

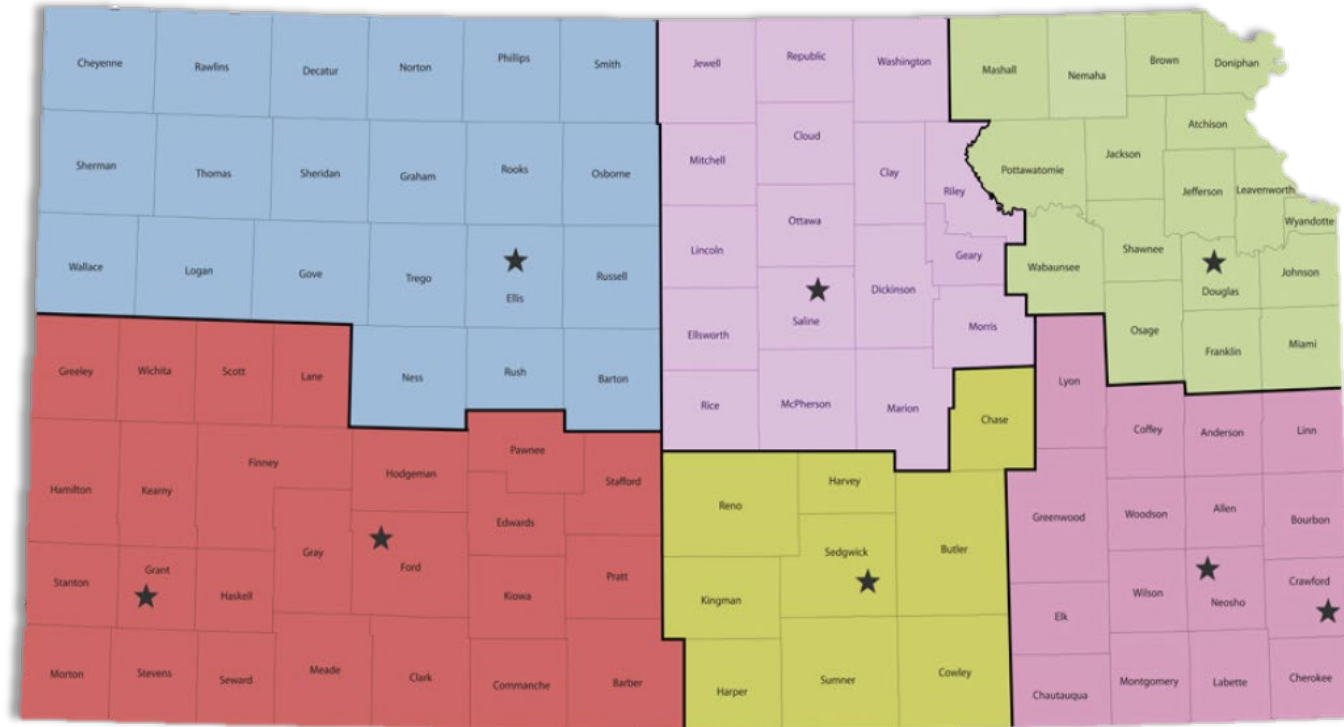


# Livestock Waste Management-Program Update

Casey Guccione | May 1, 2024

## Bureau of Environmental Field Services

- 6 District Offices
  - 9 Inspectors
- Central Office in Topeka
  - Engineering Review
  - Nutrient Management Review
  - Administrative



## Staffing Vacancy

- Professional Engineer

## Staffing progress!!!

- Additional Engineer hired while retaining contract Engineer. Allows us to review more projects.
- Hired a Geologist last year. Has provided huge benefit to address facility closures and properly review Groundwater monitoring wells.

**Mt.  
Sunflower  
4,039 feet...  
And still flat!**



## Northeast Kansas



### Pros

- Ample water
- Smaller operations
- Able to take advantage of EQIP cost share
- Most populated region in state.

### Cons

- Too many people (more complaints)
- Shallow Groundwater
- More hilly terrain (buffer challenges)
- Numerous streams and intermittent streams

## Southeast Kansas



### Pros

- Usually Ample Surface water (Currently in severe drought)
- Smaller family facilities

### Cons

- Almost no Groundwater
- Rainfall is highest in state.
- Some challenges with communication

## South Central Kansas

### Pros

- Larger population with workforce potential.

### Cons

- Springs, Shallow Groundwater, & Equus Beds
- Sandy Soils
- Suburban expansion





## North Central Kansas



### Pros

- Good mix of soil type and groundwater depth.
- Large number of family farms.

### Cons

- Hilly terrain/sloped runoff
- Flood Plain

## Northwest Kansas

### Pros

- Rural area. Few complaints
- Very deep groundwater



### Cons

- Smaller Federal Facilities with limited help.
- Limited Water



## Southwest Kansas



### Pros

- Very deep groundwater
- Local Support
- Proximity to processing plants.
- Larger facilities with more employees.
- Flat topography

### Cons

- Sandy soil
- No Water(Surface and depleted Aquifer)

## Mass Mortality Events

- August 2023 – High heat led to significant losses. Unknown numbers unreported.
- Cal-Maine HPAI – December 2023. Approved burial for over 800,000 broilers.
- HPAI in some of our Dairy facilities.
- January 2024 – Rendering services(Darling) nearly halted for 2-3 weeks. Issues on-going.
- Additional guidance on Composting and Mesophilic Composting.

## Pre-Selected Emergency Livestock Disposal Site (PELD) for Foreign Animal Disease (FAD) Emergency Response

- Voluntary program coordinated by BWM and BEFS
- No changes to previously approved PELD sites
- Cannot be the same location as routine mortality handling

### BEFS

- Review new applications
- Verify existing PELD sites
- Issue conditional approval
- Provide field support

### BWM

- Issue Disposal Without a Permit (DWOP) based upon BEFS conditional approvals in the event of an actual FAD



## Anaerobic Digesters

- Seeing both Anaerobic lagoons and Tanks
- 12 permitted projects as of March 2024
- 4 at Dairy facilities and 8 at Swine
- 8 covered lagoons and 4 Tanks

# Permit Breakdown

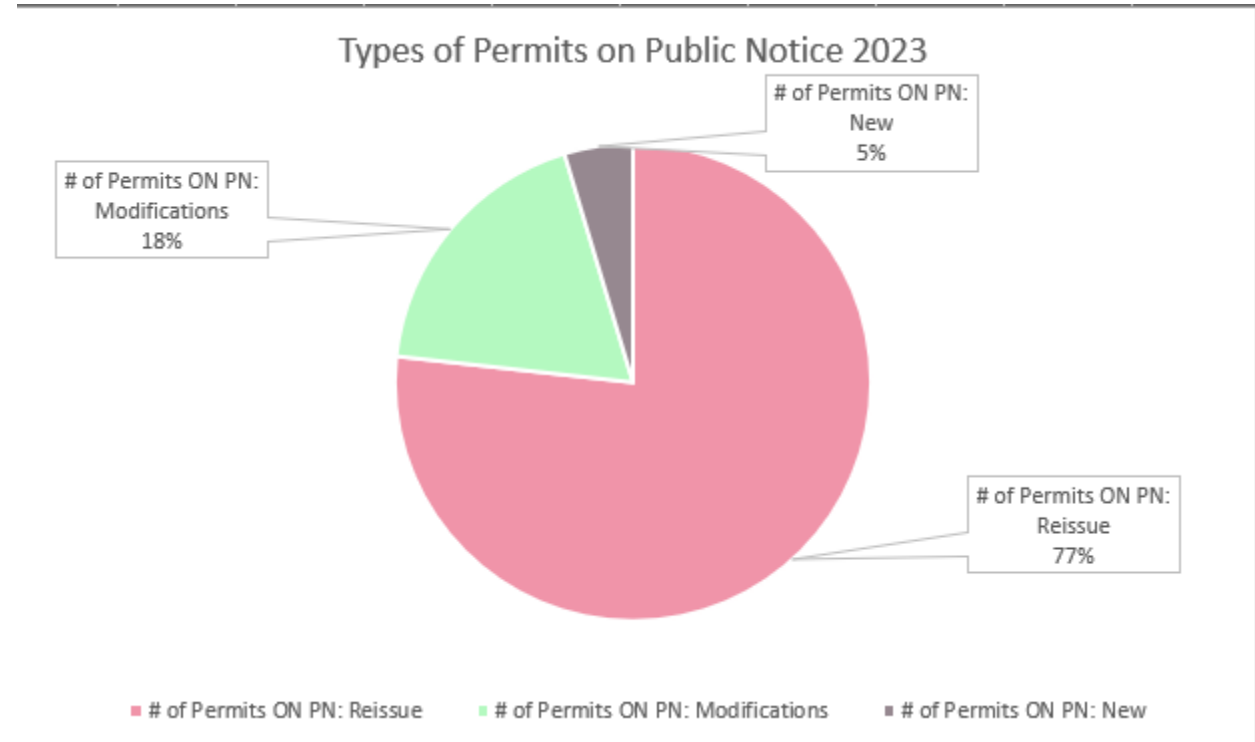
## Permit Renewals, Expansions and New Facilities

Totals by District					
	2019	2020	2021	2022	2023
NWDO	79	58	80	59	45
NCDO	99	54	87	51	44
NEDO	79	29	69	46	38
SWDO	101	94	51	87	101
SCDO	19	21	30	19	23
SEDO	20	20	19	19	20

Total Permits Issued by Year					
	2019	2020	2021	2022	2023
January	57	22	40	29	24
February	20	45	37	49	19
March	37	24	53	22	20
April	28	19	26	21	23
May	45	7	43	20	29
June	49	14	18	20	10
July	32	20	19	17	7
August	26	20	26	15	49
September	22	33	21	14	20
October	18	22	19	34	21
November	21	15	12	18	24
December	42	35	22	22	25
Total	397	276	336	281	271

## New Permits Issued

# of Permits <u>ON</u> PN: Reissue	# of Permits <u>ON</u> PN: Modifications	# of Permits <u>ON</u> PN: New	Months
15	2	0	January
17	5	0	February
17	5	1	March
9	6	2	April
18	6	1	May**
16	1	0	June**
47	10	4	July
17	5	1	August
11	2	0	September***
20	2	1	October
23	7	1	November
21	5	3	December
231	56	14	Total

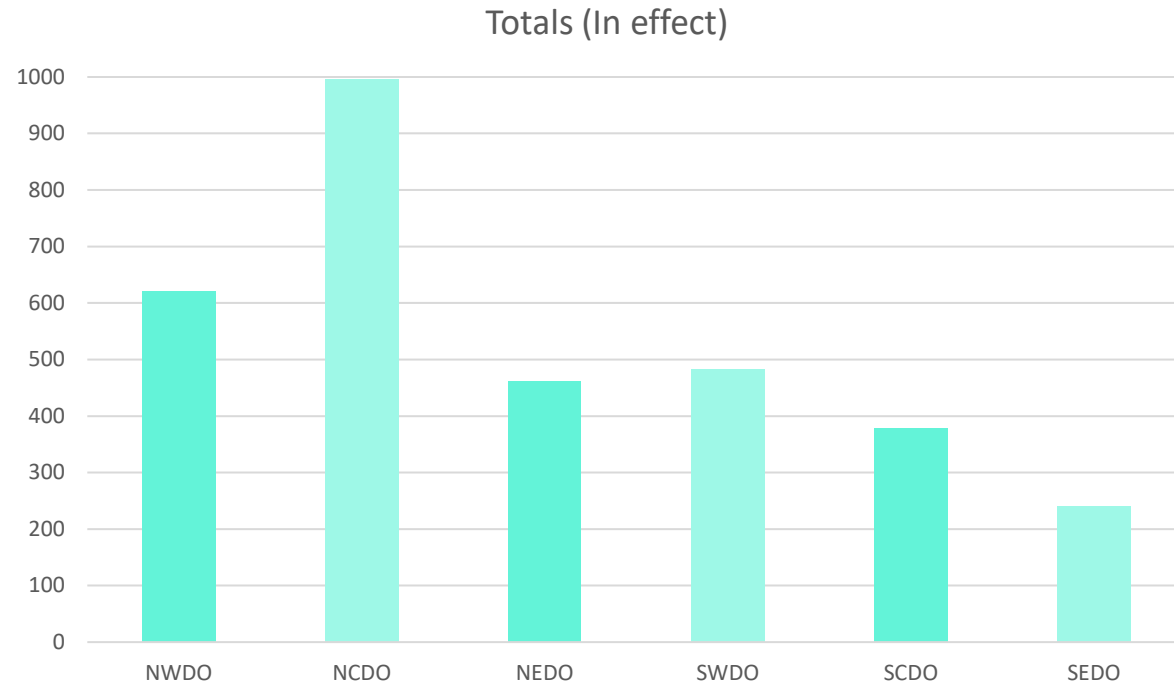




# Permit breakdown

## By District

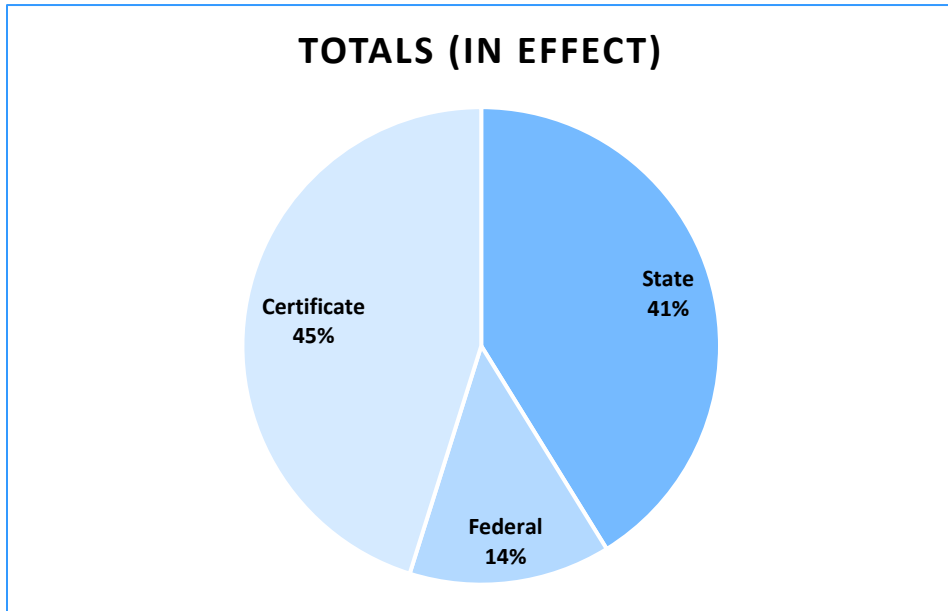
Totals (In effect)	
NWDO	620
NCDO	995
NEDO	462
SWDO	483
SCDO	378
SEDO	240
<b>ALL</b>	<b>3178</b>



# Kansas CAFO Designations

- <300 Animal Units & not a Significant Pollution Potential(SPP) >>>>Does not require any Registration.
- Exception >>> All swine facilities require registration
- **SMALL** = >300 & <1000 A.U. and not a SPP – Issued a Certificate of Compliance
- **MEDIUM** = <1000 A.U. and a SPP >>>>>Issued a State Permit
- **LARGE** = Meets EPA thresholds >>>>>Issued an NPDES Permit

## By Type



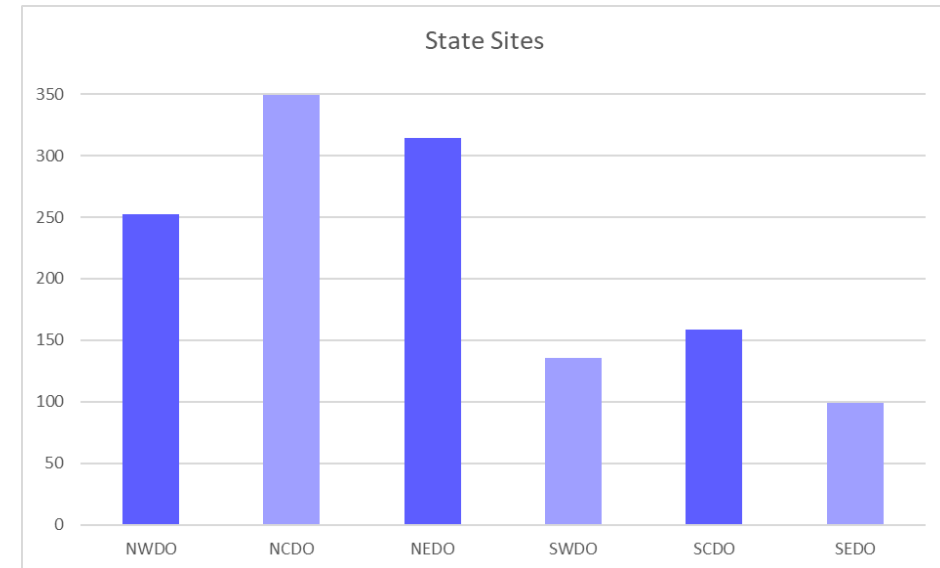
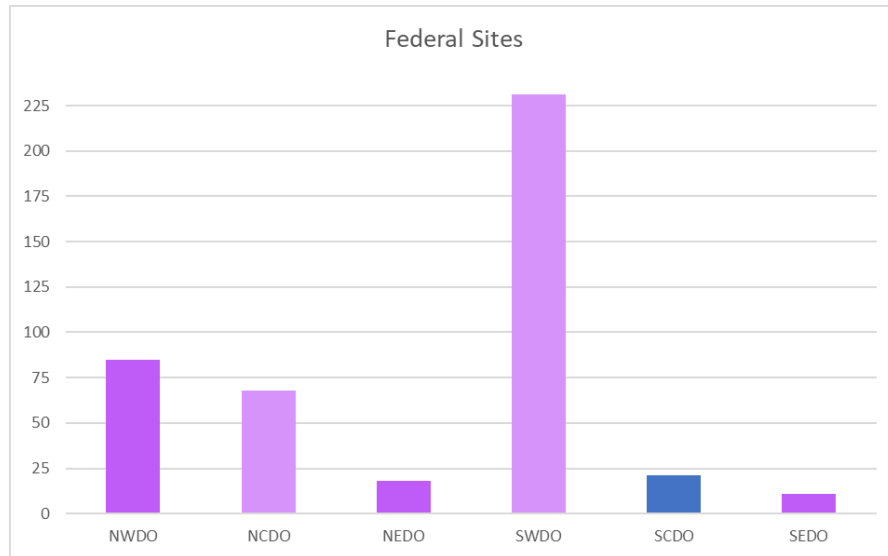
<b>Totals (all districts in effect)</b>			
State	1309	<b>ALL</b>	<b>3178</b>
Federal	434		
Certificate	1435		

# Permit breakdown

## By Type

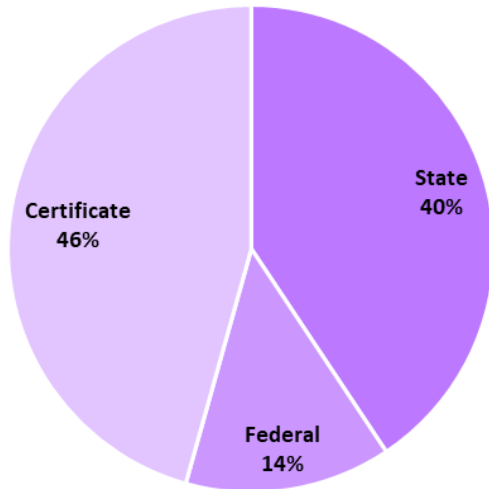
Federal Sites	
NWDO	85
NCDO	68
NEDO	18
SWDO	231
SCDO	21
SEDO	11
<b>ALL</b>	<b>434</b>

State Sites	
NWDO	252
NCDO	349
NEDO	314
SWDO	136
SCDO	159
SEDO	99
<b>ALL</b>	<b>1309</b>

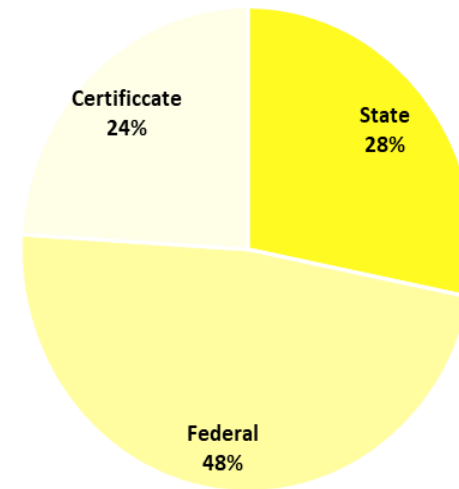


## District Breakdown

**NWDO SITE TYPES**

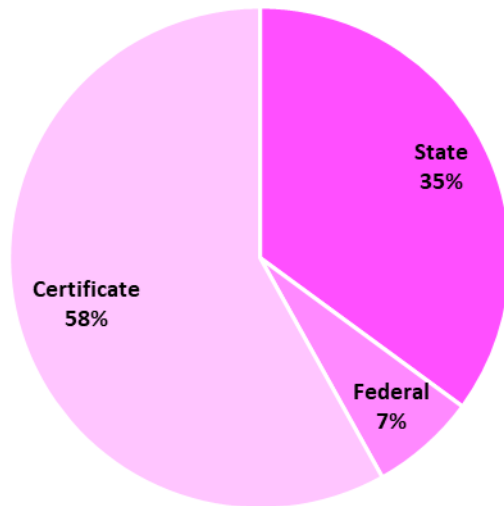


**SWDO SITE TYPES**

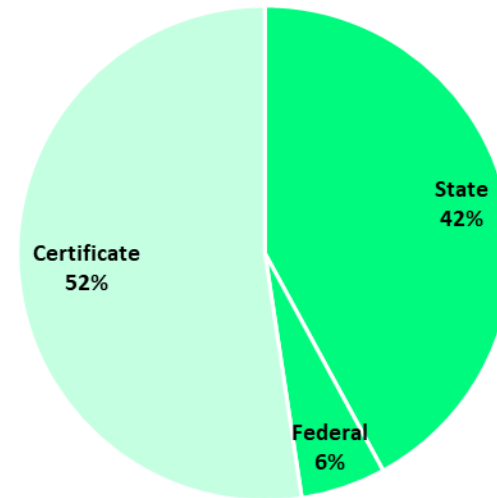


## District Breakdown

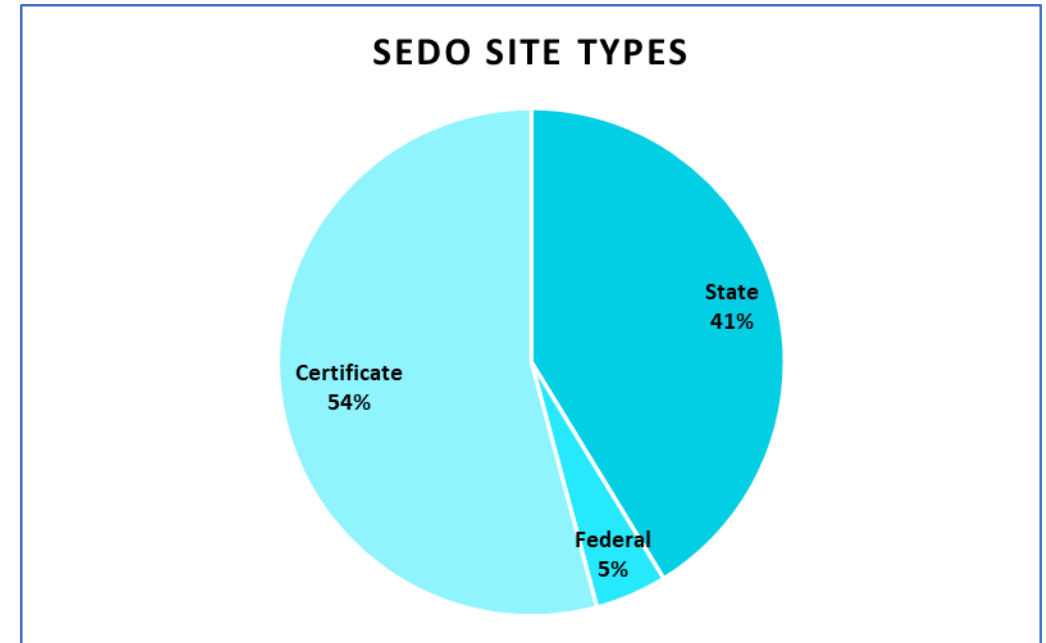
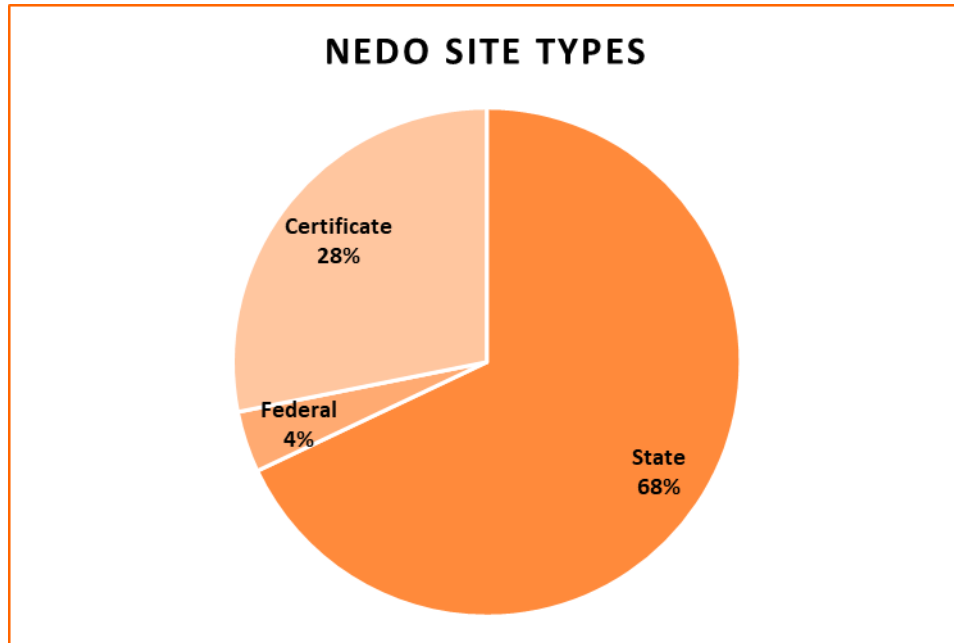
**NCDO SITE TYPES**



**SCDO SITE TYPES**

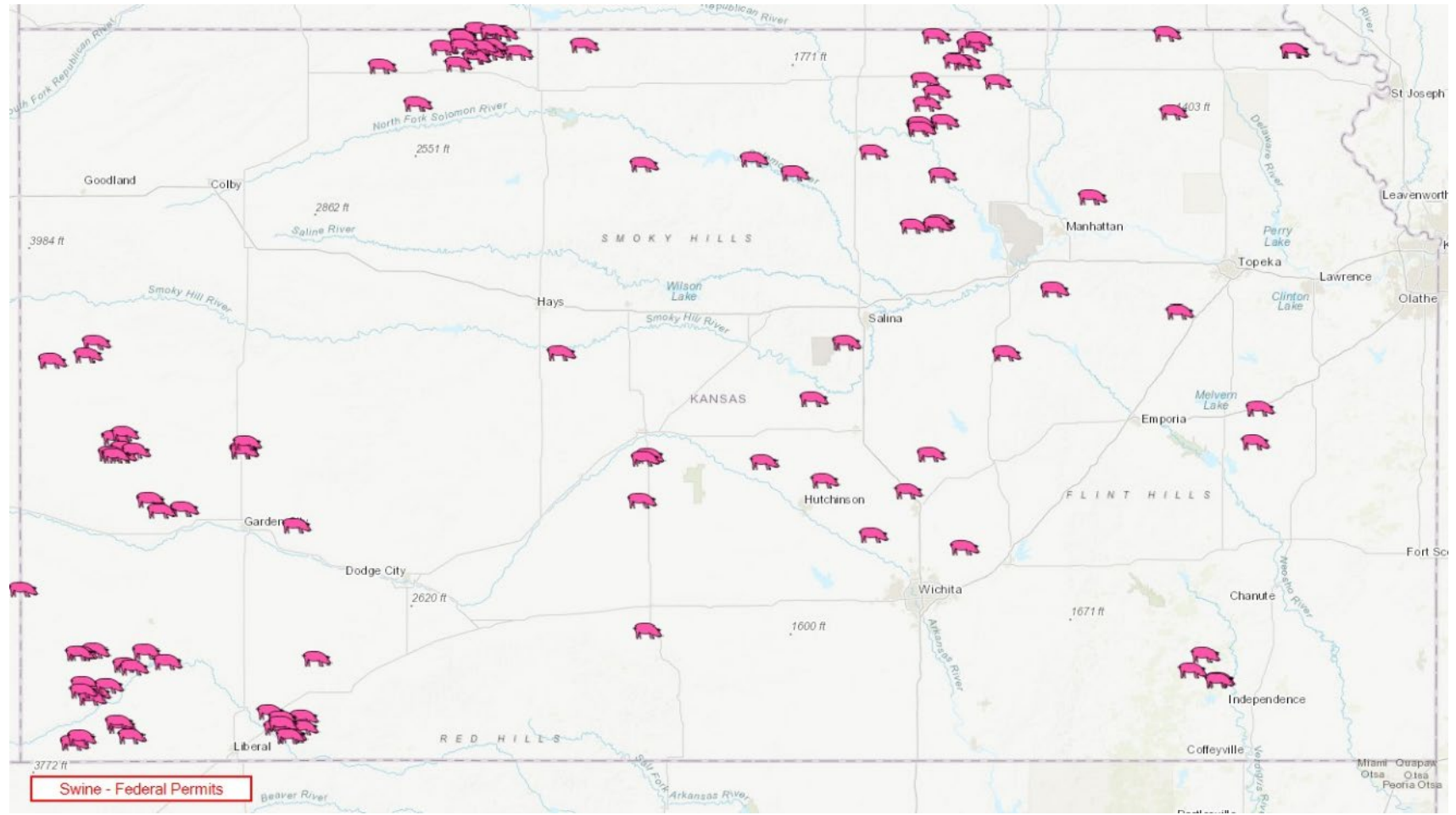


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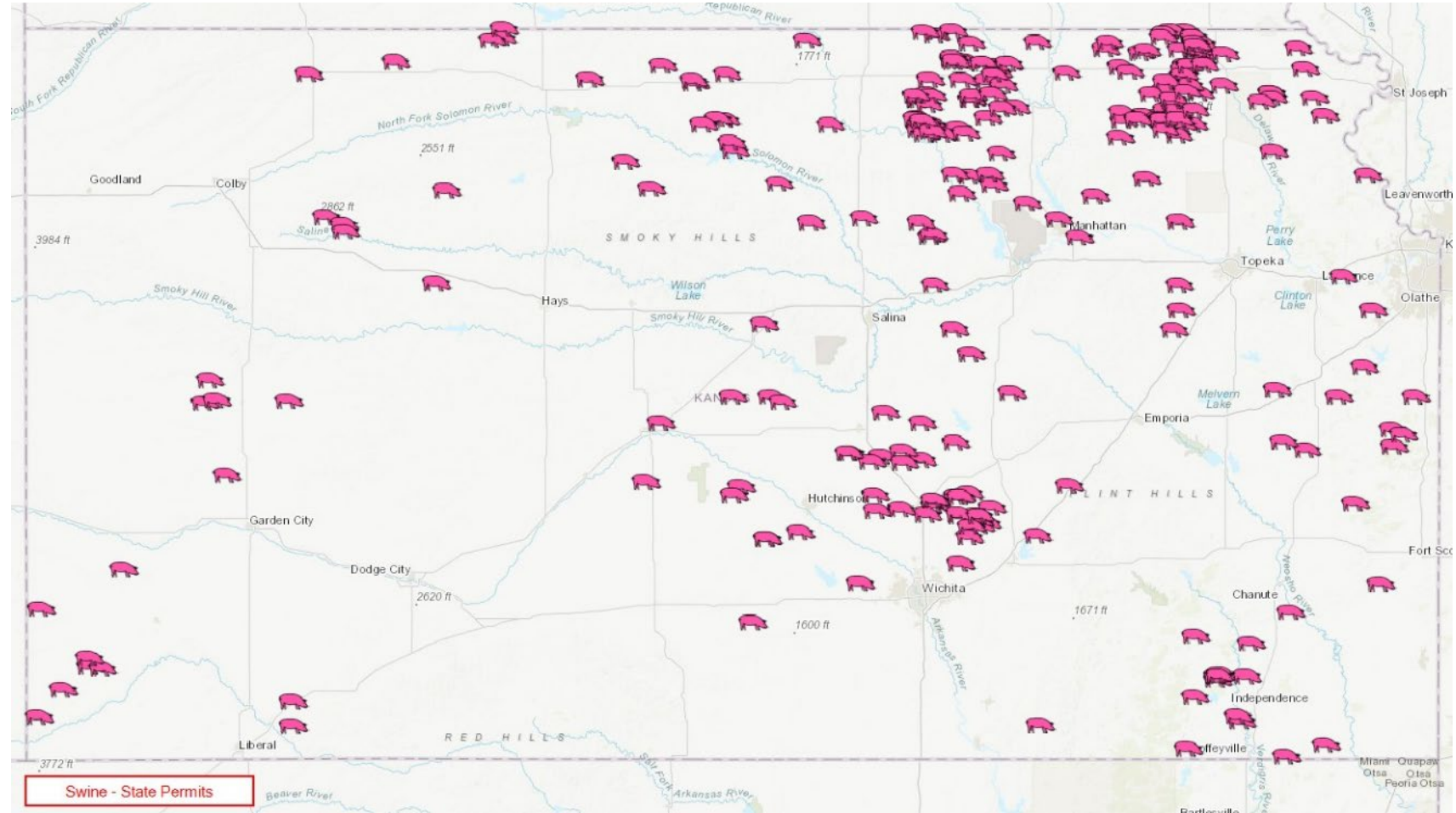
# Permit breakdown

## By Animal



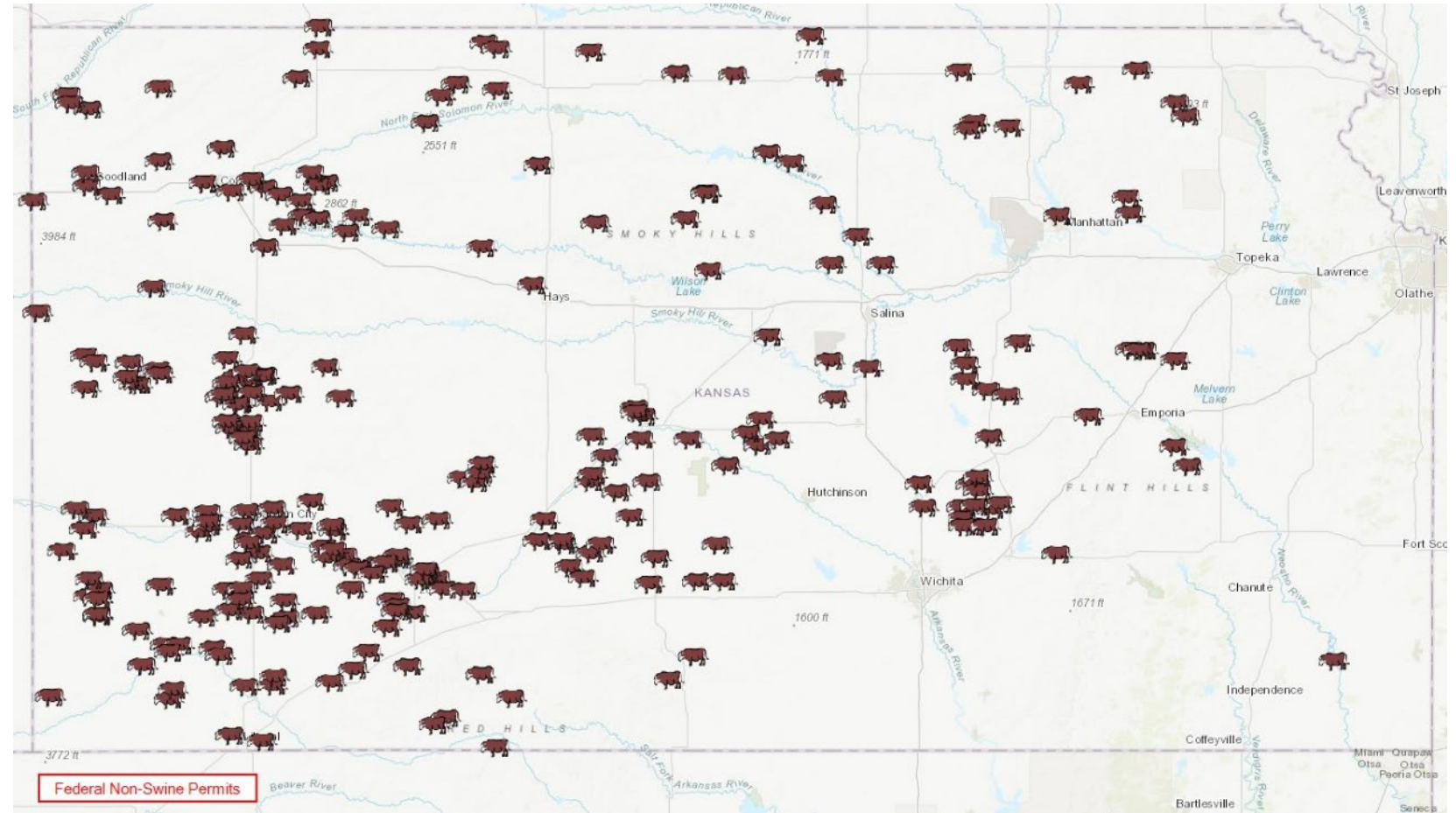


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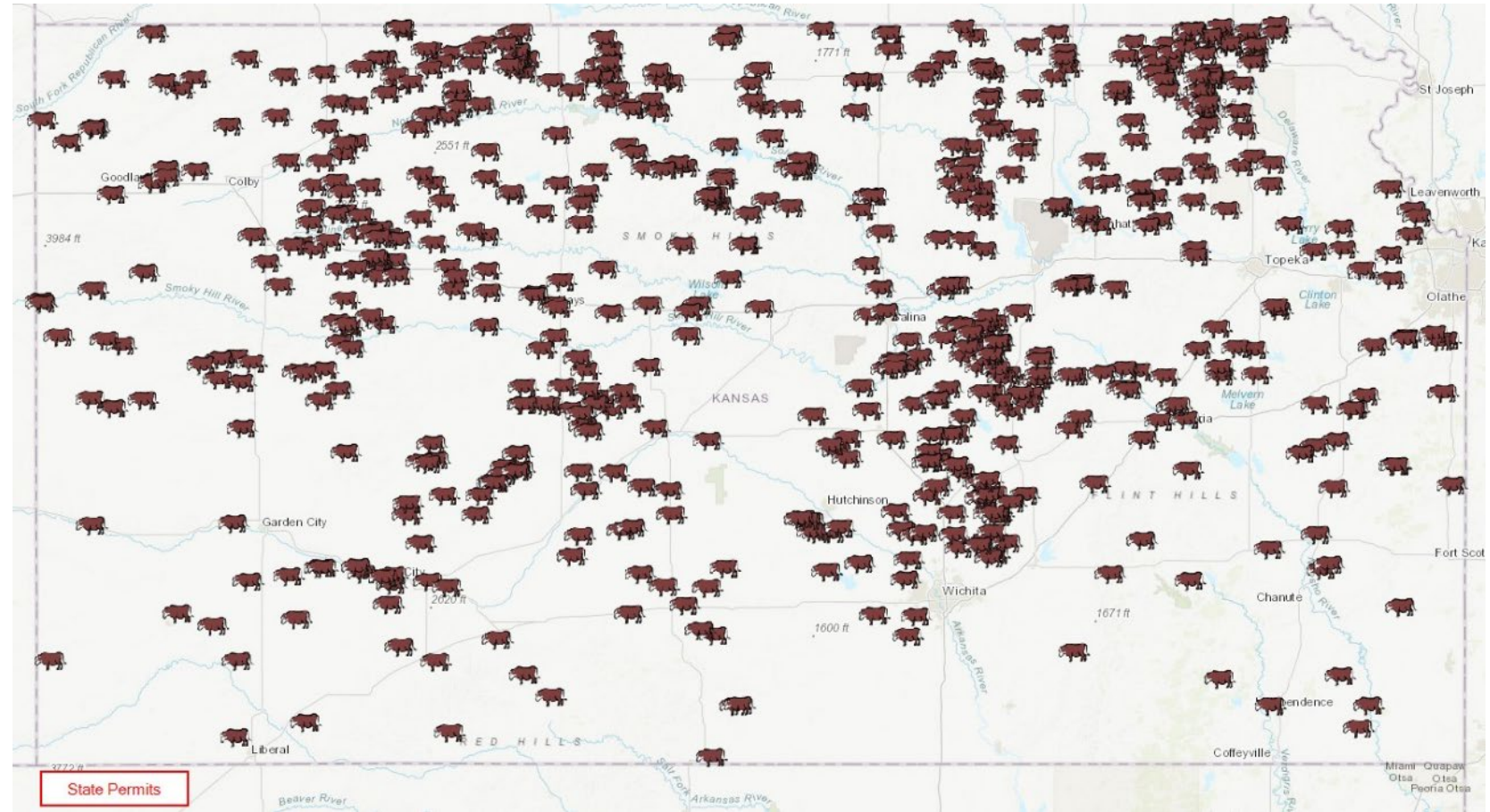


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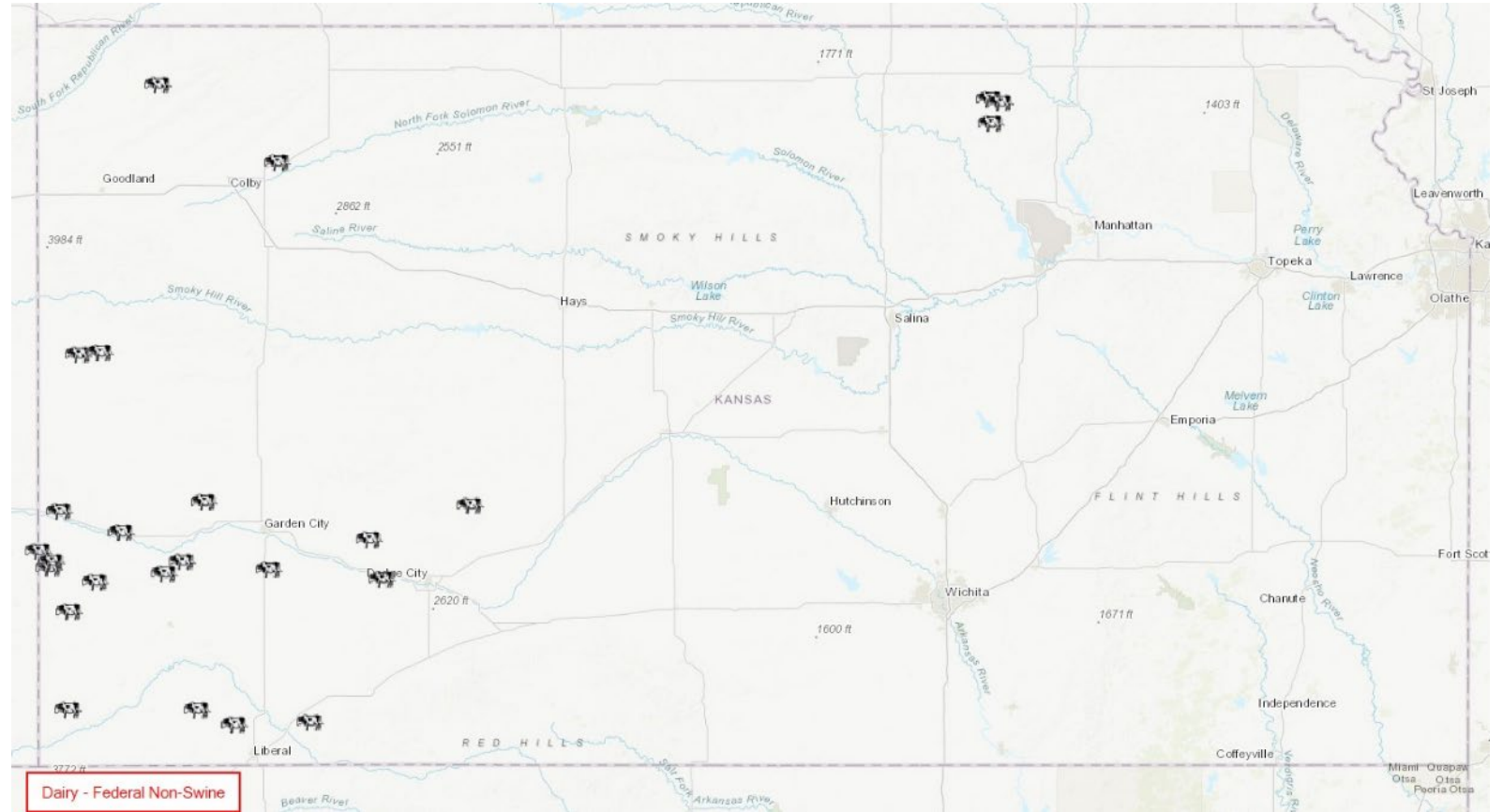
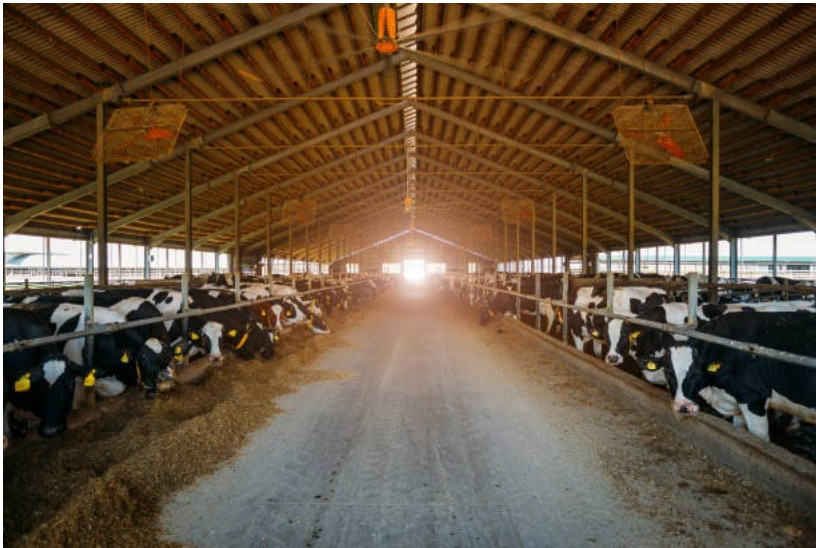
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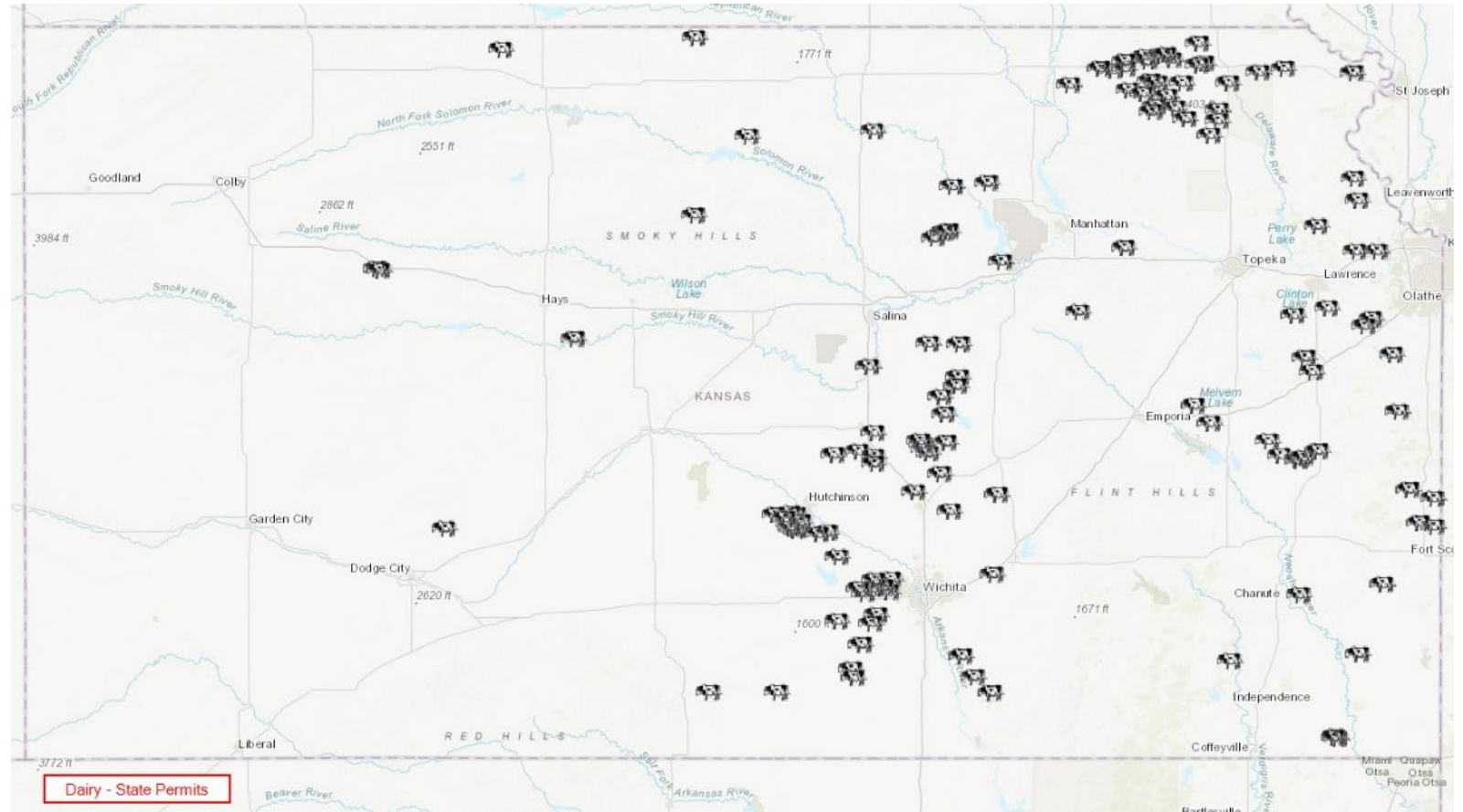
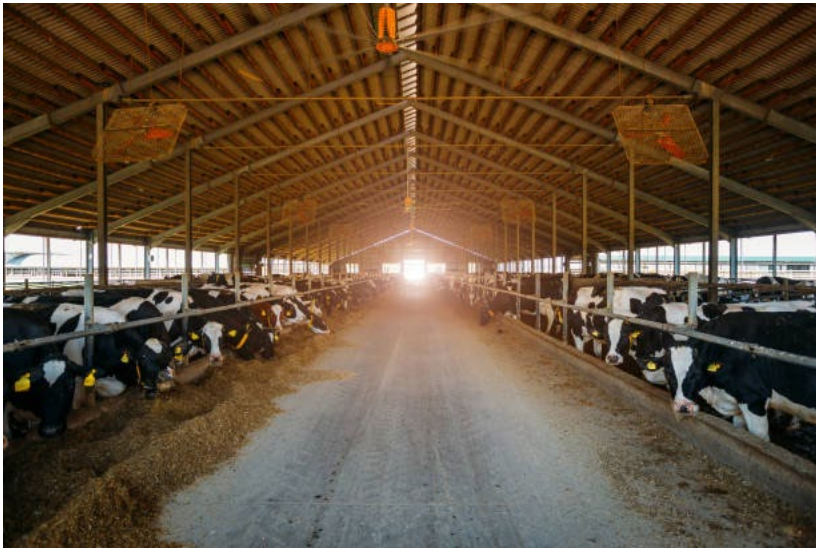
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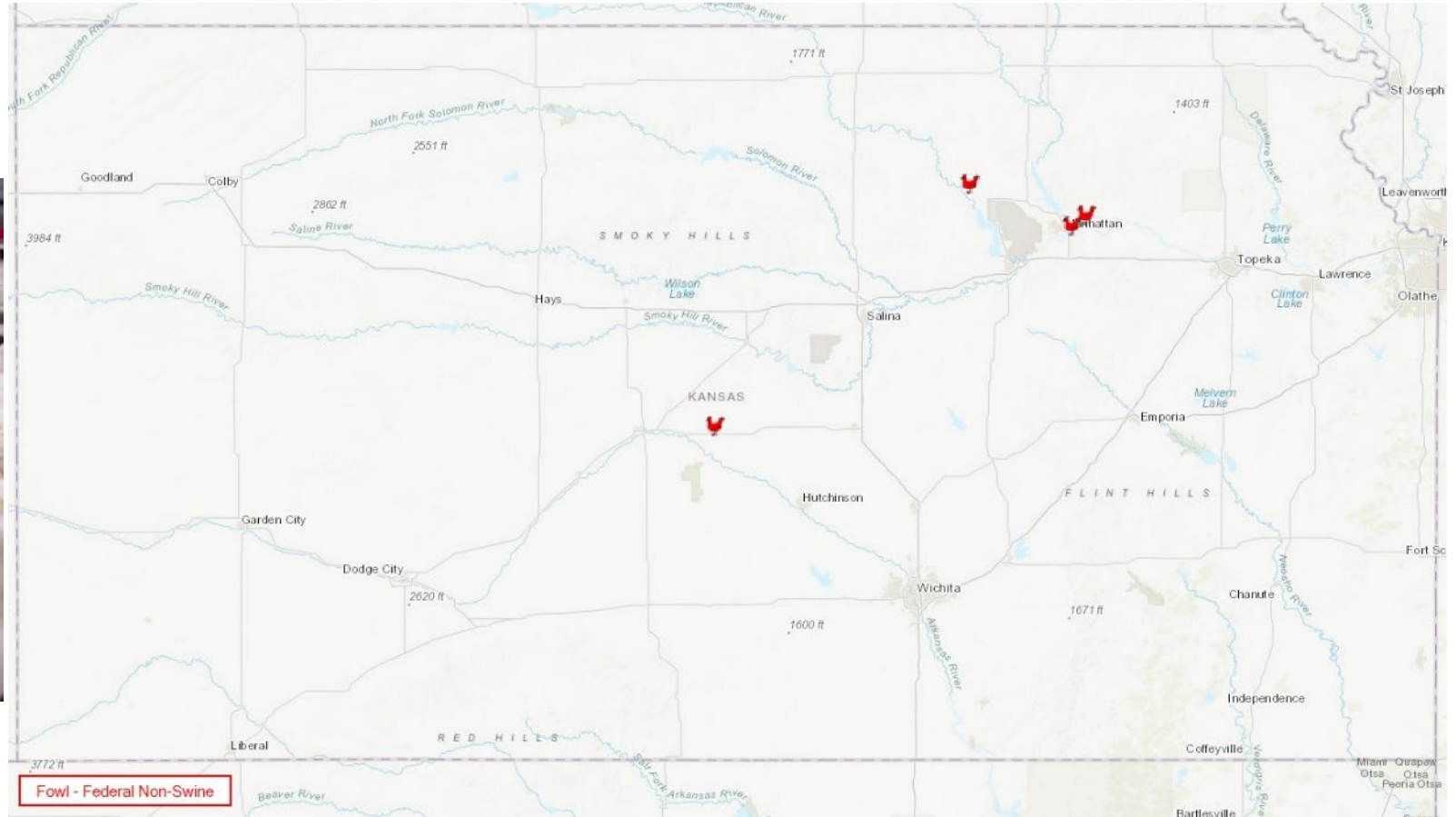
## By Animal



## By Animal



## By Animal



## Closure Process

- Submit an official request
- Detail process of cleanup
- Identify Lagoons, RCS, Sediment Basins and detail cleanup and soil testing.
- Confirm cleanup with final inspection and review of soil samples.
- Issue letter confirming closure of permit.

## Integrated September 2023

- All new and modified permits reviews EJ factors.
- Thresholds for non-English speaking communities at 5% and 15%.
- Public Notices sent in alternate languages at 5% and full permits sent to neighbors at 15%.



- Kansas Environmental Information Management System (KEIMS)
- Registration and Permit Application submission
- Tiered Rollout – KEIMS Account Required
  - Consultants
  - Producers
  - Using this software to become compliant with the EPA E-Reporting Rule. Goal to be ready by December 2025.

# Livestock Waste Management-Program Update

Thank you/Questions

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