

**SHINGLE
RECYCLING
PROGRAM IN RURAL
IOWA:**

**7 AGENCIES WORKING
TOGETHER**



September 1, 2015

- ❑ No program in the western part of the state
- ❑ Had been discussing “loosely” the idea of a shingle recycling program for several months
- ❑ Would and could different planning areas work together to establish a program
- ❑ What would be the potential benefits to working together

❑ Solid waste agencies:

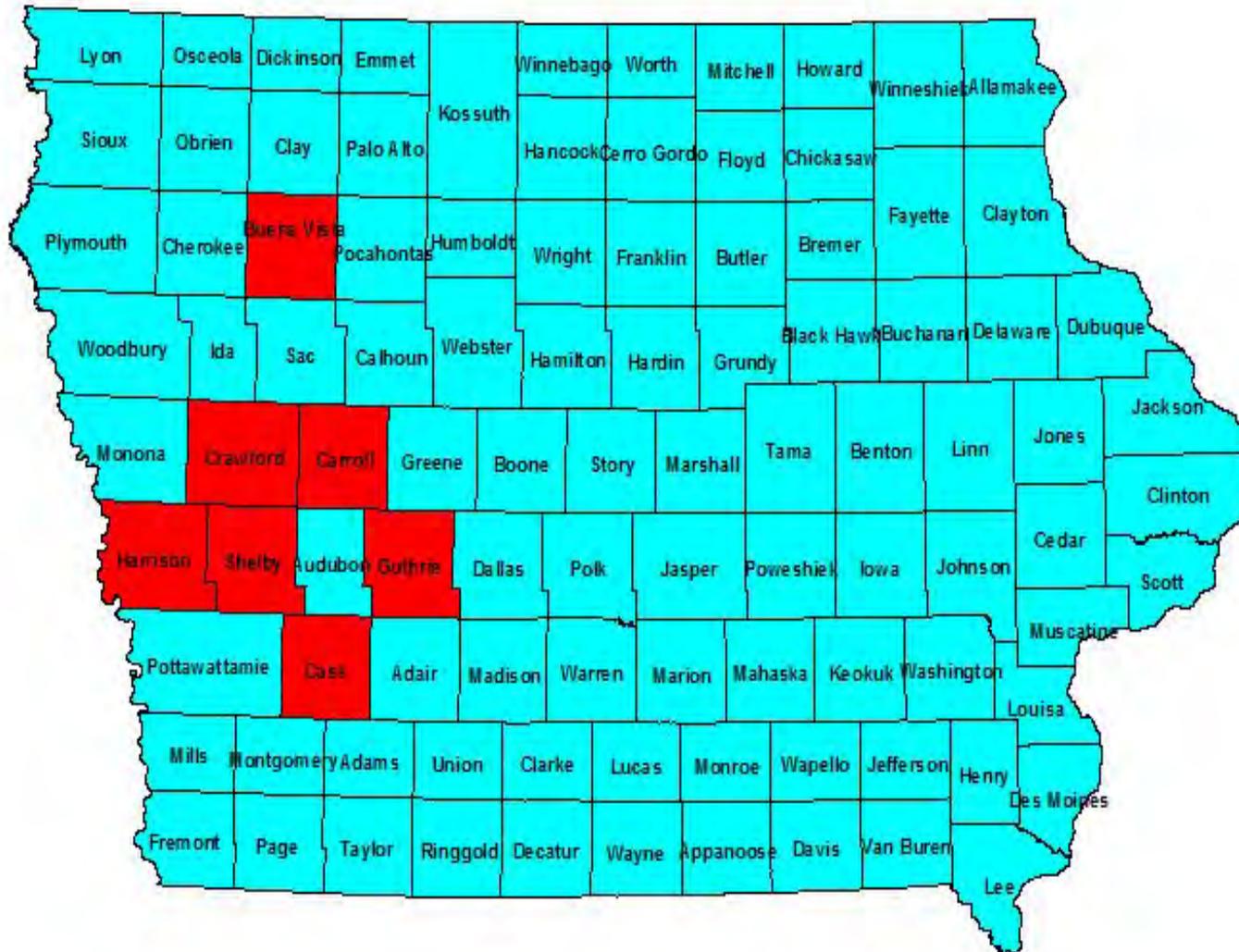
- ❖ Buena Vista County Sanitary Landfill Commission
- ❖ Carroll County Solid Waste Management Commission
- ❖ Cass County Environmental Control Agency
- ❖ Crawford County Area Solid Waste Agency
- ❖ Guthrie County Board of Supervisors
- ❖ Harrison County Landfill Commission
- ❖ Shelby County Area Solid Waste Agency



❑ 7 solid waste agencies in 4 comprehensive planning areas

❑ Western Iowa Initiative

AGENCIES WORKING TOGETHER



□ Advantages of working together:

- ❖ Share research and assessment efforts
- ❖ Consolidate volumes for competitive pricing
- ❖ Regional marketing and education campaign
- ❖ Regional SWAP application for a targeted waste stream

□ First SWAP Application

- ❖ Agencies hired Barker Lemar Engineering Consultants

- ❖ Comprehensive study:
 - Identify program implementation strategies to establish a uniform and sustainable collection and recycling program
 - Evaluate and identify services that are uniform, cost effective, financially and operationally sustainable and replicable
 - Assist the Department to promote the information to other public and private entities

- ❖ Awarded a \$15,000 forgivable loan with a \$5,000 cash match divided equally between 7 participants

□ Activities completed for the study

- ❖ Site visits and assessments

- ❖ Shingle tonnage estimates

- ❖ Potential services and markets

 - Regional processors

 - Regional existing and potential service providers and markets

 - Evaluate existing program

- ❖ Options analysis and review

 - Required infrastructure and program requirements

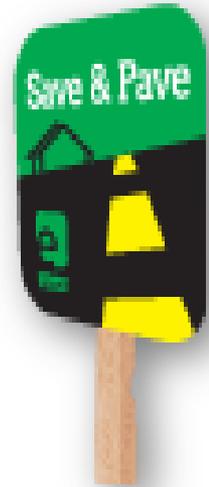
 - Service options

 - Cost Scenarios

□ Study Recommendations:

1. Contract with Save & Pave to:

- ❖ Educate and market services to roofing contractors
- ❖ Establish certification program
- ❖ Train staff in sampling procedure
- ❖ Pay all lab fees
- ❖ Coordinate collection schedule and transportation
- ❖ Market shingles to asphalt plant
- ❖ Services all provided from per ton fee of transported shingles



2. Consider two sorting options and fees:

❖ Unsorted loads

- All materials from the roofing job
- Transported and sorted by Save & Pave



❖ Sorted loads

- Shingles, tar paper and nails only
- Either train roofer to sort or done by the facility

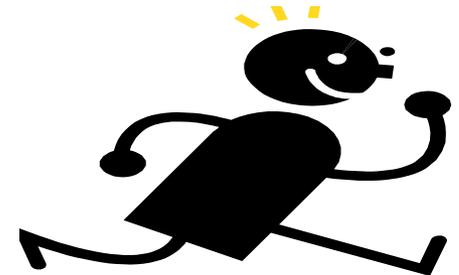


❖ Fee per ton for each sorting option

- Uniform fee for all agencies
- Variable fee based on agencies distance from Save & Pave

□ The Initiative Members:

1. Formed a 28E – Western Iowa Initiative
2. Applied for another grant for infrastructure needs in Guthrie, Shelby and Harrison Counties.
3. Agreed to contract with Save & Pave
 - ❖ Sorted shingles with uniform fee of \$28/ton
 - ❖ Discount of \$10 per ton
4. Program start in 2013

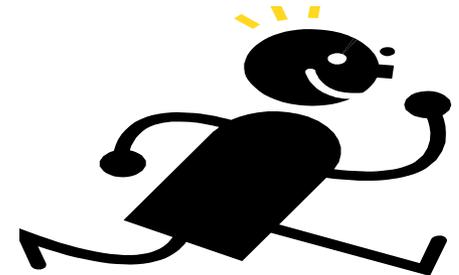


❑ SECOND SWAP APPLICATION

❖ Infrastructure:

- Guthrie County – concrete pad and jersey barriers
- Harrison County – litter fences and jersey barriers
- Shelby County – concrete pad and push wall

❖ Funding of \$32,283 received with the agencies contributing \$11,262. Worked completed in 2014.



❑ Current tipping fees for sorted clean loads delivered to the agencies:

<u>Agency</u>	<u>Tipping Fee/ton</u>	<u>Discount/ton</u>
Buena Vista	\$40	\$15
Carroll	\$30	\$13
Cass	\$80	\$20
Crawford	\$35	\$10
Guthrie	\$25	\$25
Harrison*	NA	NA
Shelby	\$32	\$10

*Not participating in the program at the current time

BUENA VISTA COLLECTION AREA



CARROLL COUNTY COLLECTION AREA



CASS COUNTY BALES



CRAWFORD COUNTY COLLECTION AREA



☐ Tons collected to date:

Agency	2013	2014	2015*	Total
Buena Vista	366	487	223	1076
Carroll	185	134	150	469
Cass	50	50	50	150
Crawford	169	263	109	541
Guthrie	NA	772	119	891
Harrison*	55	NA	NA	55
Shelby	NA	160	120	280
Total	825	1866	771	3462

*To date

□ Save and Pave:

- ❖ Growing pains
- ❖ Seamless sampling process
- ❖ Shingles collected and transported to designated site based on member location
- ❖ Grinder is up and running
- ❖ Working to establish long term market for ground shingles

□ Successes:

- ❖ Cooperation between agencies
- ❖ Great participation in Buena Vista
 - Lower tonnage this year due to several big jobs that had wood shakes
- ❖ Very beneficial system to have in place when a hail storm occurs like in Guthrie County
- ❖ Participants “like” the program
- ❖ Very easy to participate for customers
- ❖ Works with different types of infrastructure
- ❖ Waste diversion and landfill space savings

□ Obstacles:

- ❖ Concern with establishment of a reliable, consistent and stable market for ground shingles
- ❖ Incentive discount is not larger enough for some contractors and others in the program
- ❖ Coordination and timeliness of shingle transportation
- ❖ Lack of trucks to haul away shingles
- ❖ Communication and service to all Initiative members
- ❖ No perfect world when it comes to sorted loads – different definitions of “clean”

□ What's next:

- ❖ Continue to work through issues with Save and Pave
- ❖ Consider a larger discount to get more participation in the program
- ❖ Work with roofing contractors in the off season to encourage participation
- ❖ Continue to encourage individual participation in the program

THANK YOU

