

Appendix D
Fairfax County Recycling
Projections

Appendix D - Fairfax County Recycling Scenario Projections

Year	Scenario 1			Scenario 2			Scenario 3			
	Percentage Recycled	Recycled Tonnage		Percentage Recycled	Recycled Tonnage		Recycled Tonnage	Percentage Recycled	Recycled Tonnage	
		Alternative 1 - Constant WGR	Alternative 2 - WGR Increase @ 1%/yr		Alternative 1 - Constant WGR	Alternative 2 - WGR Increase @ 1%/yr			Alternative 1 - Constant WGR	Alternative 2 - WGR Increase @ 1%/yr
2013	45.8%	555,664	555,664	45.8%	555,664	555,664	555,664	45.8%	555,664	555,664
2014	49.0%	596,296	602,258	46.5%	566,293	571,956	610,398	50.2%	610,398	616,502
2015	49.0%	598,744	610,779	47.2%	577,117	588,717	612,904	50.2%	612,904	625,224
2016	49.0%	603,526	621,814	47.9%	590,421	608,312	617,800	50.2%	617,800	636,520
2017	49.0%	608,347	633,048	48.7%	604,032	628,558	622,734	50.2%	622,734	648,020
2018	49.0%	613,206	644,486	49.4%	617,957	649,479	627,708	50.2%	627,708	659,728
2019	49.0%	618,104	656,130	50.1%	632,203	671,096	632,722	50.2%	632,722	671,647
2020	49.0%	623,041	667,984	50.9%	646,777	693,432	637,776	50.2%	637,776	683,782
2021	49.0%	628,303	680,362	51.6%	661,988	716,838	643,162	50.2%	643,162	696,452
2022	49.0%	633,609	692,969	52.4%	677,556	741,033	648,594	50.2%	648,594	709,358
2023	49.0%	638,960	705,810	53.2%	693,491	766,045	654,072	50.2%	654,072	722,502
2024	49.0%	644,357	718,888	54.0%	709,800	791,902	659,596	50.2%	659,596	735,890
2025	49.0%	649,799	732,209	54.8%	726,493	818,631	665,166	50.2%	665,166	749,526
2026	49.0%	654,647	745,050	55.6%	742,854	845,437	670,130	50.2%	670,130	762,670
2027	49.0%	659,532	758,115	56.4%	759,583	873,121	675,130	50.2%	675,130	776,045
2028	49.0%	664,454	771,410	57.3%	776,688	901,711	680,168	50.2%	680,168	789,654
2029	49.0%	669,412	784,938	58.1%	794,179	931,237	685,243	50.2%	685,243	803,502
2030	49.0%	674,407	798,703	59.0%	812,063	961,730	690,357	50.2%	690,357	817,593
2031	49.0%	679,520	812,806	59.9%	830,449	993,340	695,591	50.2%	695,591	832,029
2032	49.0%	684,672	827,159	60.0%	838,374	1,012,847	700,865	50.2%	700,865	846,721
2033	49.0%	689,863	841,764	60.0%	844,730	1,030,732	706,178	50.2%	706,178	861,672
2034	49.0%	695,093	856,628	60.0%	851,135	1,048,932	711,532	50.2%	711,532	876,887
2035	49.0%	700,363	871,754	60.0%	857,588	1,067,453	716,927	50.2%	716,927	892,370

Appendix D Supplement - Material Specific Recycling Projections (Scenario 3)

Year	2013*	2014	2015	2016	2017	2018	2019	2020	2021
Principal Recyclable Materials									
Paper	116,301	117,449	117,931	118,873	119,823	120,780	121,744	122,717	123,753
Metal	69,368	70,052	70,340	70,902	71,468	72,039	72,614	73,194	73,813
Plastic	1,994	2,014	2,022	2,038	2,054	2,071	2,087	2,104	2,122
Glass	629	635	638	643	648	653	658	664	669
Commingled Bottles/Cans	12,383	12,505	12,556	12,657	12,758	12,860	12,962	13,066	13,176
Yard Waste	241,773	244,159	245,162	247,120	249,094	251,083	253,089	255,110	257,265
Wood	13,446	13,578	13,634	13,743	13,853	13,963	14,075	14,187	14,307
Textiles	1,520	1,535	1,542	1,554	1,566	1,579	1,591	1,604	1,618
Single Stream (County only)	126,900	128,153	128,679	129,707	130,743	131,787	132,840	133,901	135,032
Total - Principal Recyclable Materials	584,313	590,080	592,503	597,236	602,006	606,814	611,661	616,547	621,754
Supplemental Recyclable Materials									
Waste Tires	8,441	8,524	8,559	8,628	8,697	8,766	8,836	8,907	8,982
Used Oil	7,264	7,335	7,365	7,424	7,483	7,543	7,603	7,664	7,729
Used Oil Filters	431	436	437	441	444	448	452	455	459
Used Antifreeze	708	715	718	724	730	736	741	747	754
Batteries	1,736	1,753	1,761	1,775	1,789	1,803	1,817	1,832	1,847
Electronics	1,539	1,554	1,560	1,573	1,585	1,598	1,611	1,623	1,637
Total - Supplemental Recyclable Materials	20,119	20,318	20,401	20,564	20,728	20,894	21,061	21,229	21,408
Total Recyclables	604,432	610,398	612,904	617,800	622,734	627,708	632,722	637,776	643,162

*2013 data represents the average recycling tonnages reported by Fairfax County for 2011-2013, plus 2013 reported recycling data from the City of Fairfax, City of Falls Church and Herndon.

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Year	2022	2023	2024	2025	2026	2027	2028	2029	2030
Principal Recyclable Materials									
Paper	124,798	125,852	126,915	127,987	128,942	129,904	130,874	131,850	132,834
Metal	74,436	75,065	75,699	76,338	76,908	77,481	78,060	78,642	79,229
Plastic	2,140	2,158	2,176	2,194	2,211	2,227	2,244	2,260	2,277
Glass	675	680	686	692	697	702	708	713	718
Commingled Bottles/Cans	13,287	13,400	13,513	13,627	13,729	13,831	13,934	14,038	14,143
Yard Waste	259,438	261,629	263,838	266,067	268,052	270,052	272,067	274,098	276,143
Wood	14,428	14,550	14,673	14,797	14,907	15,018	15,130	15,243	15,357
Textiles	1,631	1,645	1,659	1,673	1,685	1,698	1,711	1,724	1,736
Single Stream (County only)	136,172	137,322	138,482	139,651	140,693	141,743	142,801	143,866	144,940
Total - Principal Recyclable Materials	627,005	632,300	637,641	643,026	647,824	652,658	657,528	662,435	667,378
Waste Tires	9,058	9,134	9,211	9,289	9,359	9,428	9,499	9,570	9,641
Supplemental Recyclable Materials									
Used Oil	7,794	7,860	7,926	7,993	8,053	8,113	8,174	8,235	8,296
Used Oil Filters	463	467	471	475	478	482	485	489	493
Used Antifreeze	760	767	773	780	785	791	797	803	809
Batteries	1,863	1,879	1,895	1,911	1,925	1,939	1,954	1,968	1,983
Electronics	1,651	1,665	1,679	1,693	1,706	1,718	1,731	1,744	1,757
Total - Supplemental Recyclable Materials	21,589	21,771	21,955	22,141	22,306	22,472	22,640	22,809	22,979
Total Recyclables	648,594	654,072	659,596	665,166	670,130	675,130	680,168	685,243	690,357

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Year	2031	2032	2033	2034	2035
Principal Recyclable Materials					
Paper	133,841	134,856	135,878	136,909	137,947
Metal	79,830	80,435	81,045	81,659	82,278
Plastic	2,295	2,312	2,329	2,347	2,365
Glass	724	729	735	740	746
Commingled Bottles/Cans-	14,250	14,358	14,467	14,577	14,687
Yard Waste	278,236	280,346	282,471	284,613	286,771
Wood	15,473	15,591	15,709	15,828	15,948
Textiles	1,750	1,763	1,776	1,790	1,803
Single Stream (County only)	146,039	147,146	148,262	149,386	150,518
Total - Principal Recyclable Materials	672,438	677,536	682,673	687,849	693,064
Supplemental Recyclable Materials					
Waste Tires	9,714	9,788	9,862	9,937	10,012
Used Oil	8,359	8,422	8,486	8,551	8,615
Used Oil Filters	496	500	504	508	512
Used Antifreeze	815	821	828	834	840
Batteries	1,998	2,013	2,028	2,044	2,059
Electronics	1,771	1,784	1,798	1,811	1,825
Total - Supplemental Recyclable Materials	23,153	23,329	23,506	23,684	23,863
Total Recyclables	695,591	700,865	706,178	711,532	716,927

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