

PURDUE UNIVERSITY EXTENSION

IDEM and OISC Enforcements and Violations by Species or Manure Source

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Center for Regional Development
Advancing Collaboration : Energizing Regions

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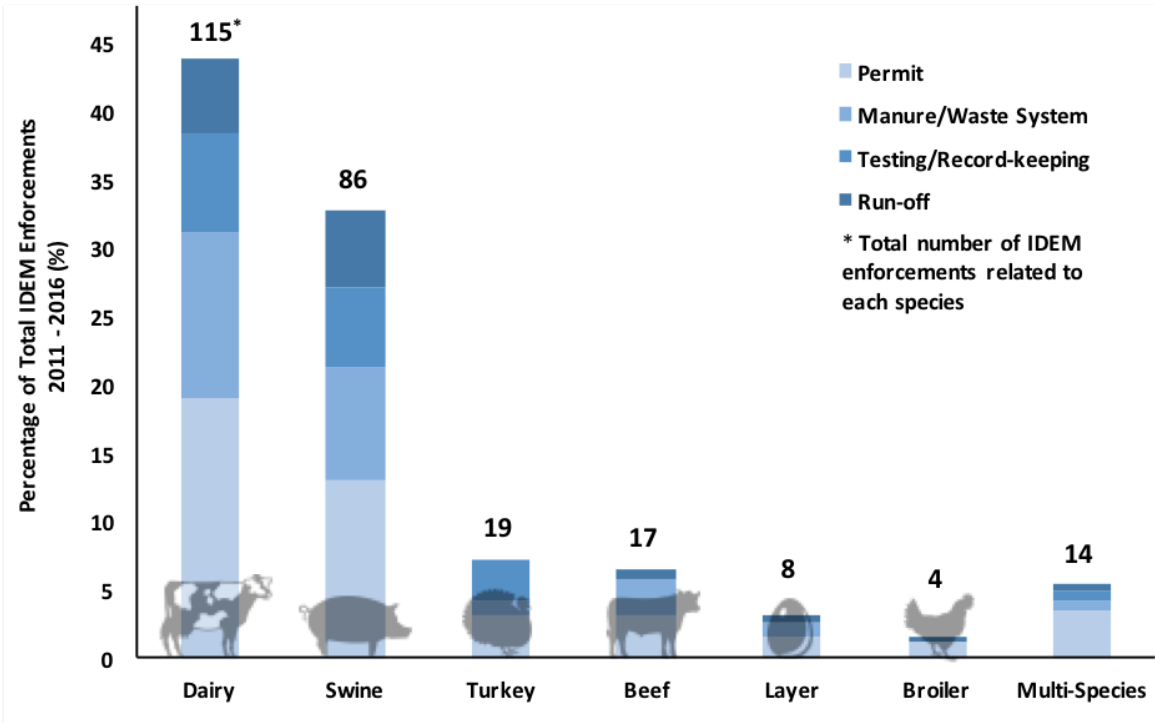
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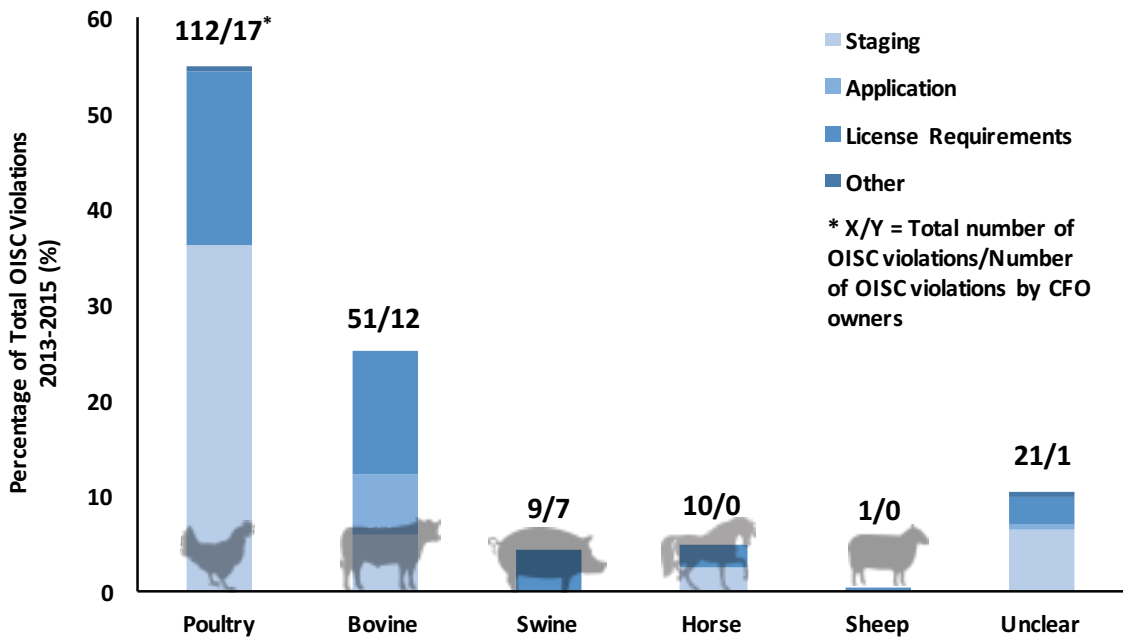
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A.



B.



Graph Details and Data Sources

Graph A shows the breakdown by species of Indiana Department of Environment Management (IDEM) enforcements made to confined feeding operations (CFOs) over a five-year period (2011 – 2016). Enforcements were characterized into four main groups: permit related deficiencies, manure/waste system deficiencies, testing or record keeping deficiencies, or run-off events. Numbers above each bar show the total number of enforcements per species. Table 1 shows the numerical data used to create Graph A. Details on this characterization process can be found here:

<https://ag.purdue.edu/cfo> (“Purdue CFO Ordinance Research”)

Table 1. CFO-related IDEM Enforcements by species (2011 – 2016).

Species	Type of Enforcement				Total Enforcements
	Permit	Manure/Waste System	Testing/ Record-keeping	Run-off	
Dairy	50	30	19	13	112
Swine	34	22	15	15	86
Turkey	8	3	8	0	19
Beef	8	7	0	2	17
Layer	4	3	0	1	8
Broiler	3	0	0	1	4
Veal	0	2	0	1	3*
Multi-Species	9	2	2	0	13

**Veal enforcements are included in dairy enforcements in Graph A.*

Graph B shows the breakdown by manure source of Office of the Indiana State Chemist Violations involving manure over a 2.5-year period (2013 – 2015). Violations were characterized into four main groups: staging violations, application violations, license deficiencies, and other (e.g., failure to properly train employees). Table 2 shows the numerical data used to create Graph B. Numbers above each bar show the total number of violations per manure source and the number of violations by CFO owners. In numerous cases, manure may have originated from a CFO, but other individuals (applicators, distributors, etc.) were in violation of an OISC rule after the manure left the CFO. Those cases are not included as violations to CFO owners. Details on this characterization process can be found here:

<https://ag.purdue.edu/cfo> (“Purdue CFO Ordinance Research”)

Table 2. OISC Violations by Manure Source (2013 – 2015).

	Type of Violation				Total Violations
	Staging	Application	License Requirements	Other	
Poultry	74	0	37	1	112
Bovine	12	13	26	0	51
Swine	0	0	9	0	9
Horse	5	0	5	0	10
Sheep	0	0	1	0	1
Unclear	13	1	6	1	21

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For more information on CFOs in general, please visit:

<https://ag.purdue.edu/cfo>

