

CDPH&E Grand Junction Stakeholder Meeting



Date: January 26, 2016; 8:30am-1pm

Location: Grand Junction, Historic Downtown Springhill Suites Hotel

Number Attending: 13 plus 3 representatives from CDPH&E, and 2 representatives from Skumatz Economic Research Associates, Inc. (SERA); Facilitated by Lisa Skumatz, SERA.

Communities Represented: Mesa County, Moffat County, Pitkin County, Garfield County, Mineral County, City of Aspen

Sectors Represented: Landfill owner / operators; Recycling / Composting Processing Facilities; City / County SW Staff; Elected officials; Recycling Businesses.

Overview: This group overall were very interested in collaborating to find solutions to solid waste issues. Most sectors in the regions were represented at this meeting. Notably absent were haulers and landfill representatives that had noncompliance status (though they were registered to attend). After reviewing the facility and compliance maps, more than half were surprised or unfamiliar with the facilities or their status, but all felt the disposal system was working well, or very well. One of the common messages was that there is a lack of transfer facilities and markets for recycled materials. Hauling to Denver or to the west coast is cost prohibitive and that they have geographical barriers to transportation (mountains). Many agreed that they do well with the “spokes” (from Hub & Spoke), but they “need the Hub.”

Voting Overview: Overwhelmingly respondents felt that the disposal system in their area was working well, on a scale of 1-5 with 5= very well, the weighted average was 4.6. The results were more mixed regarding the diversion system, the weighted average was 3.6, so working somewhat well. Nearly thirty percent of those voting felt that no recycling options had potential in their area, mostly due to economics. Residential curbside recycling, whether with a fee embedded or not, was seen as the next most likely options. Over a quarter responded that non-compliant or inadequate landfills should be converted into transfer stations.

Overall Meeting Impressions and Takeaway Notes: GRAND JUNCTION

- Economics and transportation most important
- They need a transfer station on the Western Slope
- It costs about \$119 for recycling (not including processing) vs. \$40-65 to landfill

1 Skumatz Economic Research Associates, Inc (SERA)

762 Eldorado Dr. Superior, Co; 303-494-1178 www.serainc.com

Under contract with Burns & McDonnell

CDPH&E ISWMM Plan Meetings

- “We’ve got the Spokes; we just need the Hub”
- Grand Junction and Aspen are much more aggressive than the rest of the region / not representative of what is achievable elsewhere
- One county feels everyone could / should be doing composting at their landfill
- Recycling takes money away from the landfills
- One person thought perhaps the airspace that it being taken away above the landfill should be taxed
- New regulations can’t be too aggressive on composting or it will be taxed (costed) out of existence
- For 2 landfills, county commissioners have established a policy that no outside waste can come in - they (their facilities) will take care of their own waste only
- Regulations affect the smaller landfills more than the larger ones in terms of cost and time spent
- Less reporting and paperwork
- Need help to establish local markets so they don’t have to haul to Denver or the West Coast
- Area produces 9.1 lbs/person/ day- More than average from EPA because each of their residents has “a tourist or two on their back”
- Didn’t want to commit to a recycling goal or specific number, but just to measure, show progress
- More inspection and enforcement for non-compliant landfills

Comments at the end were that several learned much about facilities and processes in the area that they were unaware of.

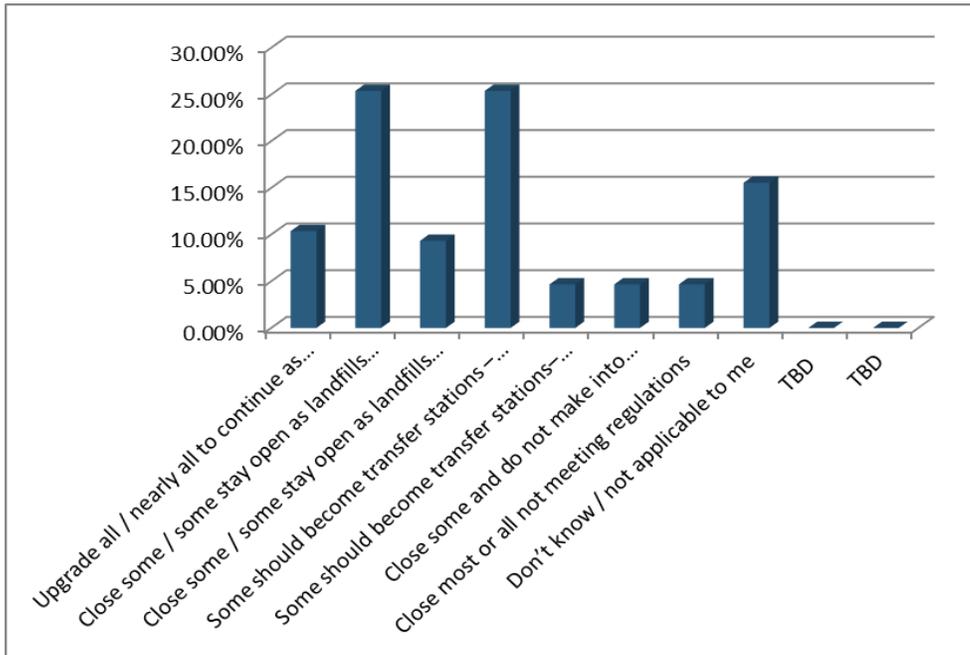
Select Voting Results

Figure 1. How well the disposal and recycling systems in the area are working now?

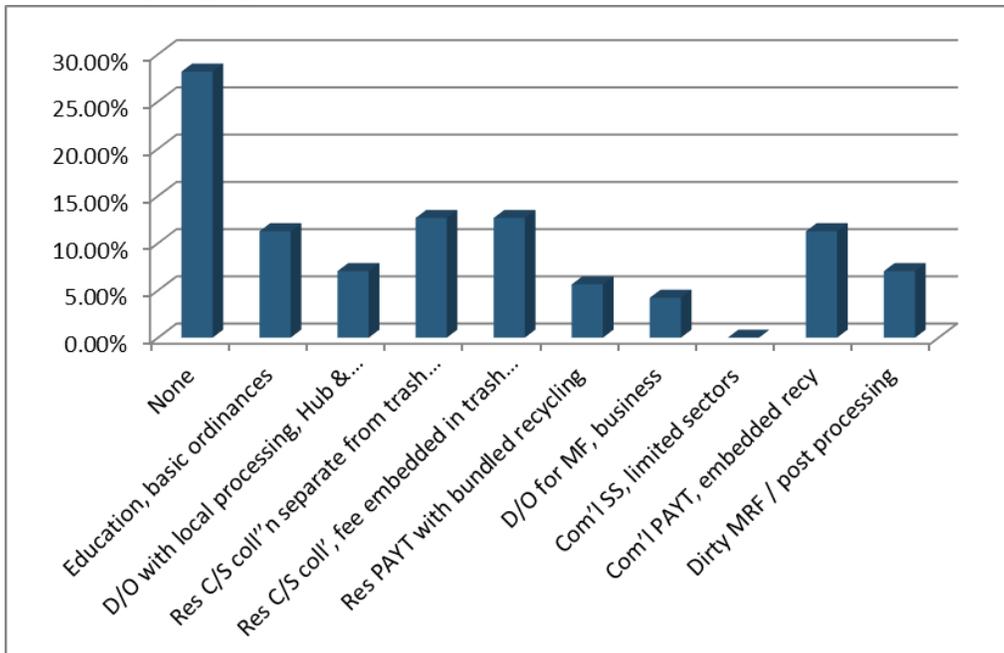
	Average score (1=not well at all; 5=working very well considering our area)	Percent responding don’t know.
Disposal System	4.6	8%
Recycling / Composting system	3.6	8%

Responses to two questions were key as inputs to the work on the Integrated Materials Management Plan. The responses – regarding region-specific preferred options for non-compliance landfills, and recycling options with potential, are provided below. Additional voting responses are provided in Appendix A.

1. Should Small Landfills NOT in Full Adequacy with Regulations Be Closed or Retrofitted?



2. Which Recycling Options Have the Most Potential in Your Area?



Appendix A provides the results of each of the “voting” questions posed during the stakeholder meeting. Appendix B provides highlights of the “pre-meeting” survey.

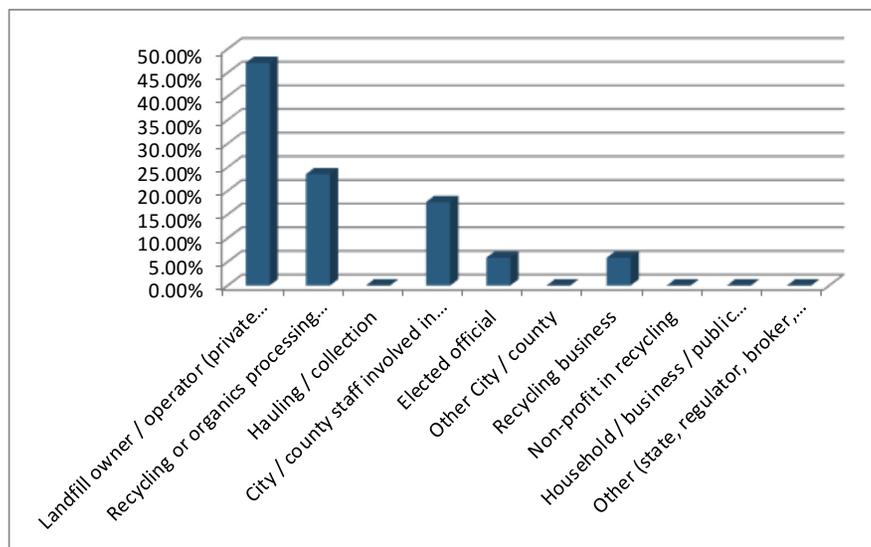
APPENDIX A –

CDPH&E Materials Management Stakeholders Meeting

Grand Junction Voting Results

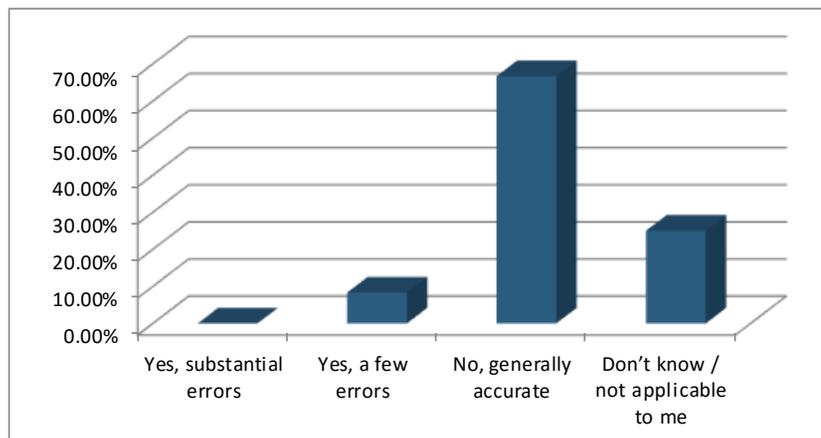
1. FEEDBACK 1 – Who is in the room? –Your PRIMARY SW responsibilities... (up to 2) (Multiple Choice - Multiple Response)

	Responses	
	Percent	Count
Landfill owner / operator (private or city/county)	47.06%	8
Recycling or organics processing facility owner /operator	23.53%	4
Hauling / collection	0.00%	0
City / county staff involved in recycling / planning	17.65%	3
Elected official	5.88%	1
Other City / county	0.00%	0
Recycling business	5.88%	1
Non-profit in recycling	0.00%	0
Household / business / public "generator"	0.00%	0
Other (state, regulator, broker, clerks, consultant, other)	0.00%	0
Totals	100%	17



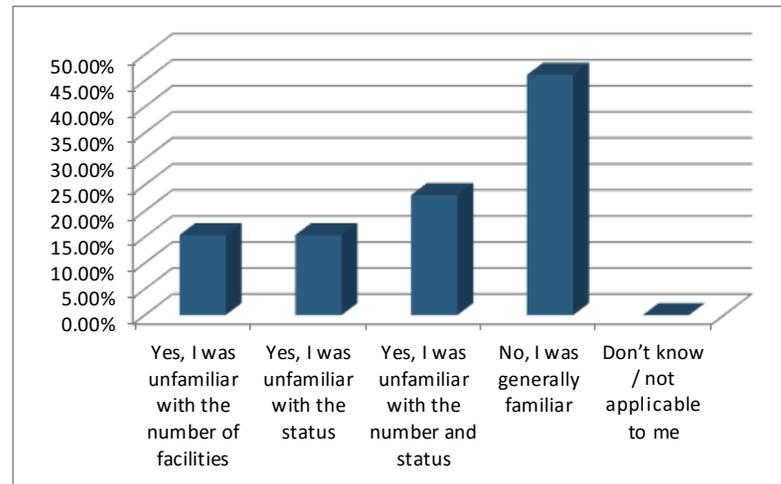
2. FEEDBACK 2 – Looking at LF MAP... Do you think the information on the map has errors? Correct errors in map at table / leave it behind with notes (Multiple Cho

	Responses	
	Percent	Count
Yes, substantial errors	0.00%	0
Yes, a few errors	8.33%	1
No, generally accurate	66.67%	8
Don't know / not applicable to me	25.00%	3
Totals	100%	12



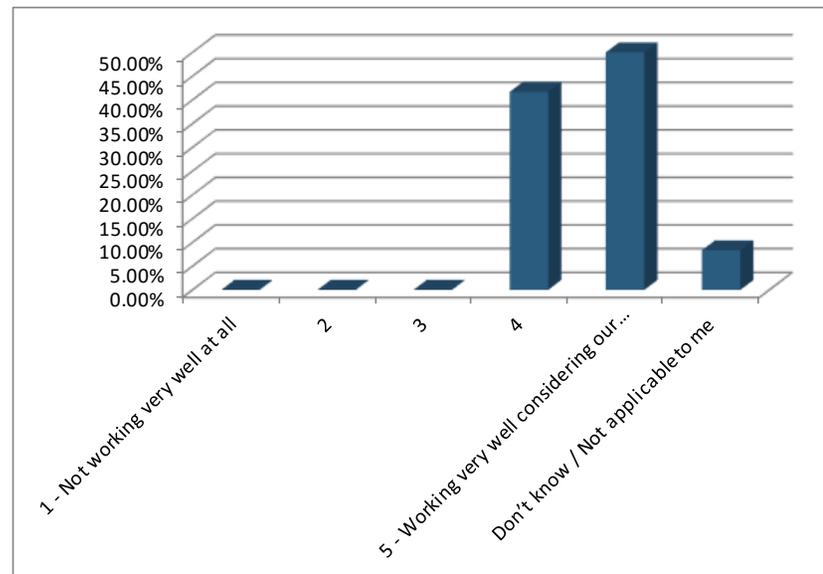
3. FEEDBACK 3 – Looking at LF MAP... Was the content of the LF map news to you / a surprise? (Multiple Choice)

	Responses	
	Percent	Count
Yes, I was unfamiliar with the number of facilities	15.38%	2
Yes, I was unfamiliar with the status	15.38%	2
Yes, I was unfamiliar with the number and status	23.08%	3
No, I was generally familiar	46.15%	6
Don't know / not applicable to me	0.00%	0
Totals	100%	13



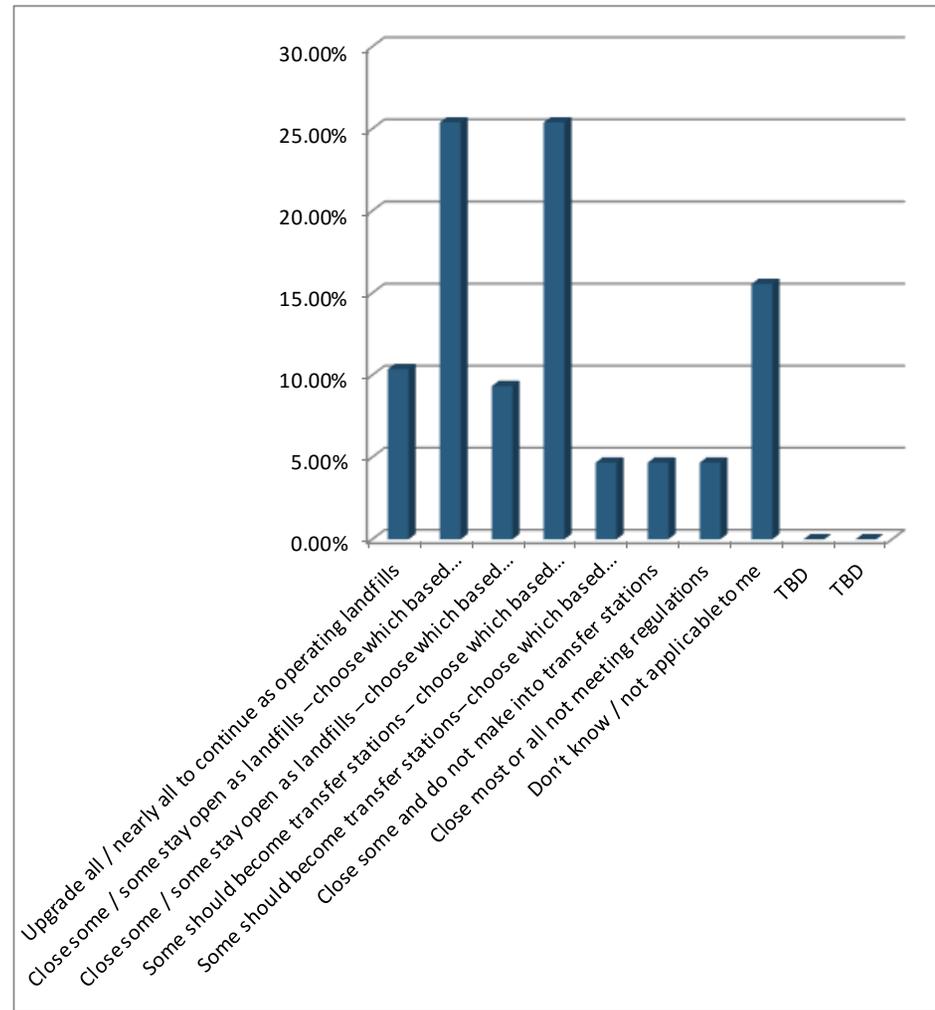
4. FEEDBACK 4 – Looking at LF map... How well is the current disposal system working? (Multiple Choice)

	Responses	
	Percent	Count
1 - Not working very well at all	0.00%	0
2	0.00%	0
3	0.00%	0
4	41.67%	5
5 - Working very well considering our local situation	50.00%	6
Don't know / Not applicable to me	8.33%	1
Totals	100%	12



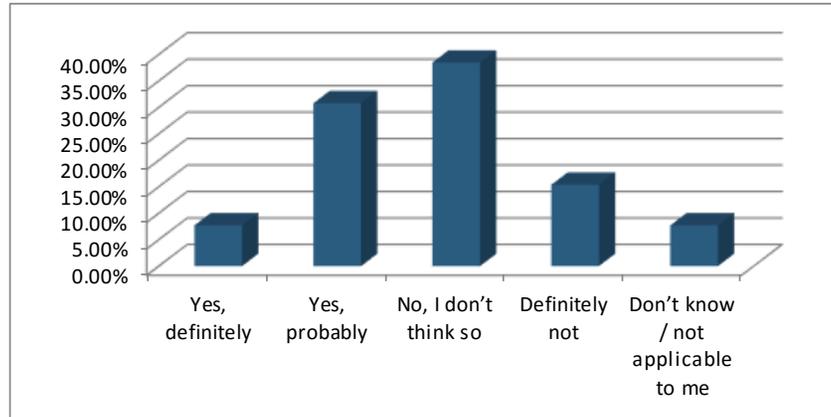
5. FEEDBACK 5 – Thinking about the landfills in your area... Should small landfills not in full adequacy with regulations be closed or retrofitted? (Up to 2 in order) (F

	Responses	
	Percent	Weighted Count
Upgrade all / nearly all to continue as operating landfills	10.36%	20
Close some / some stay open as landfills – choose which based mostly on location / convenience / access	25.39%	49
Close some / some stay open as landfills – choose which based mostly on cost	9.33%	18
Some should become transfer stations – choose which based mostly on location / convenience / access	25.39%	49
Some should become transfer stations– choose which based mostly on cost	4.66%	9
Close some and do not make into transfer stations	4.66%	9
Close most or all not meeting regulations	4.66%	9
Don't know / not applicable to me	15.54%	30
TBD	0.00%	0
TBD	0.00%	0
Totals	100%	193



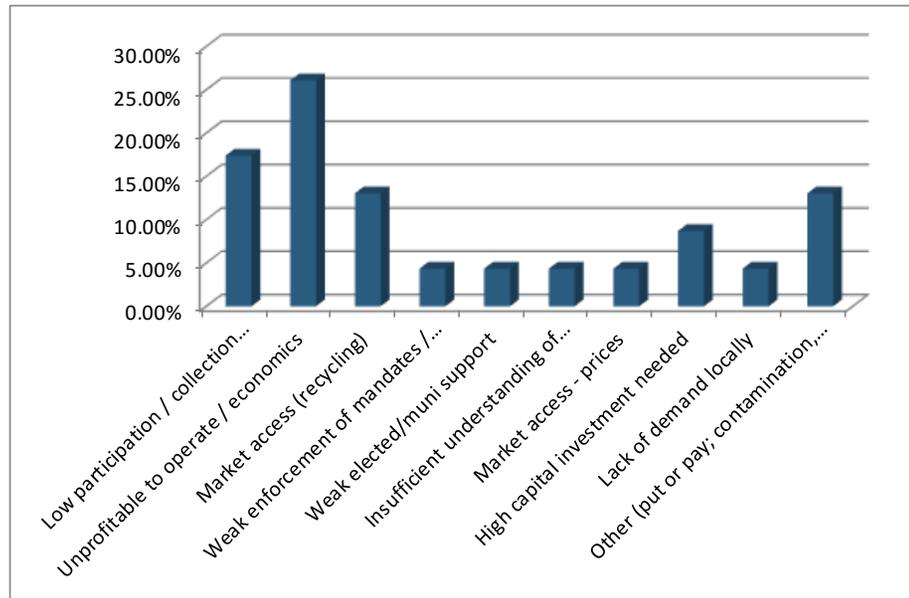
6. FEEDBACK 6 – Thinking about the landfills in your area... Would regionalization of landfilling make sense in your area? (Multiple Choice)

	Responses	
	Percent	Count
Yes, definitely	7.69%	1
Yes, probably	30.77%	4
No, I don't think so	38.46%	5
Definitely not	15.38%	2
Don't know / not applicable to me	7.69%	1
Totals	100%	13



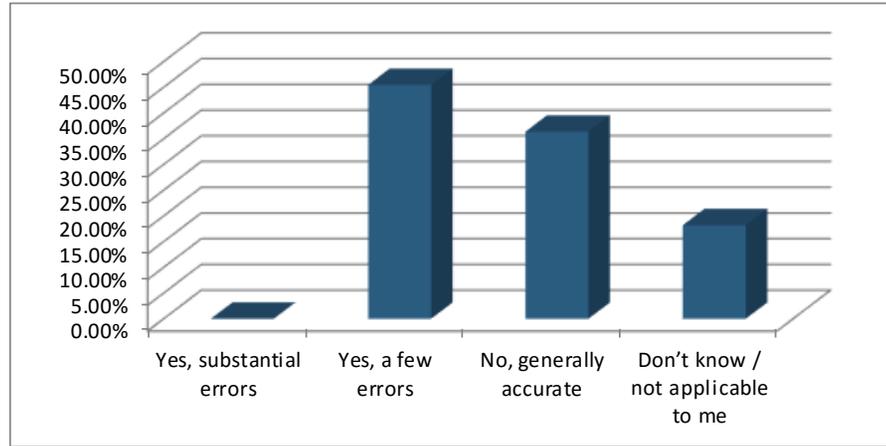
7. FEEDBACK 7 – Barriers to more recycling / composting (2 most important) Other barriers – write in your “leave-behind” notebook (Multiple Choice - Multiple Resp

	Responses	
	Percent	Count
Low participation / collection program weaknesses/lack of supply	17.39%	4
Unprofitable to operate / economics	26.09%	6
Market access (recycling)	13.04%	3
Weak enforcement of mandates / regulations	4.35%	1
Weak elected/muni support	4.35%	1
Insufficient understanding of technology (compost)	4.35%	1
Market access - prices	4.35%	1
High capital investment needed	8.70%	2
Lack of demand locally	4.35%	1
Other (put or pay; contamination, permit issues, other)	13.04%	3
Totals	100%	23



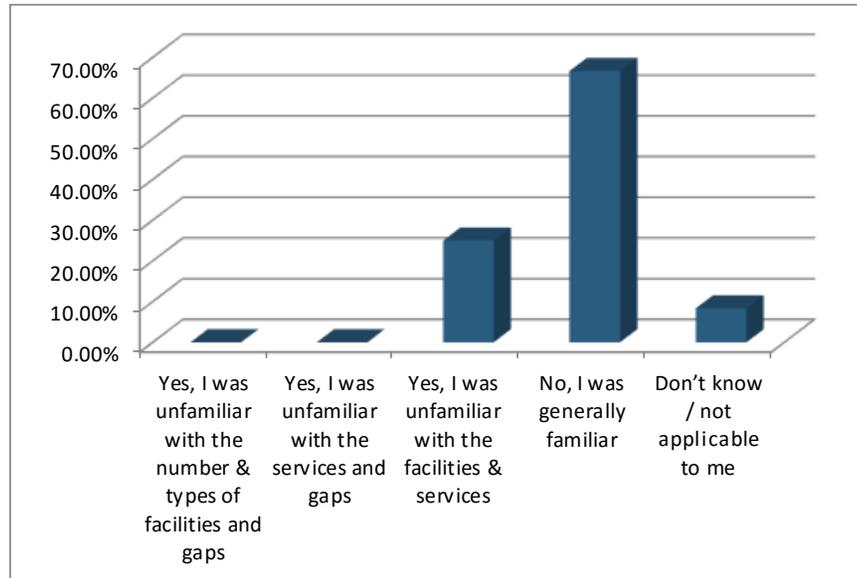
8. FEEDBACK 8 – Looking at all facilities map ... Do you think the DIVERSION information on the map has errors? (Multiple Choice)

	Responses	
	Percent	Count
Yes, substantial errors	0.00%	0
Yes, a few errors	45.45%	5
No, generally accurate	36.36%	4
Don't know / not applicable to me	18.18%	2
Totals	100%	11



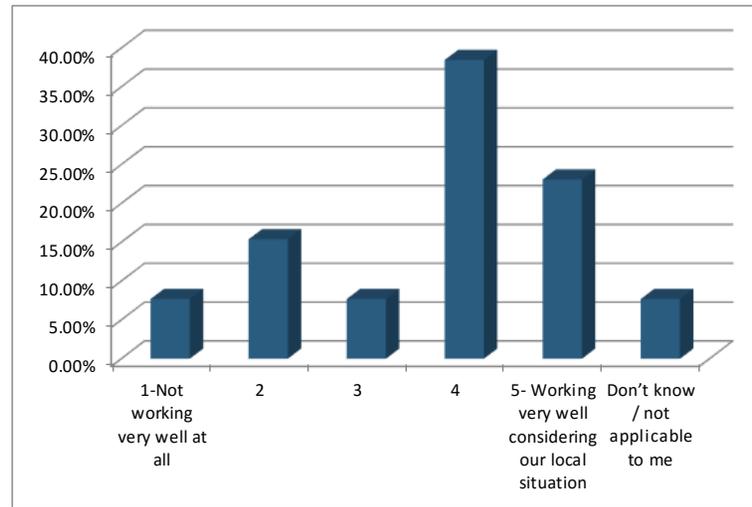
9. FEEDBACK 9 – Looking at all facilities map - Was the content of the DIVERSION information news to you / a surprise? (Multiple Choice)

	Responses	
	Percent	Count
Yes, I was unfamiliar with the number & types of facilities and gaps	0.00%	0
Yes, I was unfamiliar with the services and gaps	0.00%	0
Yes, I was unfamiliar with the facilities & services	25.00%	3
No, I was generally familiar	66.67%	8
Don't know / not applicable to me	8.33%	1
Totals	100%	12



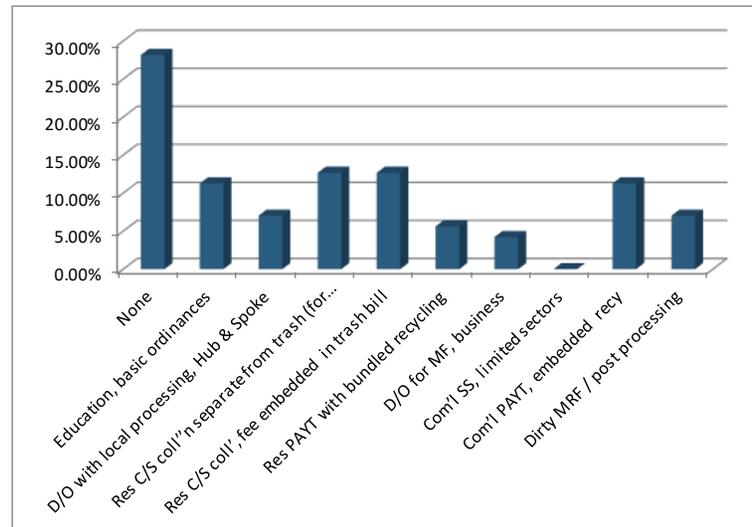
10. FEEDBACK 10 – Looking at all facilities map... How well is the current diversion system working? (Multiple Choice)

	Responses	
	Percent	Count
1-Not working very well at all	7.69%	1
2	15.38%	2
3	7.69%	1
4	38.46%	5
5- Working very well considering our local situation	23.08%	3
Don't know / not applicable to me	7.69%	1
Totals	100%	13



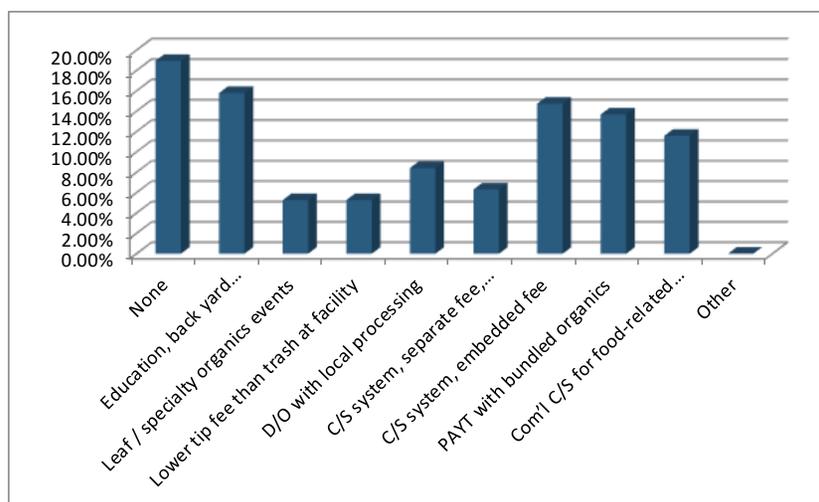
11. FEEDBACK 11a: Which 3 Recy Options Have Potential In Your Area? (mark 3 in order – most to least) (Priority Ranking)

	Responses	
	Percent	Weighted Count
None	28.17%	20
Education, basic ordinances	11.27%	8
D/O with local processing, Hub & Spoke	7.04%	5
Res C/S coll'n separate from trash (for a fee; voluntary)	12.68%	9
Res C/S coll', fee embedded in trash bill	12.68%	9
Res PAYT with bundled recycling	5.63%	4
D/O for MF, business	4.23%	3
Com'l SS, limited sectors	0.00%	0
Com'l PAYT, embedded recy	11.27%	8
Dirty MRF / post processing	7.04%	5
Totals	100%	71



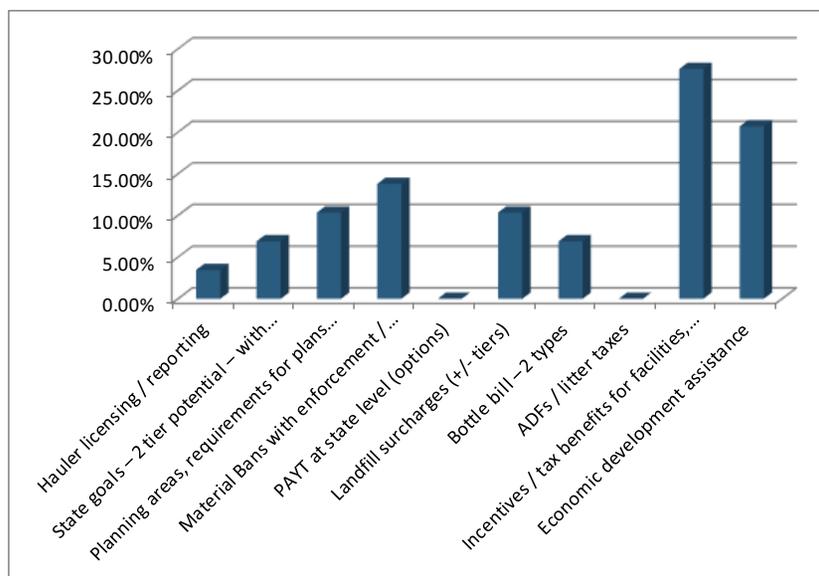
12. FEEDBACK 12a: Which 3 Organics Options Have Potential In Your Area? (mark 3 in order – most to least) (Priority Ranking)

	Responses	
	Percent	Weighted Count
None	18.95%	18
Education, back yard composting (BYC)	15.79%	15
Leaf / specialty organics events	5.26%	5
Lower tip fee than trash at facility	5.26%	5
D/O with local processing	8.42%	8
C/S system, separate fee, voluntary	6.32%	6
C/S system, embedded fee	14.74%	14
PAYT with bundled organics	13.68%	13
Com'l C/S for food-related businesses	11.58%	11
Other	0.00%	0
Totals	100%	95



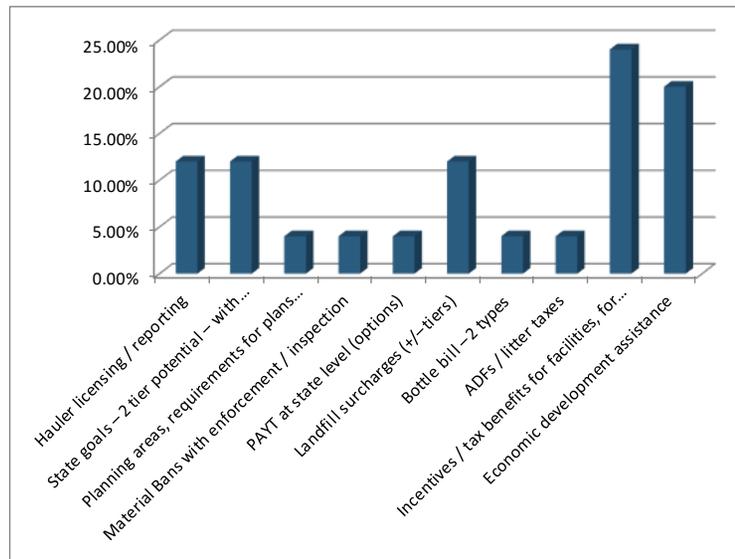
13. FEEDBACK 13r – Best suited to WORK for your area – Diversion (vote for 3) (Multiple Choice - Multiple Response)

	Responses	
	Percent	Count
Hauler licensing / reporting	3.45%	1
State goals – 2 tier potential – with measurement	6.90%	2
Planning areas, requirements for plans with authorization for funding; LF assist; Enforcement & measurement	10.34%	3
Material Bans with enforcement / inspection	13.79%	4
PAYT at state level (options)	0.00%	0
Landfill surcharges (+/- tiers)	10.34%	3
Bottle bill – 2 types	6.90%	2
ADFs / litter taxes	0.00%	0
Incentives / tax benefits for facilities, for co-location	27.59%	8
Economic development assistance	20.69%	6
Totals	100%	29



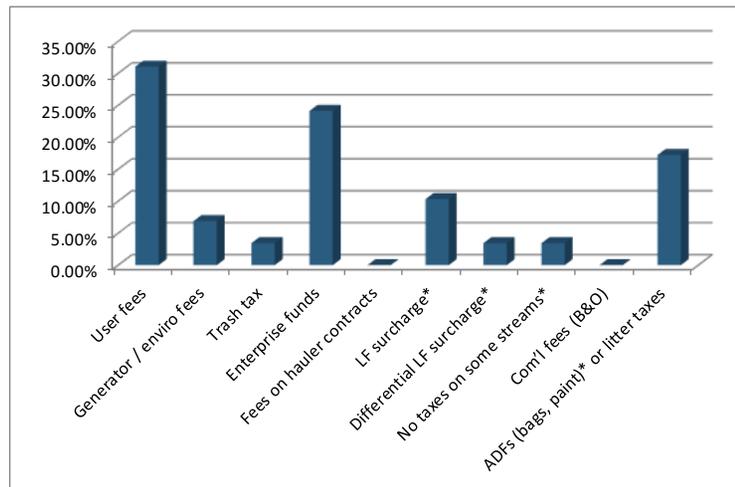
14. FEEDBACK 14r– Most likely to get SUPPORT in your area – (vote for 3) (Multiple Choice - Multiple Response)

	Responses	
	Percent	Count
Hauler licensing / reporting	12.00%	3
State goals – 2 tier potential – with measurement	12.00%	3
Planning areas, requirements for plans with authorization for funding; LF assist; Enforcement & measurement	4.00%	1
Material Bans with enforcement / inspection	4.00%	1
PAYT at state level (options)	4.00%	1
Landfill surcharges (+/- tiers)	12.00%	3
Bottle bill – 2 types	4.00%	1
ADFs / litter taxes	4.00%	1
Incentives / tax benefits for facilities, for co-location	24.00%	6
Economic development assistance	20.00%	5
Totals	100%	25



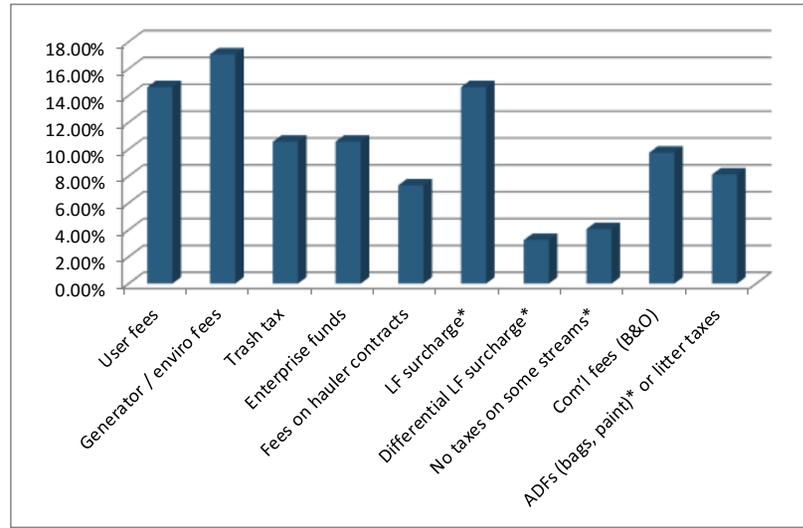
15. FEEDBACK 15r – Funding Options already in place locally (vote for 3) (Multiple Choice - Multiple Response)

	Responses	
	Percent	Count
User fees	31.03%	9
Generator / enviro fees	6.90%	2
Trash tax	3.45%	1
Enterprise funds	24.14%	7
Fees on hauler contracts	0.00%	0
LF surcharge*	10.34%	3
Differential LF surcharge*	3.45%	1
No taxes on some streams*	3.45%	1
Com'l fees (B&O)	0.00%	0
ADFs (bags, paint)* or litter taxes	17.24%	5
Totals	100%	29



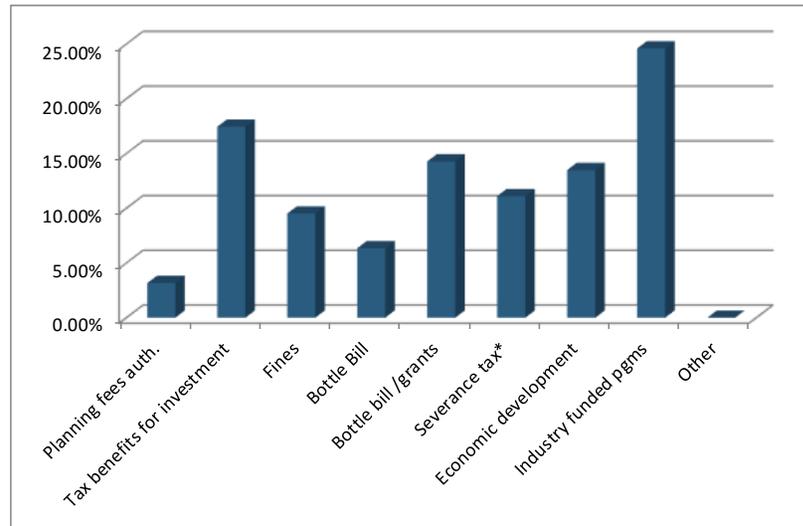
16. FEEDBACK 16r – Most likely “Next” local funding options to get SUPPORT (up to 3 in order of support) (Priority Ranking)

	Responses	
	Percent	Weighted Count
User fees	14.63%	18
Generator / enviro fees	17.07%	21
Trash tax	10.57%	13
Enterprise funds	10.57%	13
Fees on hauler contracts	7.32%	9
LF surcharge*	14.63%	18
Differential LF surcharge*	3.25%	4
No taxes on some streams*	4.07%	5
Com'l fees (B&O)	9.76%	12
ADFs (bags, paint)* or litter taxes	8.13%	10
Totals	100%	123



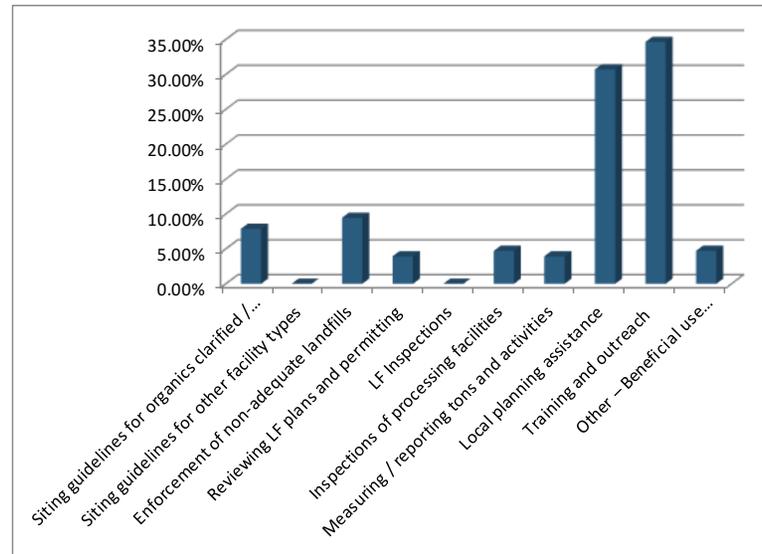
17. FEEDBACK 17r– Other funding options you’d most SUPPORT (up to 3 in order of support) (Priority Ranking)

	Responses	
	Percent	Weighted Count
Planning fees auth.	3.17%	4
Tax benefits for investment	17.46%	22
Fines	9.52%	12
Bottle Bill	6.35%	8
Bottle bill /grants	14.29%	18
Severance tax*	11.11%	14
Economic development	13.49%	17
Industry funded pgms	24.60%	31
Other	0.00%	0
Totals	100%	126



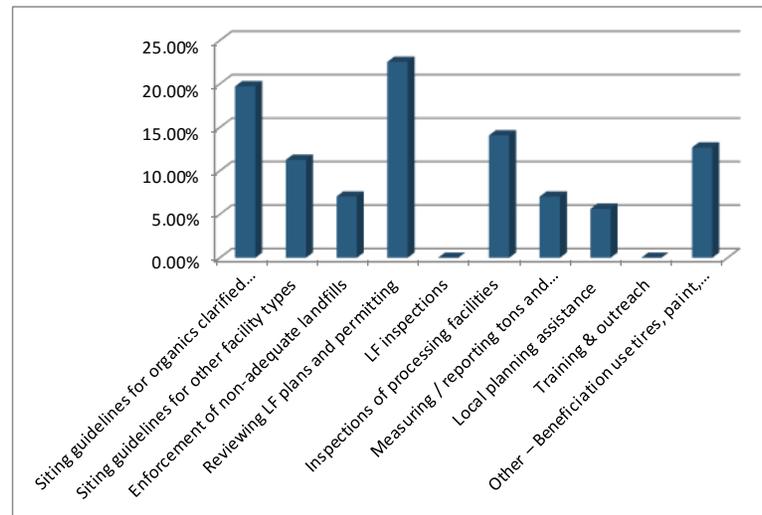
18. FEEDBACK 18 –What are the top 3 things you think the state should do MORE of? – (Click 3 answers in ORDER most important to least) (Priority Ranking)

	Responses	
	Percent	Weighted Count
Siting guidelines for organics clarified / released	7.87%	10
Siting guidelines for other facility types	0.00%	0
Enforcement of non-adequate landfills	9.45%	12
Reviewing LF plans and permitting	3.94%	5
LF Inspections	0.00%	0
Inspections of processing facilities	4.72%	6
Measuring / reporting tons and activities	3.94%	5
Local planning assistance	30.71%	39
Training and outreach	34.65%	44
Other – Beneficial use permit/oversight, tires, paint, pharma, HHW	4.72%	6
Totals	100%	127



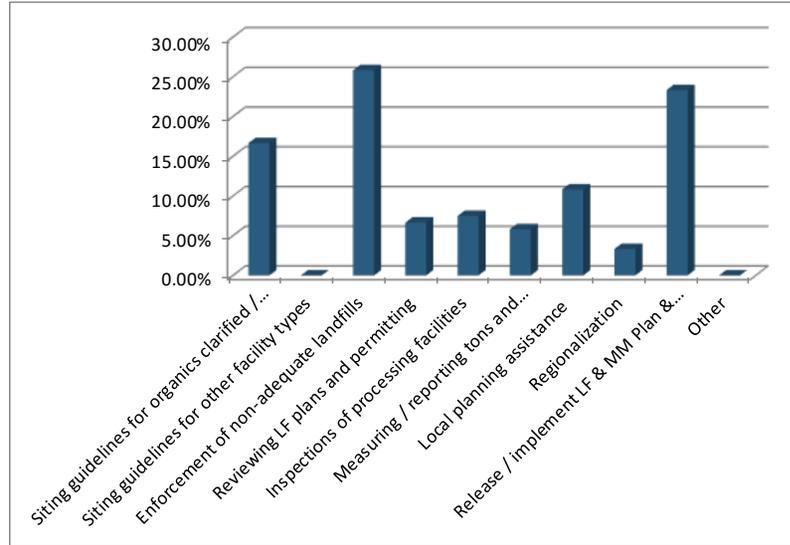
19. FEEDBACK 19 –What are the top 3 things you think the state should do LESS of? – (Click 3 answers in ORDER most important to least) (Priority Ranking)

	Responses	
	Percent	Weighted Count
Siting guidelines for organics clarified / released	19.72%	14
Siting guidelines for other facility types	11.27%	8
Enforcement of non-adequate landfills	7.04%	5
Reviewing LF plans and permitting	22.54%	16
LF inspections	0.00%	0
Inspections of processing facilities	14.08%	10
Measuring / reporting tons and activities	7.04%	5
Local planning assistance	5.63%	4
Training & outreach	0.00%	0
Other – Beneficiation use tires, paint, pharma, HHW	12.68%	9
Totals	100%	71



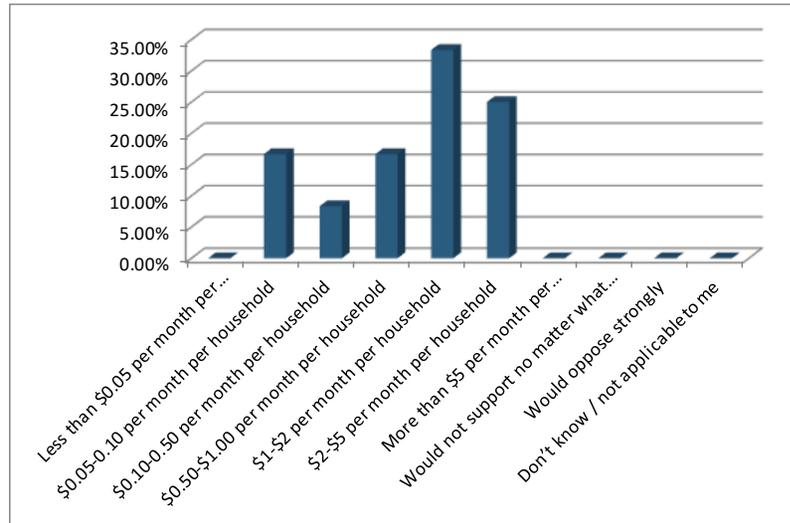
20. FEEDBACK 20 –What are the top 3 things you think the state should do SOON? – (Click 3 answers in ORDER most important to least) (Priority Ranking)

	Responses	
	Percent	Weighted Count
Siting guidelines for organics clarified / released	16.67%	20
Siting guidelines for other facility types	0.00%	0
Enforcement of non-adequate landfills	25.83%	31
Reviewing LF plans and permitting	6.67%	8
Inspections of processing facilities	7.50%	9
Measuring / reporting tons and activities	5.83%	7
Local planning assistance	10.83%	13
Regionalization	3.33%	4
Release / implement LF & MM Plan & regs / funding	23.33%	28
Other	0.00%	0
Totals	100%	120



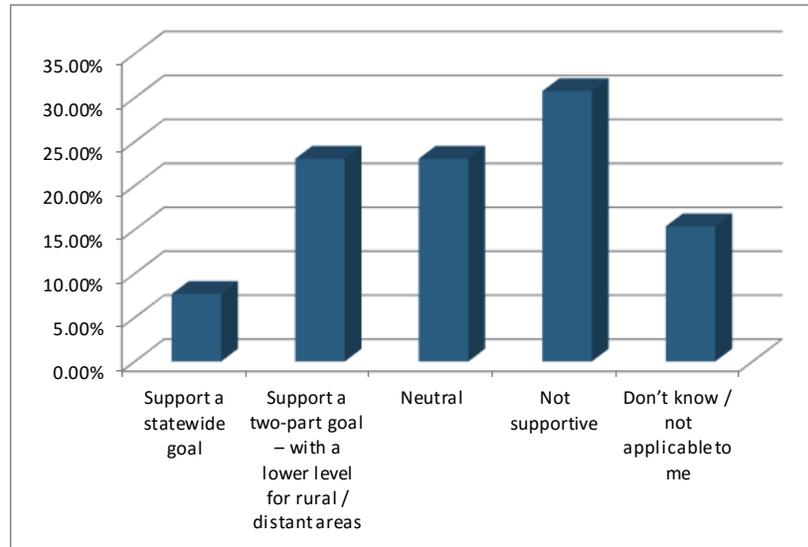
21. FEEDBACK 21 –If a trash tax or “generator fee” were introduced, what dollar amount should it be? (Multiple Choice)

	Responses	
	Percent	Count
Less than \$0.05 per month per household	0.00%	0
\$0.05-0.10 per month per household	16.67%	2
\$0.10-0.50 per month per household	8.33%	1
\$0.50-\$1.00 per month per household	16.67%	2
\$1-\$2 per month per household	33.33%	4
\$2-\$5 per month per household	25.00%	3
More than \$5 per month per household	0.00%	0
Would not support no matter what level	0.00%	0
Would oppose strongly	0.00%	0
Don't know / not applicable to me	0.00%	0
Totals	100%	12



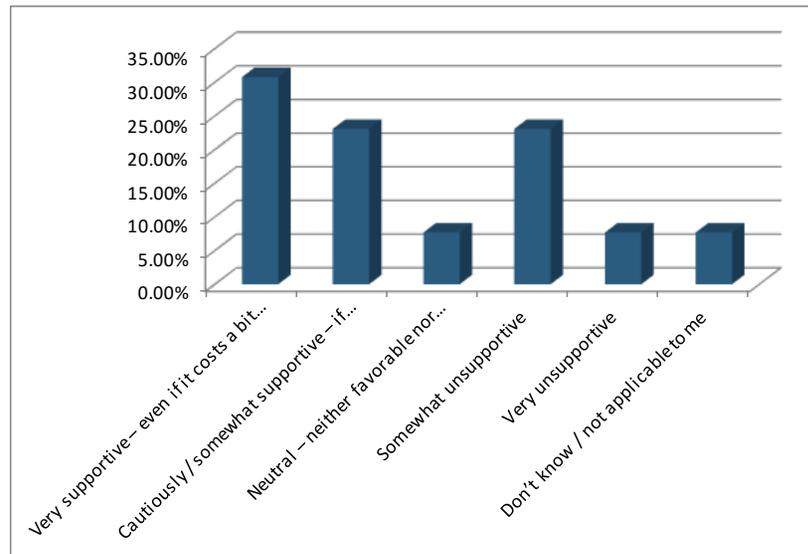
22. FEEDBACK 22 – How supportive are YOU for the State to establish a recycling goal? (Multiple Choice)

Responses		
	Percent	Count
Support a statewide goal	7.69%	1
Support a two-part goal – with a lower level for rural / distant areas	23.08%	3
Neutral	23.08%	3
Not supportive	30.77%	4
Don't know / not applicable to me	15.38%	2
Totals	100%	13



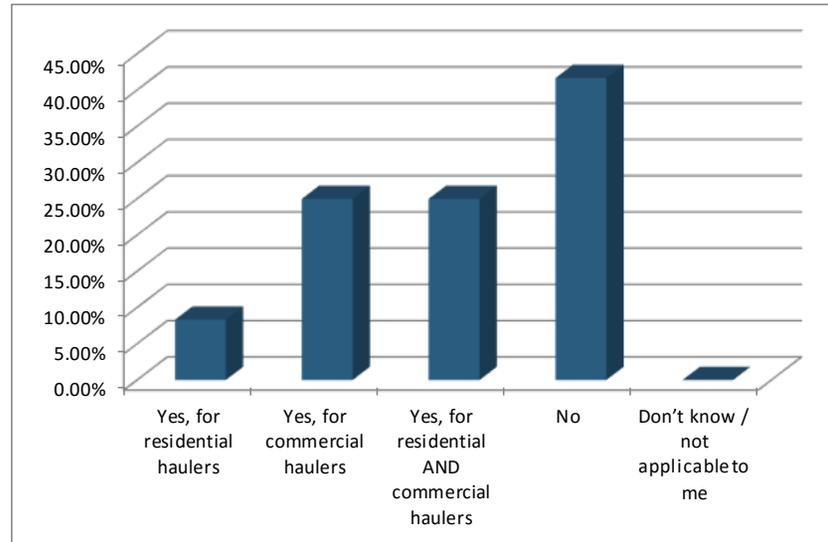
23. FEEDBACK 23 – How supportive are your decision-makers of more recycling in your community – given your local economics? (Multiple Choice)

Responses		
	Percent	Count
Very supportive – even if it costs a bit more	30.77%	4
Cautiously / somewhat supportive – if it doesn't pencil out too badly	23.08%	3
Neutral – neither favorable nor unfavorable – it is all about the	7.69%	1
Somewhat unresponsive	23.08%	3
Very unresponsive	7.69%	1
Don't know / not applicable to me	7.69%	1
Totals	100%	13



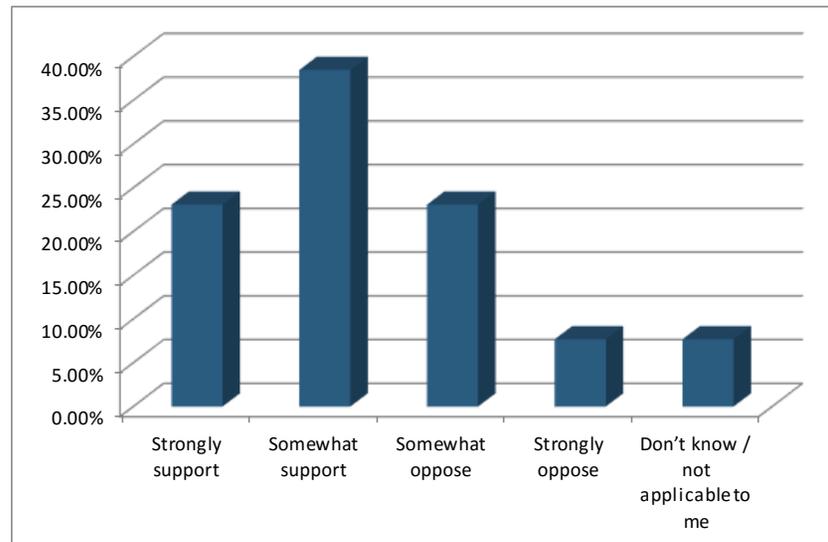
24. FEEDBACK 24 –Would you find it acceptable to have hauler licensing, require tonnage reporting, and report back to you on diversion, and disposed tons? (Multi

	Responses	
	Percent	Count
Yes, for residential haulers	8.33%	1
Yes, for commercial haulers	25.00%	3
Yes, for residential AND commercial haulers	25.00%	3
No	41.67%	5
Don't know / not applicable to me	0.00%	0
Totals	100%	12



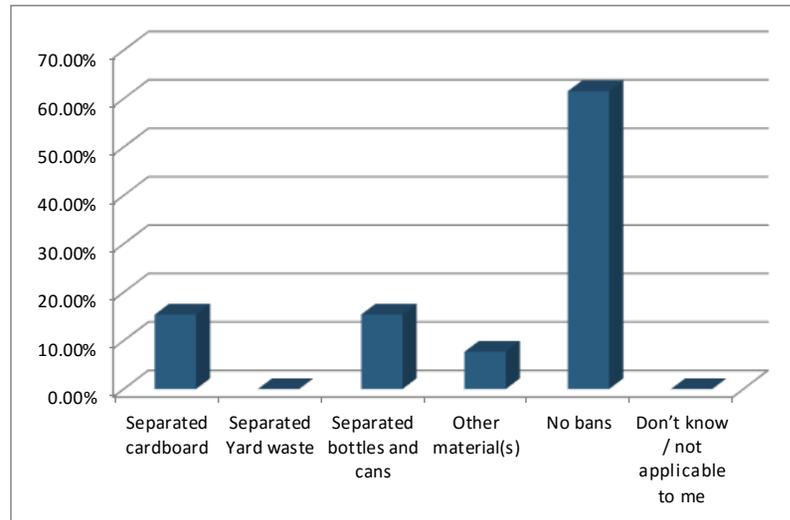
25. FEEDBACK 25 –Do you support the State considering introducing regional planning areas (adjoining counties, watershed) for solid waste management planning

	Responses	
	Percent	Count
Strongly support	23.08%	3
Somewhat support	38.46%	5
Somewhat oppose	23.08%	3
Strongly oppose	7.69%	1
Don't know / not applicable to me	7.69%	1
Totals	100%	13



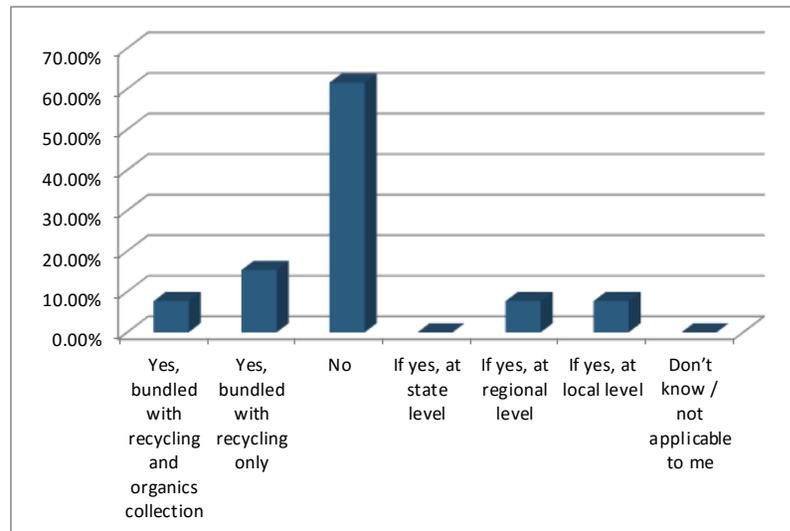
26. FEEDBACK 26 – Should the State consider BANNING any of these materials from disposal? (Multiple Choice - Multiple Response)

Responses		
	Percent	Count
Separated cardboard	15.38%	2
Separated Yard waste	0.00%	0
Separated bottles and cans	15.38%	2
Other material(s)	7.69%	1
No bans	61.54%	8
Don't know / not applicable to me	0.00%	0
Totals	100%	13



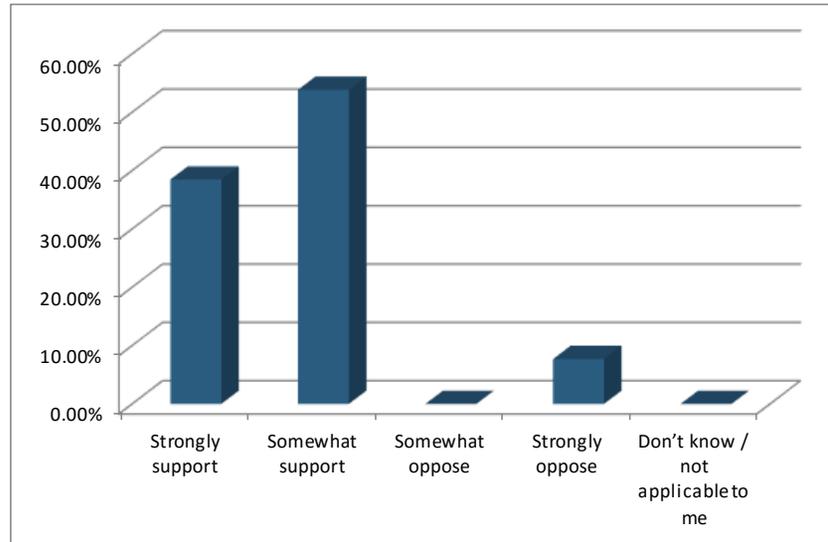
27. FEEDBACK 27 –Would your community support PAYT-type rate incentives for trash bundled with recycling options? (vote for “level” too) (Multiple Choice)

Responses		
	Percent	Count
Yes, bundled with recycling and organics collection	7.69%	1
Yes, bundled with recycling only	15.38%	2
No	61.54%	8
If yes, at state level	0.00%	0
If yes, at regional level	7.69%	1
If yes, at local level	7.69%	1
Don't know / not applicable to me	0.00%	0
Totals	100%	13



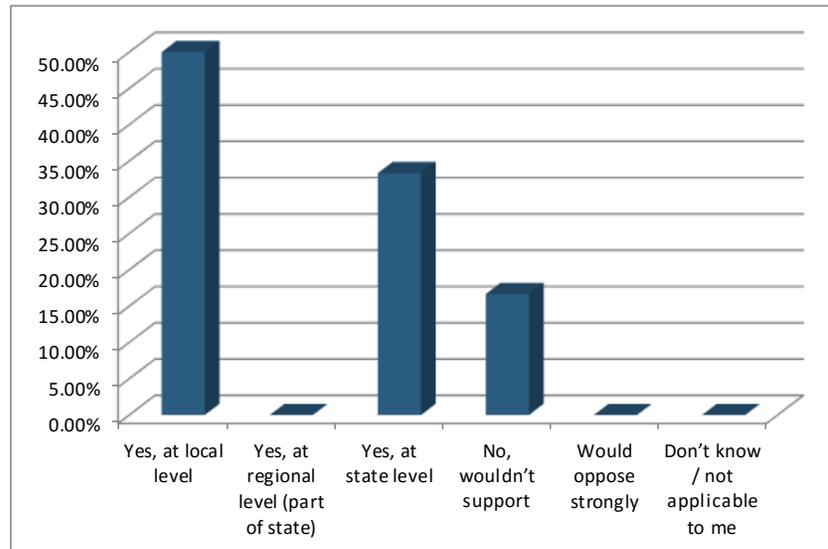
28. FEEDBACK 28 – Thinking about feasible recycling options in your area... Would you support consideration of Hub and Spoke in this area? (Multiple Choice)

Responses		
	Percent	Count
Strongly support	38.46%	5
Somewhat support	53.85%	7
Somewhat oppose	0.00%	0
Strongly oppose	7.69%	1
Don't know / not applicable to me	0.00%	0
Totals	100%	13



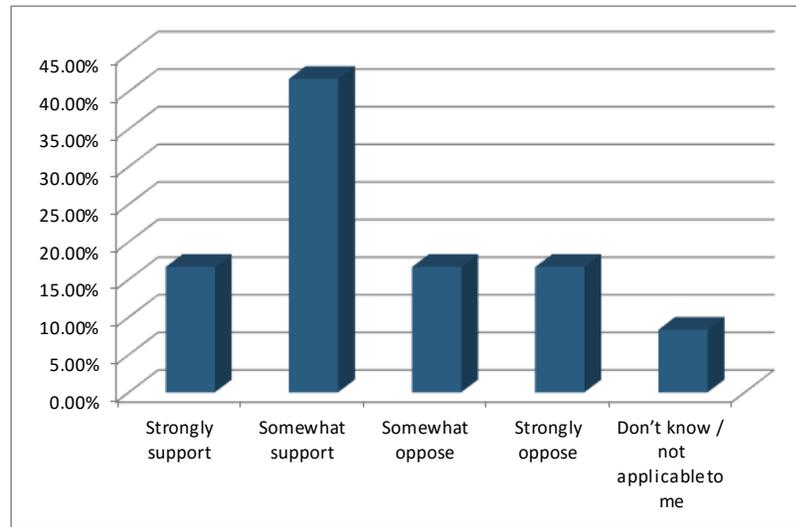
29. FEEDBACK 29 –Would you support a “trash tax” or “generator fee” to help support solid waste management planning? (Multiple Choice)

Responses		
	Percent	Count
Yes, at local level	50.00%	6
Yes, at regional level (part of state)	0.00%	0
Yes, at state level	33.33%	4
No, wouldn't support	16.67%	2
Would oppose strongly	0.00%	0
Don't know / not applicable to me	0.00%	0
Totals	100%	12



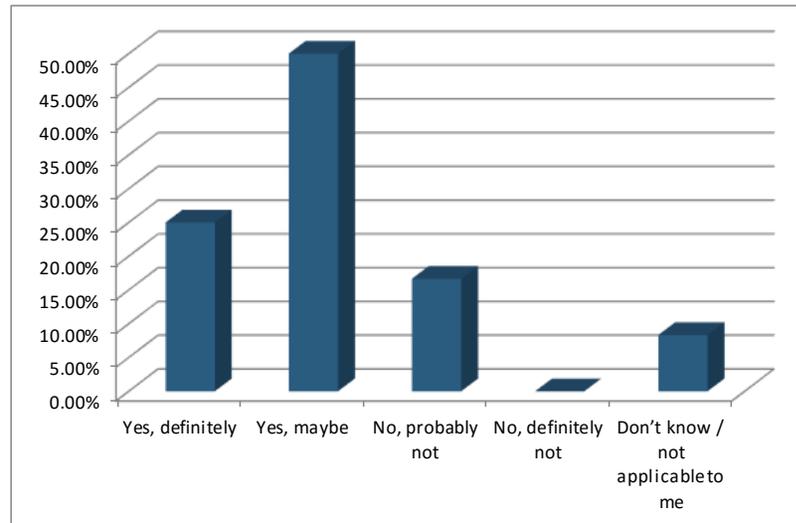
30. FEEDBACK 30 – Do you think WTE or similar technologies would be supported in this area? (Multiple Choice)

Responses		
	Percent	Count
Strongly support	16.67%	2
Somewhat support	41.67%	5
Somewhat oppose	16.67%	2
Strongly oppose	16.67%	2
Don't know / not applicable to me	8.33%	1
Totals	100%	12



31. FEEDBACK 31 – Do you think YOUR county's Economic Development Dep't could be useful in improving recycling environment? (Multiple Choice)

Responses		
	Percent	Count
Yes, definitely	25.00%	3
Yes, maybe	50.00%	6
No, probably not	16.67%	2
No, definitely not	0.00%	0
Don't know / not applicable to me	8.33%	1
Totals	100%	12



APPENDIX B-

CDPH&E Materials Management

Grand Junction Pre-Meeting Survey Results

Q2 How many years have you (worked in / been part) of Waste / Recycling / Materials Management?

Answered: 9 Skipped: 0

Answer Choices	Responses
4 (4)	11% 1
5 (5)	11% 1
6 (6)	11% 1
8 (8)	11% 1
10 (10)	11% 1
13 (13)	11% 1
20 (20)	11% 1
25 (25)	11% 1
33 (33)	11% 1
Total	9

Basic Statistics				
Minimum	Maximum	Median	Mean	Standard Deviation
4.00	33.00	10.00	13.78	9.52

Q3 How many years have you (worked in / been part) of Waste / Recycling / Materials Management IN COLORADO?

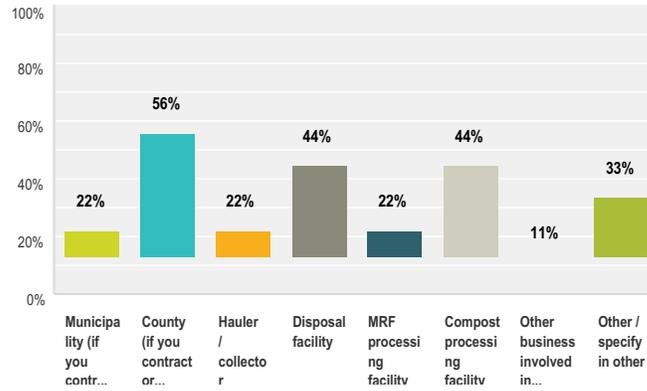
Answered: 9 Skipped: 0

Answer Choices	Responses
4 (4)	11% 1
5 (5)	11% 1
6 (6)	11% 1
8 (8)	11% 1
10 (10)	11% 1
13 (13)	11% 1
20 (20)	11% 1
23 (23)	11% 1
25 (25)	11% 1
Total	9

Basic Statistics				
Minimum	Maximum	Median	Mean	Standard Deviation
4.00	25.00	10.00	12.67	7.60

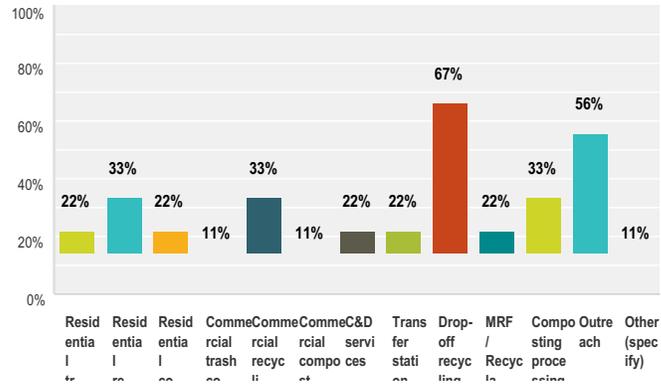
Q4 Which of the following best describes your (or your company's) role in solid waste (check all that apply):

Answered: 9 Skipped: 0



Q5 Which of the following services do you provide? (check all that apply)

Answered: 9 Skipped: 0



CDPHE 2016 Materials Management – Pre-Meeting Survey

**Q9 Please list which of these are available
in your area (the one you listed above)?
(check all that apply)**

Answered: 8 Skipped: 1

	In City / Town	In County	Other	Not Available	Total Respondents
Residential trash collection	86% 6	86% 6	0% 0	0% 0	7
Residential recycling collection	100% 7	71% 5	0% 0	0% 0	7
Residential composting collection	60% 3	80% 4	0% 0	20% 1	5
Drop off recycling	86% 6	86% 6	0% 0	0% 0	7
Drop off composting	40% 2	100% 5	0% 0	0% 0	5
Commercial trash collection	86% 6	86% 6	0% 0	0% 0	7
Commercial recycling collection	83% 5	83% 5	0% 0	0% 0	6
Commercial composting collection	60% 3	60% 3	0% 0	40% 2	5
C&D services	60% 3	100% 5	0% 0	0% 0	5
Transfer Station	20% 1	80% 4	0% 0	20% 1	5
Recycling Processing (MRF)	40% 2	0% 0	0% 0	60% 3	5
Compost Processing	17% 1	83% 5	0% 0	17% 1	6
Outreach	71% 5	86% 6	0% 0	0% 0	7
Hazardous waste materials site	17% 1	83% 5	0% 0	17% 1	6
Hazardous waste events	43% 3	71% 5	0% 0	29% 2	7
Electronics collection events	67% 4	100% 6	0% 0	0% 0	6
Require space for recycling	67% 2	33% 1	0% 0	33% 1	3
Recycling Material Bans / Mandates	20% 1	40% 2	0% 0	40% 2	5
Composting Materials Bans / Mandates	25% 1	25% 1	0% 0	75% 3	4
Commercial Recycling Requirement	40% 2	0% 0	0% 0	60% 3	5
Commercial Composting / Green Waste Requirements	0% 0	0% 0	25% 1	75% 3	4
Hub & Spoke Programs	40% 2	40% 2	0% 0	60% 3	5
Residential PAYT	75% 3	25% 1	0% 0	25% 1	4
Commercial PAYT (recycling included in rates)	80% 4	20% 1	0% 0	20% 1	5

CDPHE 2016 Materials Management – Pre-Meeting Survey

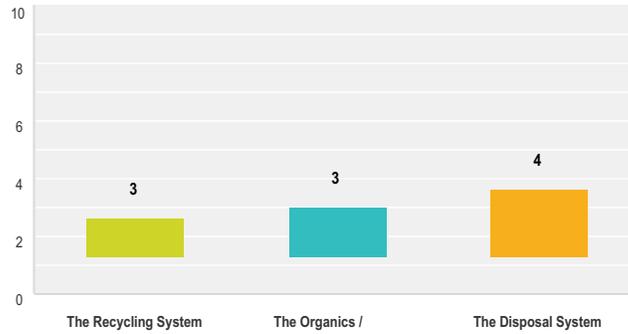
**Q10 If available- Who provides the following
in your area?**

Answered: 7 Skipped: 2

	Residential curbside trash collection	Residential curbside recycling collection	Residential yard / green waste collection	Total Respondents
Open subscriptions	33% 2	33% 2	33% 2	6
City staff	50% 3	33% 2	17% 1	6
County staff	0% 0	0% 0	100% 2	2
Contract Hauler(s)	42% 5	50% 6	8% 1	12
Other	0% 0	0% 0	0% 0	0

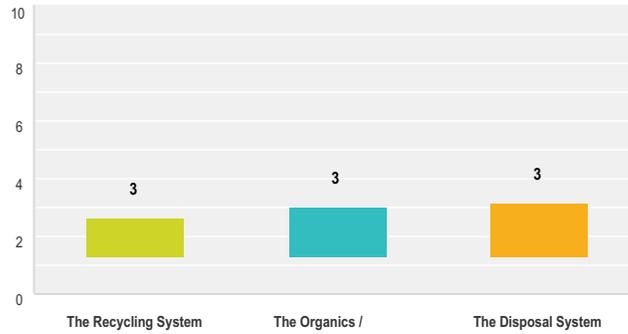
Q12 How well do you think each of the following is working in your area? (1= not well; 5= very well)

Answered: 8 Skipped: 1



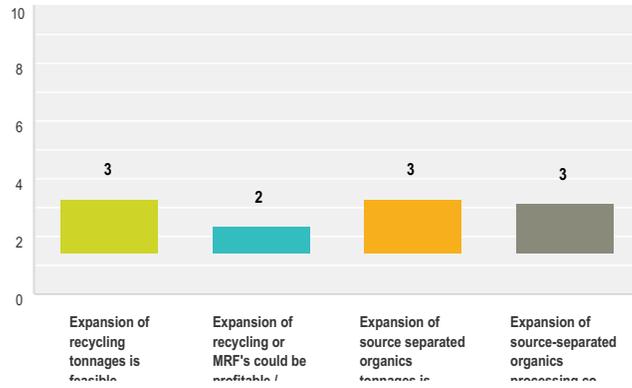
Q13 How satisfied are you with each of the following in your area? (1= not at all; 5= very satisfied)

Answered: 8 Skipped: 1



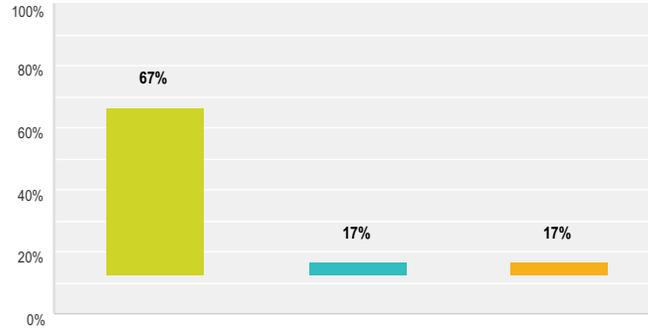
Q14 Please rank the following for your area; 1=Disagree strongly; 5=Agree strongly

Answered: 8 Skipped: 1



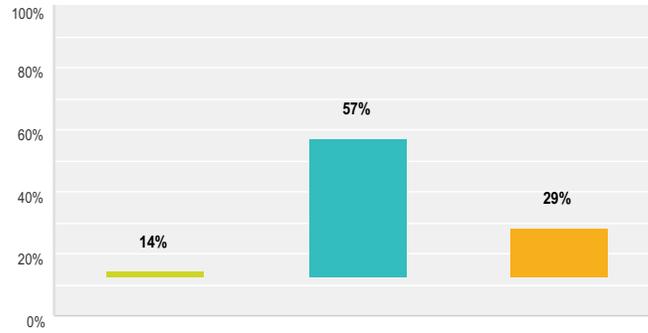
Q15 Have you ever considered Hub & Spoke?

Answered: 6 Skipped: 3



Q16 Have you ever considered Waste-to-Energy or some variation?

Answered: 7 Skipped: 2



CDPHE 2016 Materials Management – Pre-Meeting Survey

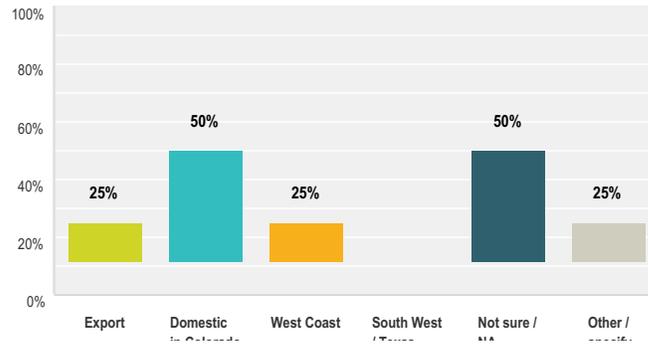
Q17 What are the most important barriers that constrain you / your company from expanding recycling or composting – or the expansion of recycling / composting facilities? (check the top 3 for recycling and top 3 for composting)

Answered: 7 Skipped: 2

	RECYCLING	ORGANICS	Total Respondents
Lack of material supply	0% 0	0% 0	0
Low participation / collection program weaknesses	100% 2	50% 1	2
Poor enforcement of mandates / regulations	67% 2	67% 2	3
Insufficient municipal commitment to diversion programs	0% 0	100% 2	2
Waste committed to flow to specific facilities or put-or-pay agreements	0% 0	0% 0	0
Contamination of incoming materials	75% 3	50% 2	4
High capital cost / lack of financing	67% 2	67% 2	3
Poor operational economics / profitability (why / detail in "other")	0% 0	0% 0	0
Permitting	0% 0	100% 2	2
Siting barriers	100% 1	100% 1	1
Competitive pressures (explain in "other")	0% 0	0% 0	0
Insufficient understanding of technologies	0% 0	0% 0	0
Markets – access	100% 2	0% 0	2
Insufficient demand / pricing for products (e.g. baled recyclables, compost, biogas, etc.)	100% 2	0% 0	2
Profitability issues	67% 2	33% 1	3
Identifying programs / services	100% 1	0% 0	1
Service quality	0% 0	0% 0	0
Illegal dumping	50% 1	50% 1	2
Low landfill prices	100% 1	0% 0	1
Lack of demand locally for product	0% 0	100% 1	1
Other (specify)	0% 0	100% 2	2

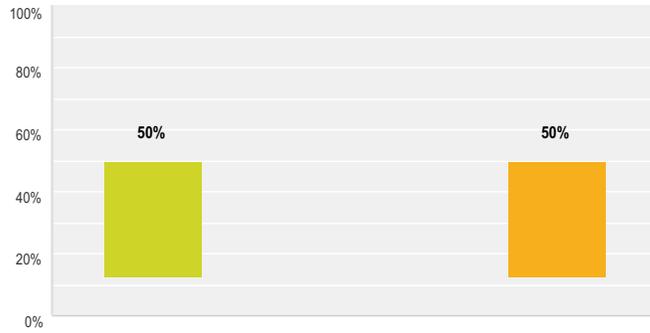
Q25 (For haulers, Municipality, etc) What market outlets do your recyclables currently flow to? (Check all that apply). Please specify in “other”.

Answered: 4 Skipped: 5



Q27 If commodity prices stay low, will your recycling programs survive?

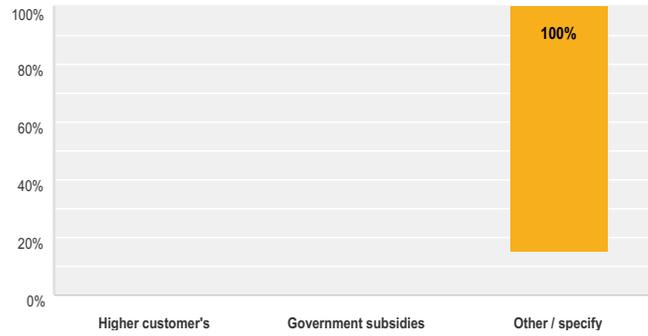
Answered: 4 Skipped: 5



CDPHE 2016 Materials Management – Pre-Meeting Survey

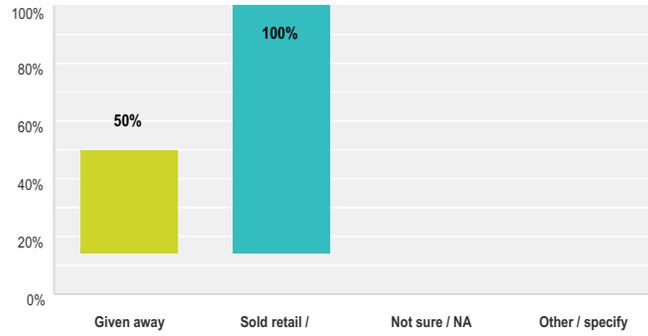
Q28 If no, what would you need to survive?

Answered: 1 Skipped: 8



Q29 (For haulers, municipalities, etc.) How is your compost marketed?

Answered: 4 Skipped: 5



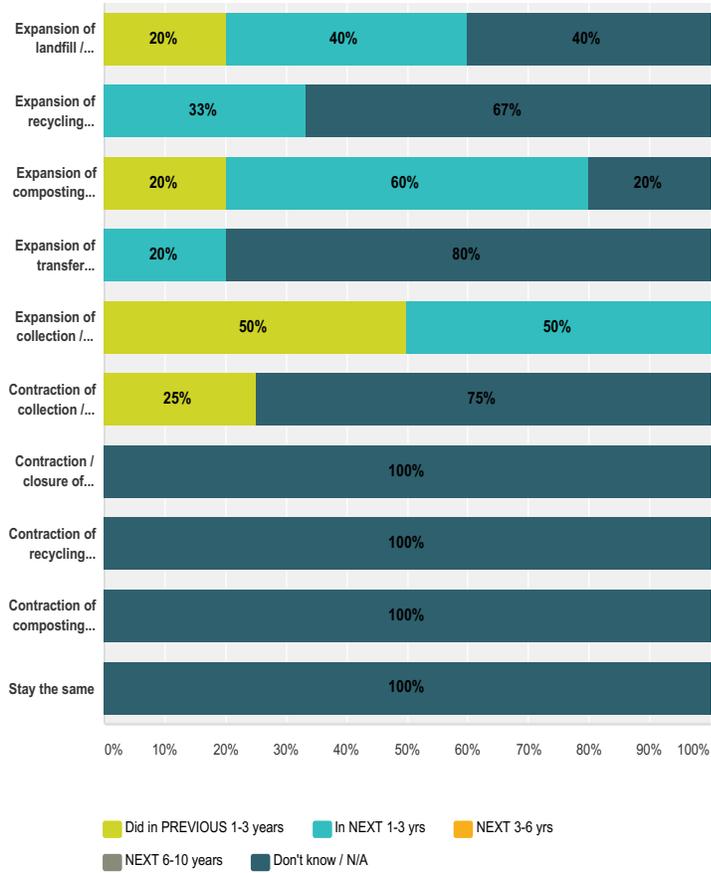
Q31 Do you believe that any of the following “higher level” policies would / might be effective at changing the structure of solid waste practices in a way that increases diversion or the economics of the system?

Answered: 8 Skipped: 1

	Grants to encourage Hub & Spoke	Establish regional planning districts with responsibilities.	Moving toward some version of franchise agreements, districting, or contracts for residential collection.	Moving toward some version of franchise agreements, districting, or contracts for commercial collection in some urban areas.	Requiring recycling goals (could vary by area; be lower for rural areas)	Increasing funding through landfill surcharge.	Increasing funding through oil & gas severance tax.	Regionalizing landfills	Producer Responsibility strategies	Mandating through ordinance PAYT (pay as you throw) or volume based pricing	Total
It will help	15% 4	12% 3	4% 1	4% 1	12% 3	12% 3	12% 3	4% 1	19% 5	8% 2	26
Very against this	0% 0	0% 0	0% 0	20% 1	0% 0	20% 1	20% 1	20% 1	0% 0	20% 1	5
No opinion	8% 3	10% 4	15% 6	13% 5	10% 4	10% 4	8% 3	10% 4	8% 3	8% 3	39

Q32 Do you have plans for the following in your area?

Answered: 6 Skipped: 3



APPENDIX C-

CDPH&E Material Management

ADDITIONAL OPEN ENDED ECONOMIC RESPONSES FROM PRE-MEETING SURVEYS

Grand Junction

1. *Is the cost to operate a landfill, transfer station, and / or recycling center viewed as problematic within the region? Is this a regional concern? Please also explain why?*
 - Recycling center cost is problematic for the Roaring Fork Valley and westward into Garfield County due to the lack of recycling processing/aggregating centers. Pitkin County is the only organization accepting recyclables (limited to 40 tpy from private haulers – that’s a fraction of what we collect as the largest hauler in this area). It shouldn’t be their responsibility to pay for aggregating the recyclables and then shipping them to a hub facility in Denver at their estimated cost of \$119 per ton. There needs to be another location closer than Wolcott (hopefully it remains open and will continue to accept recyclables from Pitkin and Garfield counties) that will accept recyclables from residents and business locations such as Rifle, Silt, New Castle, Glenwood Springs, Carbondale and to a large degree, Basalt. Pitkin County handles the Town of Snowmass Village and its own drop off centers, private haulers handle the residents and the businesses throughout Pitkin and Garfield counties. DB Added from phone call - No TS so n/a; LF rates are higher than Front Ranges but this doesn't matter b/c it's a disposal neutral market and he doesn't hear any grief about costs until there is a LF price increase; R is huge conundrum bc he is bigger hauler than WM and for 50 weeks out of the year he has to find someplace else to take R bc he exceeds amounts allowed; if people want c/s R then they must pay a huge dynamic and people will leave him and flood the gov entities; in Eagle County all res c/s R goes to Denver; only Pitkin and Garfield County stuff goes to Eagle County and why would Eagle County want to keep open and lose money for these other counties when they don't even use their own facility?
 - We are the only game in town. Compost is profitable. We are 150 miles from MRFs and collection rate is high.
 - The larger companies must transport the recycling outside of the County and this has increased the cost of offering recycling collection. Compost is cheaper for haulers to tip than trash and the landfill makes a profit on processing this material.
 - We serve a rural area with fewer people. The \$ impact of "economies of scale" are different here as opposed to Denver. In order for these services to be sustainable their costs must be covered through long term predictable rates,

fees, subsidies, taxes, grants, donations, etc. Significant long-term capital investment will not occur without a matching predictable stream of revenue to pay for these services.

- Recycling collection, trans-loading, transporting to a MRF, and the cost of the processing fees are literally twice as expensive as burying the materials at a local, government-owned landfill. Composting is done on a much smaller scale by Pitkin County and the costs of the program are currently less than disposal into the landfill (\$45 per ton for organics processing vs. approximately \$55 per ton for landfill disposal).
- landfills are cheaper (than recycling)

2. *Within the region, what would be most beneficial to improve solid waste management services that are protective of human health and the environment?*

- We are exploring, re-use, and hard to recycle materials--mattress, books, etc. CDPHE and RREO grants are helpful. Composting is pretty much dialed in except for some struggles with waste haulers who don't want to be bothered. We have high quality incoming product and a market for our finished material.
- Bringing the costs down on transporting recycling and bringing the prices of recyclables up. Increasing commercial participation in the compost program (SCRAPS) would bring the costs of processing organics down.
- Closer end markets, rise in demand for recyclable goods.
- lower regulatory compliance/permitting cost - we spend 60% of our profits on regulatory compliance and monitoring
- It is my view that a recycling processing plant or aggregation enterprise is needed to address landfill diversion in these two counties. We have three landfills to choose from so we have ready access to landfills here. There are two organics compost facilities. Pitkin County Resource Center accepts food waste. South Canyon LF, owned by the City of Glenwood Springs, does not.

APPENDIX D-

CDPH&E Material Management

TABLE GROUPS WORK SESSION: NOTES

Grand Junction

What's working:

- Composting
- Metals recycling is working well
- Moffat sees some illegal disposal but works to spot it with haulers and staff, Pitkin will charge hauler to dispose/recycle E-waste
- Community participation
- Current compost facility, current recycling drop off

Missing / changed / barriers:

- Several facilities, gap=Garfield county
- E-waste's presents difficulty (Moffat works with cities to have collection events, Mesa takes in E-waste during hours, Pitkin takes in E-waste during hours and holds collection events, mesa uses spotters to prevent E-waste in landfill,
- Composting-economics must work for haulers, some are composting on site (backyard & agricultural operations)
- The financial support;
- Commodity pricing
- Missing data
- More drop-off locations, food waste collection/drop off/composting
- Rural mindset, rural transportation, infrastructure for recycling, free drop off

Resources/successes in your area:

- Have 50/50 cost share with 2 municipalities, still negotiating with one more
- E-waste/Paints/D/O/Tires

Opportunities / sharing resources:

- Partner with Pitkin County

Ideas near / long term:

- Regional Collaboration (Recyclable Special Programs)
- Grant options
- Expand Collection, material type, funding.
- Public/Private
- Western slope could use a MRF to reduce transportation costs (could eagle county receive \$ to convert toss?).
- Avoid travel/shipment to Denver
- Initiate small composting operation
- Conduct small-scale pilot & determine amount of compostable materials coming in

- More recycling education (show economic benefits)
- Hub & spoke for compost, seasonal drop off for Creed area.

Assistance needed:

- Proper distribution of RREO Grants
- Info/Communications
- Recycling-Needs financial balance to fluctuating markets (i.e. subsidize when prices are low - stop when high), economics must work for haulers,
- Education needs more emphasis; some won't pay for curbside if d/o is free.
- Organic Diversion: Needs more public awareness for the value of organic recycling,
- Providing multiple (free) options improves compliance
- Money, money, money
- Grants

Funding ideas:

- Extended producer responsibility would be helpful – (replicate paint program).
- Cost shares, grants etc.

Not needed:

Roles / who's needed: