. Land use/land cover at the Lundgren Project.



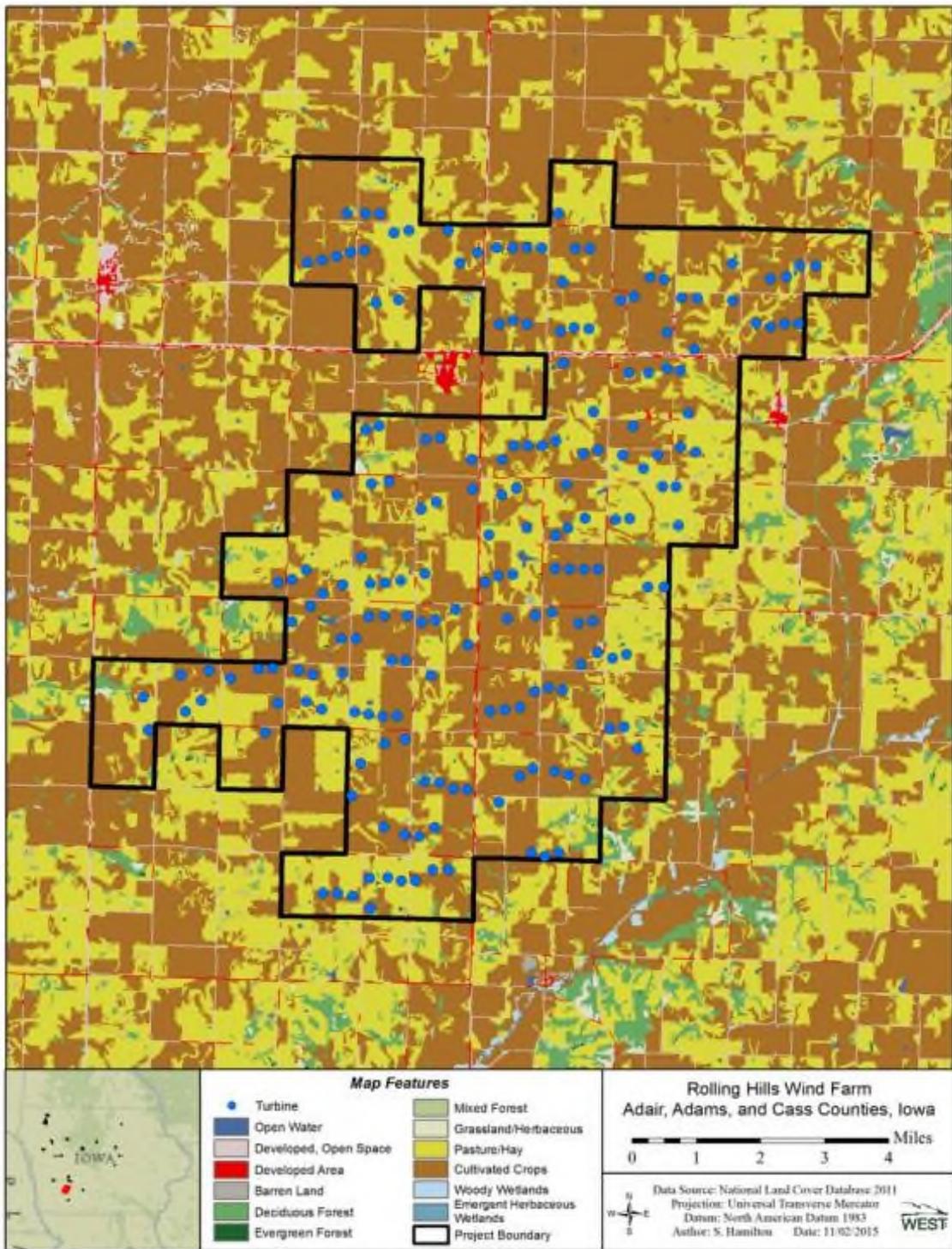
Appendix A13. Land use/land cover at the Macksburg Project.



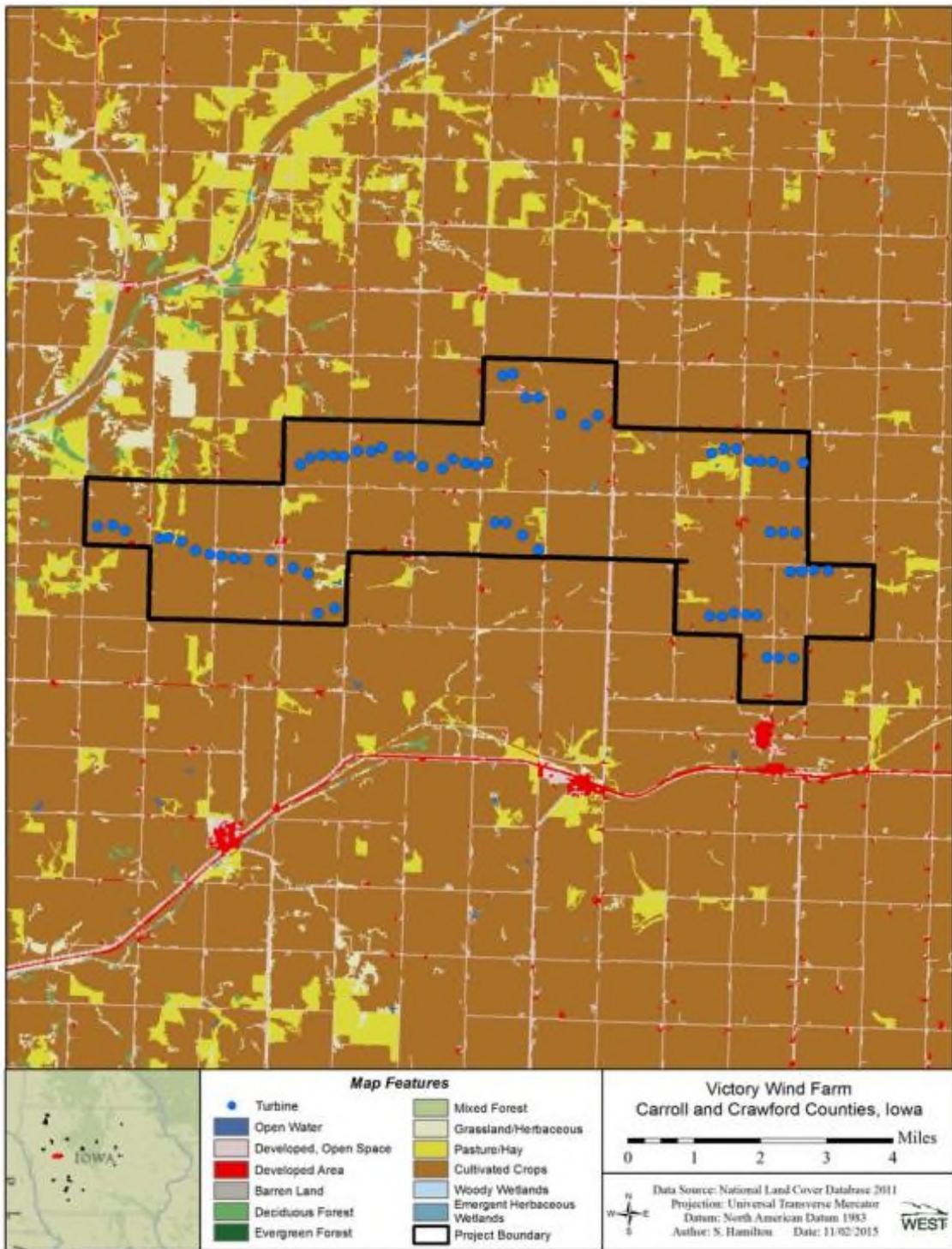
Appendix A14. Land use/land cover at the O'Brien Project.



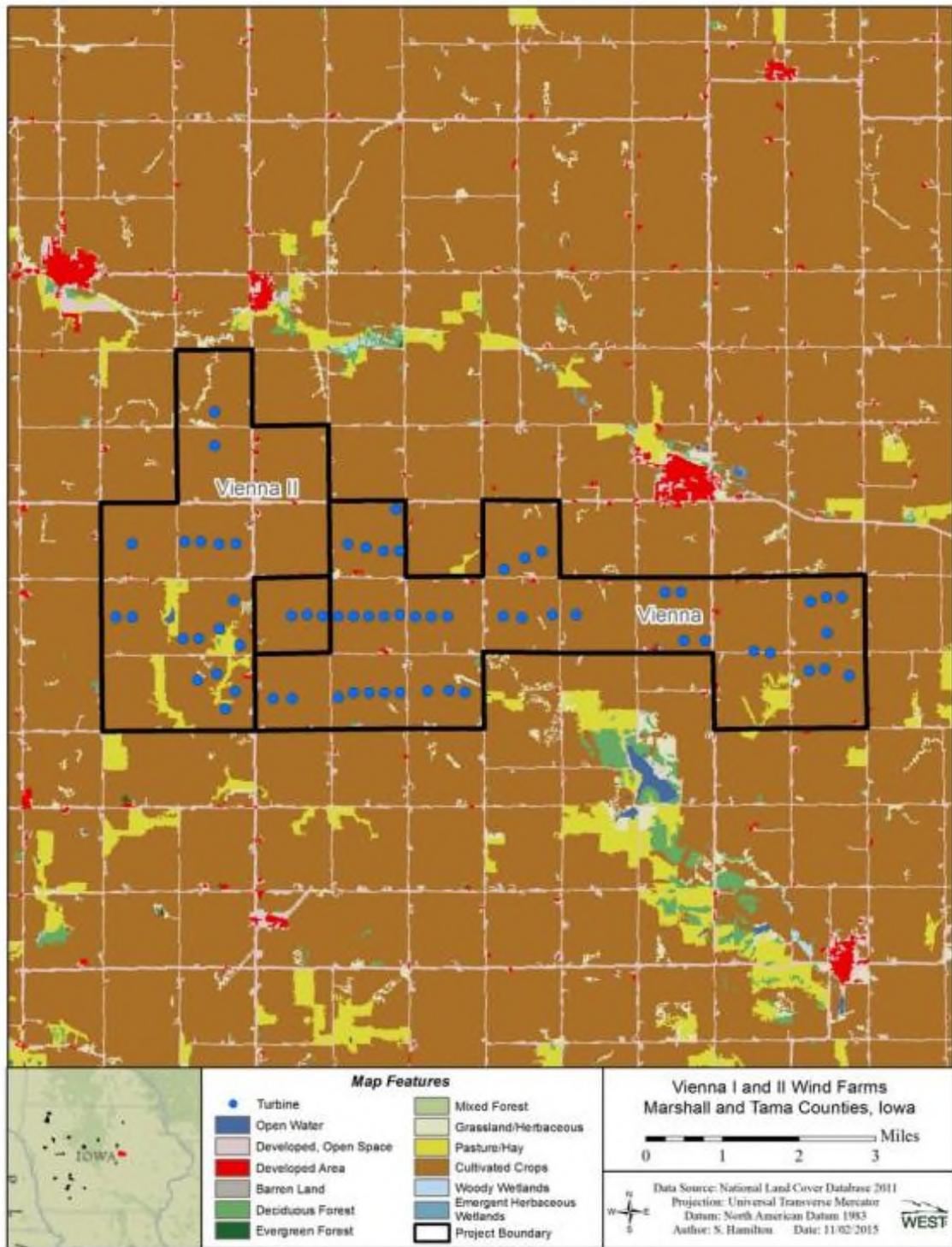
Appendix A15. Land use/land cover at the Pomeroy Project.



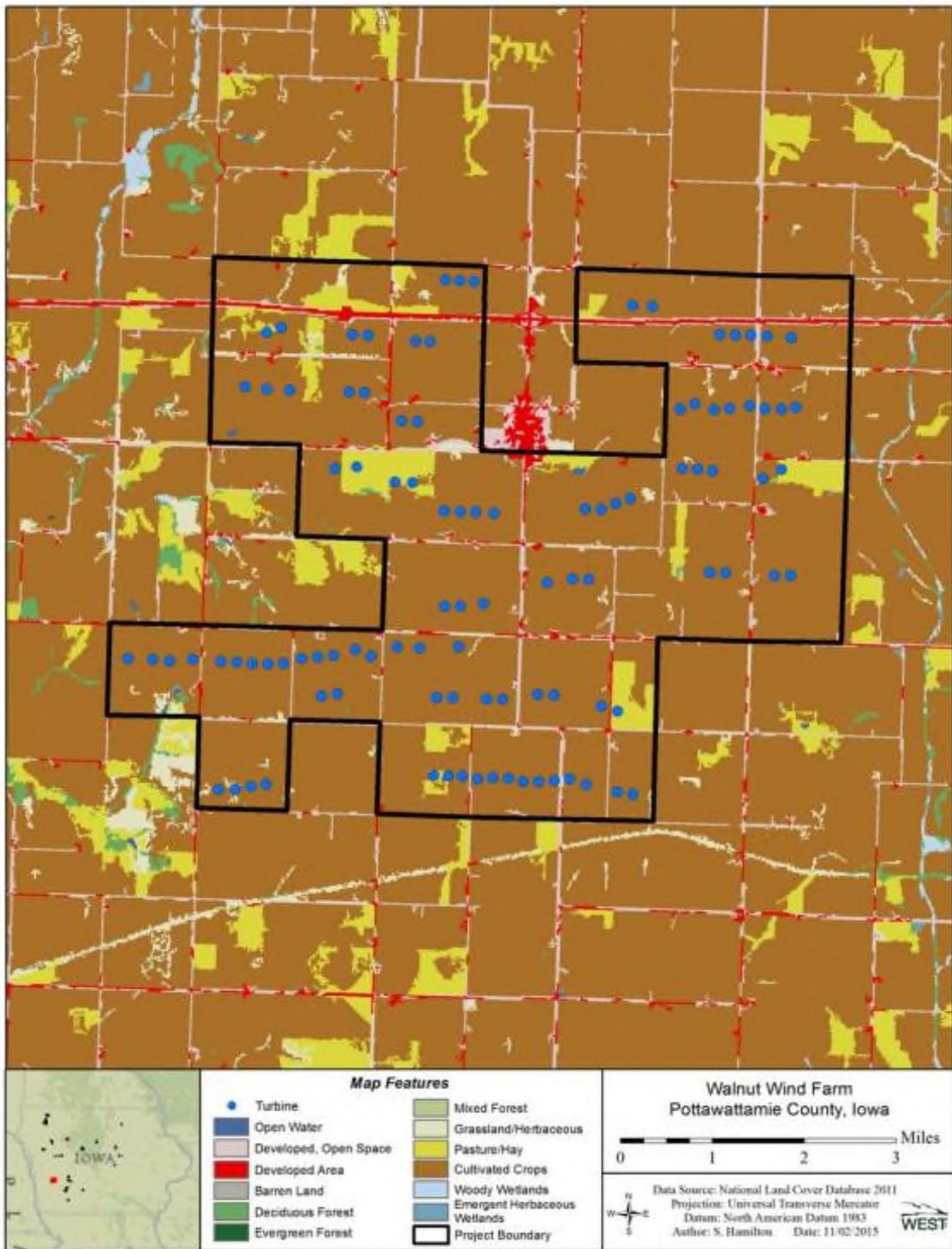
Appendix A16. Land use/land cover at the Rolling Hills Project.



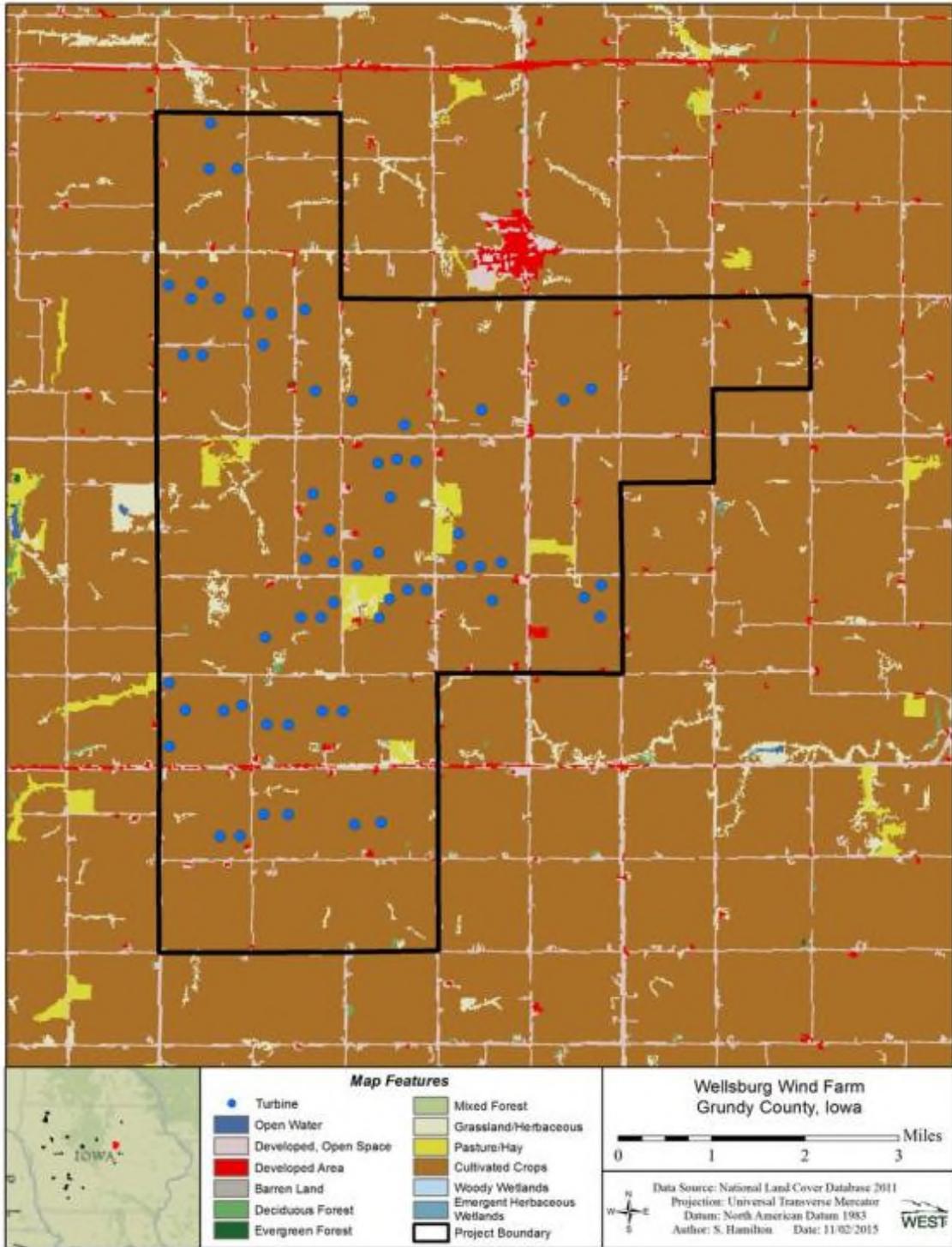
Appendix A17. Land use/land cover at the Victory Project.



Appendix A18. Land use/land cover at the Vienna I and II Projects.



Appendix A19. Land use/land cover at the Walnut Project.



Appendix A20. Land use/land cover at the Wellsburg Project.

LITERATURE CITED

ESRI. 2016. World Street Map. ArcGIS Resource Center. ESRI, producers of ArcGIS software, Redlands, California. Data accessed January 2016.

Homer, C. G., J. A. Dewitz, L. Yang, S. Jin, P. Danielson, G. Xian, J. Coulston, N. D. Herold, J. D. Wickham, and K. Megown. 2015. Completion of the 2011 National Land Cover Database for the Conterminous United States-Representing a Decade of Land Cover Change Information. *Photogrammetric Engineering and Remote Sensing* 81(5): 345-354. Available online from:
<http://www.mrlc.gov/nlcd2011.php>

North American Datum (NAD). 1983. NAD83 Geodetic Datum.

US Geological Survey (USGS) National Land Cover Data (NLCD). 2011. National Land Cover Database NLCD, Multi-Resolution Land Characteristics Consortium (MRLC). USGS Earth Resources Observation and Science (EROS) Center, Sioux Falls, South Dakota. Information available online at:
http://www.mrlc.gov/nlcd11_leg.php

USA Topo. 2016. USA Topo Maps. US Geological Survey (USGS) topographical maps for the United States. ArcGIS. ESRI, producers of ArcGIS software. Redlands, California.