

CDPH&E Loveland Stakeholder Meeting



Date: March 2, 2016; 8:15AM-12:15PM

Location: Best Western Crossroads Conference Center, 5542 E US Highway 34, Loveland, CO 80537

Number Attending: 27 plus 2 representatives from CDPH&E, and 2 representatives from Skumatz Economic Research Associates, Inc. (SERA); Facilitated by Lisa Skumatz, SERA.

Communities Represented: Counties of Larimer, Adams, Boulder, Denver, and Weld; Cities/Towns of Ft. Collins, Loveland, Greeley, Brighton, Boulder, Denver, Commerce City, Johnstown, Ft. Lupton

Sectors Represented: City / county staff involved in recycling / planning, hauling / collection, recycling or organics processing facility owners /operators, landfill owners / operators (private or city/county), recycling businesses, households / businesses / public “generators”, non-profits in recycling, an elected official, and others (state-level, regulators, brokers, clerks, consultants, and others).

Overview: This was a larger group, but well balanced in the makeup of attendees. Their issues revolved more around ways to improve recycling and organics collection, than about landfills. Many were interested in 2 - tier State recycling goals for different areas, hauler licensing, and tonnage reports. Regional planning was also strongly supported.

Voting Overview: According to the attending voters, the current disposal system is working very well, with a weighted average of 4.2 (1-5 scale; 5= very well). Fewer thought the diversion system is working well with a weighted average of 3.1; discussion indicated they felt the State (in their area) could or should be doing better. Recycling education with basic ordinances and residential PAYT with bundled recycling were seen as options having the most potential in this area of the state. Education / backyard composting and commercial curbside collection for food-related businesses were voted to have the most potential for organics. More than 30% of the respondents voted that some non-adequate landfills should be changed to transfer stations with the decision made more based on their location than on cost.

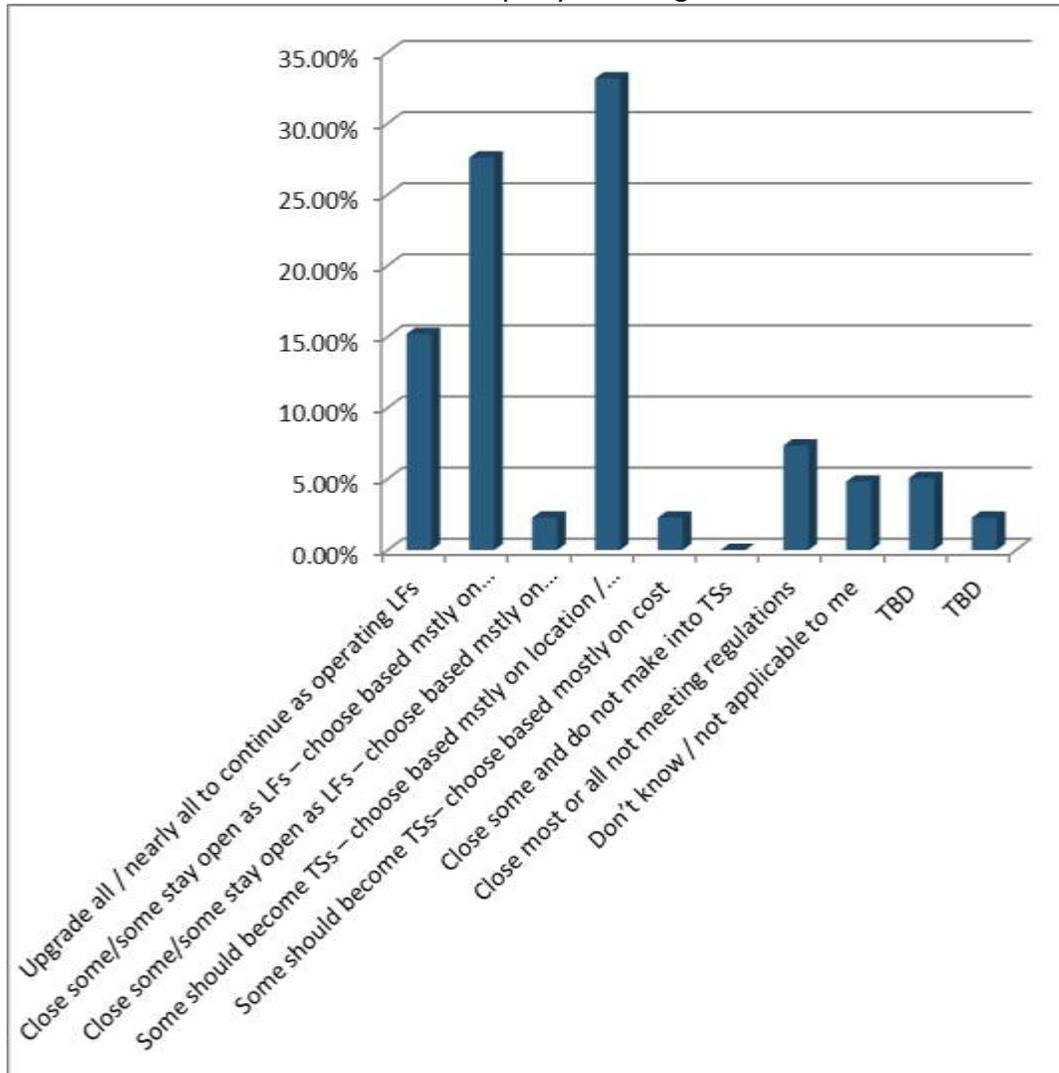
Select Voting Results

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

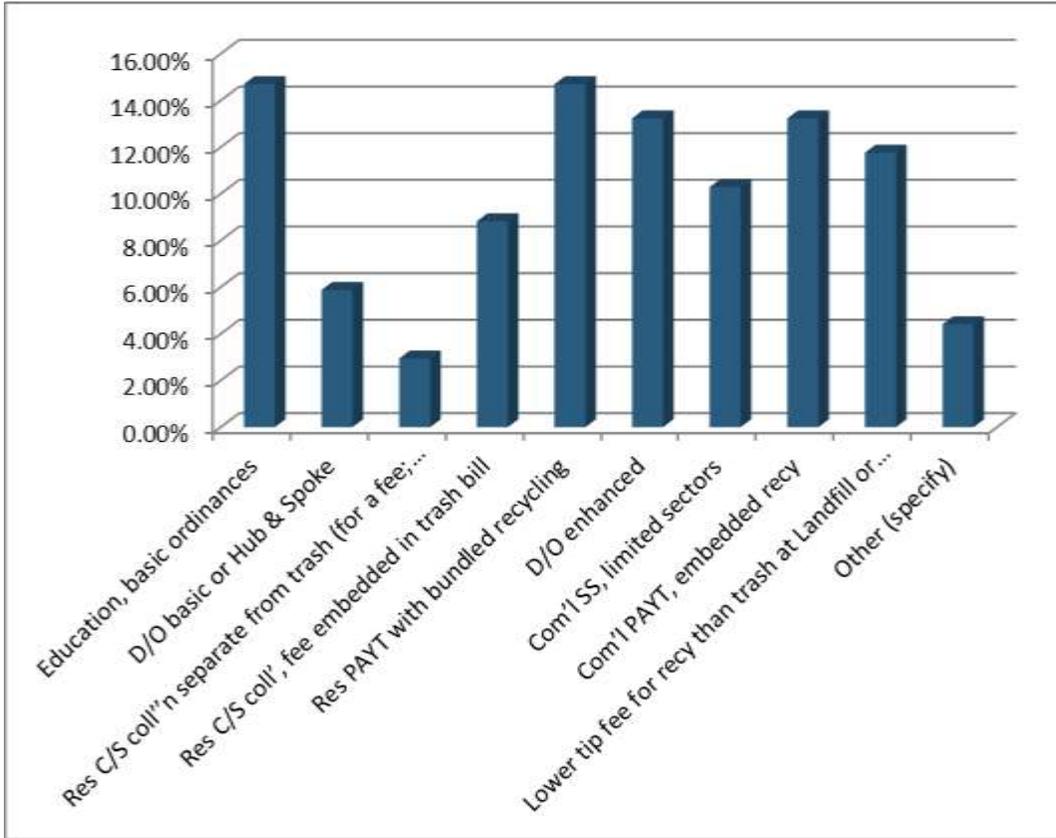
	Average score (1=not well at all; 5=working very well considering our area)	Percent responding don't know.
Disposal System	4.2	12%
Recycling / Composting system	3.1	12%

Responses to two questions were key 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. The similar organics question is also included in Appendix A. Additional voting responses on a wide variety of material management topics for Colorado 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.

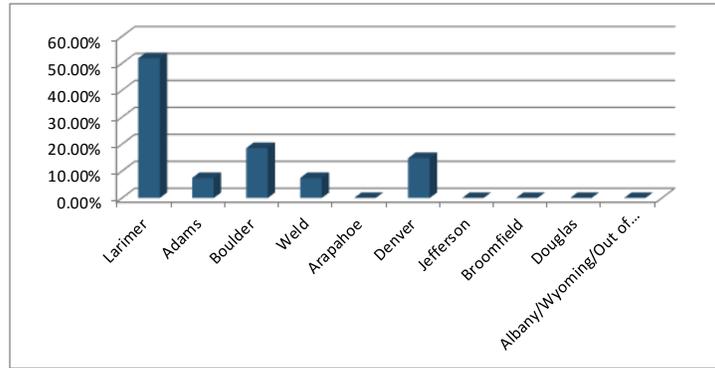
APPENDIX A –

CDPH&E Materials Management Stakeholders Meeting

Loveland Voting Results

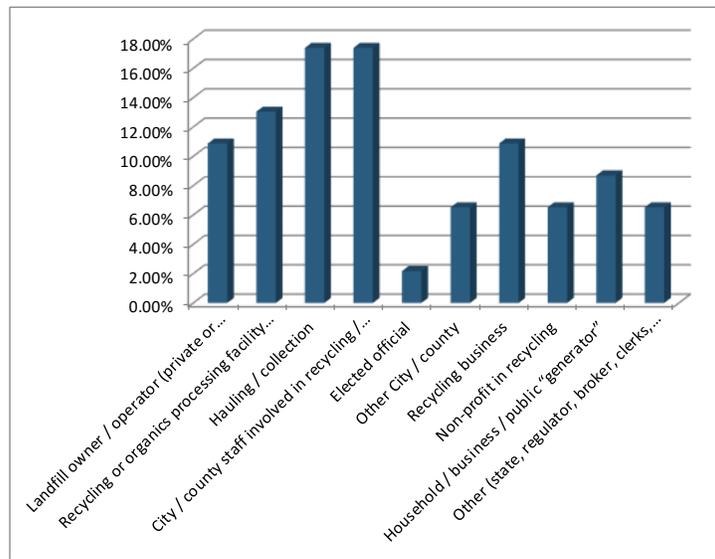
1. FEEDBACK 1A – Which area do you know the most about? (Multiple Choice - Multiple Response)

	Responses	
	Percent	Count
Larimer	51.85%	14
Adams	7.41%	2
Boulder	18.52%	5
Weld	7.41%	2
Arapahoe	0.00%	0
Denver	14.81%	4
Jefferson	0.00%	0
Broomfield	0.00%	0
Douglas	0.00%	0
Albany/Wyoming/Out of State	0.00%	0
Totals	100%	27



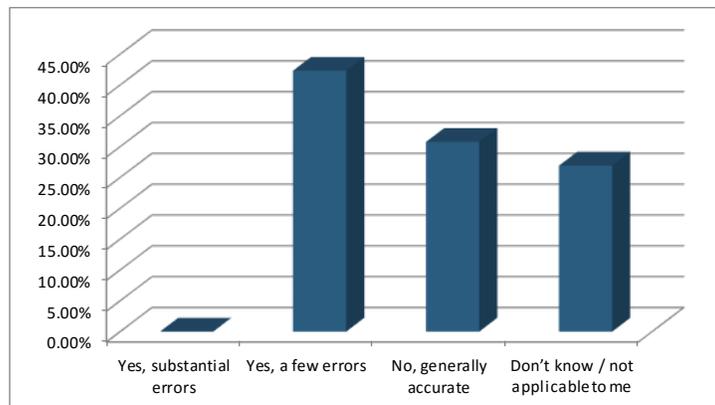
2. FEEDBACK 1B – Who is in the room? –Your PRIMARY SW responsibilities... (up to 2) (Multiple Choice - Multiple Response)

	Responses	
	Percent	Count
Landfill owner / operator (private or city/county)	10.87%	5
Recycling or organics processing facility owner /operator	13.04%	6
Hauling / collection	17.39%	8
City / county staff involved in recycling / planning	17.39%	8
Elected official	2.17%	1
Other City / county	6.52%	3
Recycling business	10.87%	5
Non-profit in recycling	6.52%	3
Household / business / public "generator"	8.70%	4
Other (state, regulator, broker, clerks, consultant, other)	6.52%	3
Totals	100%	46



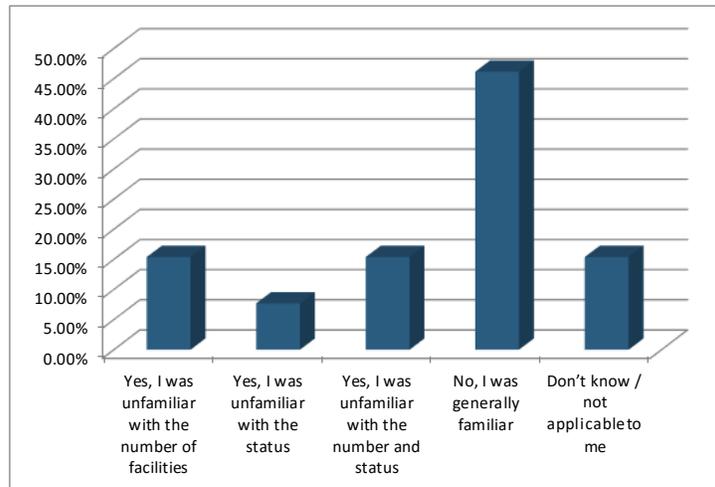
3. FEEDBACK 2 – Looking at LF MAP... Do you think the information on the map has errors? Correct errors in map at table / leave it behind with no

	Responses	
	Percent	Count
Yes, substantial errors	0.00%	0
Yes, a few errors	42.31%	11
No, generally accurate	30.77%	8
Don't know / not applicable to me	26.92%	7
Totals	100%	26



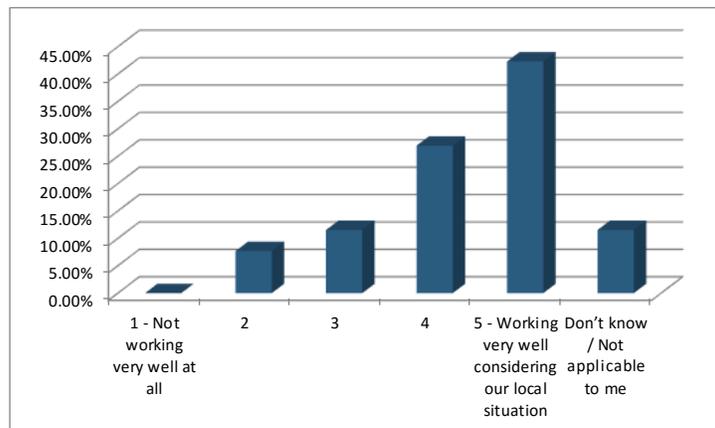
4. FEEDBACK 3 – Looking at LF MAP... Was the content of the LF map news to you / a surprise? (Multiple Choice)

	Responses	
	Percent	Count
Yes, I was unfamiliar with the number of facilities	15.38%	4
Yes, I was unfamiliar with the status	7.69%	2
Yes, I was unfamiliar with the number and status	15.38%	4
No, I was generally familiar	46.15%	12
Don't know / not applicable to me	15.38%	4
Totals	100%	26



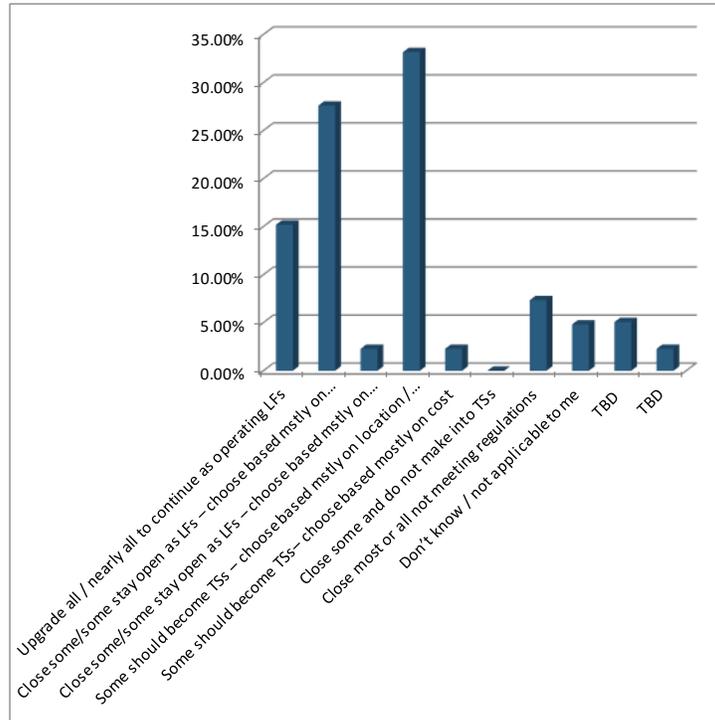
5. FEEDBACK 4 – Looking at LF MAP... How well is the current disposal system working? (Multiple Choice)

	Responses	
	Percent	Count
1 - Not working very well at all	0.00%	0
2	7.69%	2
3	11.54%	3
4	26.92%	7
5 - Working very well considering our local situation	42.31%	11
Don't know / Not applicable to me	11.54%	3
Totals	100%	26



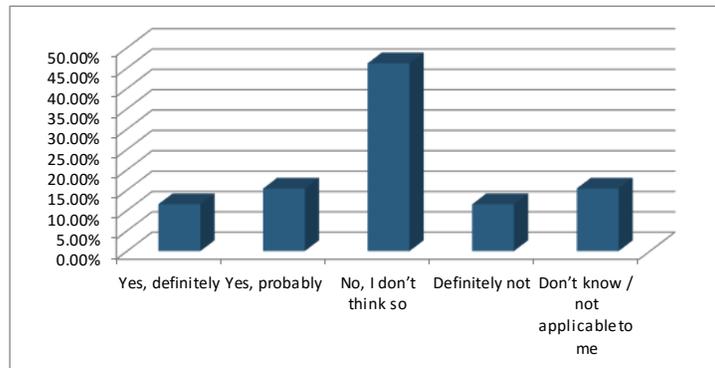
6. FEEDBACK 5 – Thinking about the landfills in your area... Should small landfills not in full adequacy with regulations be closed or retrofitted? (U

	Responses	
	Percent	Weighted Count
Upgrade all / nearly all to continue as operating LFs	15.19%	60
Close some/some stay open as LFs – choose based mstly on location / convenience / access	27.59%	109
Close some/some stay open as LFs – choose based mstly on cost	2.28%	9
Some should become TSs – choose based mstly on location / convenience / access	33.16%	131
Some should become TSs– choose based mostly on cost	2.28%	9
Close some and do not make into TSs	0.00%	0
Close most or all not meeting regulations	7.34%	29
Don't know / not applicable to me	4.81%	19
TBD	5.06%	20
TBD	2.28%	9
Totals	100%	395



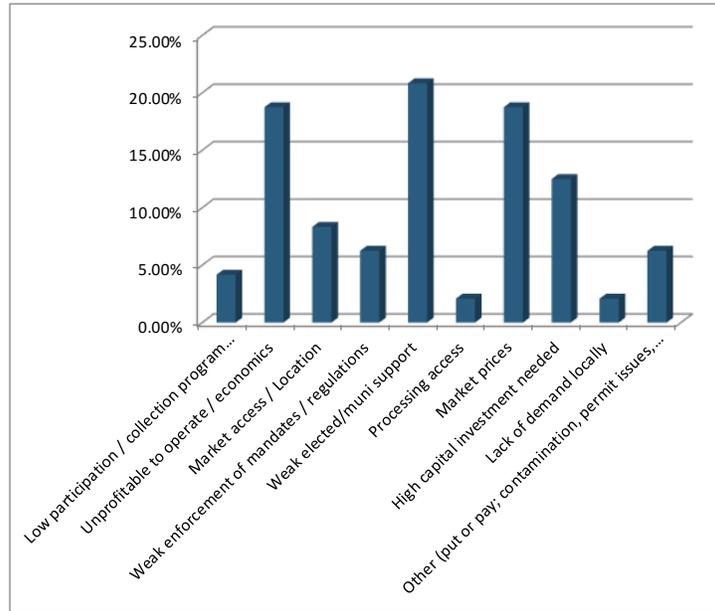
7. FEEDBACK 6 – Thinking about the landfills in your area... Would regionalization of landfilling make sense in your area? (Multiple Choice)

	Responses	
	Percent	Count
Yes, definitely	11.54%	3
Yes, probably	15.38%	4
No, I don't think so	46.15%	12
Definitely not	11.54%	3
Don't know / not applicable to me	15.38%	4
Totals	100%	26



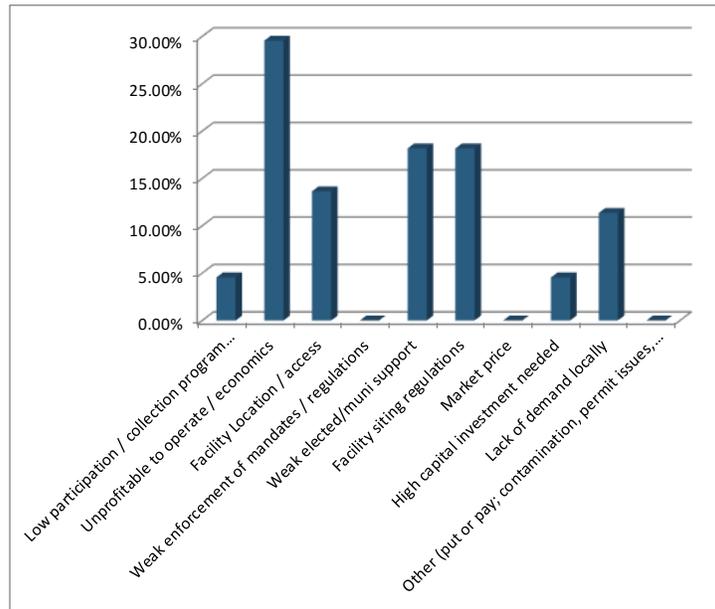
8. FEEDBACK 7A – RecyclingBarriers to more recycling (2 most important) Other barriers – write in your “leave-behind” notebook (Multiple Choice .

	Responses	
	Percent	Count
Low participation / collection program weaknesses/lack of supply	4.17%	2
Unprofitable to operate / economics	18.75%	9
Market access / Location	8.33%	4
Weak enforcement of mandates / regulations	6.25%	3
Weak elected/muni support	20.83%	10
Processing access	2.08%	1
Market prices	18.75%	9
High capital investment needed	12.50%	6
Lack of demand locally	2.08%	1
Other (put or pay; contamination, permit issues, understanding of technology)	6.25%	3
Totals	100%	48



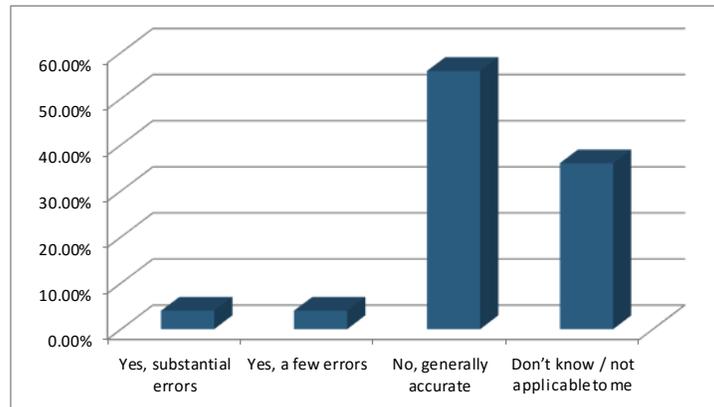
9. FEEDBACK 7B – CompostingBarriers to more composting (2 most important) Other barriers – write in your “leave-behind” notebook (Multiple Chc

	Responses	
	Percent	Count
Low participation / collection program weaknesses/lack of supply	4.55%	2
Unprofitable to operate / economics	29.55%	13
Facility Location / access	13.64%	6
Weak enforcement of mandates / regulations	0.00%	0
Weak elected/muni support	18.18%	8
Facility siting regulations	18.18%	8
Market price	0.00%	0
High capital investment needed	4.55%	2
Lack of demand locally	11.36%	5
Other (put or pay; contamination, permit issues, other)	0.00%	0
Totals	100%	44



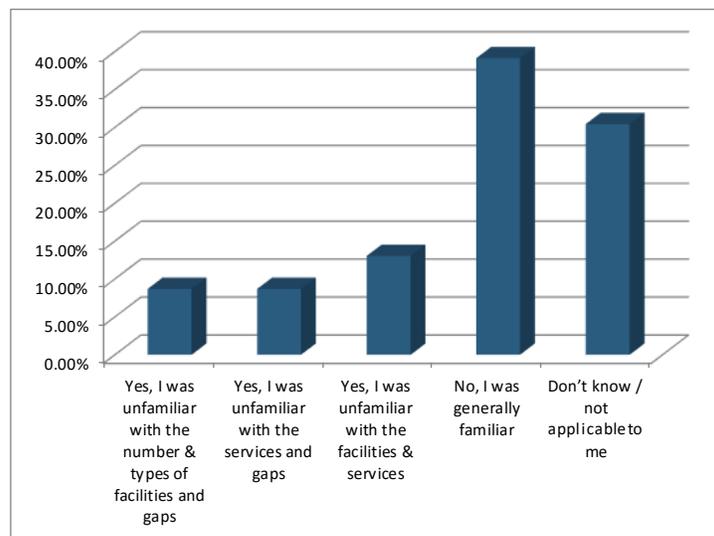
10. FEEDBACK 8 – Looking at all facilities map ... Do you think the DIVERSION information on the map has errors? (Multiple Choice)

	Responses	
	Percent	Count
Yes, substantial errors	4.00%	1
Yes, a few errors	4.00%	1
No, generally accurate	56.00%	14
Don't know / not applicable to me	36.00%	9
Totals	100%	25



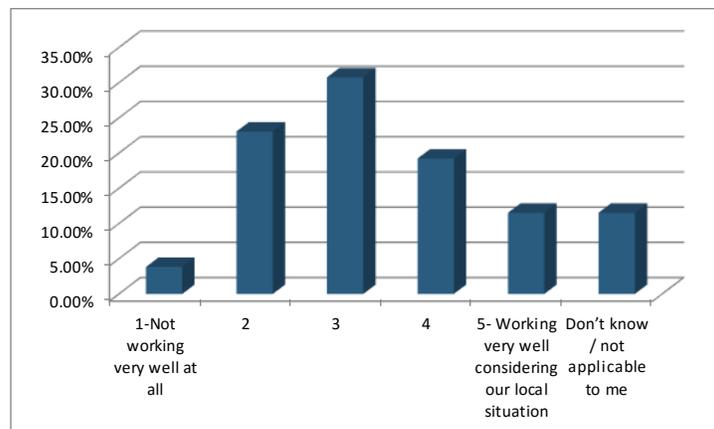
11. FEEDBACK 9 – Looking at all facilities map - Was the content of the DIVERSION information news to you / a surprise? (Multiple Choice)

	Responses	
	Percent	Count
Yes, I was unfamiliar with the number & types of facilities and gaps	8.70%	2
Yes, I was unfamiliar with the services and gaps	8.70%	2
Yes, I was unfamiliar with the facilities & services	13.04%	3
No, I was generally familiar	39.13%	9
Don't know / not applicable to me	30.43%	7
Totals	100%	23



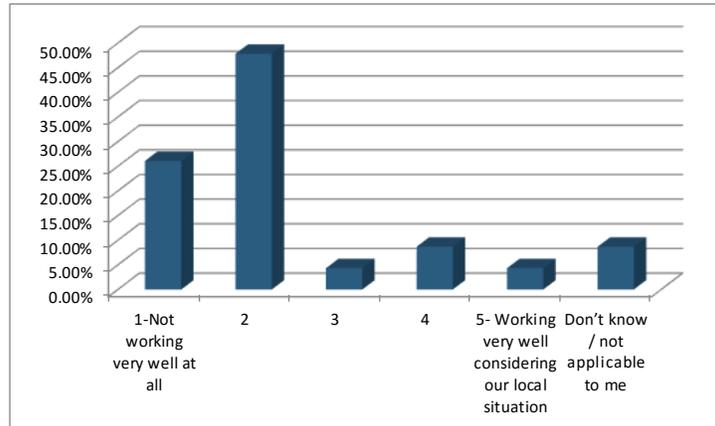
12. FEEDBACK 9B – Looking at all facilities map... How well is the current RECYCLING DIVERSION system working? (Multiple Choice)

	Responses	
	Percent	Count
1-Not working very well at all	3.85%	1
2	23.08%	6
3	30.77%	8
4	19.23%	5
5- Working very well considering our local situation	11.54%	3
Don't know / not applicable to me	11.54%	3
Totals	100%	26



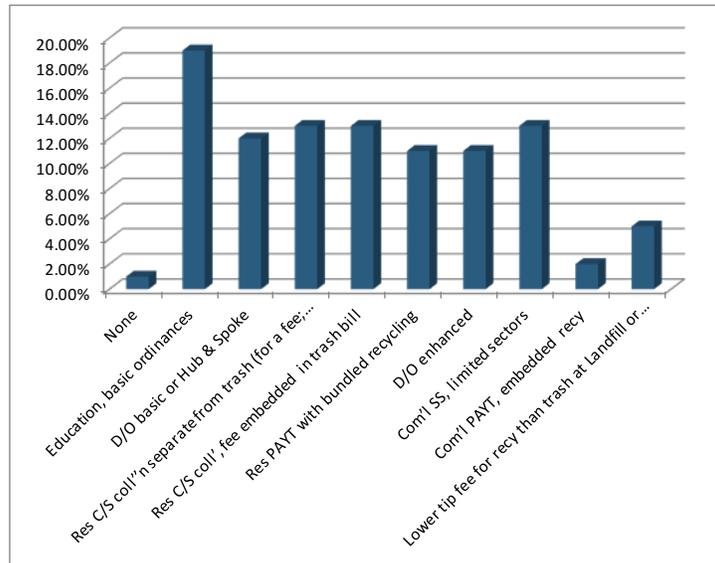
13. FEEDBACK 9C – Looking at all facilities map... How well is the current ORGANICS DIVERSION system working? (Multiple Choice)

	Responses	
	Percent	Count
1-Not working very well at all	26.09%	6
2	47.83%	11
3	4.35%	1
4	8.70%	2
5- Working very well considering our local situation	4.35%	1
Don't know / not applicable to me	8.70%	2
Totals	100%	23



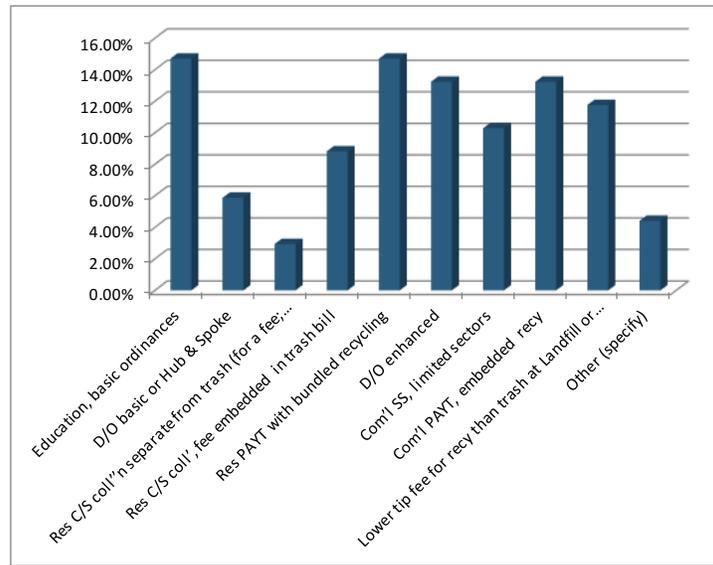
14. FEEDBACK 10A: Which Recy Options Are In Place In Your Area? (Check all that Apply) (Priority Ranking)

	Responses	
	Percent	Weighted Count
None	1.00%	1
Education, basic ordinances	19.00%	19
D/O basic or Hub & Spoke	12.00%	12
Res C/S coll'n separate from trash (for a fee; voluntary)	13.00%	13
Res C/S coll', fee embedded in trash bill	13.00%	13
Res PAYT with bundled recycling	11.00%	11
D/O enhanced	11.00%	11
Com'l SS, limited sectors	13.00%	13
Com'l PAYT, embedded recy	2.00%	2
Lower tip fee for recy than trash at Landfill or Recycling facility	5.00%	5
Totals	100%	100



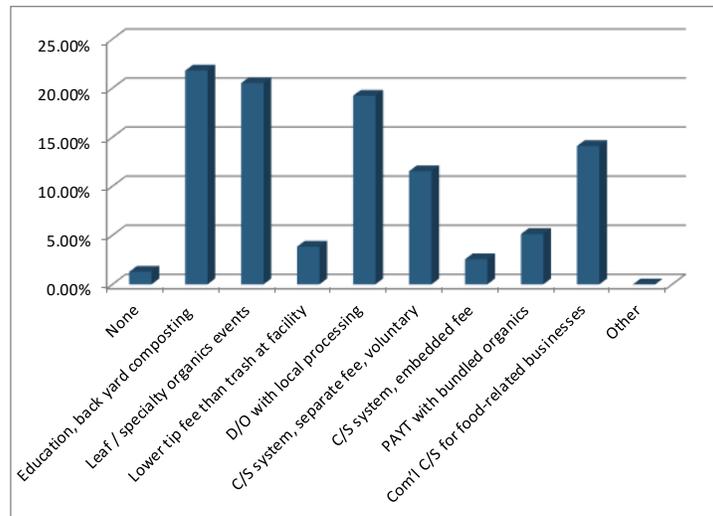
15. FEEDBACK 11A: Which Recy Options Have Potential in your Area? (Check up to 3) (Priority Ranking)

	Responses	
	Percent	Weighted Count
Education, basic ordinances	14.71%	10
D/O basic or Hub & Spoke	5.88%	4
Res C/S coll'n separate from trash (for a fee; voluntary)	2.94%	2
Res C/S coll', fee embedded in trash bill	8.82%	6
Res PAYT with bundled recycling	14.71%	10
D/O enhanced	13.24%	9
Com'l SS, limited sectors	10.29%	7
Com'l PAYT, embedded recy	13.24%	9
Lower tip fee for recy than trash at Landfill or Recycling facility	11.76%	8
Other (specify)	4.41%	3
Totals	100%	68



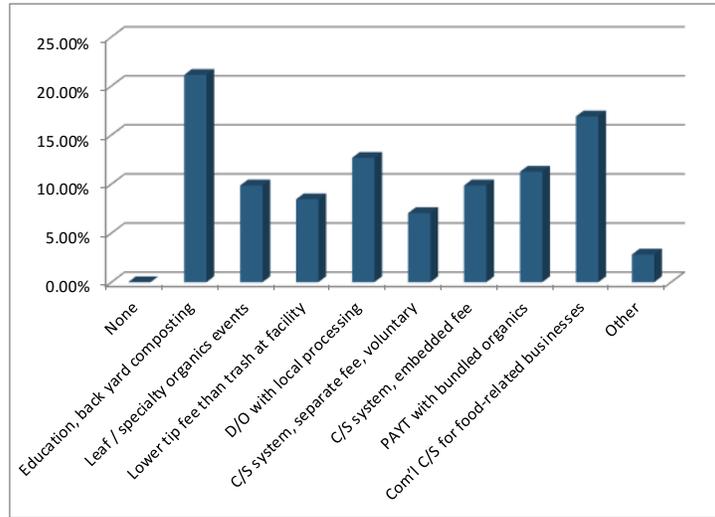
16. FEEDBACK 10B: Which Organics Options Are In Place In Your Area? (mark all that apply) (Priority Ranking)

	Responses	
	Percent	Weighted Count
None	1.28%	1
Education, back yard composting	21.79%	17
Leaf / specialty organics events	20.51%	16
Lower tip fee than trash at facility	3.85%	3
D/O with local processing	19.23%	15
C/S system, separate fee, voluntary	11.54%	9
C/S system, embedded fee	2.56%	2
PAYT with bundled organics	5.13%	4
Com'l C/S for food-related businesses	14.10%	11
Other	0.00%	0
Totals	100%	78



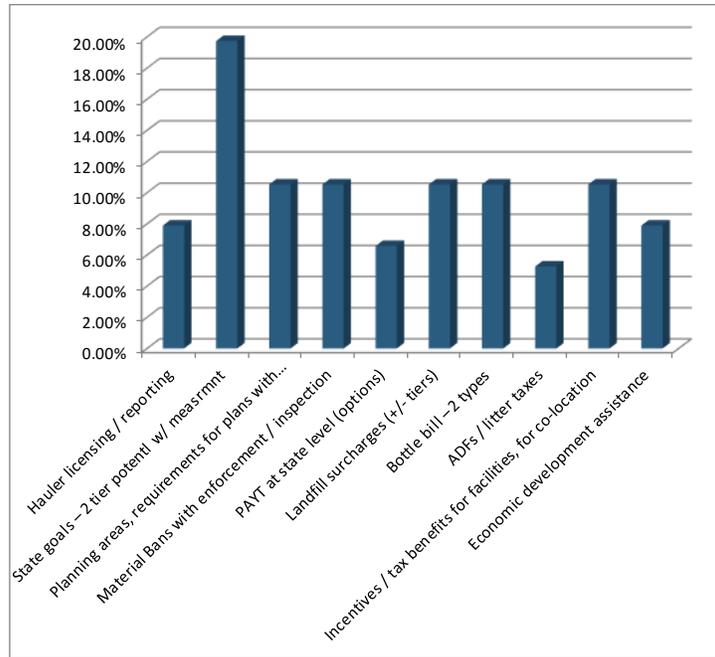
17. FEEDBACK 11B: Which Organics Options Have Potential in Your Area? (mark up to 3) (Priority Ranking)

	Responses	
	Percent	Weighted Count
None	0.00%	0
Education, back yard composting	21.13%	15
Leaf / specialty organics events	9.86%	7
Lower tip fee than trash at facility	8.45%	6
D/O with local processing	12.68%	9
C/S system, separate fee, voluntary	7.04%	5
C/S system, embedded fee	9.86%	7
PAYT with bundled organics	11.27%	8
Com'l C/S for food-related businesses	16.90%	12
Other	2.82%	2
Totals	100%	71



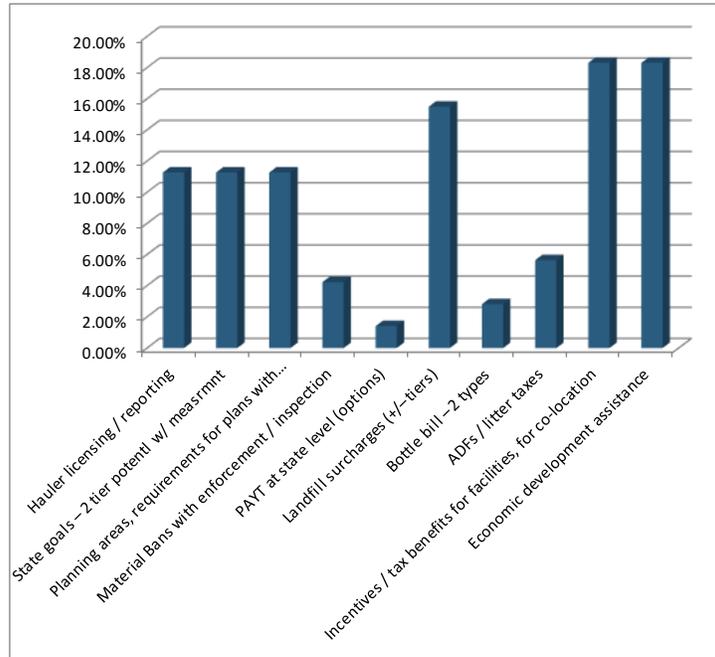
18. FEEDBACK 13A – Strategies best suited to WORK for your area – (vote for 3) (Multiple Choice - Multiple Response)

	Responses	
	Percent	Count
Hauler licensing / reporting	7.89%	6
State goals – 2 tier potentl w/ measmnt	19.74%	15
Planning areas, requirements for plans with authorization for funding; LF assist; Enforcement & measurement	10.53%	8
Material Bans with enforcement / inspection	10.53%	8
PAYT at state level (options)	6.58%	5
Landfill surcharges (+/- tiers)	10.53%	8
Bottle bill – 2 types	10.53%	8
ADFs / litter taxes	5.26%	4
Incentives / tax benefits for facilities, for co-location	10.53%	8
Economic development assistance	7.89%	6
Totals	100%	76



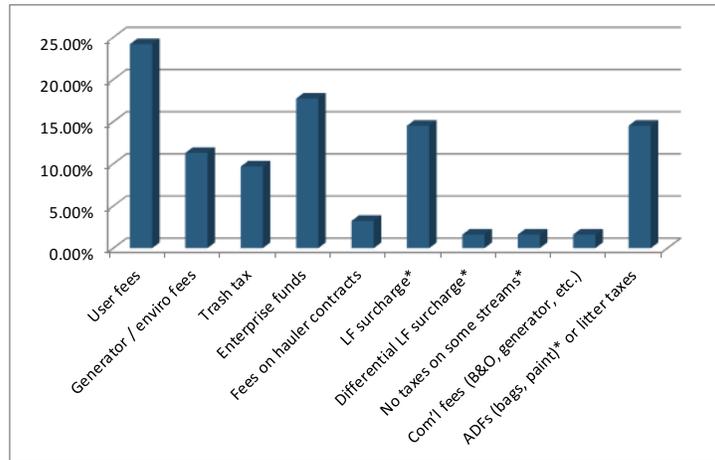
19. FEEDBACK 14A– Strategies most likely to get SUPPORT in your area – (vote for 3) (Multiple Choice - Multiple Response)

	Responses	
	Percent	Count
Hauler licensing / reporting	11.27%	8
State goals – 2 tier potentl w/ measrmt	11.27%	8
Planning areas, requirements for plans with authorization for funding; LF assist; Enforcement & measurement	11.27%	8
Material Bans with enforcement / inspection	4.23%	3
PAYT at state level (options)	1.41%	1
Landfill surcharges (+/- tiers)	15.49%	11
Bottle bill – 2 types	2.82%	2
ADFs / litter taxes	5.63%	4
Incentives / tax benefits for facilities, for co-location	18.31%	13
Economic development assistance	18.31%	13
Totals	100%	71



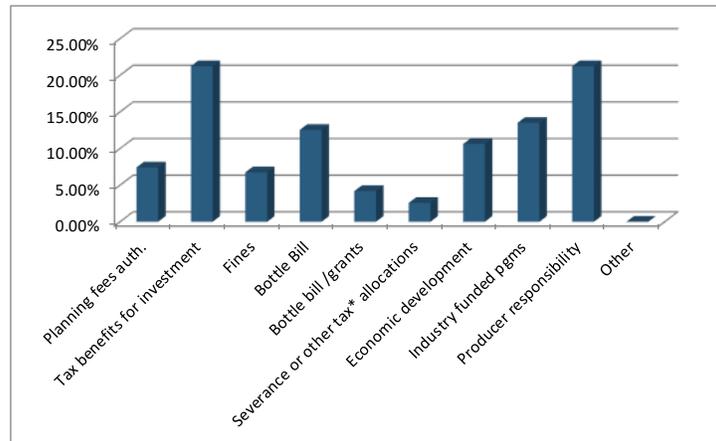
20. FEEDBACK 15A – Funding Options already in place locally (vote for 3) (Multiple Choice - Multiple Response)

	Responses	
	Percent	Count
User fees	24.19%	15
Generator / enviro fees	11.29%	7
Trash tax	9.68%	6
Enterprise funds	17.74%	11
Fees on hauler contracts	3.23%	2
LF surcharge*	14.52%	9
Differential LF surcharge*	1.61%	1
No taxes on some streams*	1.61%	1
Com'l fees (B&O, generator, etc.)	1.61%	1
ADFs (bags, paint)* or litter taxes	14.52%	9
Totals	100%	62



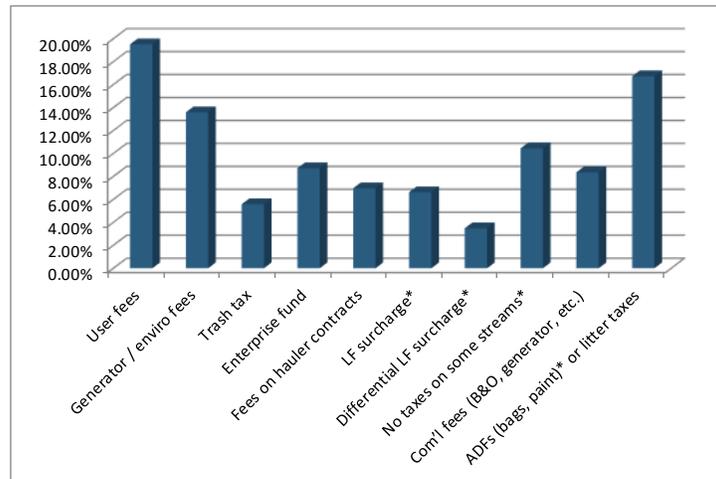
21. FEEDBACK 17A– Other funding options you'd be in favor of (up to 3 in order of support) (Priority Ranking)

	Responses	
	Percent	Weighted Count
Planning fees auth.	7.40%	23
Tax benefits for investment	21.22%	66
Fines	6.75%	21
Bottle Bill	12.54%	39
Bottle bill /grants	4.18%	13
Severance or other tax* allocations	2.57%	8
Economic development	10.61%	33
Industry funded pgms	13.50%	42
Producer responsibility	21.22%	66
Other	0.00%	0
Totals	100%	311



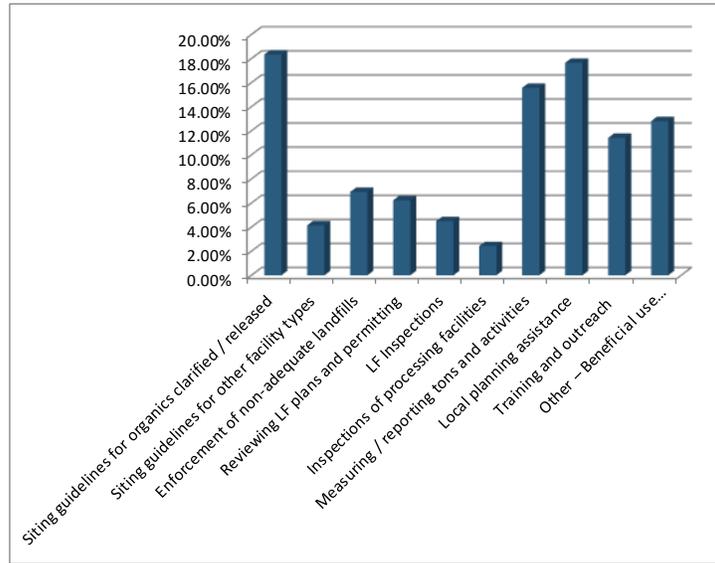
22. FEEDBACK 16A – Most likely “Next” local funding options to get SUPPORT (up to 3 in order of support) (Priority Ranking)

	Responses	
	Percent	Weighted Count
User fees	19.51%	56
Generator / enviro fees	13.59%	39
Trash tax	5.57%	16
Enterprise fund	8.71%	25
Fees on hauler contracts	6.97%	20
LF surcharge*	6.62%	19
Differential LF surcharge*	3.48%	10
No taxes on some streams*	10.45%	30
Com'l fees (B&O, generator, etc.)	8.36%	24
ADFs (bags, paint)* or litter taxes	16.72%	48
Totals	100%	287



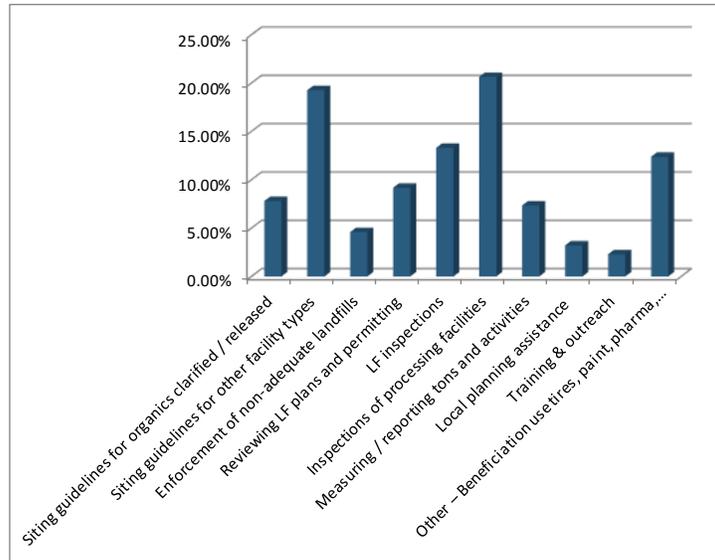
23. FEEDBACK 18 –What are the top 3 things you think the state should do MORE of? – (Click 3 answers in ORDER most important to least) (Priority F)

	Responses	
	Percent	Weighted Count
Siting guidelines for organics clarified / released	18.34%	53
Siting guidelines for other facility types	4.15%	12
Enforcement of non-adequate landfills	6.92%	20
Reviewing LF plans and permitting	6.23%	18
LF Inspections	4.50%	13
Inspections of processing facilities	2.42%	7
Measuring / reporting tons and activities	15.57%	45
Local planning assistance	17.65%	51
Training and outreach	11.42%	33
Other – Beneficial use permit/oversight, tires, paint, pharma, HHW	12.80%	37
Totals	100%	289



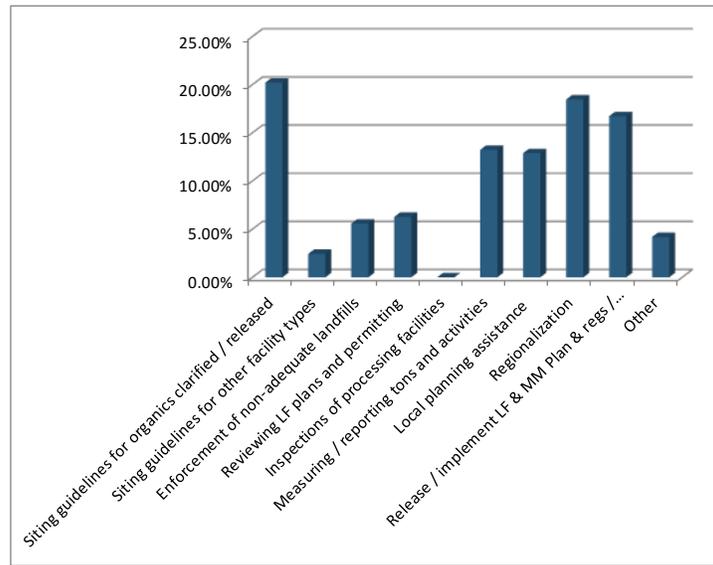
24. FEEDBACK 19 –What are the top 3 things you think the state should do LESS of? – (Click 3 answers in ORDER most important to least) (Priority R)

	Responses	
	Percent	Weighted Count
Siting guidelines for organics clarified / released	7.80%	17
Siting guidelines for other facility types	19.27%	42
Enforcement of non-adequate landfills	4.59%	10
Reviewing LF plans and permitting	9.17%	20
LF inspections	13.30%	29
Inspections of processing facilities	20.64%	45
Measuring / reporting tons and activities	7.34%	16
Local planning assistance	3.21%	7
Training & outreach	2.29%	5
Other – Beneficiation use tires, paint, pharma, HHW	12.39%	27
Totals	100%	218



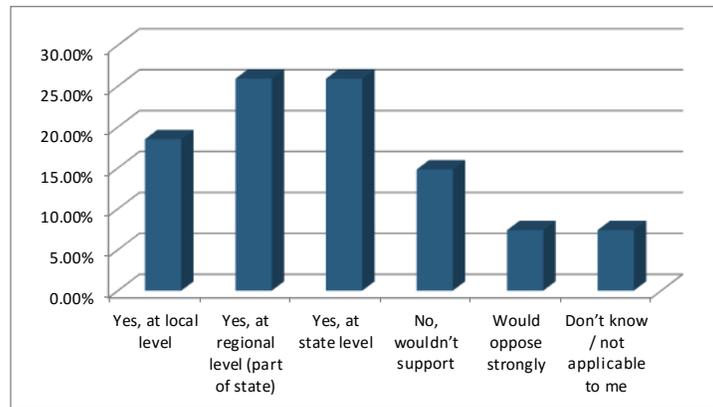
25. FEEDBACK 20 –What are the top 3 things you think the state should do SOON? – (Click 3 answers in ORDER most important to least) (Priority Ra

	Responses	
	Percent	Weighted Count
Siting guidelines for organics clarified / released	20.21%	58
Siting guidelines for other facility types	2.44%	7
Enforcement of non-adequate landfills	5.57%	16
Reviewing LF plans and permitting	6.27%	18
Inspections of processing facilities	0.00%	0
Measuring / reporting tons and activities	13.24%	38
Local planning assistance	12.89%	37
Regionalization	18.47%	53
Release / implement LF & MM Plan & regs / funding	16.72%	48
Other	4.18%	12
Totals	100%	287



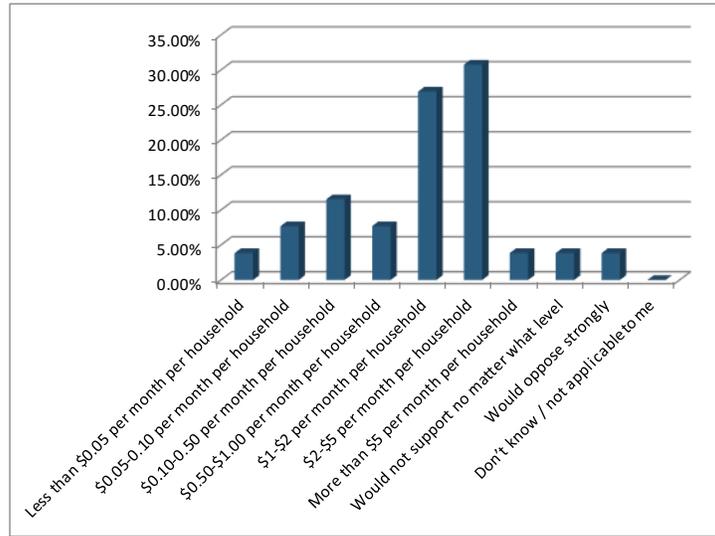
26. FEEDBACK 21A –Would you support a “trash tax” or “generator fee” to help support solid waste management planning? (Multiple Choice)

	Responses	
	Percent	Count
Yes, at local level	18.52%	5
Yes, at regional level (part of state)	25.93%	7
Yes, at state level	25.93%	7
No, wouldn't support	14.81%	4
Would oppose strongly	7.41%	2
Don't know / not applicable to me	7.41%	2
Totals	100%	27



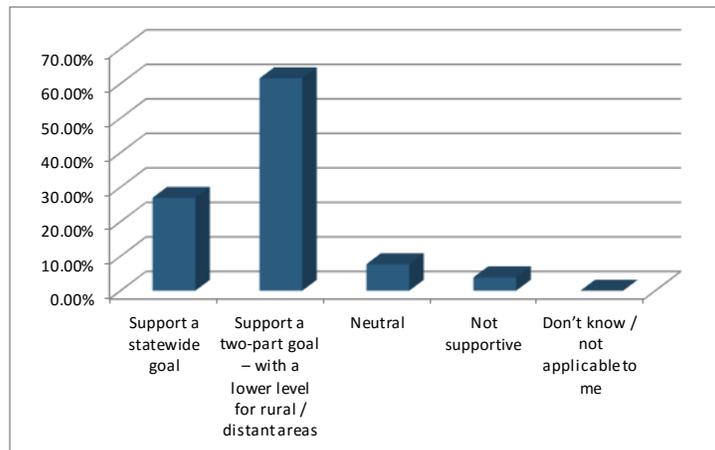
27. FEEDBACK 21B –If a trash tax or “generator fee” were introduced, what dollar amount should it be? (Multiple Choice)

	Responses	
	Percent	Count
Less than \$0.05 per month per household	3.85%	1
\$0.05-0.10 per month per household	7.69%	2
\$0.10-0.50 per month per household	11.54%	3
\$0.50-\$1.00 per month per household	7.69%	2
\$1-\$2 per month per household	26.92%	7
\$2-\$5 per month per household	30.77%	8
More than \$5 per month per household	3.85%	1
Would not support no matter what level	3.85%	1
Would oppose strongly	3.85%	1
Don't know / not applicable to me	0.00%	0
Totals	100%	26



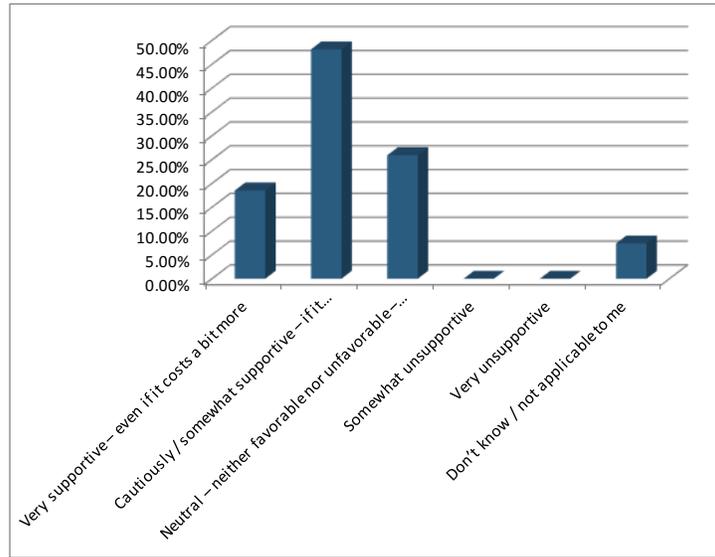
28. FEEDBACK 22 – How supportive are YOU for the State to establish a recycling goal? (Multiple Choice)

	Responses	
	Percent	Count
Support a statewide goal	26.92%	7
Support a two-part goal – with a lower level for rural / distant areas	61.54%	16
Neutral	7.69%	2
Not supportive	3.85%	1
Don't know / not applicable to me	0.00%	0
Totals	100%	26



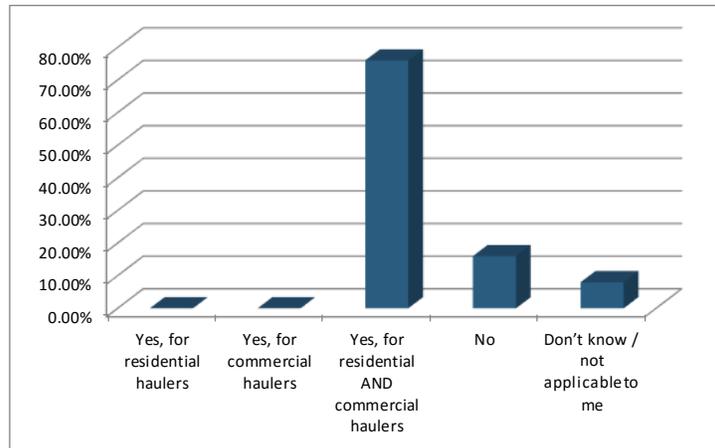
29. FEEDBACK 23 – How supportive are your decision-makers of more recycling in your community – given your local economics? (Multiple Choice)

	Responses	
	Percent	Count
Very supportive – even if it costs a bit more	18.52%	5
Cautiously / somewhat supportive – if it doesn't pencil out too badly	48.15%	13
Neutral – neither favorable nor unfavorable – it is all about the economics	25.93%	7
Somewhat unresponsive	0.00%	0
Very unresponsive	0.00%	0
Don't know / not applicable to me	7.41%	2
Totals	100%	27



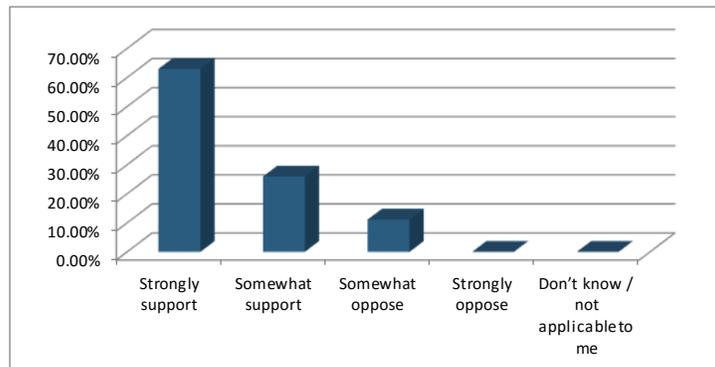
30. FEEDBACK 24 –Would you find it acceptable to have hauler licensing, require tonnage reporting, and report back to you on diversion, and disp

	Responses	
	Percent	Count
Yes, for residential haulers	0.00%	0
Yes, for commercial haulers	0.00%	0
Yes, for residential AND commercial haulers	76.00%	19
No	16.00%	4
Don't know / not applicable to me	8.00%	2
Totals	100%	25



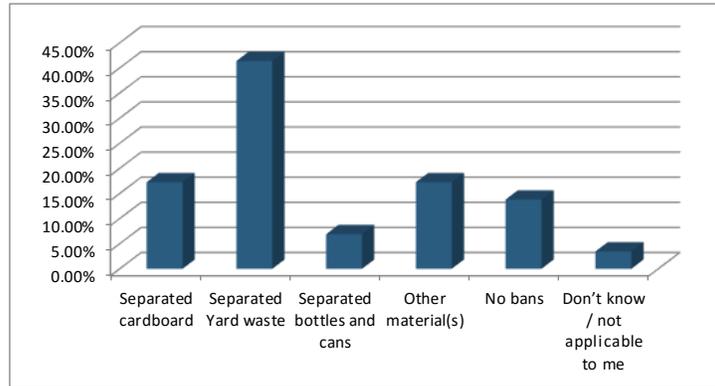
31. FEEDBACK 25 –Do you support the State considering introducing regional planning areas (adjoining counties, wastesheds) for solid waste man

	Responses	
	Percent	Count
Strongly support	62.96%	17
Somewhat support	25.93%	7
Somewhat oppose	11.11%	3
Strongly oppose	0.00%	0
Don't know / not applicable to me	0.00%	0
Totals	100%	27



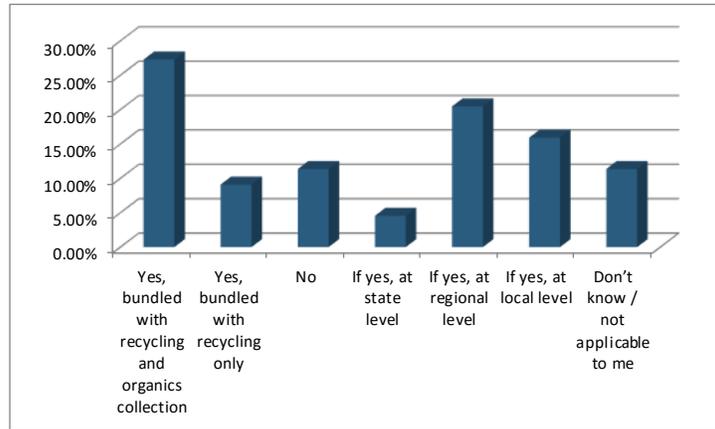
32. FEEDBACK 26 – Should the State consider BANNING any of these materials from disposal? (Multiple Choice - Multiple Response)

	Responses	
	Percent	Count
Separated cardboard	17.24%	5
Separated Yard waste	41.38%	12
Separated bottles and cans	6.90%	2
Other material(s)	17.24%	5
No bans	13.79%	4
Don't know / not applicable to me	3.45%	1
Totals	100%	29



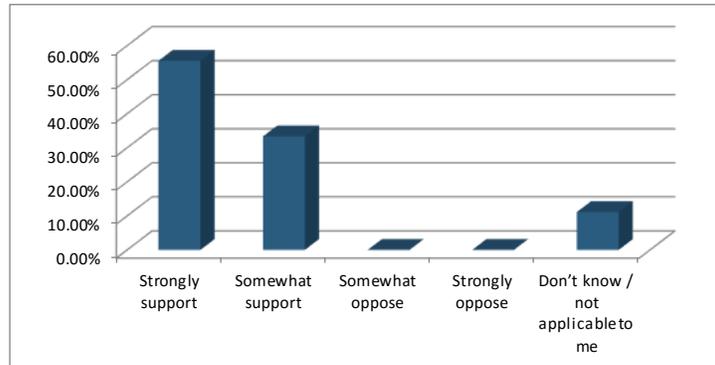
33. FEEDBACK 27 –Would your community support PAYT-type rate incentives for trash bundled with recycling options? (vote for two, if voting yes) (

	Responses	
	Percent	Count
Yes, bundled with recycling and organics collection	27.27%	12
Yes, bundled with recycling only	9.09%	4
No	11.36%	5
If yes, at state level	4.55%	2
If yes, at regional level	20.45%	9
If yes, at local level	15.91%	7
Don't know / not applicable to me	11.36%	5
Totals	100%	44



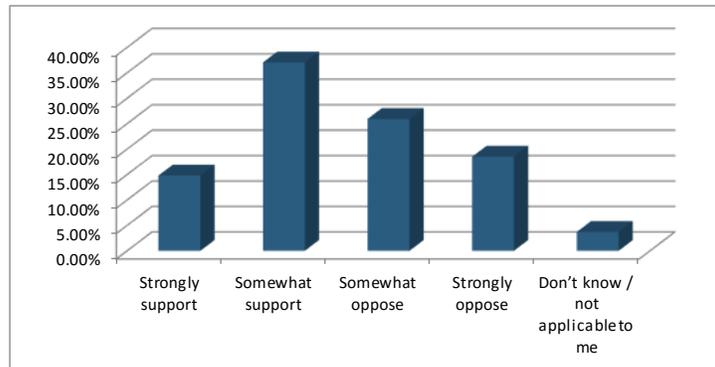
34. FEEDBACK 28 – Thinking about feasible recycling options in your area... Would you support consideration of Hub and Spoke in this area? (Multi

	Responses	
	Percent	Count
Strongly support	55.56%	15
Somewhat support	33.33%	9
Somewhat oppose	0.00%	0
Strongly oppose	0.00%	0
Don't know / not applicable to me	11.11%	3
Totals	100%	27



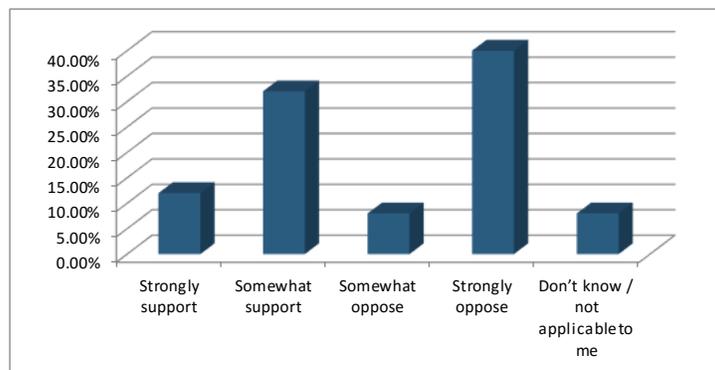
35. FEEDBACK 30A – Do you think (Waste-to-Energy) WTE or similar technologies would be supported in this area? (Multiple Choice)

	Responses	
	Percent	Count
Strongly support	14.81%	4
Somewhat support	37.04%	10
Somewhat oppose	25.93%	7
Strongly oppose	18.52%	5
Don't know / not applicable to me	3.70%	1
Totals	100%	27



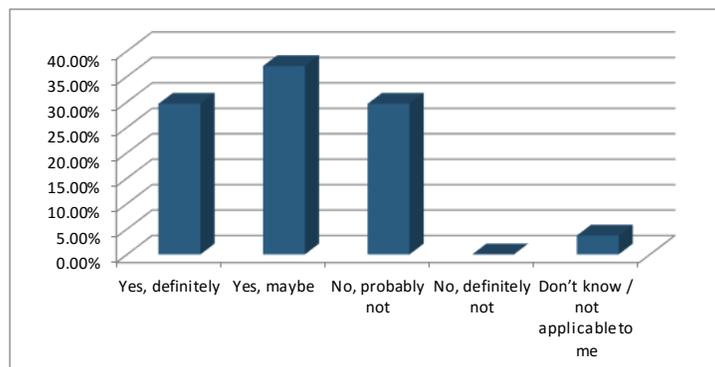
36. FEEDBACK 30B – Do you think a Dirty MRF or similar technologies would be supported in this area? (Multiple Choice)

	Responses	
	Percent	Count
Strongly support	12.00%	3
Somewhat support	32.00%	8
Somewhat oppose	8.00%	2
Strongly oppose	40.00%	10
Don't know / not applicable to me	8.00%	2
Totals	100%	25



37. 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	29.63%	8
Yes, maybe	37.04%	10
No, probably not	29.63%	8
No, definitely not	0.00%	0
Don't know / not applicable to me	3.70%	1
Totals	100%	27



APPENDIX B-

CDPH&E Materials Management

Loveland Pre-Meeting Survey Result

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

Answered: 37 Skipped: 2

Answer Choices	Responses
1 (1)	8% 3
2 (2)	8% 3
3 (3)	3% 1
4 (4)	3% 1
5 (5)	5% 2
6 (6)	3% 1
9 (9)	5% 2
10 (10)	3% 1
12 (12)	3% 1
14 (14)	5% 2
15 (15)	3% 1
18 (18)	3% 1
19 (19)	3% 1
20 (20)	3% 1
23 (23)	3% 1
25 (25)	5% 2
26 (26)	8% 3
27 (27)	3% 1
29 (29)	3% 1
30 (30)	5% 2
32 (32)	3% 1
35 (35)	5% 2
More than 35 years (36)	8% 3
Total	37

Basic Statistics				
Minimum	Maximum	Median	Mean	Standard Deviation
1.00	36.00	18.00	17.54	12.07

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

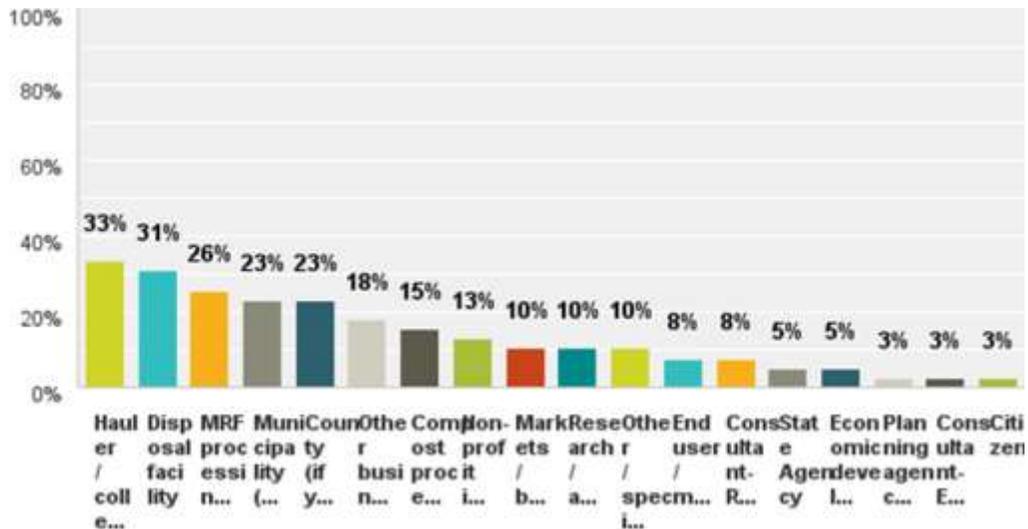
Answered: 36 Skipped: 3

Answer Choices	Responses
1 (1)	11% 4
2 (2)	8% 3
3 (3)	3% 1
4 (4)	8% 3
5 (5)	6% 2
8 (8)	3% 1
9 (9)	3% 1
10 (10)	6% 2
12 (12)	6% 2
13 (13)	3% 1
14 (14)	3% 1
15 (15)	3% 1
18 (18)	6% 2
20 (20)	6% 2
25 (25)	8% 3
26 (26)	3% 1
27 (27)	3% 1
35 (35)	6% 2
More than 35 years (36)	8% 3
Total	36

Basic Statistics				
Minimum 1.00	Maximum 36.00	Median 12.00	Mean 14.44	Standard Deviation 11.67

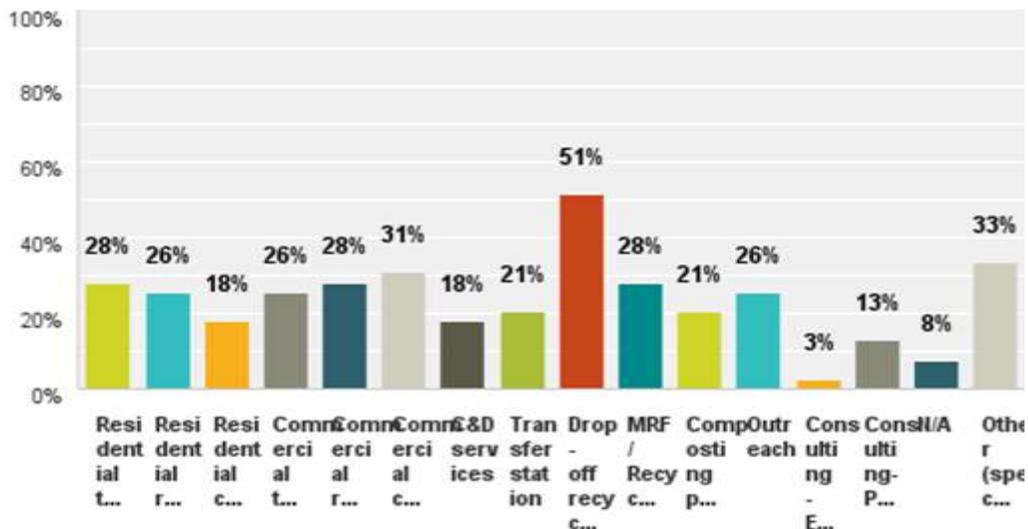
Q4 Which of the following best describes your (or your company's) role in solid waste (check all that apply):

Answered: 39 Skipped: 0



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

Answered: 39 Skipped: 0



Q10 Please list which of these are available in your area (the one you listed above)? (check all that apply)

Answered: 26 Skipped: 13

	In City / Town	In County	Other	Not Available	Total Respondents
Residential trash collection	96% 23	58% 14	4% 1	0% 0	24
Residential recycling collection	96% 23	42% 10	4% 1	0% 0	24
Residential composting collection	67% 12	28% 5	11% 2	28% 5	18
Drop off recycling	92% 23	48% 12	0% 0	0% 0	25
Drop off composting	72% 13	28% 5	11% 2	17% 3	18
Commercial trash collection	95% 20	71% 15	5% 1	0% 0	21
Commercial recycling collection	95% 20	57% 12	5% 1	0% 0	21
Commercial composting collection	76% 13	41% 7	12% 2	18% 3	17
C&D services	82% 14	59% 10	0% 0	12% 2	17
Transfer Station	35% 6	53% 9	6% 1	18% 3	17
Recycling Processing (MRF)	32% 6	74% 14	11% 2	11% 2	19
Compost Processing	40% 6	47% 7	27% 4	20% 3	15
Outreach	90% 18	60% 12	5% 1	0% 0	20
Hazardous waste materials site	55% 11	70% 14	0% 0	0% 0	20
Hazardous waste events	77% 17	45% 10	0% 0	0% 0	22
Electronics collection events	85% 17	50% 10	5% 1	0% 0	20
Require space for recycling	71% 10	29% 4	14% 2	0% 0	14
Recycling Material Bans / Mandates	93% 13	21% 3	7% 1	0% 0	14
Composting Materials Bans / Mandates	10% 1	10% 1	0% 0	80% 8	10
Commercial Recycling Requirement	57% 8	7% 1	14% 2	36% 5	14
Commercial Composting / Green Waste Requirements	20% 2	10% 1	20% 2	70% 7	10
Hub & Spoke Programs	27% 3	18% 2	9% 1	55% 6	11
Residential PAYT	88% 15	29% 5	0% 0	12% 2	17
Commercial PAYT (recycling included in rates)	36% 4	18% 2	9% 1	55% 6	11

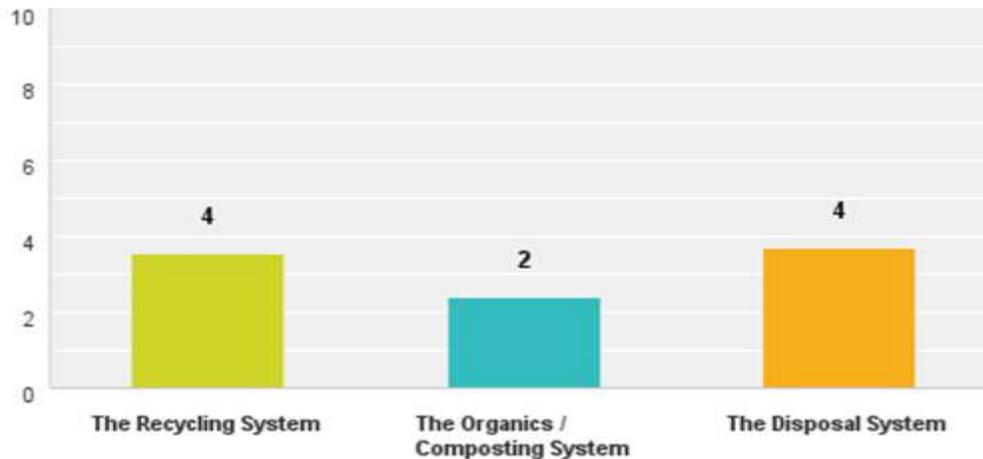
Q11 If available- Who provides the following in your area?

Answered: 22 Skipped: 17

	Residential curbside trash collection	Residential curbside recycling collection	Residential yard / green waste collection	Total Respondents
Open subscriptions	38% 9	38% 9	25% 6	24
City staff	41% 9	41% 9	18% 4	22
County staff	0% 0	0% 0	0% 0	0
Contract Hauler(s)	39% 12	35% 11	26% 8	31
Other	25% 1	25% 1	50% 2	4

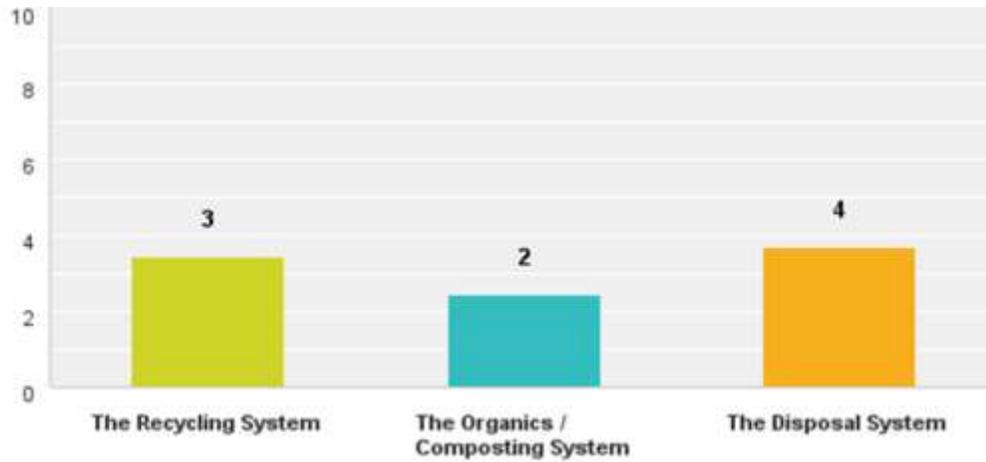
Q13 How well do you think each of the following is working in your area? (1= not well; 5= very well)

Answered: 30 Skipped: 9



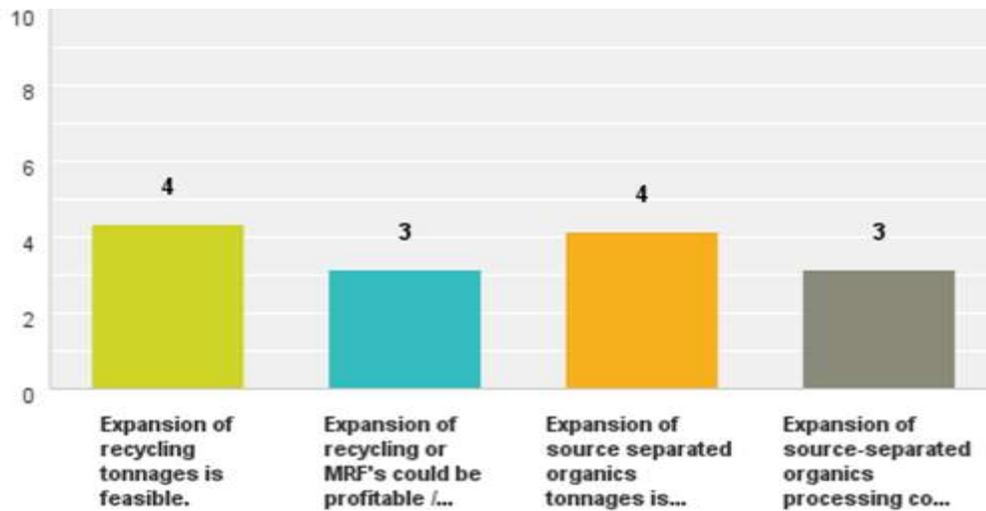
Q14 How satisfied are you with each of the following in your area? (1= not at all; 5= very satisfied)

Answered: 30 Skipped: 9



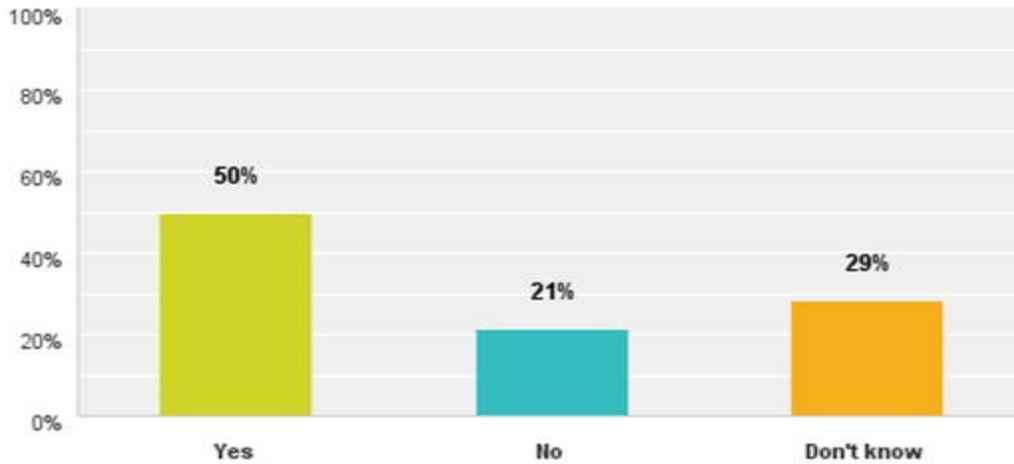
Q15 Please rank the following for your area; 1=Disagree strongly; 5=Agree strongly

Answered: 29 Skipped: 10



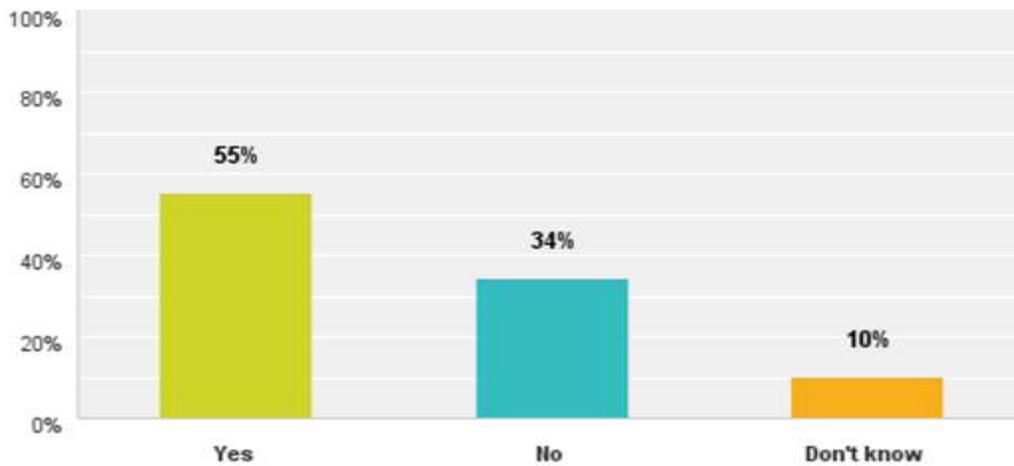
Q16 Have you ever considered Hub & Spoke?

Answered: 28 Skipped: 11



Q17 Have you ever considered Waste-to-Energy or some variation?

Answered: 29 Skipped: 10



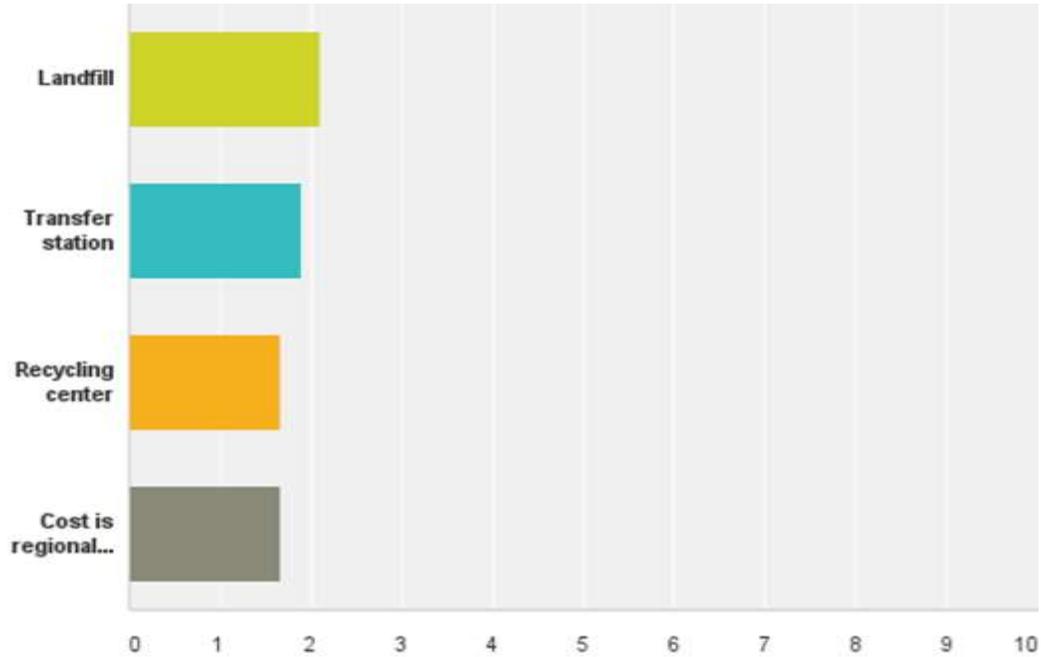
Q18 What are the most important barriers that constrain you / your company from expanding recycling or composting – or the expansion of recycling / composting facilities? (check the top 3 for recycling and top 3 for composting)

Answered: 30 Skipped: 9

	RECYCLING	ORGANICS	Total Respondents
Contamination of incoming materials	92% 12	23% 3	13
Markets – access	100% 11	18% 2	11
Profitability issues	71% 10	57% 8	14
Low landfill prices	77% 10	62% 8	13
Poor operational economics / profitability (why / detail in "other")	90% 9	60% 6	10
High capital cost / lack of financing	62% 8	69% 9	13
Insufficient demand / pricing for products (e.g. baled recyclables, compost, biogas, etc.)	73% 8	64% 7	11
Poor enforcement of mandates / regulations	100% 6	33% 2	6
Insufficient municipal commitment to diversion programs	67% 6	78% 7	9
Low participation / collection program weaknesses	57% 4	57% 4	7
Lack of demand locally for product	57% 4	57% 4	7
Competitive pressures (explain in "other")	100% 3	33% 1	3
Waste committed to flow to specific facilities or put-or-pay agreements	100% 2	100% 2	2
Permitting	20% 2	100% 10	10
Siting barriers	20% 2	90% 9	10
Insufficient understanding of technologies	40% 2	80% 4	5
Identifying programs / services	100% 2	50% 1	2
Illegal dumping	100% 2	50% 1	2
Lack of material supply	50% 1	50% 1	2
Service quality	100% 1	100% 1	1
Other (specify)	0% 0	0% 0	0

Q21 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 this cost is or isn't problematic, and for what specific areas in the box below. Weighted Averages shown.

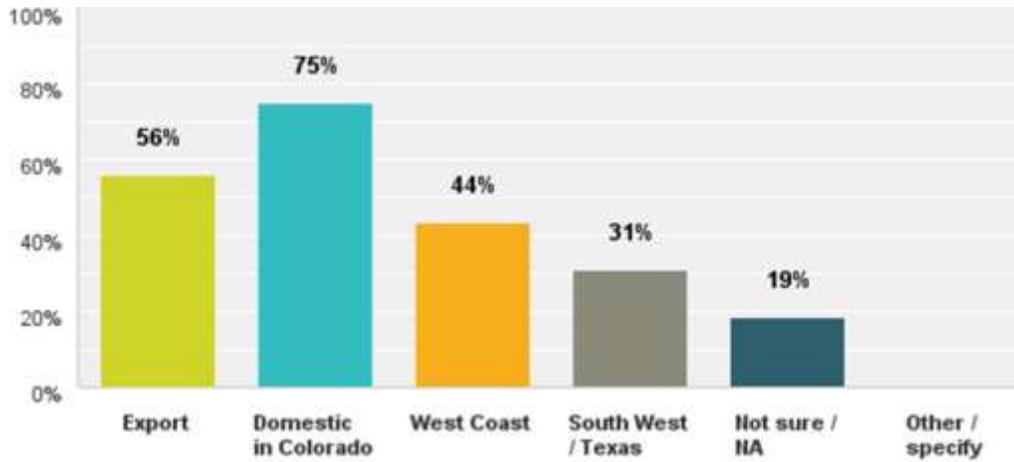
Answered: 10 Skipped: 29



	Yes	No	I don't know	Total	Weighted Average
Landfill	11.11% 1	66.67% 6	22.22% 2	9	2.11
Transfer station	30.00% 3	50.00% 5	20.00% 2	10	1.90
Recycling center	55.56% 5	22.22% 2	22.22% 2	9	1.67
Cost is regional concern	66.67% 6	0.00% 0	33.33% 3	9	1.67

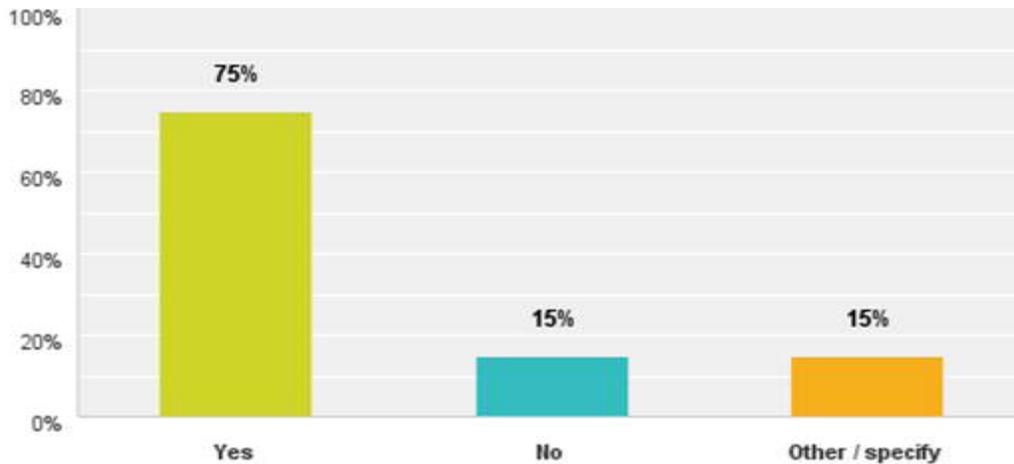
Q28 (For haulers, Municipality, etc.) What market outlets do your recyclables currently flow to? (Check all that apply). Please specify in “other”.

Answered: 15 Skipped: 23



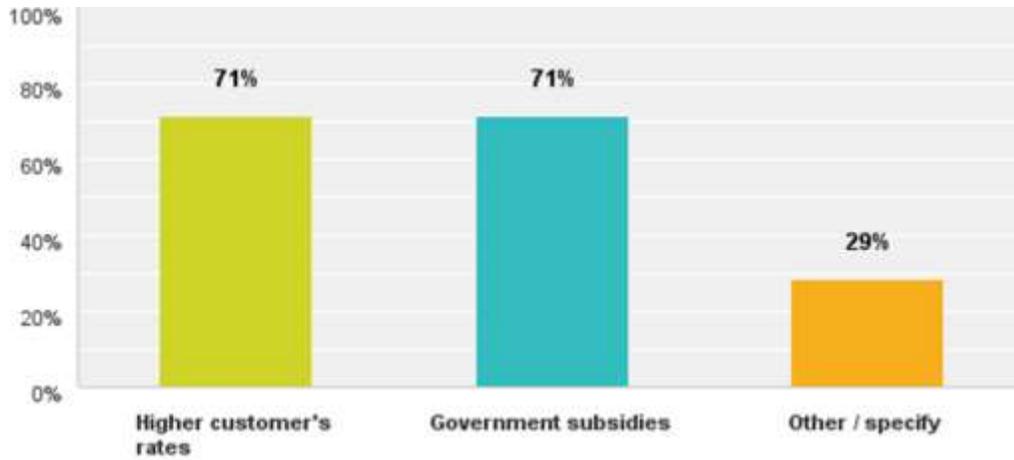
Q30 If commodity prices stay low; will your recycling programs survive?

Answered: 20 Skipped: 19



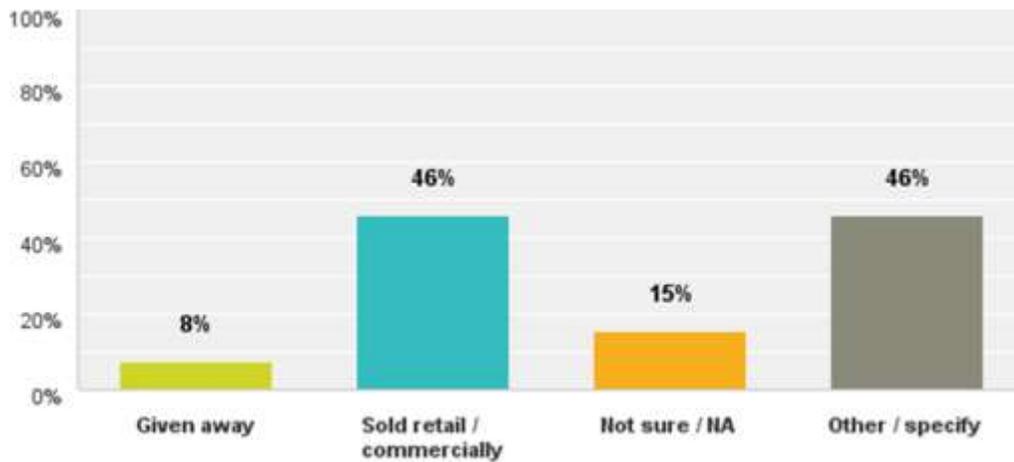
Q31 If no, what would you need to survive?

Answered: 7 Skipped: 32



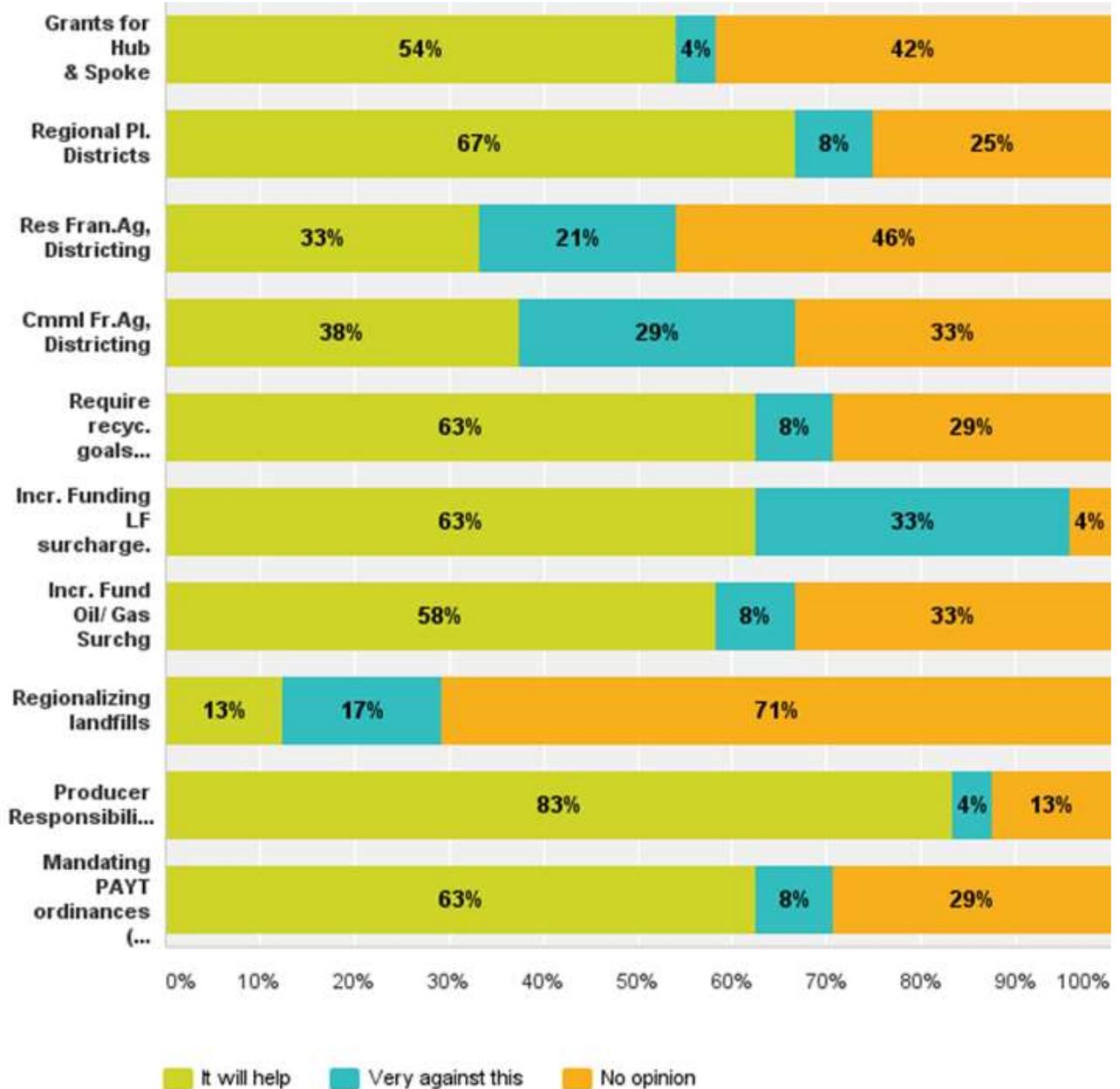
Q32 (For haulers, municipalities, etc.) How is your compost marketed?

Answered: 13 Skipped: 26



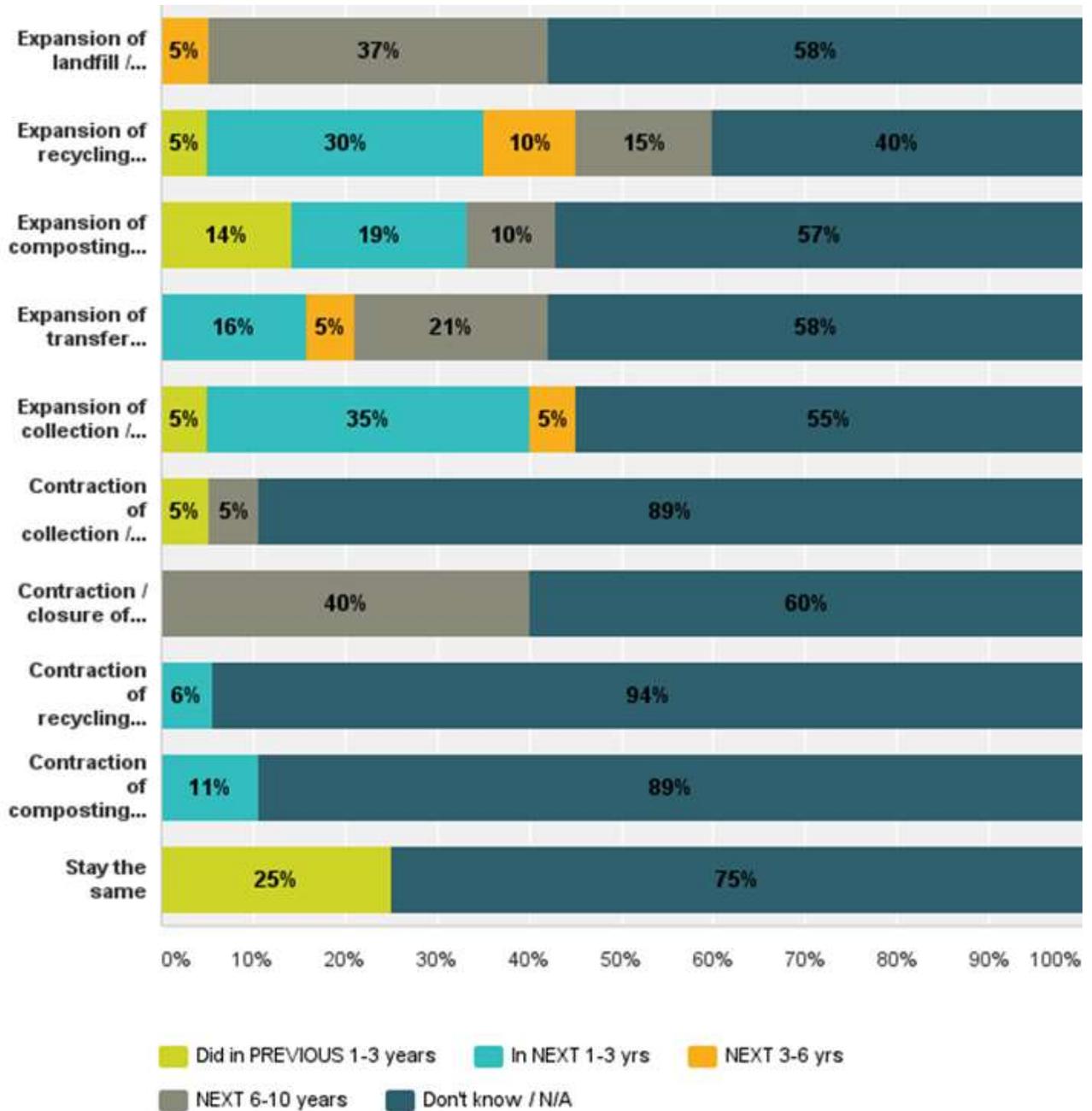
Q34 Do you believe that any of the following “higher level” policies would / might be effective at changing the structure of solid waste practices in a way that increases diversion or the economics of the system?

Answered: 24 Skipped: 15



Q35 Do you have plans for the following in your area?

Answered: 23 Skipped: 16



APPENDIX C-

CDPH&E Materials Management

ADDITIONAL OPEN ENDED ECONOMIC RESPONSES FROM PRE-MEETING SURVEYS

Loveland

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?*
 - Contamination decreases materials value and increases processing costs
 - Market access is poor
 - Landfill prices are very low relative to diversion facilities
 - Poor enforcement of mandates leads to contamination and low participation
 - Insufficient municipal commitment to diversion programs
 - Recently increased cost of equipment and providing services
 - Labor shortage in the driver/maintenance areas
 - Generally poor economics
 - Lack of education
 - Competitive pressure: there are a lot of electronics recyclers who are not managing materials in a responsible manner, driving down the cost of recycling
 - Resource recovery is more expensive than landfilling
 - Government funded waste-to-energy facilities make it hard on for-profit WTE businesses to get started
 - Private industry fears the government requiring use of specific facilities so they don't build them
 - Cost of land/warehouse space in the Denver area is prohibitive
 - The landfill does pay for itself
 - RFP process for operations
 - Yes, for MRFs: commodity pricing (volatile, typically low), transportation costs within state and to end markets
 - Many landfills compete for material volumes
 - Long lines at landfill are a barrier to trash drop-off
 - For organics: Source contamination, profitability, and siting issues (odors are a concern for neighbors) are the biggest problems

2. *Within the region, what would be most beneficial to improve solid waste management services that are protective of human health and the environment?*
 - More education and outreach: build programs based on voluntary participation instead of force, thereby cleaning up recycle streams (less contamination) and helping people worry less about cost and more about the meaning and results

- Market analysis and development: a market analysis that examines the waste stream and identifies opportunities for business development; research into recycling market conditions, technology, and product testing; technical and financial assistance to grow recovery infrastructure and services (e.g. compost processing)
- A well-funded solid waste authority, approved by voters, could develop a resource recovery park managed by the public sector, but operated by private contractors
- Develop local end uses of recycling commodities to reduce transportation costs
- More competition to reduce tipping fees
- More state leadership and collaboration, including a push for regionalization of efforts and facilities
- Develop industry specific technology
- Modernize regulations and city/county mandates
- Partner with innovators by providing incentives for business development
- Build a government subsidy program that activates when markets are down in order to stabilize volatile market price/demand fluctuations
- Establish franchise solutions that will provide disposal and recycling to all customers
- PAYT
- Local waste-to-energy facilities to reduce transportation costs
- Oversight of “rogue” recyclers local markets
- Make Larimer County Recycling Facility into fully-functional MRF again
- Require all landfills have methane collection systems, have full post-closure funding, and are in compliance with all requirements
- Technology exists to revolutionize agriculture and recycling/composting, let’s use it
- Decrease barriers to siting a compost facility
- Weld needs regulation. Greeley needs PAYT. Fort Collins needs to work with haulers to partner and come up with plans, help carry part of the financial costs, use realistic data and timelines to improve current systems
- Residential composting program in Fort Collins
- Using talented scientists to rethink what is actually doing damage to the environment and design policy appropriately
- Funding for recycling – ADF, increased tipping fees, etc.
- Bag / Bottle tax
- Increased access to recycling in multifamily units

APPENDIX D-

CDPH&E Materials Management

TABLE GROUPS WORK SESSION: NOTES

Loveland

What's working:

- Recycling available
- Reuse options
- Compost discussions
- Youth education
- PAYT
- SS Participation
- Composting curbside (Loveland, Boulder)
- Organics processors
- Bag fee in Boulder (good example of ordinance causing overnight behavior change)
- Private and public partnerships
- Infrastructure
- Organics: Food waste collection or drop-off available for a fee (residential in Adams and some Larimer), yard waste curbside or drop-off for a fee (residential in Larimer and some Adams)
- Landfill space not limited
- Sustainability/Carbon Action/Waste Diversion Goals (local)
- Local Champions
- Larger communities with ordinances, but not entire counties
- Curbside works well in HOAs

Missing / changed / barriers:

- Political will
- Specialized recycling
- Funding (subsidies)
- Equitable funding mechanisms for diversion
- Processing for commercial use (ie feedstock)
- Focus on reducing generation
- Youth education, in all schools
- Commercial diversion
- State leadership – dedicated staff, resources / technical assistance to communities, funding, state plan with goals, market research
- Local composting facilities
- Fees for contamination

- Markets (not just local)
- Hauler buy-in (profitability and market buy-in)
- Public understanding regarding economics of waste (more focus on reduce / reuse)
- Commercial packaging reduction
- Product stewardship
- Community, elected official, and national support
- Markets have changed (for the worse)
- Regulations allowing partnerships for small-scale composting with local farmers

Resources / successes in your area:

- Environmental mind set
- PAYT
- Centralized location
- Larimer County solid waste system works as an enterprise fund
- Single Stream
- Composting / Organics processing
- Competitive market place
- Strong city models
- Broomfield drop-off facility (manned is best, quality and value go up)

Opportunities / sharing resources:

- Sharing efforts, systems, ideas
- Locating recycling / remanufacturing with MRFs, landfills, transfer facilities
- Sharing best practices (bridging the I-25 divide)
- Community garden, reuse
- Neighborhood composting
- Land access enterprise fund (Larimer)
- HHW facility in Larimer
- Partner with private sector
- Regionalization
- C&D sorting facility
- Regional resource recovery parks

Ideas near / long term:

- More local lobbying
- Capital investment for value increase
- More knowledge sharing (meetings, technical information, webinars)
- Send more sorted materials to MRFs to increase profitability
- Get glass out of SS
- Balance protective regulation with freedom to innovate, expand and maintain profitability
- Research full impacts of materials, educate then adapt
- Enhance regional collaboration
- Move from disposal management to materials management

- Public-Private partnerships, especially for organics
- Outcome based guidelines and standards, rather than prescriptive rules from CDPHE
- Increased / improved communication and transparency about cost
- Local / Regional control of waste stream
- Dual purpose transfer stations in rural communities
- 5-10year franchise agreements / reduce open markets
- Build market capacities (recycled content manufacturers, in state end use / regionalized end use)
- Require diversion tracking in every jurisdiction/region
- Scale requirements by population density
- Statewide requirement to license haulers
- Commercial sector recycling or composting requirements

Assistance needed:

- A coordinated effort
- Quicker/simpler permitting
- Funding sources
- Push and educate decision makers
- Grants for education
- Market research, how to improve markets and attract new end processors
- Compost permitting – siting
- Consider waste shed authority
- Push responsibility upstream (extend producer responsibility, manufacturers, retailers, consumers)
- HSRF (Health System Research Fund)/RREO program be reappointed to municipalities (switch from lump sum to annualized system)
- Better state website – one shop website for recycling resources

Funding ideas:

- User fees
- Landfill surcharge
- Lottery allocated to environmental efforts
- Grants to fund education
- Improve markets
- More state funds
- Advanced disposal fees, include more material
- Bottle Deposit Bill / other up front funding

Not needed:

- More regulation
- One size fits all solution
- Unfunded mandates

Roles / who's needed:

- State level advocacy for national solutions (product stewardship, markets, fewer federal subsidies for virgin materials)

- State to lead, organize, push, streamline
- Executive order for sustainable purchasing and increased recycling
- State needs bigger role (staff focused on recycling/composting at governor's level / economic development)
- CAFR support