PURDUE UNIVERSITY EXTENSION

# Thirty-seven Factors that could Affect CFO Siting in Indiana: *Comparison of Counties*

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PURDUE EXTENSION | LOCAL FACES COUNTLESS CONNECTIONS | PURDUE UNIVERSITY | Center for Regional Development Advancing Collaboration : Energizing Regions

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# BACKGROUND

This report is part of ongoing research to better understand the efficacy and impact of land use regulations for confined feeding operations (CFOs) in Indiana counties. This particular report compiles data for 37 different factors the could affect CFO siting at the county level. These data are from the 2016 Inventory of Standards and the March 2017 Progress Report including data regarding violations. These reports can both be found here. Additional information on CFOs in general can be found here.

For each factor or measure, counties were separated based on percentiles and the percentiles were assigned colors. The resulting heat map creates a visual classing of the various factors both in the zoning ordinance and external to county regulation that may impact the siting of a CFO. For example, counties with higher animal densities (top 20%) will contain darkest blue boxes; counties with lowest animal densities (bottom 20%) will contain lightest blue boxes. In some cases, a county either has a standard or does not have the standard (e.g., planning and zoning). For "yes/no" types of variables, darkest blue boxes were assigned to "yes" and white boxes to "no". Data from the 2012 Agriculture Census (USDA) were obtained for animal densities. There are cases where the exact number of a given species in the county is not stated as it could identify individual farms. In those cases, an estimated range is given. If no animal numbers data are available, the color white is assigned. Below are some details on each of the 37 measurements as well as a key to the charts. Table 1 one shows all factors together. Tables 2 through 5 show further details about the factors in Table 1.

# 37 FACTORS

### COUNTY DEMOGRAPHICS

The demographics columns (1 to 6) in Table 1 show the rural or urban nature of the county, and the importance of animal agriculture. Jay County, for example, has lightly colored boxes in the first four columns, indicating low population and housing density, a rural classification, a low percentage of non-farm land. It has dark colored boxes for columns 5 and 6, indicating a large number of permitted farms and a large number of animals.

1. **Population Density:** Population of county, as defined by 2015 population estimate by the Census Bureau divided by county's square miles.
2. **Housing Density:** Quantity of housing units divided by number of square miles in the county.
3. **Typology (rural, mixed, urban):** County type according to the Indiana County Classification System which takes into account population, density, population of largest city and identity. For more detail, see: https://www.extension.purdue.edu/extmedia/EC/EC-766-W.pdf
4. **Non-farmland (%):** Reflects the percentage of land in the county not devoted to farmland production.
5. **No. of Permitted Farms:** Number of CFOs or CAFOs in the county per IDEM as of 2015.

**6. Est. Animal Density (AU):** Calculated from animal numbers in 2012 Ag Census. 1 AU ~ 1000 pounds. Dairy cows = 1.4; beef cattle = 1.0; other cows = 0.6; pigs = 0.4; layers = 0.02; broiler = 0.01; ducks = 0.02.

## SITING BASICS

The siting basics columns (7 to 10) show whether the county has planning and zoning, whether the zoning ordinance includes rules for CFO's, details about the CFO siting process, and whether the county uses a site scoring method. Fayette County, for example, shows dark boxes for zoning, a CFO ordinance and site scoring, and a lighter box for the siting process (indicating that it uses permitted use with additional provisions).

**7. Planning and Zoning:** Whether a county has adopted planning and zoning (Yes/No).

**8. CFO Ordinance:** Whether a county with planning and zoning includes provision for CFOs in the zoning ordinance (Yes/No).

**9. Siting Process:** Level of process required in CFO siting as established in the zoning ordinance. We have assign numerical values (1 – 5) to each CFO ordinance based on the level of process required for siting approval (1= permitted use; 2 = permitted use with additional provisions; 3 = special exception; 4 = rezone [permitted use]; and 5 = rezone [special exception]).

**10. Site scoring:** Site scoring systems awards points to an applicant based on management practices, site location, facility characteristics, and other criteria. A predetermined number of points must be scored in order for a permit to be issued (Yes/No).

## BUFFERS

The buffers columns (11 to 16) show the distance in feet around protected land uses where CFO siting is not allowed. Blank boxes indicate no buffers. Darker boxes indicate bigger distances for more land uses. Tipton County, for example, has shaded boxes for all land uses, with buffers ranging from 1,320 feet to 5,280 feet.

**11. Residences:** Required distance (ft.) between CFO and nearest residence.

**12. Municipalities:** Required distance (ft.) between CFO and nearest municipality.

**13. Religious Institutions:** Required distance (ft.) between CFO and nearest religious institution.

**14. Schools:** Required distance (ft.) between CFO and nearest school.

**15. Recreational Areas:** Required distance (ft.) between CFO and nearest recreational area.

**16. Businesses:** Required distance (ft.) between CFO and nearest business.

## OTHER STANDARDS OR PROVISIONS

The other standards and provisions columns (17 to 31) indicate whether the county has other rules for CFO siting and operation. All these boxes are "yes-no," meaning they are shaded if the county has a particular kind of rule, and blank it the county does not have the rule. Adams County, for example, has six shaded boxes, showing that the county has rules about reciprocal buffers, an agricultural clause

notifying developers of nearby ag land use, a site plan requirement, and standards for manure application, manure storage and animal mortality. Adams does not require pre-application permits, minimum lot sizes, nor does it have any of the other standards.

17. **Reciprocal Buffer:** Buffer distances (from an established CFO) required of new residential construction or uses in defined zoning districts (Yes/No).
18. **Ag Clause:** Agriculture clauses, in general, notify potential developers in a given zoning district "that they may experience noise, dust, and odor associated with generally accepted farming practices" (ILRC 2014). Several Indiana county zoning ordinances contain such clauses in effort to minimize land use conflict in rural areas (Yes/No).
19. **Pre-Application Permit:** Permit which protects a parcel's buffer zone from new buffered development for a period of time while the owner obtains all needed permits and plans (Yes/No).
20. **Site Plan:** Development plan which contains specific siting information, any documents required by the zoning ordinance and verification the development satisfies all requirements (Yes/No).
21. **Minimum Lot Size:** Minimum lot size required for CFO siting (Yes/No).
22. **IDEM Permit:** IDEM permit required before siting (Yes/No)
23. **Odor Control Standards:** Standards regarding odor and odor abatement (Yes/No).
24. **Manure Application Standards:** Standards on how manure can be applied (Yes/No).
25. **Manure Storage Standards:** Standards on how manure can be stored (Yes/No).
26. **Animal Mortality Standards:** Standards on how dead animals must be handled (Yes/No).
27. **Transportation/Driveway Standards**: Standards related to transportation related to the CFO (Yes/No)
28. **Well/Water standards:** Standards regarding wells and/or water related to CFO (Yes/No).
29. **Screening/Shelterbelt:** Standards regarding tree-lines or other types of screening surrounding the CFO (Yes/No).
30. **Existing Violations:** Standards regarding applicant's previous environmental violations if any (Yes/No).

## VIOLATIONS AND COMPLAINTS

Finally, the violations/complaints columns (31 to 37) show the numbers of violations or complaints about CFO's in each county. Darker boxes indicate more complaints. Blank boxes show counties with no complaints. St. Joseph County, for example, has darker shaded boxes for all of these columns, indicating a larger number of violations and/or complaints.

31. **IDEM Enforcements:** IDEM enforcements made to farms permitted as CFOs from 2011 – 2016 (including those permitted as CAFOs).

**32. IDEM Enforcements/Farm:** IDEM enforcements per permitted farm in the county from 2011 – 2016 (total number of IDEM enforcements/total number of permitted farms).

**33.OISC Inv. w. Violations:** Manure-related OISC investigations from 2013 – 2015 that resulted in violations.

**34. Total OISC Violations:** Total OISC manure-related violations from 2013 – 2015.

**35. Total OISC Violation/Farm:** Violations per permitted farm in the county from 2013 – 2015.

**36. Anon/Res Complaints:** OISC manure related investigations stemming from an anonymous (anon) or resident (res) complaint from 2013 – 2015.

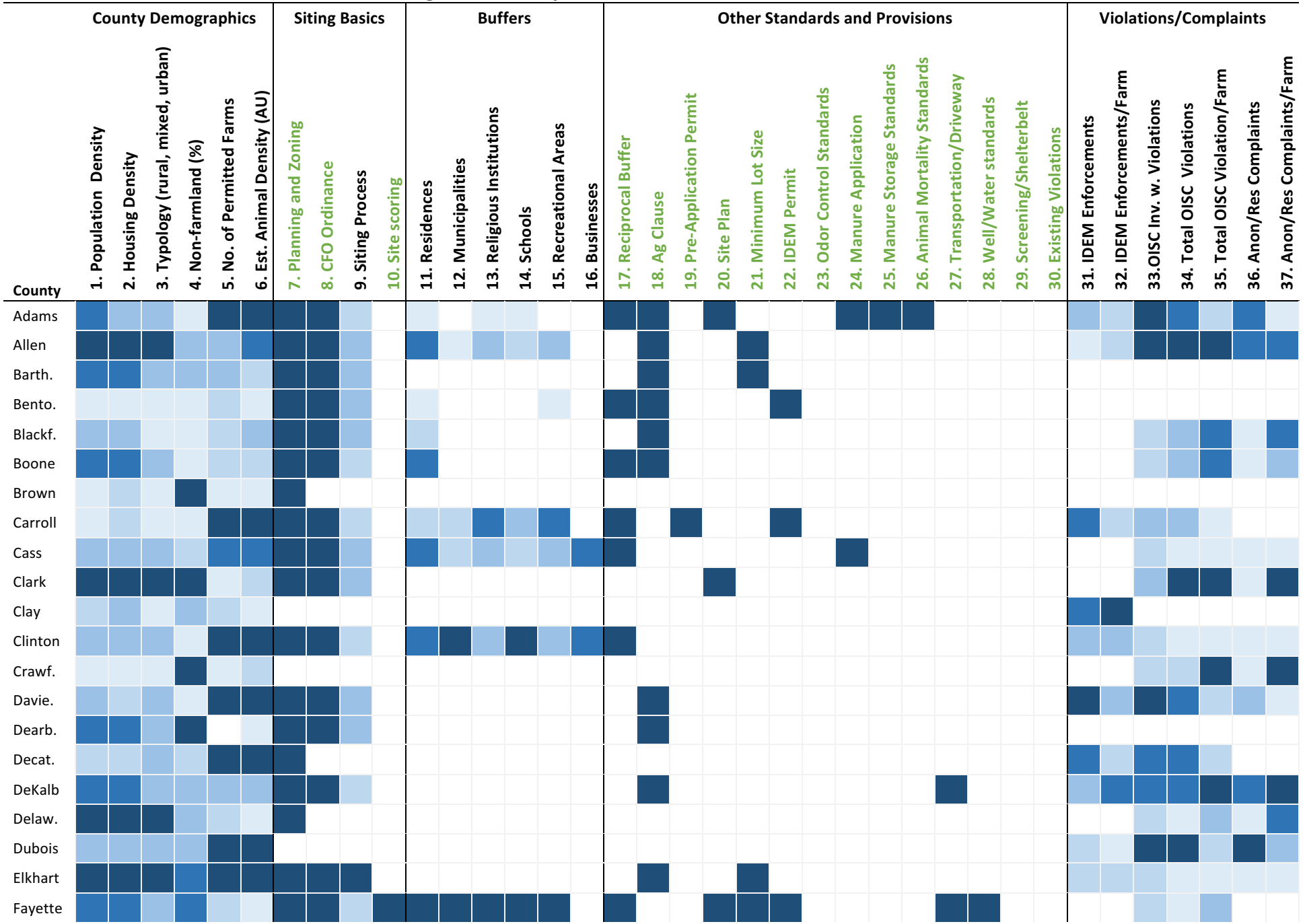
**37. Anon/Res Complaints/Farm**: OISC manure related investigations stemming from an anonymous (anon) or resident (res) complaint per farm from 2013 – 2015.

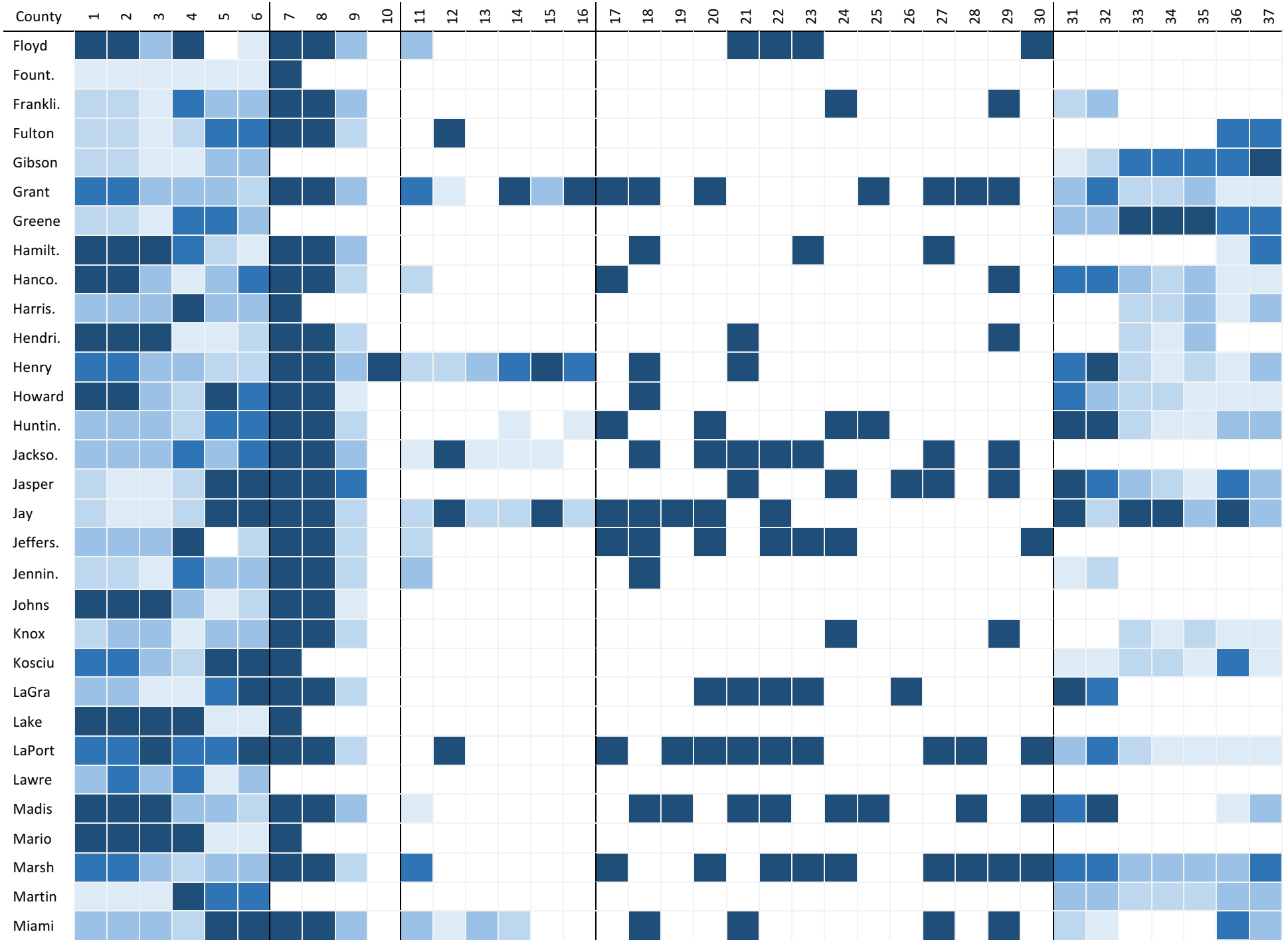
Key:

| Color | Percentile |
|---|---|
| | Top 20% |
| | Top 40% |
| | Top 60% |
| | Bottom 40% |
| | Bottom 20% |
| | No standard or provision in this county |

| Other | |
|---|---|
| **Green font in header** | Yes/no standard (blue = yes) |
| **D** | no data |
| **[x - y]** | [low estimate, high estimate] |
| **> x** | X is the minimum number of animals |

**Table 1. 37 Factors that could Affect CFO Siting at the County Level in Indiana.**

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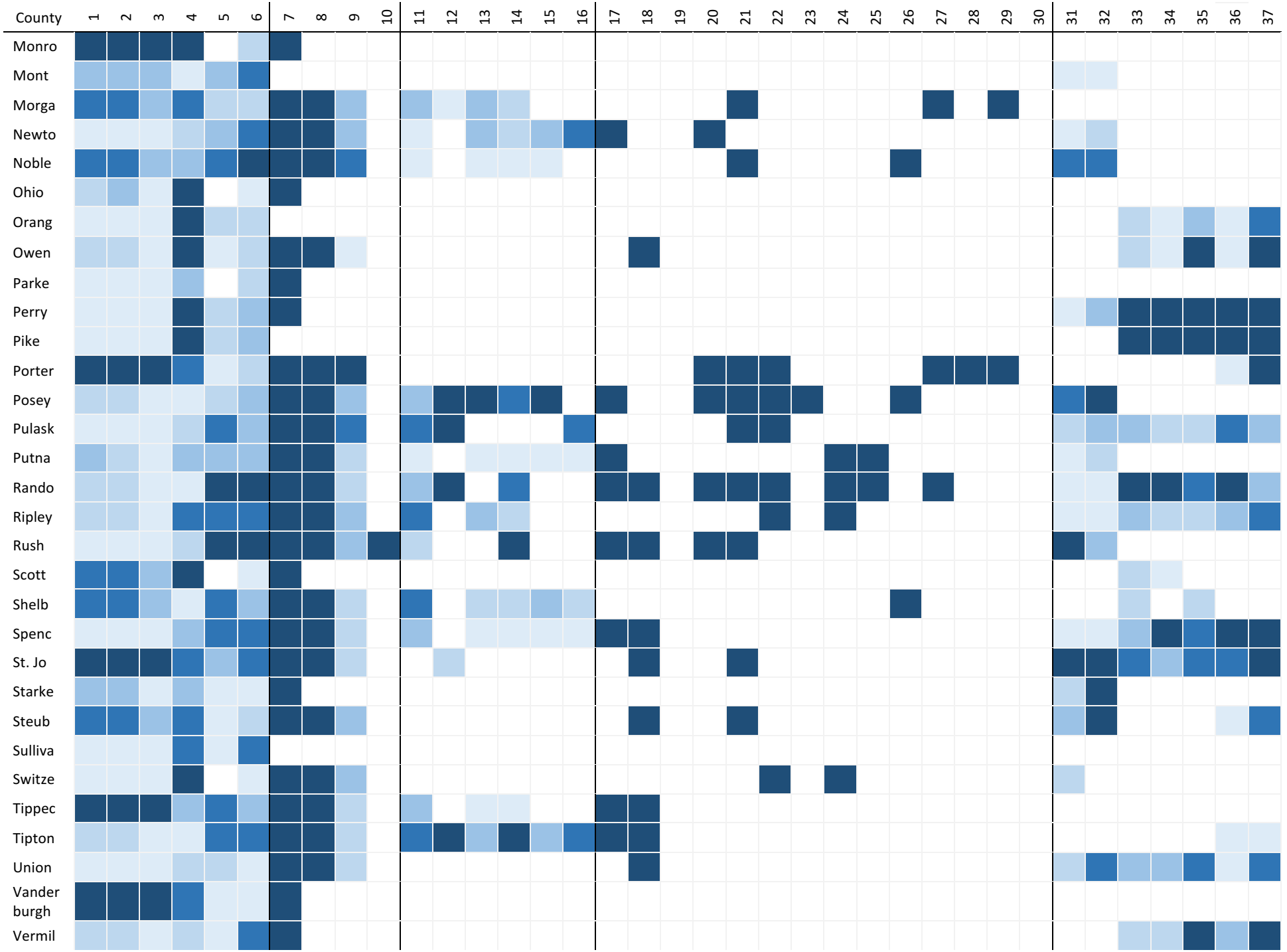
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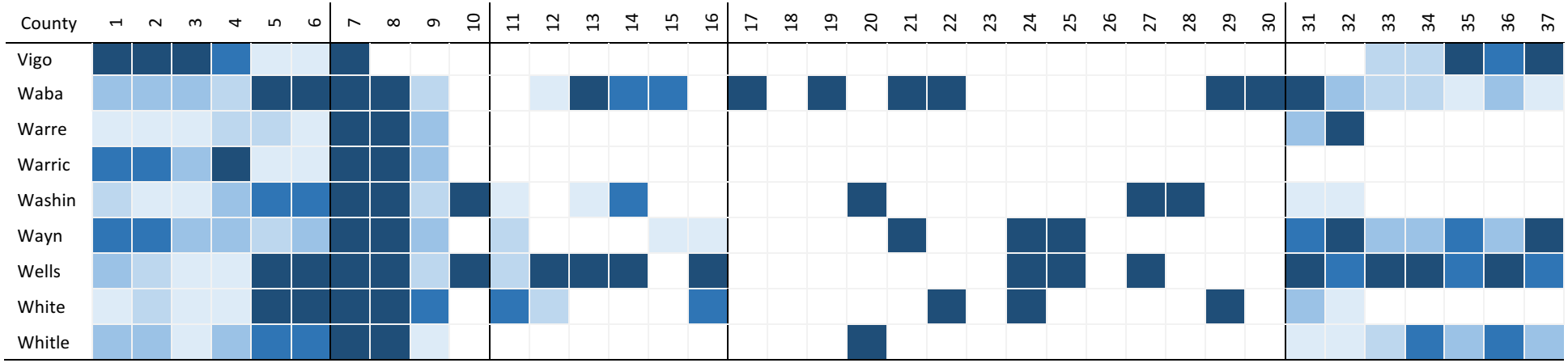
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**Table 2. Factors that could Affect CFO Siting in Indiana: County Demographics.**

| County | Population Density | Housing Density | Typology (*rural, rural/mixed, urban*) | Non-farmland *(%)* | Permitted Farms | Animal Unit Estimation |
|---|---|---|---|---|---|---|
| Adams | 102.6 | 38.4 | Rural/Mixed | 3.1 | 62 | 96,140 |
| Allen | 556.7 | 232.2 | Urban | 35.6 | 13 | 26,520 |
| Bartholomew | 197.1 | 81.4 | Rural/Mixed | 34.1 | 10 | 8,590 |
| Benton | 21.4 | 9.7 | Rural | 2.3 | 9 | 4,557 |
| Blackford | 75.1 | 36.5 | Rural | 16.7 | 7 | 14,162 |
| Boone | 146.4 | 55.3 | Rural/Mixed | 18.1 | 9 | 11,660 |
| Brown | 48.0 | 26.8 | Rural | 92.7 | 1 | 1,534 |
| Carroll | 53.5 | 25.4 | Rural | 14.3 | 94 | 106,344 |
| Cass | 93.3 | 39.9 | Rural/Mixed | 24.1 | 35 | 22,665 |
| Clark | 306.4 | 128.7 | Urban | 67.1 | 2 | 6,556 |
| Clay | 74.3 | 32.7 | Rural | 28.8 | 8 | 3,497 |
| Clinton | 80.9 | 32.8 | Rural/Mixed | 13.8 | 42 | 73,086 |
| Crawford | 34.9 | 17.9 | Rural | 76.3 | 1 | 5,062 |
| Daviess | 76.2 | 29.0 | Rural/Mixed | 18.1 | 49 | 63,929 |
| Dearborn | 162.3 | 66.1 | Rural/Mixed | 71.0 | 0 | 4,263 |
| Decatur | 71.2 | 30.0 | Rural/Mixed | 21.8 | 71 | 65,188 |
| DeKalb | 116.8 | 48.3 | Rural/Mixed | 30.7 | 12 | 14,132 |
| Delaware | 298.6 | 133.3 | Urban | 30.2 | 6 | 2,972 |
| Dubois | 99.1 | 40.7 | Rural/Mixed | 36.0 | 89 | 88,785 |
| Elkhart | 436.1 | 167.7 | Urban | 41.7 | 41 | 84,945 |
| Fayette | 109.1 | 50.5 | Rural/Mixed | 43.1 | 7 | 3,815 |
| Floyd | 515.0 | 216.5 | Rural/Mixed | 77.3 | 0 | 1,848 |
| Fountain | 42.1 | 19.8 | Rural | 15.3 | 4 | 3,618 |
| Franklin | 59.7 | 24.8 | Rural | 49.2 | 13 | 14,276 |
| Fulton | 55.6 | 26.3 | Rural | 20.1 | 17 | 19,000 |
| Gibson | 69.3 | 30.0 | Rural | 14.1 | 13 | 12,301 |
| Grant | 165.6 | 73.4 | Rural/Mixed | 30.8 | 12 | 8,516 |
| Greene | 60.3 | 27.9 | Rural | 47.8 | 18 | 17,833 |
| Hamilton | 767.6 | 276.3 | Urban | 48.1 | 8 | 4,376 |
| Hancock | 235.2 | 92.3 | Rural/Mixed | 15.3 | 15 | 18,866 |
| Harrison | 81.1 | 34.1 | Rural/Mixed | 56.5 | 11 | 15,478 |
| Hendricks | 383.5 | 138.1 | Urban | 16.1 | 4 | 8,052 |
| Henry | 125.0 | 54.1 | Rural/Mixed | 29.6 | 9 | 11,185 |
| Howard | 283.2 | 131.7 | Rural/Mixed | 23.1 | 38 | 30,005 |
| Huntington | 95.9 | 41.4 | Rural/Mixed | 22.9 | 19 | 28,049 |
| Jackson | 85.8 | 35.8 | Rural/Mixed | 43.6 | 15 | 34,896 |
| Jasper | 59.8 | 23.6 | Rural | 21.0 | 40 | 54,185 |
| Jay | 55.2 | 24.0 | Rural | 28.5 | 96 | 137,570 |
| Jefferson | 90.1 | 39.6 | Rural/Mixed | 58.7 | 0 | 6,416 |

| County | Population Density | Housing Density | Typology (*rural, mixed, urban*) | Non-farmland *(%)* | Permitted Farms | Animal Unit Estimation |
|---|---|---|---|---|---|---|
| Jennings | 74.4 | 32.0 | Rural | 48.8 | 11 | 16,844 |
| Johnson | 460.4 | 178.5 | Urban | 29.5 | 5 | 6,236 |
| Knox | 73.5 | 32.9 | Rural/Mixed | 0.3 | 16 | 16,467 |
| Kosciusko | 147.8 | 69.8 | Rural/Mixed | 25.1 | 74 | 54,579 |
| LaGrange | 101.2 | 37.3 | Rural | 16.0 | 33 | 99,347 |
| Lake | 982.5 | 418.9 | Urban | 58.3 | 1 | 1,538 |
| LaPorte | 186.3 | 81.1 | Urban | 40.5 | 19 | 82,350 |
| Lawrence | 101.8 | 46.7 | Rural/Mixed | 53.1 | 4 | 11,936 |
| Madison | 287.8 | 130.3 | Urban | 29.1 | 10 | 7,576 |
| Marion | 2,357.4 | 1054.9 | Urban | 92.1 | 1 | 252 |
| Marshall | 106.2 | 44.7 | Rural/Mixed | 27.3 | 12 | 18,617 |
| Martin | 30.4 | 14.2 | Rural | 70.9 | 22 | 22,425 |
| Miami | 96.2 | 41.2 | Rural/Mixed | 26.7 | 47 | 51,204 |
| Monroe | 363.3 | 150.2 | Urban | 79.1 | 0 | 4,766 |
| Montgomery | 75.6 | 32.7 | Rural/Mixed | 11.1 | 16 | 30,038 |
| Morgan | 172.5 | 68.8 | Rural/Mixed | 46.9 | 6 | 5,178 |
| Newton | 35.2 | 15.0 | Rural | 25.9 | 14 | 23,376 |
| Noble | 115.9 | 48.9 | Rural/Mixed | 31.0 | 24 | 59,613 |
| Ohio | 70.1 | 32.3 | Rural | 61.1 | 0 | 2,340 |
| Orange | 49.3 | 22.9 | Rural | 61.5 | 8 | 8,966 |
| Owen | 54.4 | 26.0 | Rural | 61.3 | 1 | 5,695 |
| Parke | 38.8 | 18.1 | Rural | 38.0 | 0 | 7,914 |
| Perry | 51.0 | 22.2 | Rural | 72.9 | 9 | 14,214 |
| Pike | 37.8 | 17.2 | Rural | 62.6 | 8 | 13,969 |
| Porter | 399.6 | 158.6 | Urban | 55.0 | 1 | 6,557 |
| Posey | 62.4 | 27.5 | Rural | 12.7 | 7 | 17,465 |
| Pulaski | 29.9 | 13.9 | Rural | 22.0 | 27 | 17,460 |
| Putnam | 78.3 | 30.6 | Rural | 35.7 | 10 | 16,842 |
| Randolph | 56.1 | 25.9 | Rural | 16.7 | 45 | 79,816 |
| Ripley | 63.8 | 26.9 | Rural | 41.7 | 17 | 20,557 |
| Rush | 41.4 | 18.3 | Rural | 20.5 | 49 | 62,410 |
| Scott | 124.5 | 54.8 | Rural/Mixed | 57.8 | 0 | 1,683 |
| Shelby | 108.4 | 46.4 | Rural/Mixed | 11.4 | 17 | 15,300 |
| Spencer | 52.4 | 22.4 | Rural | 32.9 | 21 | 27,074 |
| St. Joseph | 584.5 | 251.0 | Urban | 48.1 | 11 | 35,268 |
| Starke | 74.6 | 35.4 | Rural | 32.5 | 4 | 1,413 |
| Steuben | 111.1 | 62.7 | Rural/Mixed | 47.1 | 5 | 7,630 |
| Sullivan | 47.1 | 19.9 | Rural | 40.5 | 5 | 20,498 |
| Switzerland | 47.4 | 22.6 | Rural | 64.2 | 0 | 3,963 |
| Tippecanoe | 366.3 | 143.5 | Urban | 31.2 | 26 | 18,818 |

| County | Population Density | Housing Density | Typology (*rural, mixed, urban*) | Non-farmland *(%)* | Permitted Farms | Animal Unit Estimation |
|---|---|---|---|---|---|---|
| Tipton | 59.2 | 26.8 | Rural | 12.9 | 18 | 29,650 |
| Union | 44.9 | 20.0 | Rural | 27.8 | 7 | 3,279 |
| Vanderburgh | 779.5 | 355.6 | Urban | 48.8 | 1 | 3,507 |
| Vermillion | 61.1 | 29.1 | Rural | 28.0 | 4 | 18,889 |
| Vigo | 268.2 | 114.3 | Urban | 54.5 | 3 | 1,393 |
| Wabash | 78.2 | 34.2 | Rural/Mixed | 25.1 | 77 | 67,659 |
| Warren | 22.9 | 10.1 | Rural | 24.6 | 6 | 3,479 |
| Warrick | 158.9 | 63.3 | Rural/Mixed | 59.5 | 2 | 4,287 |
| Washington | 54.3 | 23.7 | Rural | 39.3 | 37 | 46,740 |
| Wayne | 168.4 | 77.6 | Rural/Mixed | 39.4 | 8 | 15,953 |
| Wells | 75.7 | 31.7 | Rural | 15.0 | 42 | 55,326 |
| White | 48.4 | 25.6 | Rural | 10.9 | 65 | 87,628 |
| Whitley | 99.5 | 42.6 | Rural | 34.8 | 30 | 22,587 |

## Table 3. Factors that could Affect CFO Siting in Indiana: Animal Densities

| County | Dairy Cows | Beef Cattle | Other Cows | Total Pigs | Layers | Broilers | Turkeys | Ducks | Animal Unit Estimation | Animal Unit Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Adams | 8,841 | 954 | 20,906 | 109,912 | 893,885 | 36,995 | 74 | 402,548 | 96,140 | |
| Allen | 2,031 | 1,641 | 12,442 | 34,093 | 46,508 | D | 168 | D | 26,520 | does not include broilers, ducks |
| Bartholomew | 583 | 1,745 | 1,983 | 12,030 | 1,209 | 143 | 35 | 31 | 8,590 | |
| Benton | >1022 | [537-755] | 2,509 | >2152 | 217 | 0 | 13 | D | 4,557 | does not include ducks |
| Blackford | 0 | 601 | 956 | 32,452 | 296 | 7 | 9 | D | 14,162 | does not include ducks |
| Boone | 482 | 1,126 | 2,254 | 21,208 | 1,106 | 103 | D | 33 | 11,660 | does not include turkeys |
| Brown | >500 | [366-424] | 637 | [25-49] | 388 | D | 0 | 30 | 1,534 | does not include broilers |
| Carroll | 58 | 1,109 | 4,602 | 255,898 | [128-1,570] | 140 | 8 | D | 106,344 | does not include ducks |
| Cass | >710 | [2,008-2,206] | 3,478 | 43,388 | 1,132 | D | 19 | D | 22,665 | does not include broilers, ducks |
| Clark | 197 | 3,783 | 2,248 | 280 | [20,084-51,764] | D | D | 65 | 6,556 | does not include broilers, turkeys |
| Clay | 321 | 1,463 | 1,513 | >1634 | 1,124 | D | D | 40 | 3,497 | does not include broilers, turkeys |
| Clinton | [50-99] | [630-728] | 895 | 174,185 | >100,390 | D | D | 18 | 73,086 | does not include broilers, turkeys |
| Crawford | [120-248] | [2,503-2,802] | 1,812 | >2002 | 1,052 | 258 | 24 | 58 | 5,062 | does not include broilers, turkeys |
| Daviess | 1,920 | 2,886 | 9,375 | 71,451 | 6,024 | 4,093 | 1,199,381 | 22 | 63,929 | |
| Dearborn | 296 | 2,420 | 2,170 | 261 | 1,006 | 99 | 0 | 34 | 4,263 | |
| Decatur | [127-254] | [1,791-1,987] | 6,919 | 146,696 | 629 | 280 | D | 0 | 65,188 | does not include turkeys |
| DeKalb | 1,222 | 760 | 13,440 | 8,933 | 1,179 | D | 45 | D | 14,132 | does not include broilers, ducks |
| Delaware | [246-452] | 732 | 996 | >2453 | 1,377 | D | 16 | 22 | 2,972 | does not include broilers |
| Dubois | 1,956 | 7,497 | 10,667 | 89,493 | >400,521 | 580 | 1,416,749 | 48 | 88,785 | |
| Elkhart | 17,762 | 1,655 | 36,523 | 49,953 | 165,071 | 1,322,173 | 274 | 1,148,982 | 84,945 | |
| Fayette | [107-206] | [1,531-1,864] | 1,385 | >2033 | 772 | 255 | D | 0 | 3,815 | does not include turkeys |
| Floyd | 0 | 1,016 | 681 | >1036 | 429 | D | 0 | D | 1,848 | does not include broilers, ducks |
| Fountain | 50 | 2,217 | 1,409 | >1152 | 1,045 | 351 | 17 | 8 | 3,618 | |

| County | Dairy Cows | Beef Cattle | Other Cows | Total Pigs | Layers | Broilers | Turkeys | Ducks | Animal Unit Estimation | Animal Unit Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Franklin | 737 | 4,378 | 5,308 | 14,122 | 1,426 | D | 28 | 158 | 14,276 | does not include broilers |
| Fulton | 2,798 | 1,488 | 4,469 | 27,229 | 870 | 291 | 89 | D | 19,000 | does not include ducks |
| Gibson | 1,992 | 1,193 | 2,998 | 16,244 | 1,106 | 66 | D | D | 12,301 | does not include turkey, ducks |
| Grant | >500 | [567-616] | 600 | 17,067 | 663 | D | D | D | 8,516 | does not include broilers, turkeys, ducks |
| Greene | 265 | 5,953 | 5,110 | >2,366 | 2,307 | D | 372,505 | 12 | 17,833 | does not include broilers |
| Hamilton | 7 | [797-944] | 1,792 | 5,806 | 1,065 | 110 | 69 | 41 | 4,376 | |
| Hancock | 8 | 968 | 573 | 43,675 | 1,480 | 499 | 84 | 1,834 | 18,866 | |
| Harrison | 297 | 7,592 | 11,575 | >1,190 | 2,316 | D | D | 153 | 15,478 | does not include broilers, turkeys |
| Hendricks | 101 | 1,624 | 1,558 | 13,316 | 1,086 | 308 | D | 47 | 8,052 | does not include turkeys |
| Henry | 3,390 | 2,101 | 5,616 | >2,376 | 892 | D | D | 0 | 11,185 | does not include broilers, turkeys, ducks |
| Howard | 479 | 492 | 1,969 | 69,036 | 1,788 | 36 | 522 | D | 30,005 | does not include ducks |
| Huntington | 3,307 | 819 | 3,863 | 39,393 | 225,836 | 836 | D | 26 | 28,049 | does not include turkeys |
| Jackson | 1,359 | 3,239 | 6,274 | 45,200 | [180,685-395402] | 54 | 58 | 10 | 34,896 | |
| Jasper | 21,248 | 1,433 | 19,084 | 28,853 | 579 | D | 22 | 46 | 54,185 | does not include broilers |
| Jay | 1,894 | 960 | 8,140 | 166,217 | 2,751,524 | 238 | 294,704 | 83,021 | 137,570 | |
| Jefferson | 424 | 3,542 | 2,933 | >1,222 | 1,193 | 468 | 159 | 8 | 6,416 | |
| Jennings | 168 | 2,859 | 3,269 | 24,435 | >100,543 | 165 | 21 | 58 | 16,844 | |
| Johnson | >552 | [1,457-1,753] | 2,835 | 4,975 | 887 | 90 | D | 36 | 6,236 | does not include turkeys |
| Knox | [150-298] | [1,604-1,703] | 1,574 | 25,550 | 378 | D | 158,750 | 0 | 16,467 | does not include broilers |
| Kosciusko | 3,940 | 2,068 | 16,472 | 74,272 | >210,525 | D | 383 | 159,242 | 54,579 | |
| LaGrange | 14,412 | 2,604 | 58,895 | 27,951 | 370,765 | 1,651,507 | 325 | 305,580 | 99,347 | |
| Lake | 434 | 505 | 555 | 175 | 691 | 0 | D | 428 | 1,538 | does not include turkeys |
| LaPorte | 6,044 | 1,282 | 8,134 | 169,248 | 1,045 | 216 | 122 | 59 | 82,350 | |
| Lawrence | 250 | 7,824 | 6,191 | 68 | 926 | D | D | 104 | 11,936 | does not include broilers, turkeys |
| Madison | >542 | [1,297-1,477] | 1,654 | 10,810 | 802 | 114 | 58 | 260 | 7,576 | |
| Marion | 0 | 169 | 127 | 6 | 214 | D | 0 | D | 252 | does not include broilers, ducks |
| Marshall | 7,057 | 2,187 | 7,576 | 3,797 | 2,789 | 1,942 | 213 | 20,320 | 18,617 | |
| Martin | [60-109] | [1,870-2,254] | 1,891 | 23,108 | [50,233-10,2213] | 424 | 379,592 | 0 | 22,425 | |
| Miami | 1,647 | 1,315 | 5,758 | 110,251 | 1,154 | 251 | 114 | 26 | 51,204 | |

| County | Dairy Cows | Beef Cattle | Other Cows | Total Pigs | Layers | Broilers | Turkeys | Ducks | Animal Unit Estimation | Animal Unit Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Monroe | [20-49] | [2,835-3,134] | 2,346 | 223 | 3,192 | D | 33 | 97 | 4,766 | does not include broilers |
| Montgomery | [50-99] | [1,843-2,041] | 2,609 | 65,598 | 2,560 | 50 | D | 98 | 30,038 | does not include turkeys |
| Morgan | 113 | 2,518 | 2,025 | 3,152 | 1,171 | 37 | 28 | 79 | 5,178 | |
| Newton | >500 | 788 | 2,282 | 46,291 | >100,114 | D | D | D | 23,376 | does not include broilers, turkeys, ducks |
| Noble | 4,249 | 1,610 | 12,191 | 93,660 | [61,227-128,857] | 270,589 | 69 | 99,565 | 59,613 | does include broilers |
| Ohio | [120-248] | [1,162-1,472] | 842 | [1, 24] | 264 | D | 34 | 11 | 2,340 | does not include broilers, turkeys |
| Orange | 60 | 3,745 | 3,480 | >2,489 | [50,385-10,2608] | D | D | 58 | 8,966 | does not include turkeys |
| Owen | [107-205] | [2,387-3,346] | 2,412 | >1,445 | 1,603 | 384 | D | 33 | 5,695 | |
| Parke | 2,071 | 2,016 | 4,574 | 327 | 4,328 | 3,001 | 166 | 194 | 7,914 | |
| Perry | 432 | 3,892 | 2,612 | 20,322 | 1,041 | D | D | 18 | 14,214 | does not include broilers, turkeys |
| Pike | 0 | 1,157 | 680 | 22,086 | 373 | 0 | 178,000 | 131 | 13,969 | |
| Porter | 839 | 957 | 3,111 | 6,340 | 759 | 294 | 132 | 105 | 6,557 | |
| Posey | 746 | 547 | 786 | 38,471 | 605 | D | D | 54 | 17,465 | does not include broilers, turkeys |
| Pulaski | >1120 | [597-754] | 3,158 | 28,099 | >100,015 | 320 | D | D | 17,460 | does not include turkeys, ducks |
| Putnam | 364 | 3,816 | 2,588 | 27,282 | 2,369 | 24 | 107 | 63 | 16,842 | |
| Randolph | 2,095 | 1,955 | 3,210 | 177,605 | 1,157 | 197 | 96,570 | 170 | 79,816 | |
| Ripley | 571 | 4,114 | 4,437 | 32,351 | 1,780 | 313 | D | 108 | 20,557 | does not include turkeys |
| Rush | 1,225 | 2,610 | 11,102 | 128,505 | 924 | 376 | D | D | 62,410 | does not include turkeys, ducks |
| St. Joseph | 1,726 | 817 | 2,674 | 24,034 | [40,550-104,041] | 707 | 82 | 249 | 1,683 | |
| Scott | [1, 9] | [806-1,192] | 756 | 39 | 453 | 15 | D | 0 | 15,300 | does not include turkeys |
| Shelby | 588 | 1,117 | 1,775 | 30,687 | 954 | D | 14 | 50 | 27,074 | does not include broilers |
| Spencer | 427 | 5,505 | 4,811 | 33,368 | [3,380-11,967] | D | 224,900 | D | 35,268 | does not include broiler, ducks |
| Starke | [102-217] | [340-438] | 976 | 163 | 884 | 223 | 10 | D | 1,413 | does not include ducks |
| Steuben | 1,682 | 1,274 | 5,907 | >1,095 | 877 | 160 | D | D | 7,630 | does not include turkeys, ducks |
| Sullivan | [1-9] | [1,389-1,920] | 1,201 | 40,475 | 720 | 0 | 82,002 | D | 20,498 | does not include ducks |
| Switzerland | 324 | 2,280 | 1,321 | [546-1,045] | 886 | 72 | 16 | 0 | 3,963 | |
| Tippecanoe | [226-525] | [2,198-2,895] | 1,812 | 35,072 | 3,097 | 164 | 325 | 73 | 18,818 | |
| Tipton | [100-199] | [305-461] | 942 | 65,854 | >100,173 | 62 | D | 0 | 29,650 | does not include turkeys |
| Union | [40-98] | [1,191-1,487] | 1,390 | >2,037 | 309 | 0 | 0 | 0 | 3,279 | |

| County | Dairy Cows | Beef Cattle | Other Cows | Total Pigs | Layers | Broilers | Turkeys | Ducks | Animal Unit Estimation | Animal Unit Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Vanderburgh | 88 | 256 | 321 | 2,326 | >100,172 | 58 | D | 17 | 3,507 | does not include turkey |
| Vermillion | 0 | 1,621 | 1,605 | 40,736 | 496 | 0 | 7 | 18 | 18,889 | |
| Vigo | 58 | 835 | 642 | 189 | 785 | D | D | 9 | 1,393 | does not include broilers, turkeys |
| Wabash | 2,015 | 1,228 | 9,231 | 140,149 | >100,534 | D | 16 | 31 | 67,659 | does not include broilers |
| Warren | [201-508] | [1325-1645] | 1,192 | >1,002 | 298 | 21 | 40 | D | 3,479 | does not include ducks |
| Warrick | [22-67] | [1170-1568] | 1,414 | 4,420 | 442 | D | D | D | 4,287 | does not include broilers, turkeys, ducks |
| Washington | 843 | 7,625 | 7,261 | 10,540 | 146,238 | 2,272,684 | 185,512 | 42 | 46,740 | |
| Wayne | 2,710 | 2,630 | 5,671 | 15,073 | 4,327 | 828 | 94 | 10 | 15,953 | |
| Wells | 3,025 | 261 | 4,192 | 103,160 | 352,378 | 297 | D | D | 55,326 | does not include turkeys, ducks |
| White | 339 | 2,005 | 5,632 | 199,411 | >100,032 | 408 | 14 | 14 | 87,628 | |
| Whitley | 821 | 753 | 2,733 | 44,164 | [20,660-54,529] | 547 | 70 | 14,074 | 22,587 | |

**Table 4. Factors that could Affect CFO Siting in Indiana: Buffer Requirements in Addition to any IDEM Requirements[1]**

| | Buffer Requirements (ft.) | | | | | |
|---|---|---|---|---|---|---|
| **County** | **Residences[2]** | **Municipalities** | **Religious Institutions** | **Schools** | **Recreational Areas** | **Businesses** |
| Adams | 600 | | 1,000 | 1,000 | | |
| Allen | 1,320 | 1,320 | 1,320 | 1,320 | 1,320 | |
| Bartholomew | | | | | | |
| Benton | 500 | | | | 500 | |
| Blackford | 750 | | | | | |
| Boone | 1,320 | | | | | |
| Brown | | | | | | |
| Carroll | 800 | 3,960 | 1,500 | 1,500 | 1,500 | |
| Cass | 1,320 | 2,640 | 1,320 | 1,320 | 1,320 | 1,320 |
| Clark | | | | | | |
| Clay | | | | | | |
| Clinton | 1,320 | 5,280 | 1,320 | 5,280 | 1,320 | 1,320 |
| Crawford | | | | | | |
| Daviess | | | | | | |
| Dearborn | | | | | | |
| Decatur | | | | | | |
| DeKalb | | | | | | |
| Delaware | | | | | | |
| Dubois | | | | | | |
| Elkhart | | | | | | |
| Fayette | 1,620 | 5,280 | 5,280 | 5,280 | 5,280 | |
| Floyd | 1,000 | | | | | |
| Fountain | | | | | | |
| Franklin | | | | | | |
| Fulton | | 5,280 | | | | |
| Gibson | | | | | | |
| Grant | 1,320 | 1,320 | | 5,280 | 1,320 | 10,560 |
| Greene | | | | | | |
| Hamilton | | | | | | |
| Hancock | 750 | | | | | |

| County | Residences* | Municipalities | Religious Institutions | Schools | Recreational Areas | Businesses |
|---|---|---|---|---|---|---|
| Harrison | | | | | | |
| Hendricks | | | | | | |
| Henry | 800 | 2,640 | 1,320 | 2,640 | 2,640 | 1,320 |
| Howard | | | | | | |
| Huntington | | | | 1,000 | | 1,000 |
| Jackson | 500 | 5,280 | 1,000 | 1,000 | 1,000 | |
| Jasper | | | | | | |
| Jay | 750 | 5,280 | 1,250 | 1,250 | 5,280 | 1,250 |
| Jefferson | 660 | | | | | |
| Jennings | 1,000 | | | | | |
| Johnson | | | | | | |
| Knox | | | | | | |
| Kosciusko | | | | | | |
| LaGrange | | | | | | |
| Lake | | | | | | |
| LaPorte | | 5,280 | | | | |
| Lawrence | | | | | | |
| Madison | 500 | | | | | |
| Marion | | | | | | |
| Marshall | 1,320 | | | | | |
| Martin | | | | | | |
| Miami | 1,000 | 1,320 | 1,320 | 1,320 | | |
| Monroe | | | | | | |
| Montgomery | | | | | | |
| Morgan | 1,000 | 1,320 | 1,320 | 1,320 | | |
| Newton | 500 | | 1,320 | 1,320 | 1,320 | 1,320 |
| Noble | 500 | | 1,000 | 1,000 | 1,000 | |
| Ohio | | | | | | |
| Orange | | | | | | |
| Owen | | | | | | |
| Parke | | | | | | |
| Perry | | | | | | |
| Pike | | | | | | |
| Porter | | | | | | |

| County | Residences* | Municipalities | Religious Institutions | Schools | Recreational Areas | Businesses |
|---|---|---|---|---|---|---|
| Posey | 1,000 | 5,280 | 2,640 | 2,640 | 2,640 | |
| Pulaski | 1,320 | 5,280 | | | | 1,320 |
| Putnam | 500 | | 1,000 | 1,000 | 1,000 | 1,000 |
| Randolph | 870 | 5,280 | | 2,640 | | |
| Ripley | 1,320 | | 1,320 | 1,320 | | |
| Rush | 750 | | | 5,280 | | |
| Scott | | | | | | |
| Shelby | 1,300 | | 1,300 | 1,300 | 1,300 | 1,200 |
| Spencer | 900 | | 900 | 900 | 900 | 900 |
| St. Joseph | | 2,640 | | | | |
| Starke | | | | | | |
| Steuben | | | | | | |
| Sullivan | | | | | | |
| Switzerland | | | | | | |
| Tippecanoe | 1,000 | | 1,000 | 1,000 | | |
| Tipton | 1,320 | 5,280 | 1,320 | 5,280 | 1,320 | 1,320 |
| Union | | | | | | |
| Vanderburgh | | | | | | |
| Vermillion | | | | | | |
| Vigo | | | | | | |
| Wabash | | 1,600 | 1,600 | 2,640 | 1,600 | |
| Warren | | | | | | |
| Warrick | | | | | | |
| Washington | 600 | | 750 | 3,960 | | |
| Wayne | 660 | | | | 660 | 660 |
| Wells | 800 | 5,280 | 2,640 | 5,280 | | 2,640 |
| White | 1,320 | 5,280 | | | | 1,320 |
| Whitley | | | | | | |

[1]*These uses are defined the local ordinance. In many cases, the buffers may have exceptions or specific qualifications. Please see the county factsheets for footnotes on individual buffers.*

[2]*IDEM requires a 400ft. setback from nearest residence.*

**Table 5. Factors that could Affect CFO Siting in Indiana: Violations**

| County | Permitted Farms | IDEM Enforcements | IDEM Enforcements/Farm | OISC Investigations w. Violations | Total OISC Violations | OISC Violations/farm | Anon/Res Complaints | Anon/Res Complaints/Farm |
|---|---|---|---|---|---|---|---|---|
| Adams | 62 | 5 | 0.08 | 2 | 4 | 0.06 | 4 | 0.06 |
| Allen | 13 | 1 | 0.08 | 5 | 8 | 0.62 | 3 | 0.23 |
| Bartholomew | 10 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Benton | 9 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Blackford | 7 | 0 | 0.00 | 1 | 3 | 0.43 | 1 | 0.14 |
| Boone | 9 | 0 | 0.00 | 1 | 3 | 0.33 | 1 | 0.11 |
| Brown | 1 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Carroll | 94 | 8 | 0.09 | 2 | 3 | 0.03 | 0 | 0.00 |
| Cass | 35 | 0 | 0.00 | 1 | 1 | 0.03 | 1 | 0.03 |
| Clark | 2 | 0 | 0.00 | 2 | 8 | 4.00 | 1 | 0.50 |
| Clay | 8 | 6 | 0.75 | 0 | 0 | 0.00 | 0 | 0.00 |
| Clinton | 42 | 5 | 0.12 | 1 | 1 | 0.02 | 1 | 0.02 |
| Crawford | 1 | 0 | 0.00 | 1 | 2 | 2.00 | 1 | 1.00 |
| Daviess | 49 | 11 | 0.22 | 4 | 6 | 0.12 | 2 | 0.04 |
| Dearborn | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Decatur | 71 | 7 | 0.10 | 3 | 4 | 0.06 | 0 | 0.00 |
| DeKalb | 12 | 5 | 0.42 | 3 | 6 | 0.50 | 3 | 0.25 |
| Delaware | 6 | 0 | 0.00 | 1 | 1 | 0.17 | 1 | 0.17 |
| Dubois | 89 | 2 | 0.02 | 9 | 9 | 0.10 | 8 | 0.09 |
| Elkhart | 41 | 3 | 0.07 | 1 | 1 | 0.02 | 1 | 0.02 |
| Fayette | 7 | 0 | 0.00 | 1 | 1 | 0.14 | 0 | 0.00 |
| Floyd | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Fountain | 4 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Franklin | 13 | 2 | 0.15 | 0 | 0 | 0.00 | 0 | 0.00 |
| Fulton | 17 | 0 | 0.00 | 0 | 0 | 0.00 | 3 | 0.18 |
| Gibson | 13 | 1 | 0.08 | 3 | 5 | 0.38 | 4 | 0.31 |
| Grant | 12 | 4 | 0.33 | 1 | 2 | 0.17 | 1 | 0.08 |
| Greene | 18 | 4 | 0.22 | 4 | 8 | 0.44 | 4 | 0.22 |
| Hamilton | 8 | 0 | 0.00 | 0 | 0 | 0.00 | 1 | 0.13 |
| Hancock | 15 | 6 | 0.40 | 2 | 2 | 0.13 | 1 | 0.07 |
| Harrison | 11 | 0 | 0.00 | 1 | 2 | 0.18 | 1 | 0.09 |

| County | Permitted Farms | IDEM Enforcements | IDEM Enforcements/Farm | OISC Investigations w. Violations | Total OISC Violations | OISC Violations/farm | Anon/Res Complaints | Anon/Res Complaints/Farm |
|---|---|---|---|---|---|---|---|---|
| Hendricks | 4 | 0 | 0.00 | 1 | 1 | 0.25 | 0 | 0.00 |
| Henry | 9 | 7 | 0.78 | 1 | 1 | 0.11 | 1 | 0.11 |
| Howard | 38 | 6 | 0.16 | 1 | 2 | 0.05 | 1 | 0.03 |
| Huntington | 19 | 13 | 0.68 | 1 | 1 | 0.05 | 2 | 0.11 |
| Jackson | 15 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Jasper | 40 | 10 | 0.25 | 1 | 2 | 0.05 | 4 | 0.10 |
| Jay | 96 | 10 | 0.10 | 12 | 13 | 0.14 | 10 | 0.10 |
| Jefferson | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Jennings | 11 | 1 | 0.09 | 0 | 0 | 0.00 | 0 | 0.00 |
| Johnson | 5 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Knox | 16 | 0 | 0.00 | 1 | 1 | 0.06 | 1 | 0.06 |
| Kosciusko | 74 | 1 | 0.01 | 1 | 2 | 0.03 | 3 | 0.04 |
| LaGrange | 33 | 12 | 0.36 | 0 | 0 | 0.00 | 0 | 0.00 |
| Lake | 1 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| LaPorte | 19 | 5 | 0.26 | 1 | 1 | 0.05 | 1 | 0.05 |
| Lawrence | 4 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Madison | 10 | 8 | 0.80 | 0 | 0 | 0.00 | 1 | 0.10 |
| Marion | 1 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Marshall | 12 | 6 | 0.50 | 2 | 3 | 0.25 | 2 | 0.17 |
| Martin | 22 | 4 | 0.18 | 1 | 2 | 0.09 | 2 | 0.09 |
| Miami | 47 | 3 | 0.06 | 0 | 0 | 0.00 | 4 | 0.09 |
| Monroe | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Montgomery | 16 | 1 | 0.06 | 0 | 0 | 0.00 | 0 | 0.00 |
| Morgan | 6 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Newton | 14 | 1 | 0.07 | 0 | 0 | 0.00 | 0 | 0.00 |
| Noble | 24 | 7 | 0.29 | 0 | 0 | 0.00 | 0 | 0.00 |
| Ohio | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Orange | 8 | 0 | 0.00 | 1 | 1 | 0.13 | 1 | 0.13 |
| Owen | 1 | 0 | 0.00 | 1 | 1 | 1.00 | 1 | 1.00 |
| Parke | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Perry | 9 | 1 | 0.11 | 9 | 17 | 1.89 | 16 | 1.78 |
| Pike | 8 | 0 | 0.00 | 9 | 18 | 2.25 | 13 | 1.63 |

| County | Permitted Farms | IDEM Enforcements | IDEM Enforcements/Farm | OISC Investigations w. Violations | Total OISC Violations | OISC Violations/farm | Anon/Res Complaints | Anon/Res Complaints/Farm |
|---|---|---|---|---|---|---|---|---|
| Porter | 1 | 0 | 0.00 | 0 | 0 | 0.00 | 1 | 1.00 |
| Posey | 7 | 7 | 1.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Pulaski | 27 | 3 | 0.11 | 2 | 2 | 0.07 | 3 | 0.11 |
| Putnam | 10 | 1 | 0.10 | 0 | 0 | 0.00 | 0 | 0.00 |
| Randolph | 45 | 1 | 0.02 | 8 | 13 | 0.29 | 5 | 0.11 |
| Ripley | 17 | 1 | 0.06 | 2 | 2 | 0.12 | 2 | 0.12 |
| Rush | 49 | 10 | 0.20 | 0 | 0 | 0.00 | 0 | 0.00 |
| Scott | 0 | 0 | 0.00 | 1 | 1 | 0.00 | 0 | 0.00 |
| Shelby | 17 | 0 | 0.00 | 1 | 1 | 0.06 | 0 | 0.00 |
| Spencer | 21 | 1 | 0.05 | 2 | 7 | 0.33 | 6 | 0.29 |
| St. Joseph | 11 | 11 | 1.00 | 3 | 3 | 0.27 | 4 | 0.36 |
| Starke | 4 | 3 | 0.75 | 0 | 0 | 0.00 | 0 | 0.00 |
| Steuben | 5 | 5 | 1.00 | 0 | 0 | 0.00 | 1 | 0.20 |
| Sullivan | 5 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Switzerland | 0 | 2 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Tippecanoe | 26 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Tipton | 18 | 0 | 0.00 | 0 | 0 | 0.00 | 1 | 0.06 |
| Union | 7 | 3 | 0.43 | 2 | 3 | 0.43 | 1 | 0.14 |
| Vanderburgh | 1 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Vermillion | 4 | 0 | 0.00 | 1 | 2 | 0.50 | 2 | 0.50 |
| Vigo | 3 | 0 | 0.00 | 1 | 2 | 0.67 | 4 | 1.33 |
| Wabash | 77 | 12 | 0.16 | 2 | 2 | 0.03 | 2 | 0.03 |
| Warren | 6 | 4 | 0.67 | 0 | 0 | 0.00 | 0 | 0.00 |
| Warrick | 2 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0.00 |
| Washington | 37 | 1 | 0.03 | 0 | 0 | 0.00 | 0 | 0.00 |
| Wayne | 8 | 8 | 1.00 | 2 | 3 | 0.38 | 2 | 0.25 |
| Wells | 42 | 17 | 0.40 | 8 | 13 | 0.31 | 10 | 0.24 |
| White | 65 | 4 | 0.06 | 0 | 0 | 0.00 | 0 | 0.00 |
| Whitley | 30 | 1 | 0.03 | 1 | 4 | 0.13 | 3 | 0.10 |