

Charging for Garden waste

Scenario 1

350kgs per hh - Effect of reduced participation regarding overall recycling % reduction – Worst case.

Composting participation rate	No of HH	Recycling tonnes dry	Green waste Leaf fall Street Cleansing tonnes	Green waste HH Tonnes 350kg/hh	Estimated Overall % recycling Reduction green waste & dry
Current	24,330	3,937	771	7,229	52%
60%	14,598	3,937	771	5,109	43%
40%	9,732	3,937	771	3,406	35%
30%	7,299	3,937	771	2,554	32%
25%	6,083	3,937	771	2,129	30%
10%	2,433	3,937	771	852	24%

Notes – S1

- 'Current' weight of green waste per property based on RDC as is scenario = 297.13kgs per household. Recycling credits reflects budget not actual.
- All other scenarios % assumes rate will increase to 350 kgs per hh due to enhanced tonnage from those who participate. This seems relatively conservative for a rural authority.
- **Estimated scenario % recycling rates assumes all garden waste that is not recycled is being put into residual waste, which should be the very worst case scenario as this is not borne out by other Authorities.**
- Residual tonnage = 11,069.61
- Total overall tonnage = 23,006.99

Scenario 2

450kgs per hh Effect of reduced participation regarding overall recycling % reduction – Best case.

Composting participation rate	No of HH	Recycling tonnes dry	Green waste Leaf fall Street Cleansing tonnes	Green waste HH Tonnes 450kg/hh	Estimated Overall % recycling Reduction green waste & dry
Current	24,330	3,937	771	7,229	52%
60%	14,598	3,937	771	6,569	51%
40%	9,732	3,937	771	4,379	45%
30%	7,299	3,937	771	3,285	42%
25%	6,083	3,937	771	2,737	40%
10%	2,433	3,937	771	1,095	34%

Notes- S2

- 'Current' weight of green waste per property based on RDC as is scenario = 297.13kgs per household. Recycling credits reflects budget not actual.
- All other scenarios % assumes rate will increase to 450 kgs per hh due to enhanced tonnage from those who participate. This is optimistic but potentially achievable for a rural authority. A number of authorities are achieving 500Kgs per hh.
- **Estimated scenario % recycling rates assumes all garden waste not recycled is being put into NYCC sites or effectively does not appear in RDC residual waste stream. Surprisingly this seems**

to be the norm – Research indicates we can expect up to 13% potentially to go to HWRC's (responsibility of the County), and the rest either gets home composted or effectively disappears from the collection system as documented from a number of Authorities. There has been no increase in fly tipping.

- Residual tonnage = 11,069.61
- Total overall tonnage = 23,006.99

Financial Appraisal

Estimated Additional Expenditure - Charged Garden Waste Collection

<i>Description</i>	<i>Initial costs- first year</i>	<i>On-going annual cost</i>
Promotion	£7,000	£3,000
Printing/design of stickers	£4,000	£4,000
Licence/postage/envelopes	£30,000	£16,000
Processing payments	£6,000	£6,000
Staff/ops/vehicles	£50,000	£36,000
Bin collection/delivery	£15,000	£2,000
Discounted compost bins	£5,000	£0
Total Costs	£117,000	£67,000

Summary Financials Appraisal – Estimated efficiency savings – £25 and £30 charging options

									Best case – 450Kg per hh £44.44 (Credit) – £21.5 (gate fee) = 22.94 add income
No of HH	Composting participation rate	Rounds needed	Rounds saved	Net (Cost)/Inc @£30 £	Net Saving Revenue Budget @£30 £	Net (Cost)/Inc @£25 £	Net Saving Revenue Budget @£25 £		Additional saving on both Options1 and 2 if higher collection kgs per hh achieved £
24,330	Current	7 rounds	NA	(285,730)	NA	(285,730)	NA		NA
14,598	60%	6 rounds	1	88,368	374,098	(15,378)	270,352		+ 33,488
9732	40%	5 rounds	2	(39,768)	245,962	(88,428)	197,302		+ 22,325
7299	30%	4 rounds	3	(75,381)	210,349	(111,876)	173,854		+ 16,743
6083	25%	3 rounds	4	(64,715)	221,015	(95,130)	190,060		+ 13,953
2433	10%	2 rounds	5	(146,610)	139,120	(158,775)	126,955		+ 5,581

Summary Financials Appraisal – Estimated efficiency savings – RECOMMENDED £27 and £36 charging options

				Outcome 2014/15	Outcome 2014/15	Outcome 2015/16	Outcome 2015/16		Best case – 450Kg per hh £44.44 (Credit) – £21.5 (gate fee) = 22.94 add income
No of HH	Composting participation rate	Rounds needed	Rounds saved	Net (Cost)/Inc @£27 £	Net Saving Revenue Budget @£27 £	Net (Cost)/Inc @£36 £	Net Saving Revenue Budget @£36 £		Additional saving on both Options1 and 2 if higher collection kgs per hh achieved £
24,330	Current	7 rounds	NA	(285,730)	NA	(285,730)	NA		NA
14,598	60%	6 rounds	1	44,574	330,304	175,956	461,686		+ 33,488
9732	40%	5 rounds	2	(68,964)	216,766	18,624	304,354		+ 22,325
7299	30%	4 rounds	3	(97,278)	188,452	(31,587)	254,143		+ 16,743
6083	25%	3 rounds	4	(82,964)	202,766	(28,217)	257,513		+ 13,953
2433	10%	2 rounds	5	(153,909)	131,821	(132,012)	153,718		+ 5,581

Notes:

- **Health Warning- These are estimates based on assessment .Local issues could negatively affect the assumptions made**
- Additional cost year 1 £117K per year as opposed to £67K – i.e. **Additional £50K cost year one**
- Savings do not account for redundancy costs
- Savings do not account for later start in the year ie June/July
- Assumes vehicle savings can be made immediately- vehicles fall out 2014 so early decisions need to be made.
- Assumes efficiency reductions ie rounds staff etc are made immediately – in reality will be element of phasing in
- Potential for increased cost if residual refuse increases beyond capacity we have for 2nd tips, however vehicle capacity has some tolerance.
- Estimates assume all Ryedale is included with no targeted areas or price differential
- NB- **Targeting areas** would increase efficiency and **potentially increase savings above by 50K** depending on scale.
- NB also (above Right hand column) **potential of additional savings if average of 450kgs per hh achieved**
- Figures include for Gate fee £21.5 tonne and Recycling credit - £44 .44
- Figures assumes worst case ie lower 350Kg per hh which reduces gate fees and credit income
- Collection costs are estimates and would require time to bed in and re-profile and optimise rounds. This is why we need year one to implement to make savings for 2015/16