

2010
WORKS!

**Kansas
Solid Waste Plan
Update**

by

Bill Bider

Director

Bureau of Waste Management

March 24, 2010

Today's Goals

1. Provide updated information on status of waste management in Kansas
2. Receive final stakeholder feedback to update state plan

We will:

- ✓ Review fall 2009 state plan survey results
- ✓ Describe current solid waste system
- ✓ Describe vision
- ✓ List draft goals – get feedback

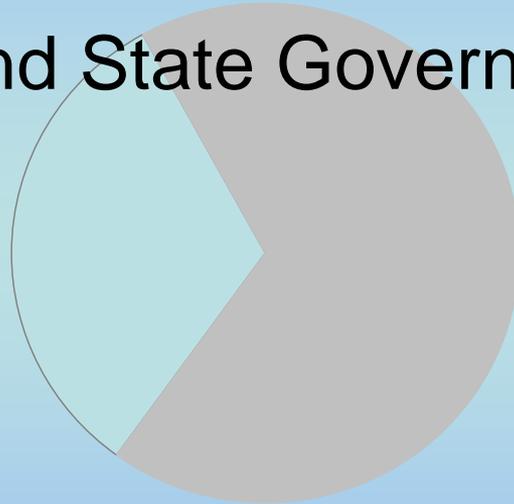
Stakeholder and Public Fall 2009 Survey

147 Respondents

Stakeholder and Public Fall 2009 Survey

147 Respondents

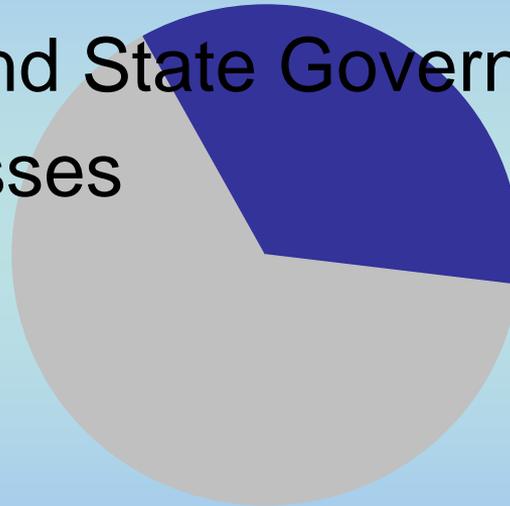
City, County, and State Government 32%



Stakeholder and Public Fall 2009 Survey

147 Respondents

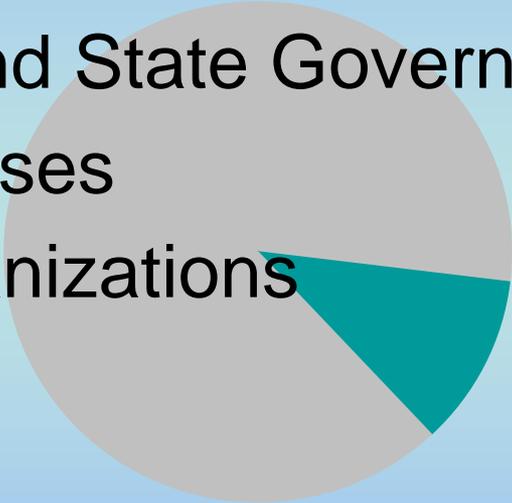
City, County, and State Government	32%
Private Businesses	35%



Stakeholder and Public Fall 2009 Survey

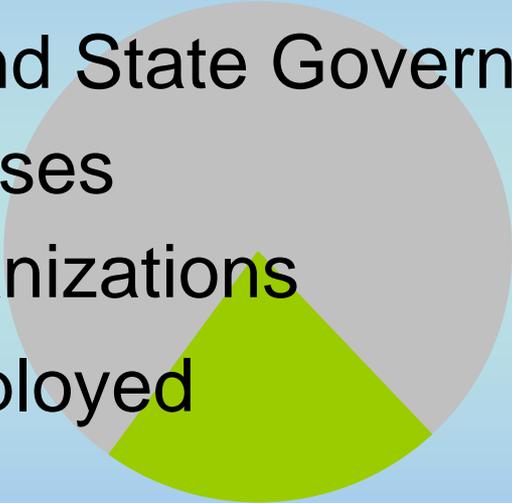
147 Respondents

City, County, and State Government	32%
Private Businesses	35%
Non-Profit Organizations	11%



Stakeholder and Public Fall 2009 Survey

147 Respondents



City, County, and State Government	32%
Private Businesses	35%
Non-Profit Organizations	11%
Others/Not Employed	22%

Stakeholder and Public Fall 2009 Survey

147 Respondents



Stakeholder and Public Fall 2009 Survey

147 Respondents



54% worked in Solid Waste
Management

Stakeholder and Public “Vision”

- Numerous and varied ideas regarding increased recycling and composting of organics
- Mixed opinions on mandates vs voluntary waste reduction practices
- State incentives to encourage good practices
- More waste-to-energy including landfill gas use
- Increased recycling of C&D waste
- Increased HHW and e-waste collection
- Sustainable local and state waste management systems
- Properly operated facilities by qualified employees

Stakeholder Ideas Regarding State Solid Waste Program Revenue

Should State Increase Revenue to Maintain Current Programs?

Yes	66%
No	21%
No opinion	13%
	<hr/>
	100%

How?

- ✓ Eliminate tonnage fee exemptions
- ✓ Higher fees (all landfills or just certain cases)
- ✓ Excise taxes on certain wastes
- ✓ Small sales tax

Stakeholder Recommendations to Reduce Expenditures if Revenue is Inadequate

1st Tier Cut (minor savings)

- Memberships
- KSU SBEAP
- Green Schools Initiative

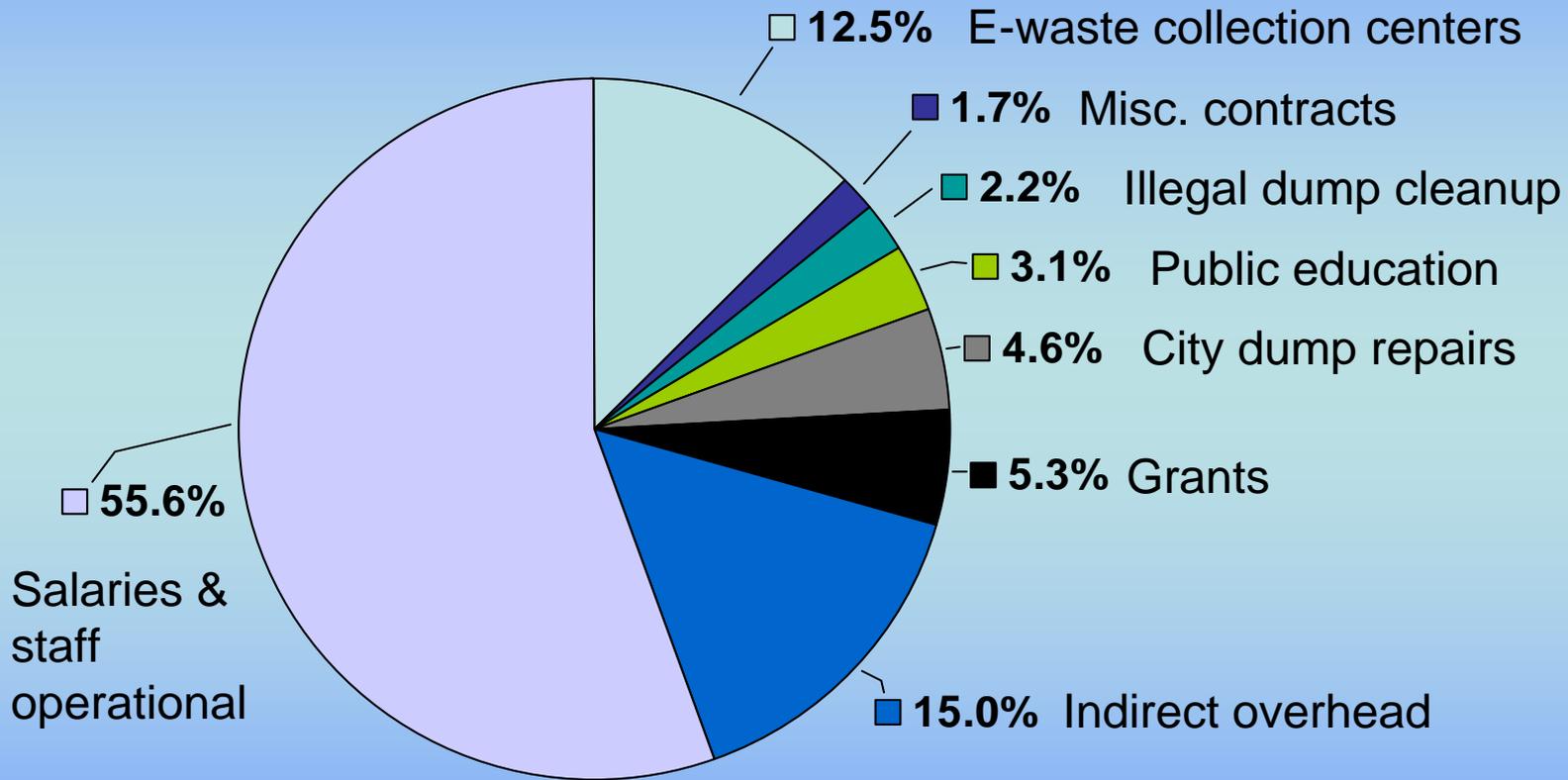
2nd Tier Cut (moderate savings)

- Public education
- Grants
- City dump corrective measures

3rd Tier Cut (moderate savings)

- Illegal dump program
- Waste sweeps

FY 2010 Solid Waste Expenditures



Total expenditures \$5.58 million
43 Full time staff equivalents

Stakeholder/Public Feedback on Biggest Challenges (in priority order)

1. Improve statewide recycling rate
2. Siting new landfills
3. Education of public and elected officials
4. Protecting water from improper waste management
5. E-waste disposal and recycling
6. Better yard waste management
7. Improved operations at C&D landfills

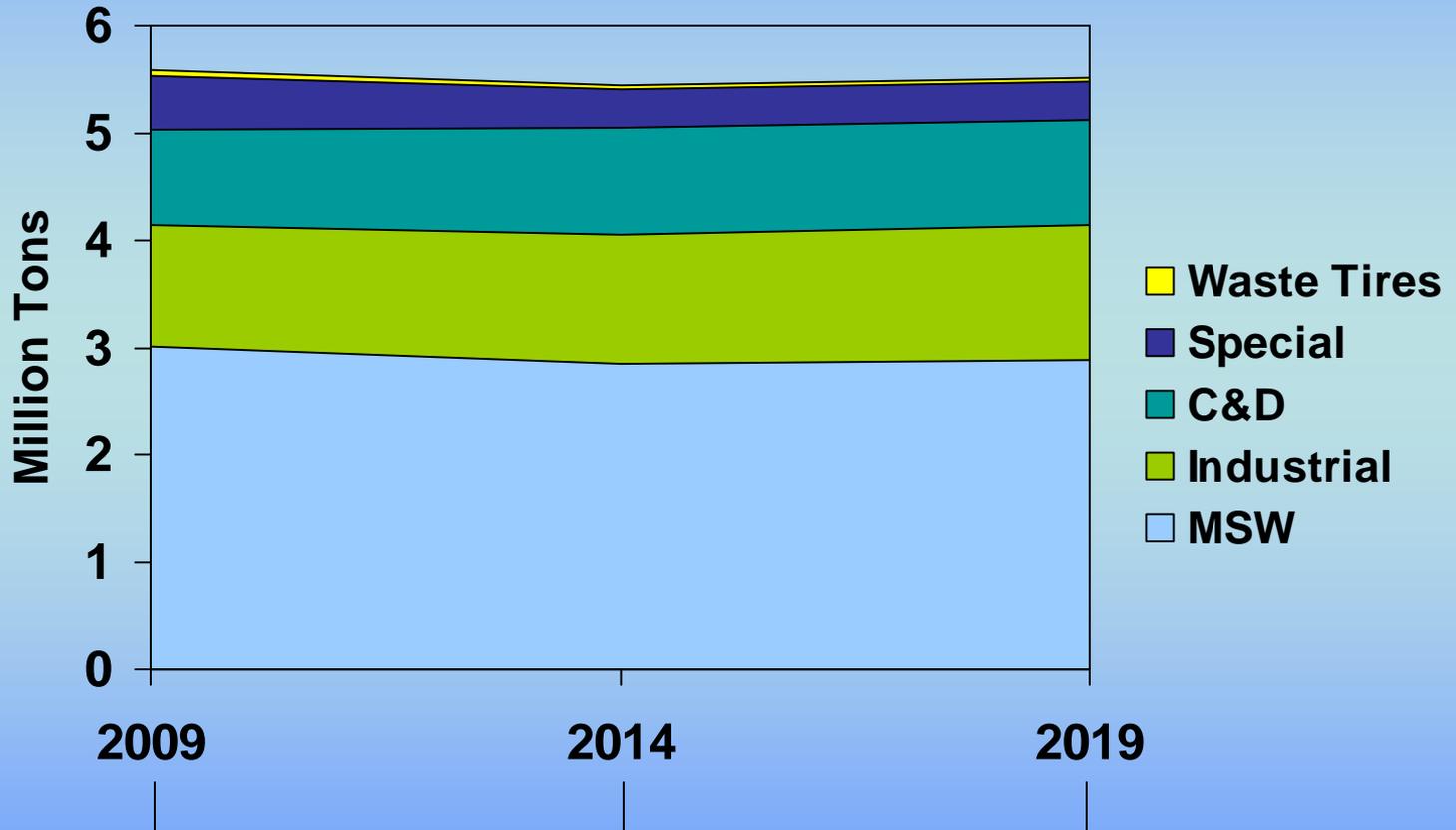
Areas for KDHE to Improve (in priority order)

1. More actively require or promote recycling
2. Provide more public education
3. More strictly enforce environmental regulations
4. Set statewide recycling goal
5. Provide more financial assistance

Solid Waste Landfilled in Kansas or Sent to Out-of-State Landfills in 2009

	<u>Tons</u>	<u>%</u>
MSW	3,014,000	54.0
Industrial	1,120,000	20.1
C&D	898,000	16.1
Special	498,000	8.9
Waste Tires	50,000	0.9
Total	5,580,000	100.0

Projected Waste to be Managed by Kansas Permitted Facilities



Total 5.58 Million

5.44 Million

5.52 Million

Economy Has Affected Waste Generation & Disposal

24 month
change from
Feb 08 to Feb 10

MSW

Down 10%

C&D

Down 20%

Industrial

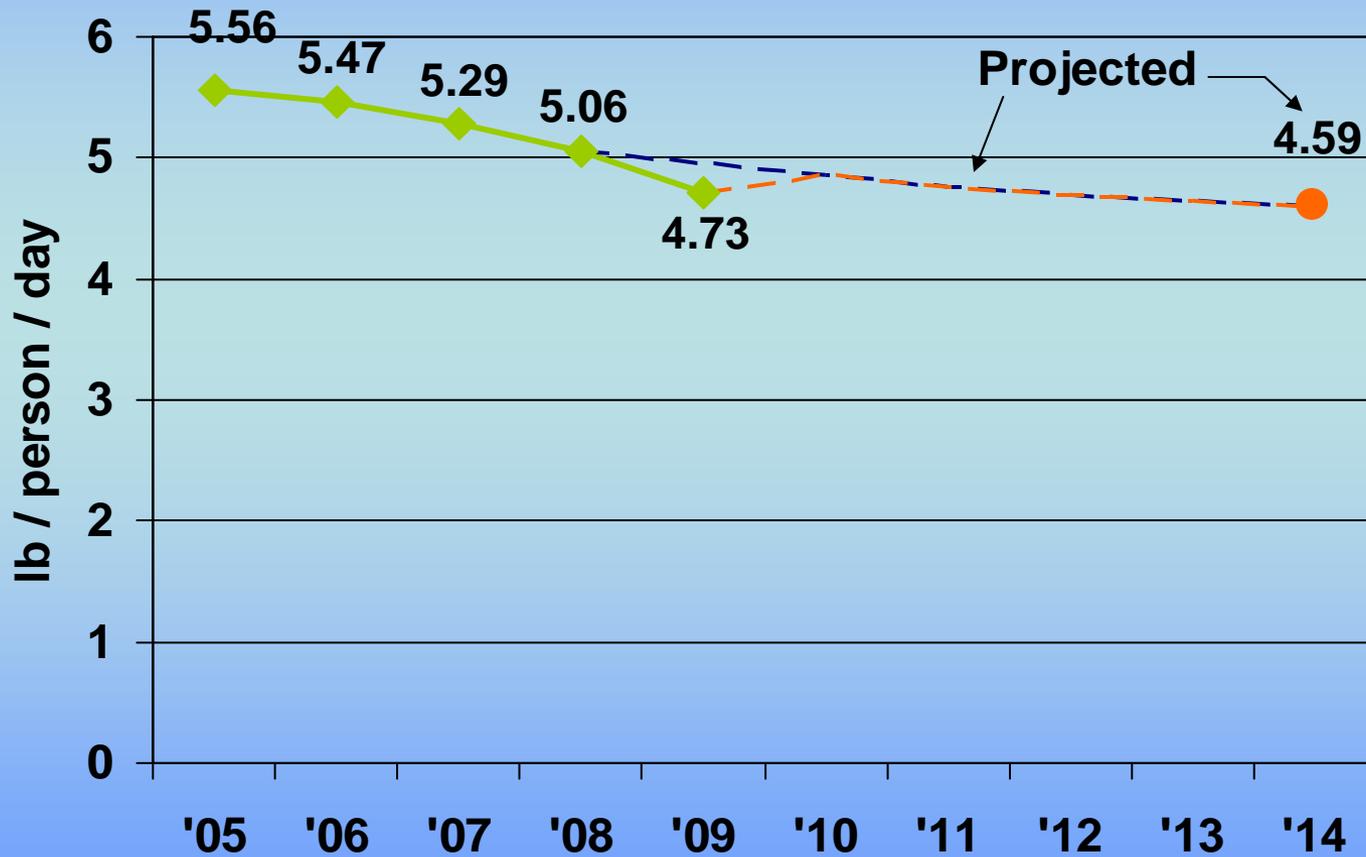
Varies by landfill
0 to 60%

2009 MSW Recycling in Kansas (Preliminary Data)

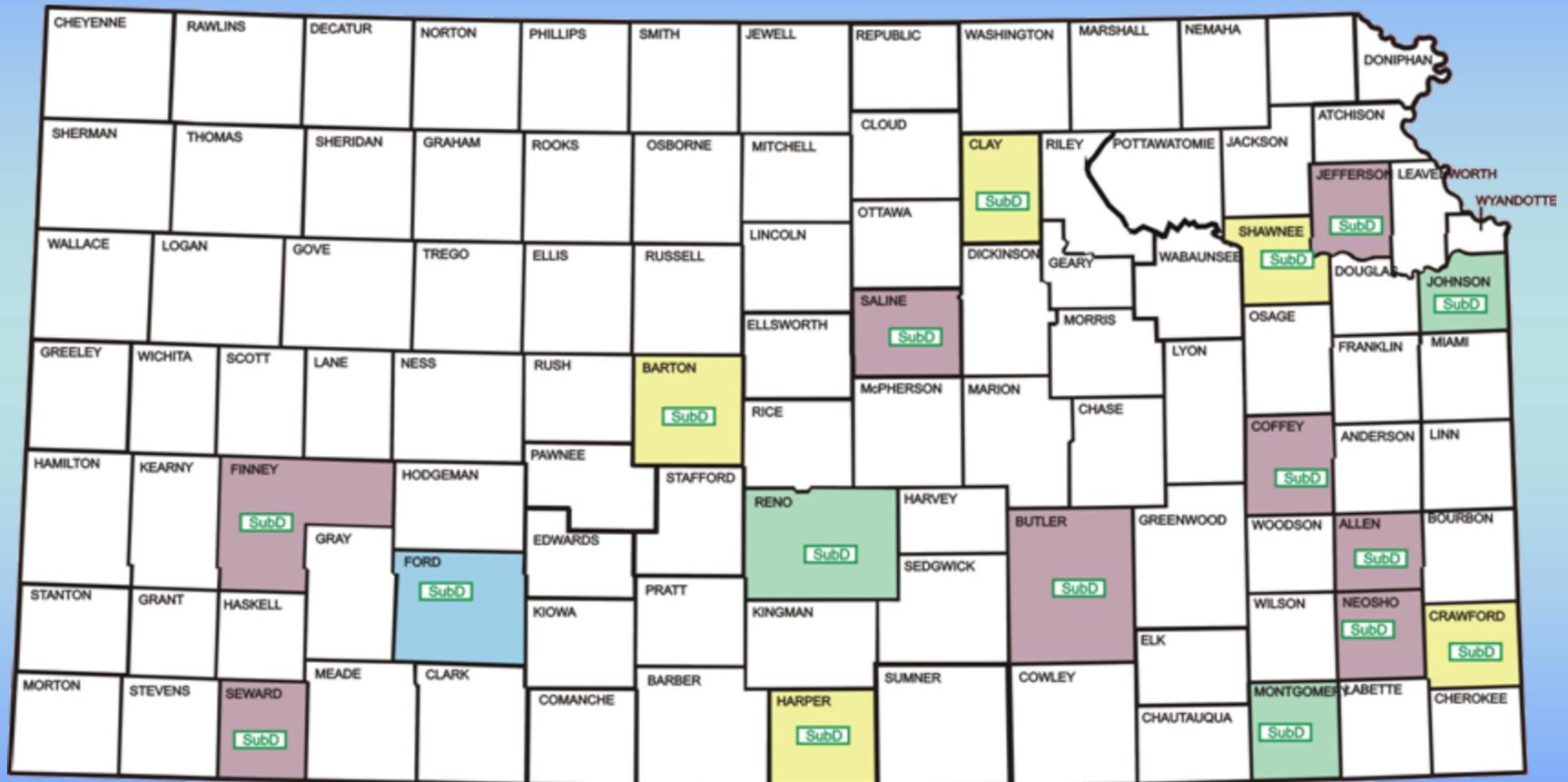
	Tons	% change From 2008
Paper	342,400	-23%
Ferrous Metal	250,300	+14%
Other (mostly yard waste)	165,813	+ 10%
Non-Ferrous Metal	43,600	-26%
Glass	17,100	+47%
Plastic	10,600	+ 12%
E-Waste	4,200	+23%
Lead-Acid Batteries	2,400	-29%
Total	836,500	-3%

Recycling Rate . . . 25.7% (minor increase over '08)

Per Capita Disposal Rate



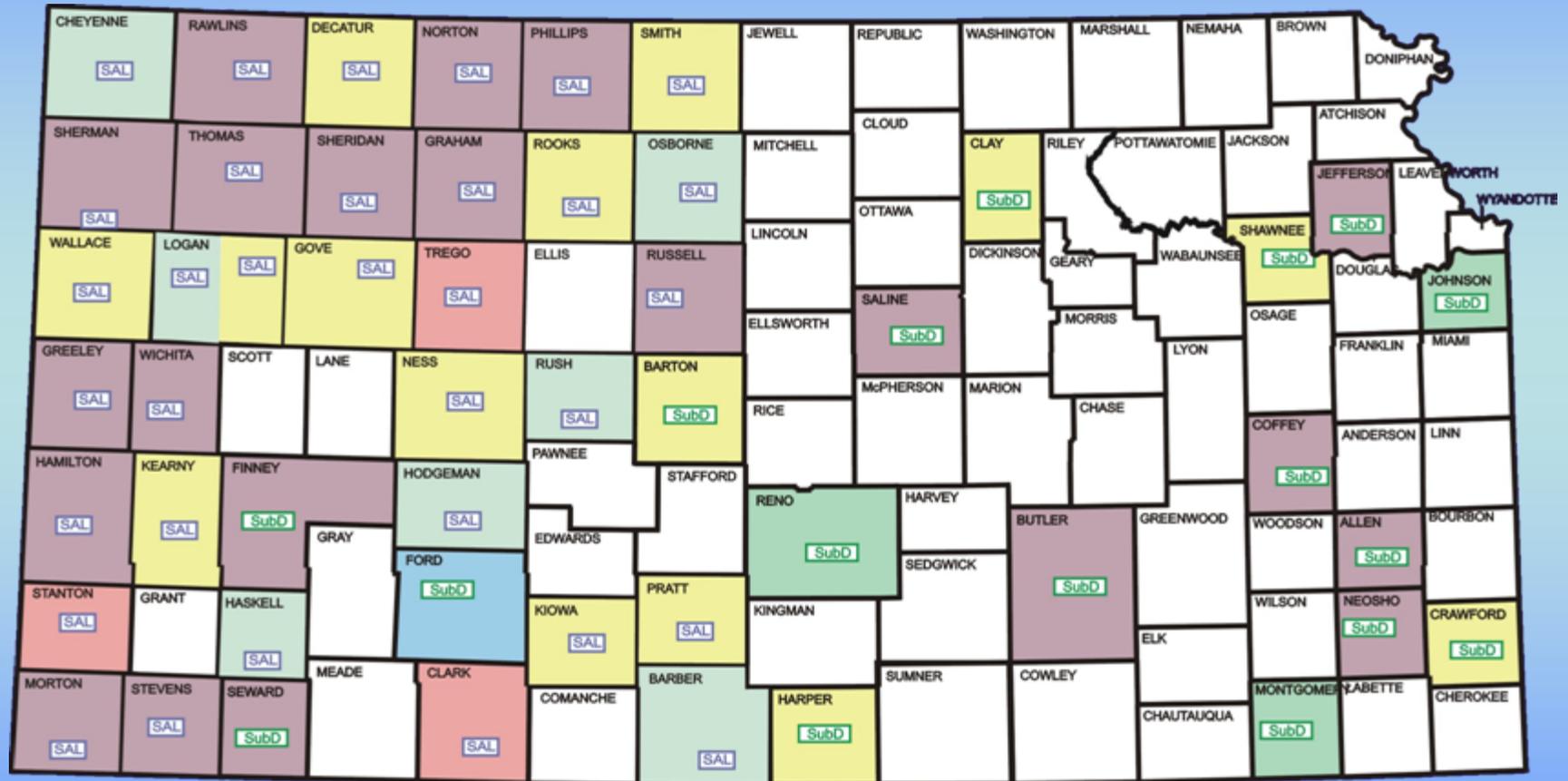
MSW Landfills and Waste Transfers



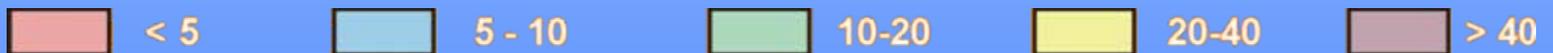
Remaining Life in Years



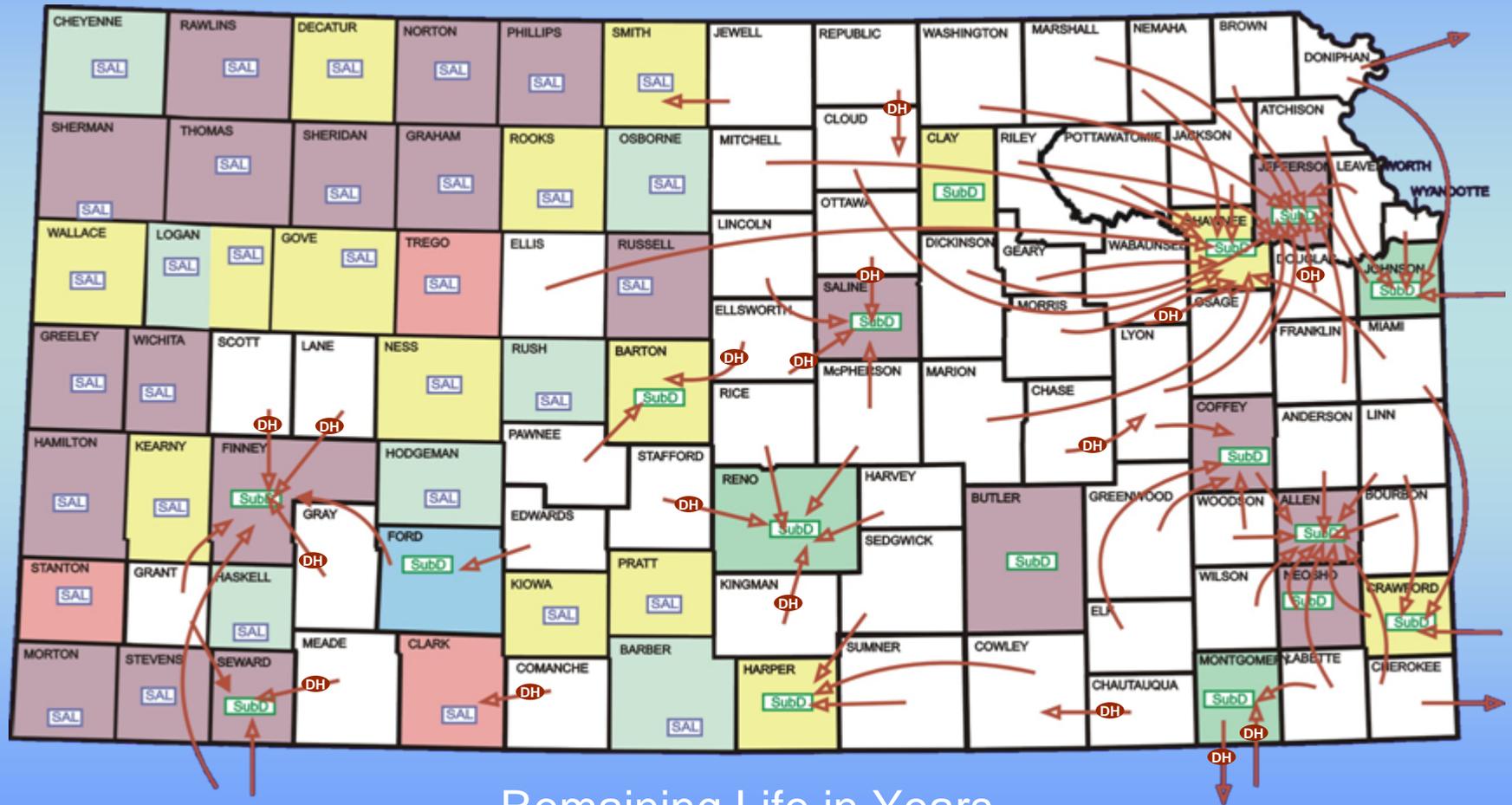
MSW Landfills and Waste Transfers



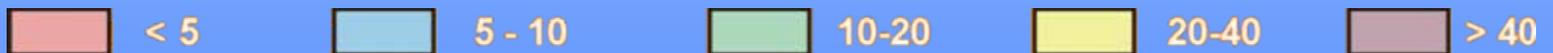
Remaining Life in Years



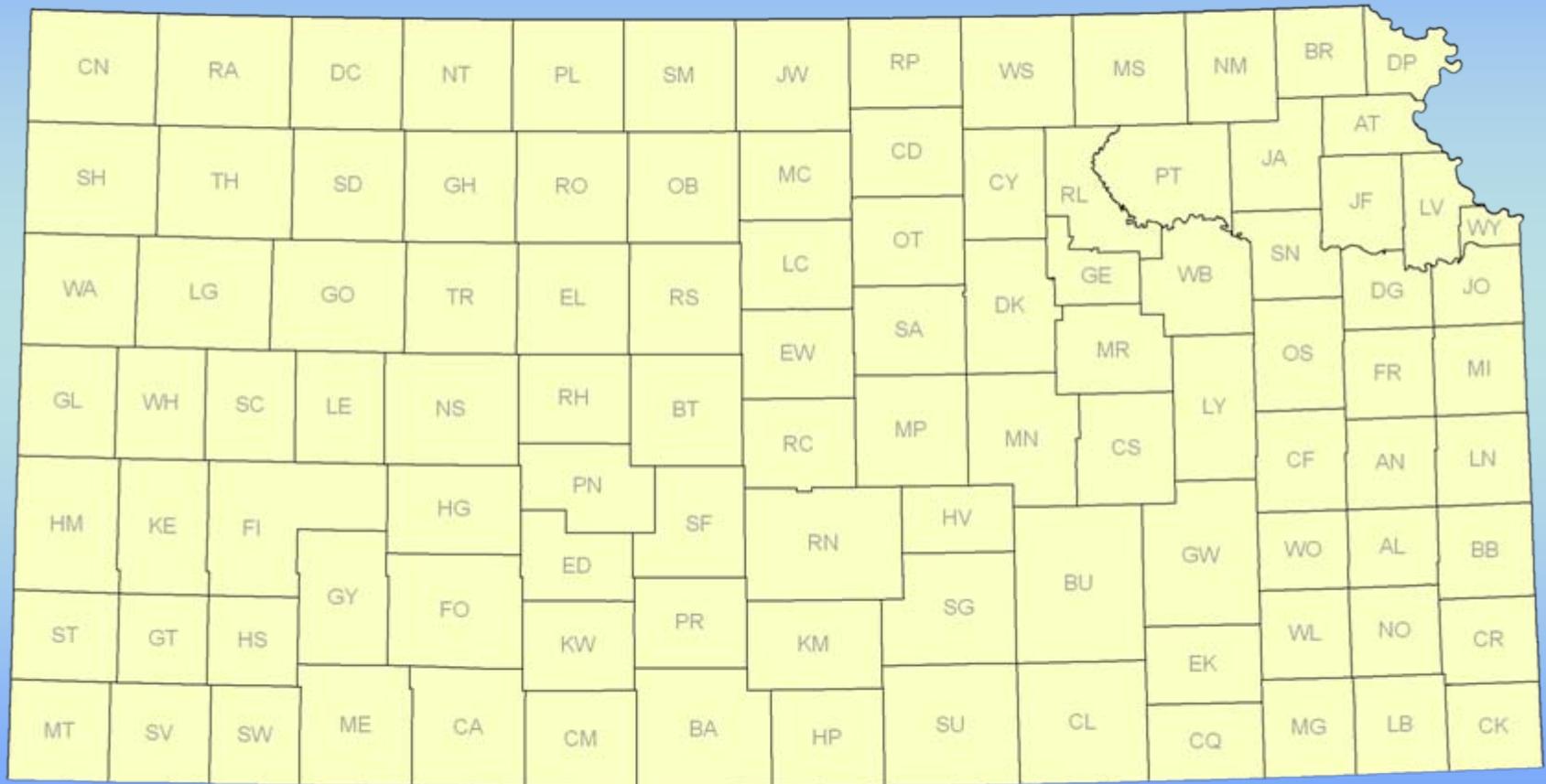
MSW Landfills and Waste Transfers



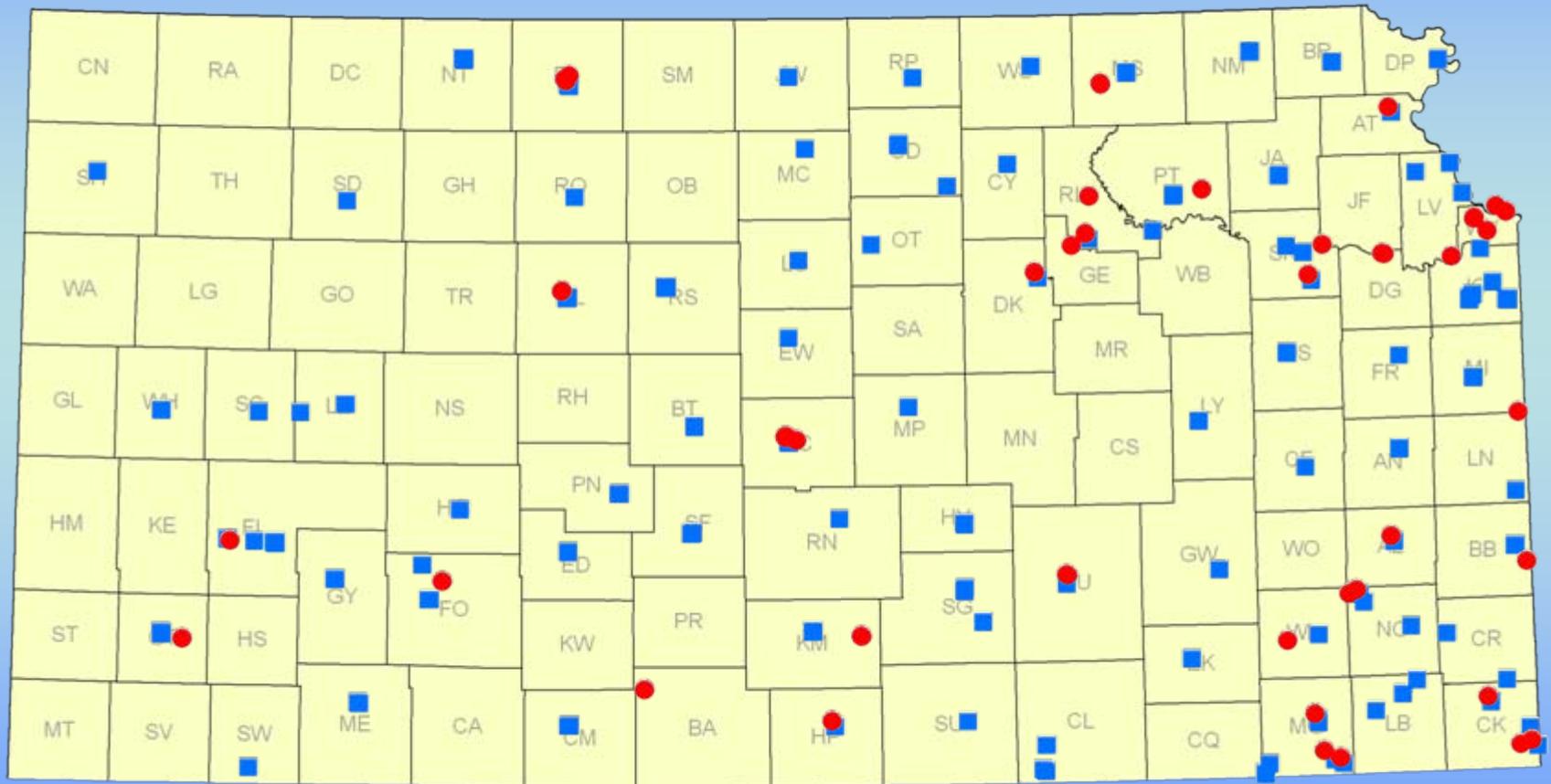
Remaining Life in Years



Non-MSW Landfills in Kansas

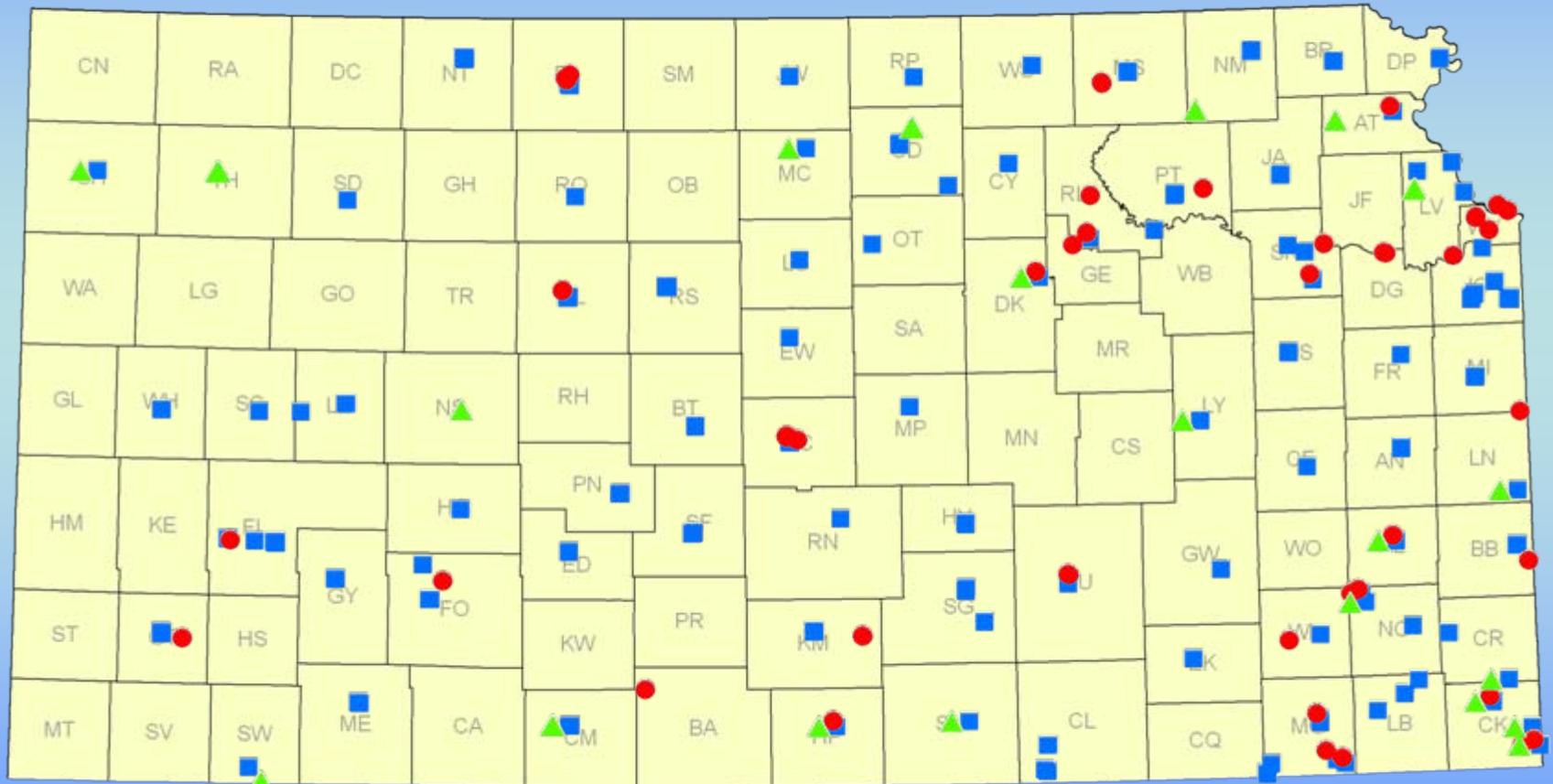


Non-MSW Landfills in Kansas



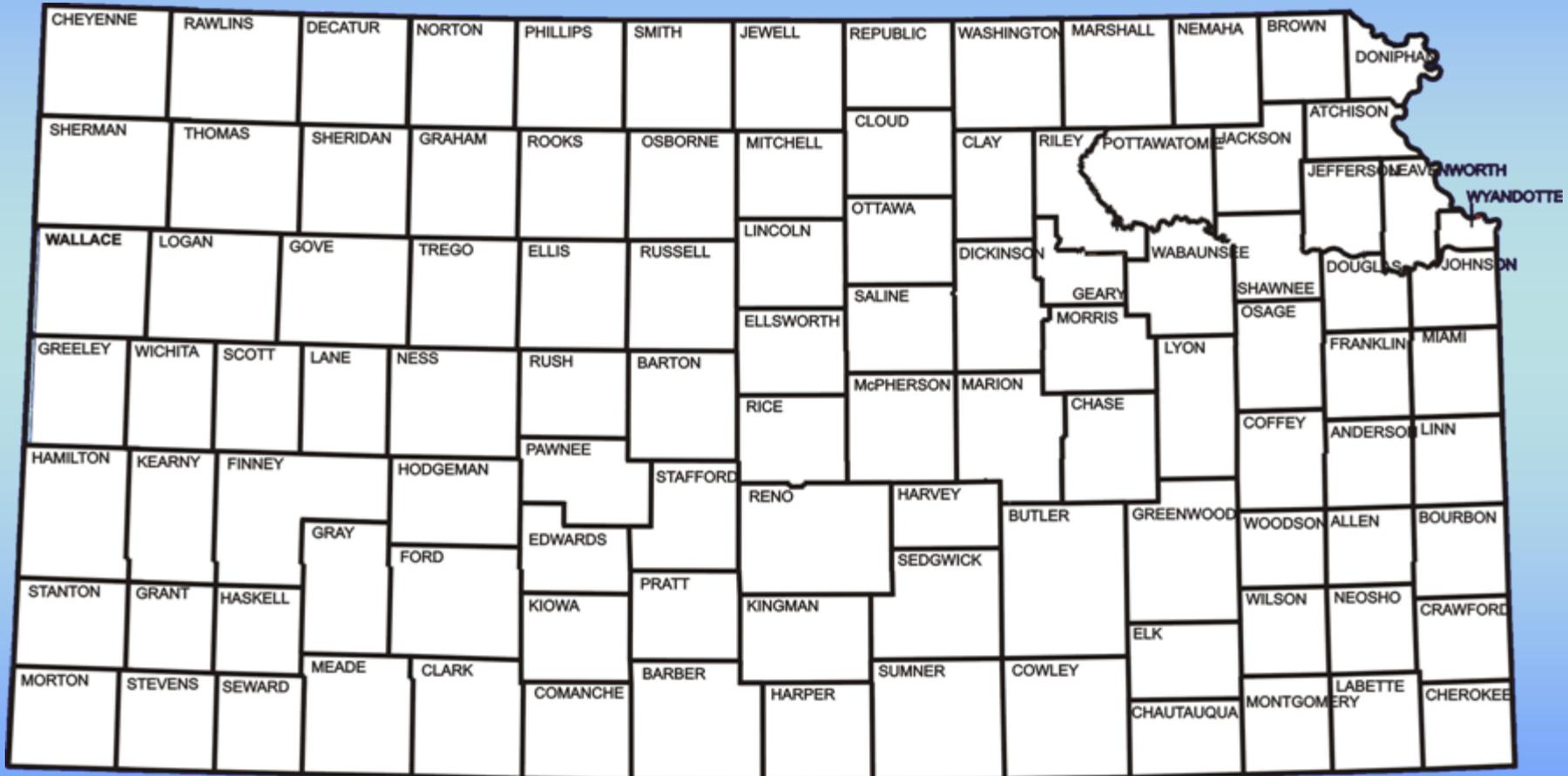
■ C&D (98) ● Industrial (41)

Non-MSW Landfills in Kansas

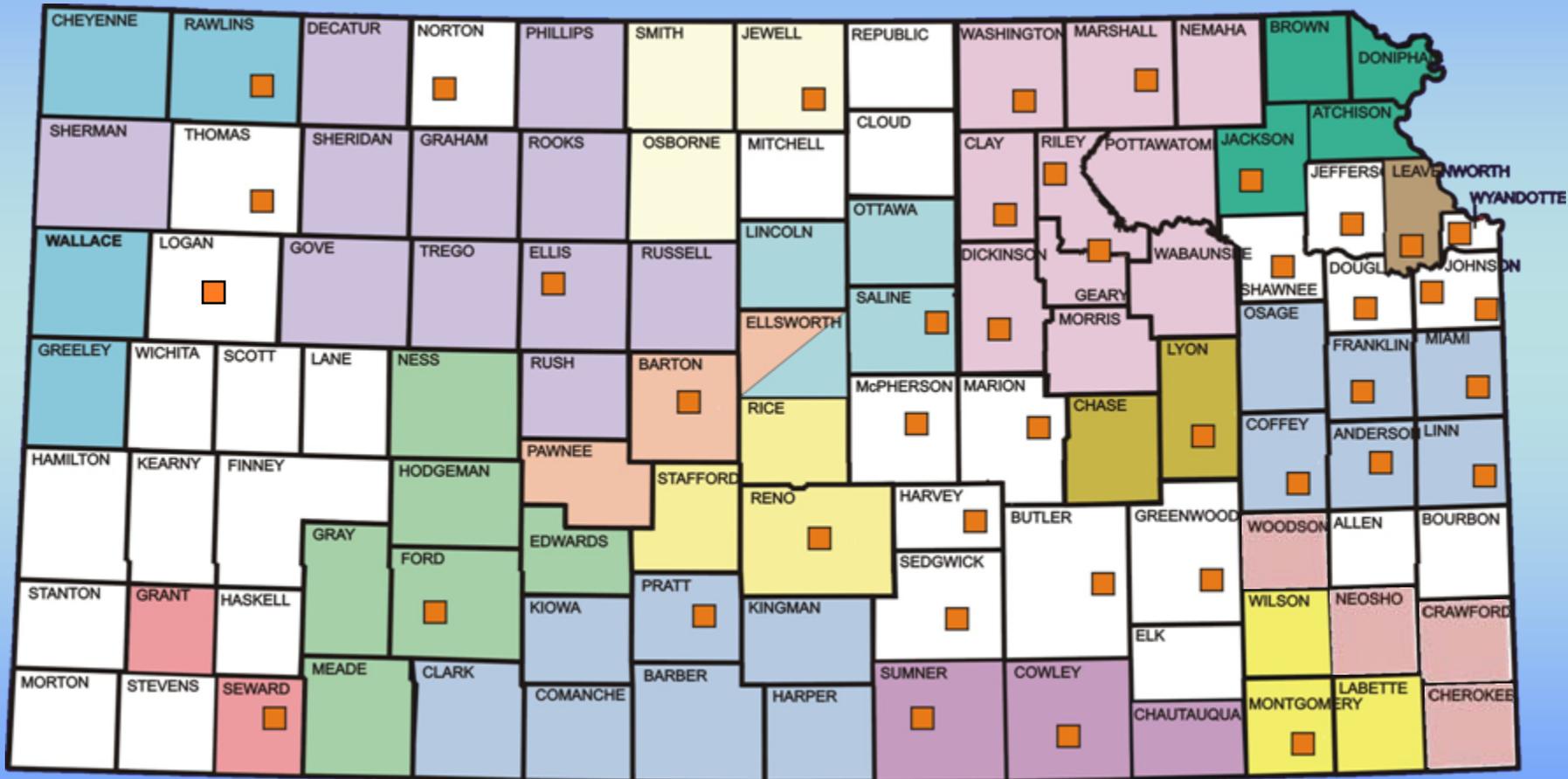


■ C&D (98) ● Industrial (41) ▲ Waste Tire (23)

SW Processing Facilities in Kansas

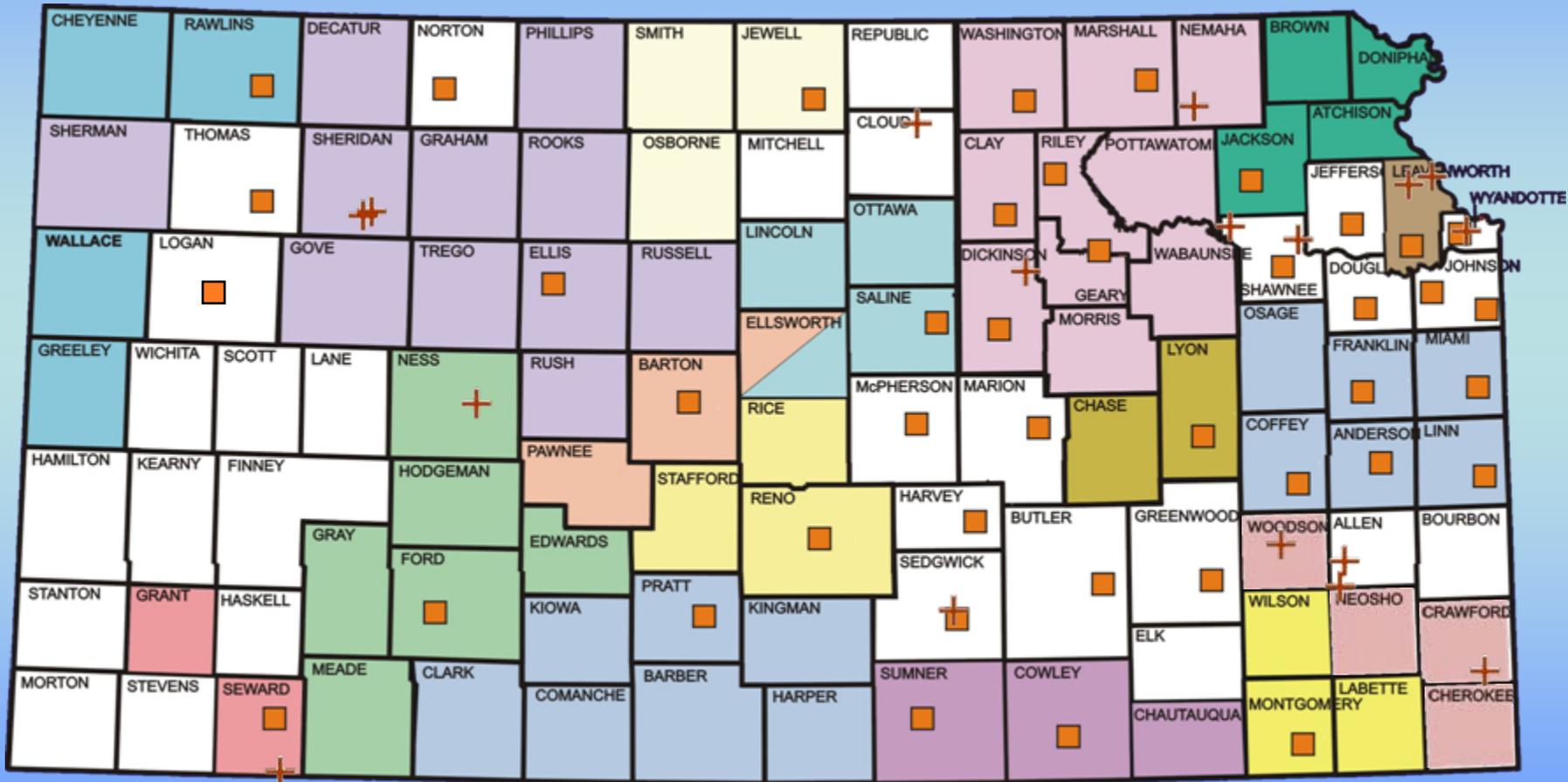


SW Processing Facilities in Kansas



■ HHW Regions (16) & Permanent Centers (62) (Regions are shaded)

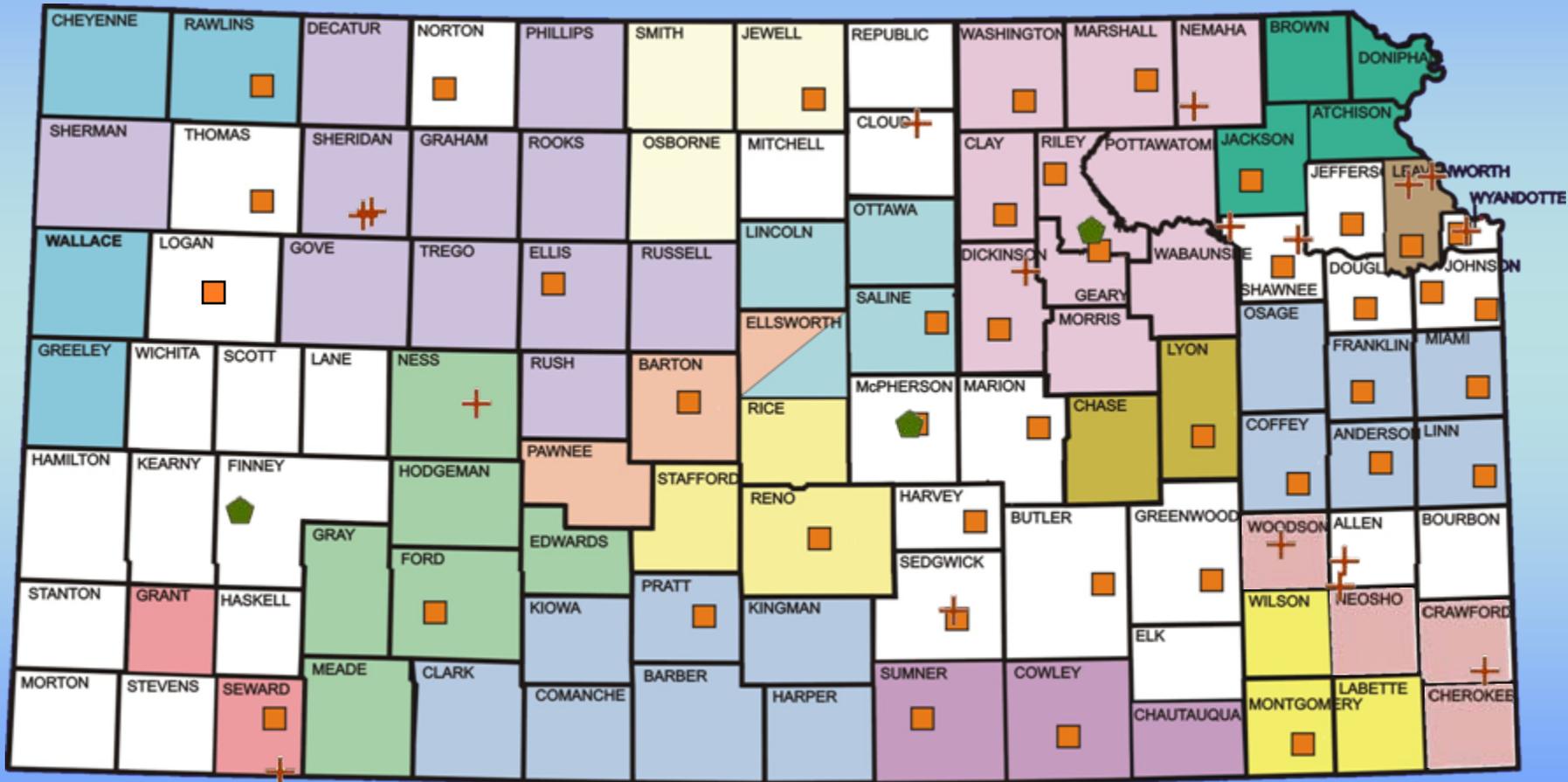
SW Processing Facilities in Kansas



■ HHW Regions (16) & Permanent Centers (62) (Regions are shaded)

+ Waste Tire Processor (17)

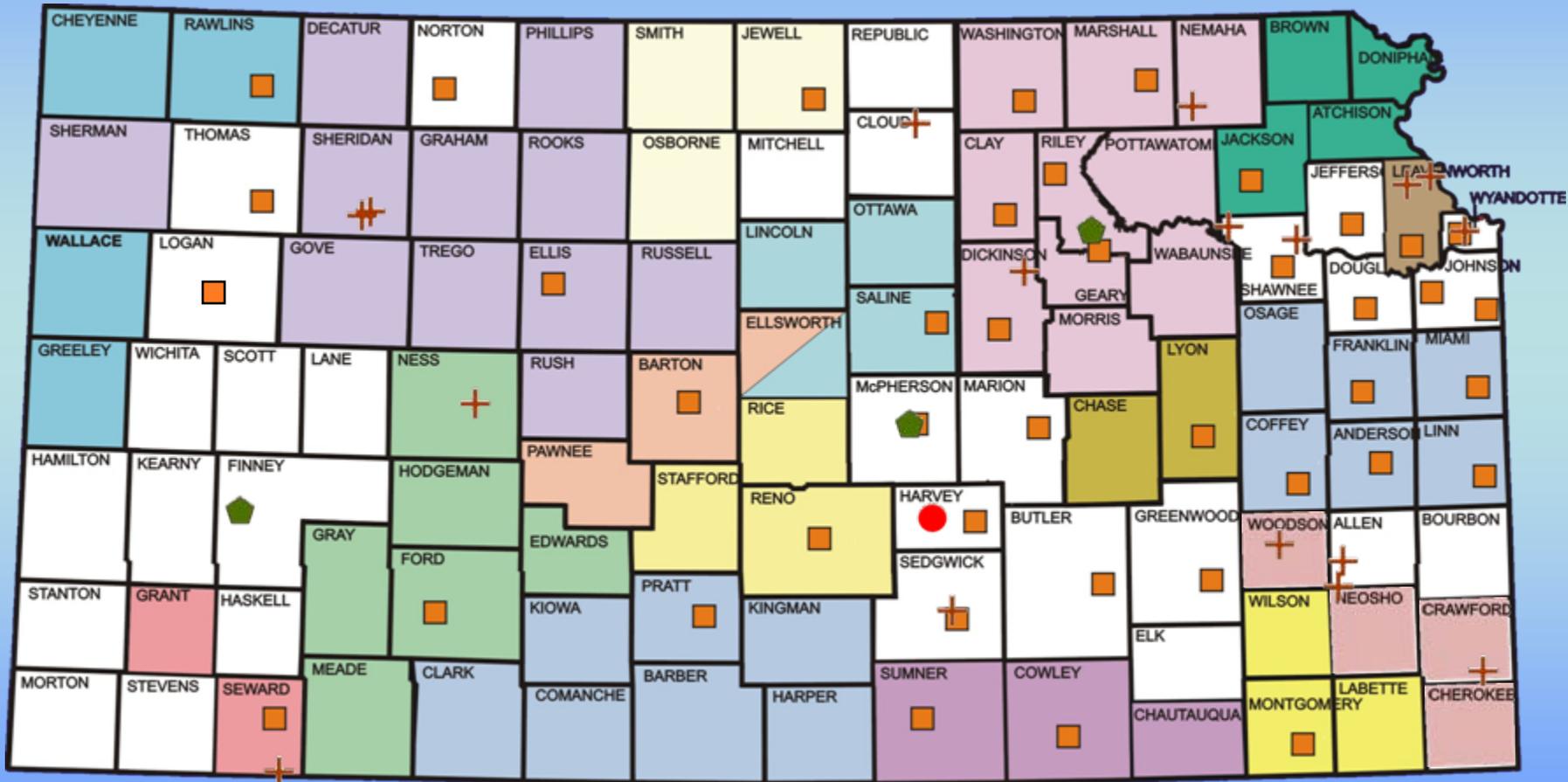
SW Processing Facilities in Kansas



■ HHW Regions (16) & Permanent Centers (62) (Regions are shaded)

+ Waste Tire Processor (17) ◆ Landfarm (3)

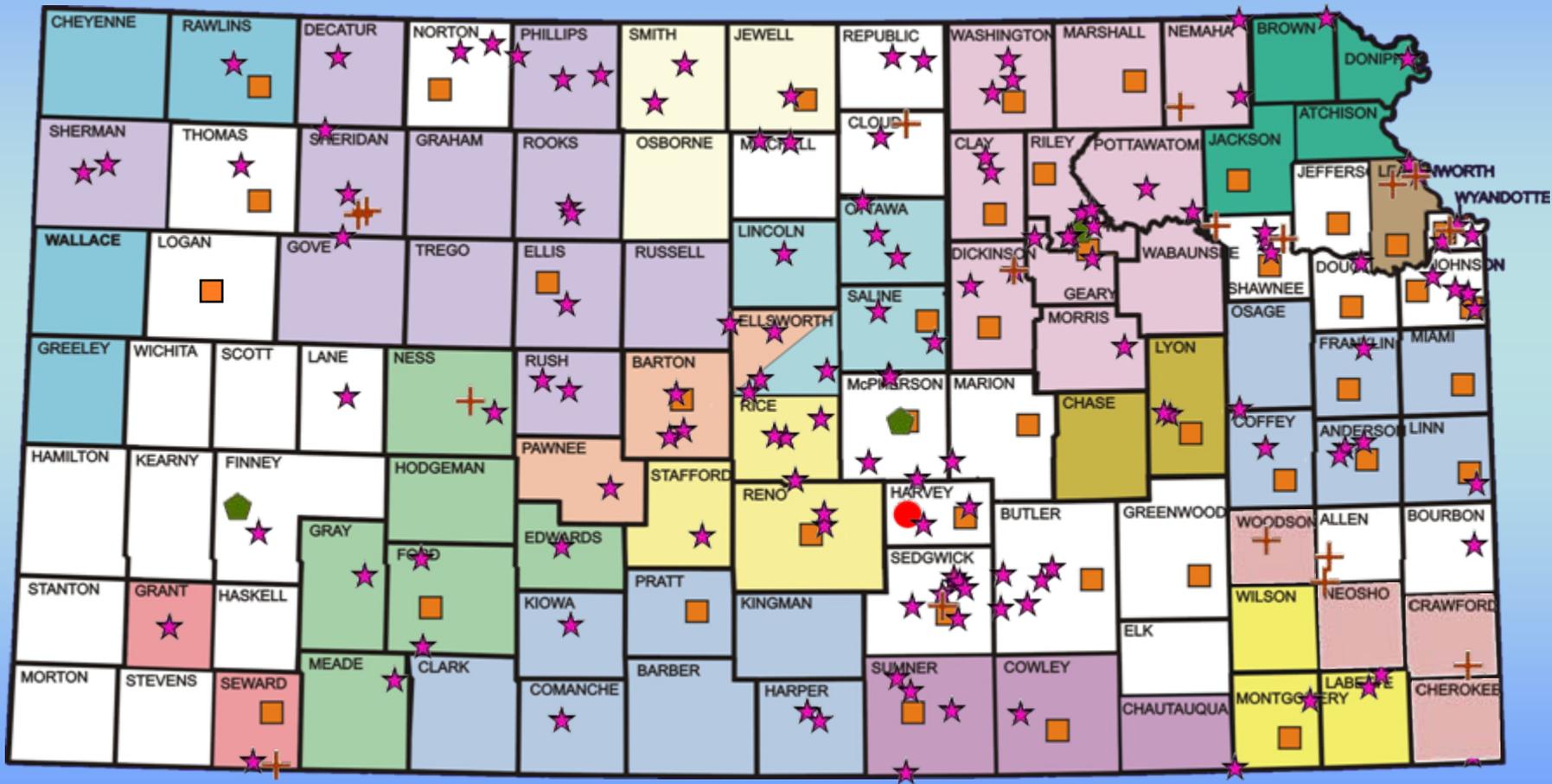
SW Processing Facilities in Kansas



■ HHW Regions (16) & Permanent Centers (62) (Regions are shaded)

+ Waste Tire Processor (17) ◆ Landfarm (3) ● Med Waste Proc (1)

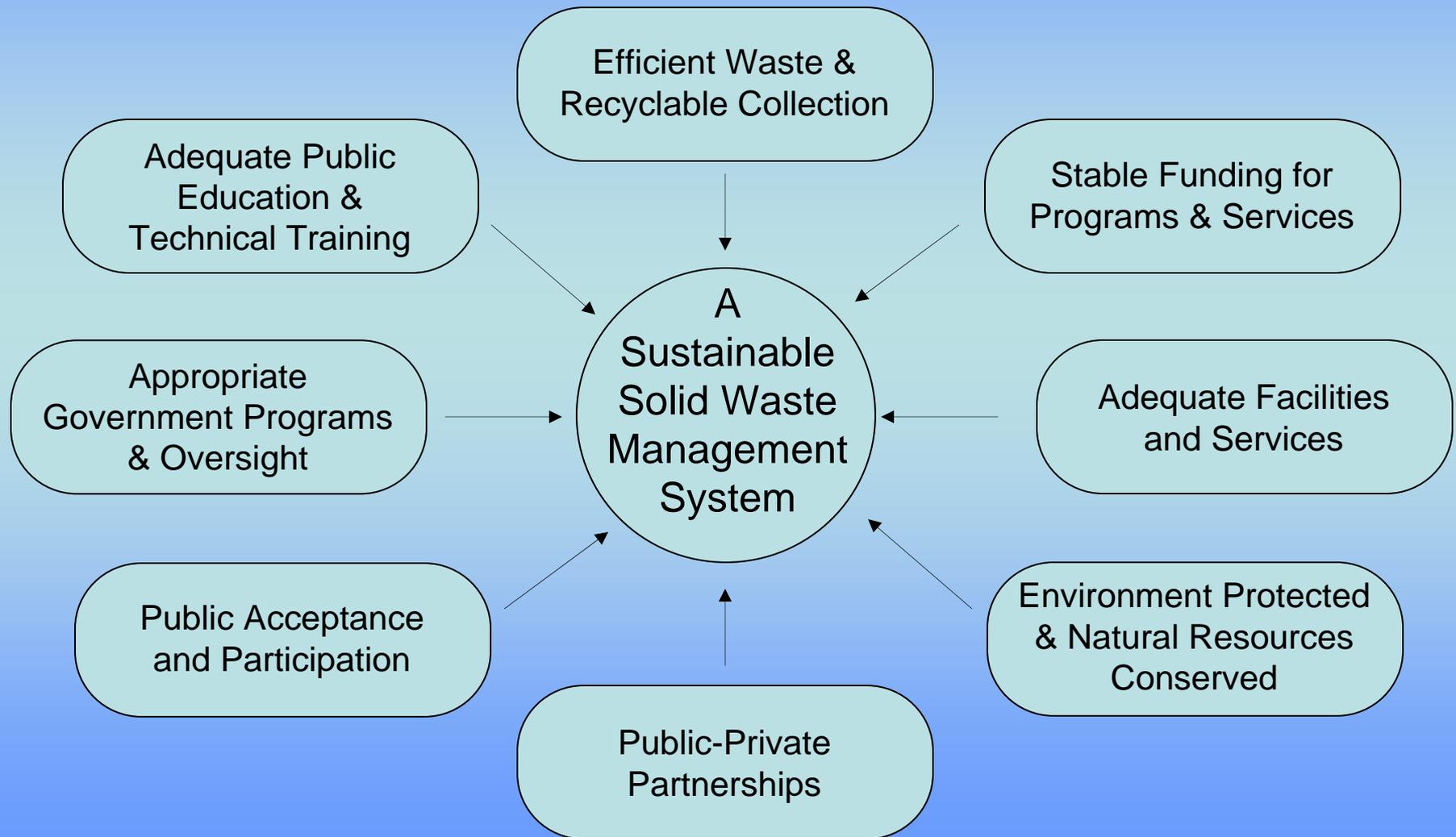
SW Processing Facilities in Kansas



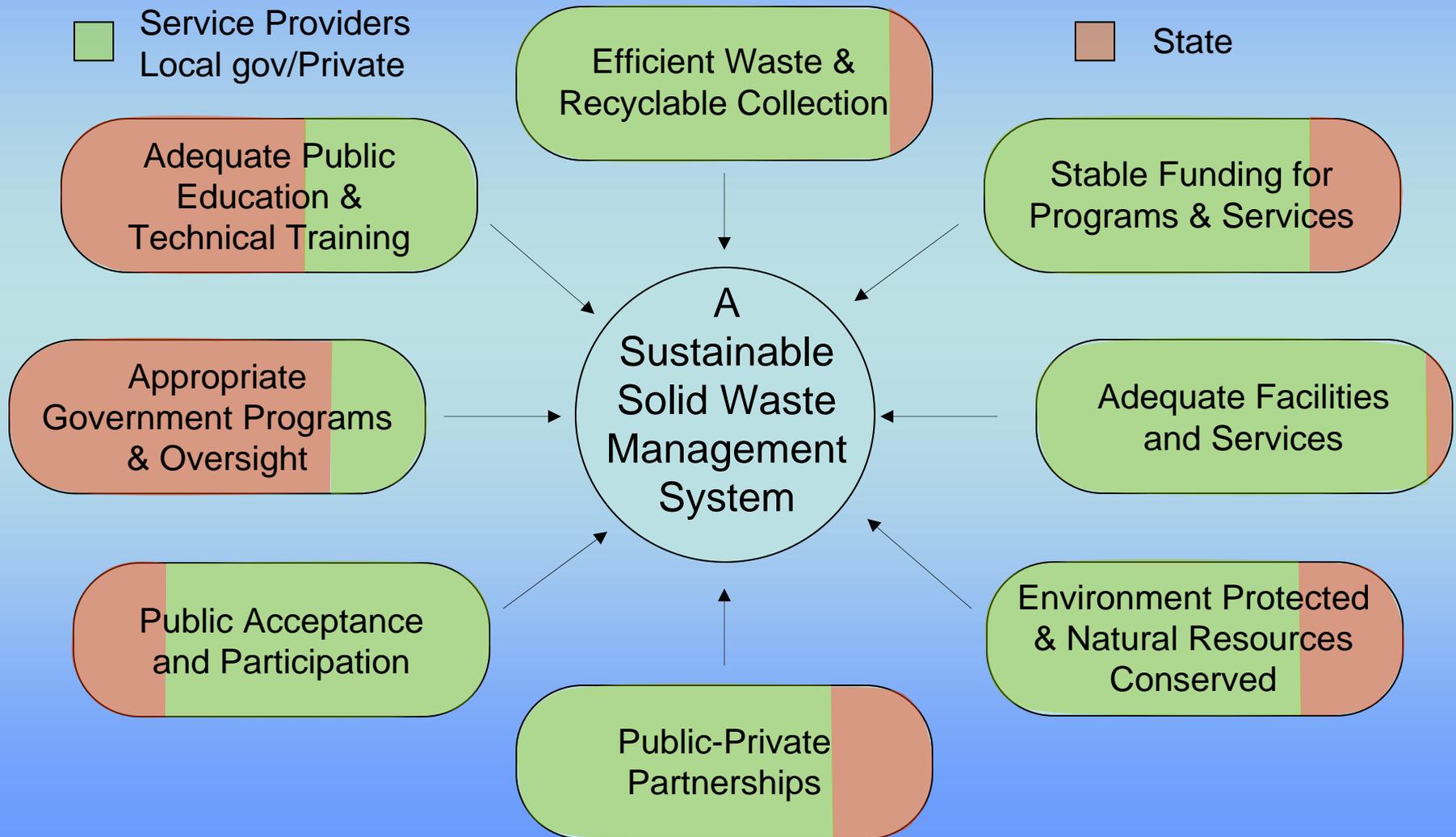
■ HHW Regions (16) & Permanent Centers (62) (Regions are shaded)

+ Waste Tire Processor (17) ⬠ Landfarm (3) ● Med Waste Proc (1) ★ Compost (147)

Vision of Best Solid Waste Management System for Kansas



The State's Role in Achieving the Vision



State Efforts

- ✓ Contribute to a safe, efficient, environmentally protective, and sustainable waste management system
- ✓ Other parties contribute more

But . . . state efforts will prompt, encourage, and require other parties to act

**Goal
#1**

Adequate Public Education

Limited and shrinking resources

Strategies

1. Maintain student education using newsletters, school assemblies, and grants
2. Enhance online solid waste education (various levels and audiences)
3. Provide educational information to elected officials

**Goal
#2**

Adequate Technical Training

For facility operators and managers

Strategies

1. Provide annual operator training in cooperation with SWANA, KOR, KLA
2. Develop online operator training course
3. Develop and distribute technical newsletters and reports

**Goal
#3**

Appropriate Government Programs and Oversight

State programs are 100% funded by the
solid waste management fund

Strategies

1. Maintain permitting, inspection, and enforcement programs
2. Balance enforcement and technical assistance to achieve compliance
3. Respond to public questions and complaints
4. Adopt good internal waste mgt practices
5. Adopt new or revised regulations to encourage recycling and other waste reduction practices

**Goal
#4**

Public Acceptance and Participation

Public must believe proper waste management is important and their efforts can make a difference

Strategies

1. Survey the public to determine level of understanding, trust, and participation
2. Develop and implement a public outreach program (state and local gov. coordination)

**Goal
#5**

Efficient Waste and Recyclables Collection

Collection is a local government or private company responsibility

Strategy

1. Evaluate current collection practices and make recommendations to locals as appropriate

**Goal
#6**

Public-Private Partnerships

Partnerships can be state with local governments and state or local governments with private organizations

Strategies

1. Coordinate with SWANA, KOR, KLA regarding public education and technical training
2. Develop partnering models for local parties
3. Encourage implementation of models by local governments and private parties

**Goal
#7**

Stable Funding for State Programs and Services

Sustainable systems of solid waste management require stable revenue sources

Strategies

1. Develop annual review and expenditure reports and prioritize expenditures
2. Develop revenue enhancements plan to maintain statutorily directed programs or eliminate directives
3. Develop and provide information to local governments to help stabilize funding of solid waste programs

**Goal
#8**

Adequate Facilities and Services

Without adequate facilities and services, well-intended individuals and businesses cannot achieve desired waste management outcomes

Strategies

1. Evaluate the existing facility network to determine need for improvements
2. Make recommendations to local governments regarding observed needs

**Goal
#9**

Environment Protected and Natural Resources Conserved

Proper waste management minimizes any impacts to the environment and conserves natural resources

Strategies

1. Administer a thorough compliance and enforcement program
2. Evaluate existing waste reduction services
3. Make recommendations to local governments to improve waste reduction facilities
4. Develop regulations to encourage improved waste reduction practices
5. Administer a grant program to facilitate start-up and enhancement of waste reduction projects
6. Encourage enhanced gas production, recovery, and utilization

State Plan Finalization

1. May 2010 - Draft Plan posted on website for public comment
2. 60 day comment period
3. August 2010 - Final Updated Plan adopted by KDHE Secretary

Further State Plan Discussion

Roundtable at 1:30 today

Some discussion items:

- C&D recycling
- HHW collection
- E-waste recovery and recycling
- Siting of new SW facilities
- C&D landfill regulations