

Appendix C

Estimated 2002 Solid Waste Collections
Municipal Solid Waste Projections: 2005 - 2025

Estimated 2002 Municipal Solid Waste Collections

Estimated Public Collections:

Richmond – 193,000 (population)	160,000 tons
Chesterfield – 5,000 households	3,200 tons
Henrico – 26,000 households	55,000 tons

Total Estimated Public Collections **218,200 tons**

People per household – 2.53
4.51 lbs MSW per person per day ¹

Estimated Public Collection/Private Contract

Ashland – 1,465 households	3,100 tons
Hopewell – 8,150 households	17,000 tons
Petersburg – 11,500 households	23,900 tons
Colonial Heights – 6,575 households	13,700 tons

Total Estimated Public/Private Collections **57,700 tons**

Total Collected at Transfer Stations / Convenience Centers

Powhatan	7,750 tons
New Kent	7,600 tons
Goochland	7,000 tons
Prince George	7,000 tons
Hanover	29,000 tons
Henrico	30,000 tons
Chesterfield	30,800 tons

Total Collected at Transfer Stations **119,150 tons**

Total MSW generated within region	818,630 tons
Recycled tonnage	329,298 tons
MSW Landfilled tonnage	489,332 tons

¹ *Municipal Solid Waste in the United States*, Office of Solid Waste and Emergency Response, United States Environmental Protection Agency EPA530-R-02-001, June 2002

Table 12

Estimated MSW Tonnages by Component - 2005

Locality	2005 MSW (tons)	ONP (tons)	OCC (tons)	Other Paper (tons)	Plastics (tons)	Ferrous Metals (tons)	Non- Ferrous Metals (tons)	Glass (tons)	Yard Waste (tons)	Tires (tons)	Other (tons)
Charles City County	5,843.8	379	761	1,046	625	339	117	321	701	74	1,480
Chesterfield County	236,222.5	15,307	30,780	42,284	25,276	13,701	4,724	12,992	28,347	3,000	59,812
Goochland County	15,803.0	1,024	2,059	2,829	1,691	917	316	869	1,896	201	4,001
Hanover County	79,673.7	5,163	10,381	14,262	8,525	4,621	1,593	4,382	9,561	1,012	20,173
Henrico County	233,094.8	15,105	30,372	41,724	24,941	13,520	4,662	12,820	27,971	2,960	59,020
New Kent County	12,263.8	795	1,598	2,195	1,312	711	245	675	1,472	156	3,105
Powhatan County	21,564.6	1,397	2,810	3,860	2,307	1,251	431	1,186	2,588	274	5,460
Richmond City	157,371.9	10,198	20,506	28,170	16,839	9,128	3,147	8,655	18,885	1,999	39,847
Prince George County	28,437.2	1,843	3,705	5,090	3,043	1,649	569	1,564	3,412	361	7,200
Colonial Heights City	14,074.6	912	1,834	2,519	1,506	816	281	774	1,689	179	3,564
Hopewell City	18,190.0	1,179	2,370	3,256	1,946	1,055	364	1,000	2,183	231	4,606
Petersburg City	25,679.9	1,664	3,346	4,597	2,748	1,489	514	1,412	3,082	326	6,502
CVWMA Service Area	848,220	54,965	110,523	151,831	90,760	49,197	16,964	46,652	101,786	10,772	214,769

Note: Totals for the Town of Ashland are included in the County of Hanover totals

Source of component percentages: *Municipal Solid Waste in the United States*, Office of Solid Waste and Emergency Response, United States Environmental Protection Agency EPA530-R-02-001, June 2002

**Table 13
Estimated MSW Tonnages by Component - 2010**

Locality	2010 MSW (tons)	ONP (tons)	OCC (tons)	Other Paper (tons)	Plastics (tons)	Ferrous Metals (tons)	Non- Ferrous Metals (tons)	Glass (tons)	Yard Waste (tons)	Tires (tons)	Other (tons)
Charles City County	6,090.8	395	794	1,090	652	353	122	335	731	77	1,542
Chesterfield County	260,091.7	16,854	33,890	46,556	27,830	15,085	5,202	14,305	31,211	3,303	65,855
Goochland County	17,613.8	1,141	2,295	3,153	1,885	1,022	352	969	2,114	224	4,460
Hanover County	87,246.0	5,654	11,368	15,617	9,335	5,060	1,745	4,799	10,470	1,108	22,091
Henrico County	247,745.6	16,054	32,281	44,346	26,509	14,369	4,955	13,626	29,729	3,146	62,729
New Kent County	13,333.8	864	1,737	2,387	1,427	773	267	733	1,600	169	3,376
Powhatan County	24,609.9	1,595	3,207	4,405	2,633	1,427	492	1,354	2,953	313	6,231
Richmond City	157,701.2	10,219	20,548	28,229	16,874	9,147	3,154	8,674	18,924	2,003	39,930
Prince George County	29,630.7	1,920	3,861	5,304	3,170	1,719	593	1,630	3,556	376	7,502
Colonial Heights City	14,156.9	917	1,845	2,534	1,515	821	283	779	1,699	180	3,585
Hopewell City	17,860.7	1,157	2,327	3,197	1,911	1,036	357	982	2,143	227	4,522
Petersburg City	25,021.5	1,621	3,260	4,479	2,677	1,451	500	1,376	3,003	318	6,335
CVWMA Service Area	901,103	58,391	117,414	161,297	96,418	52,264	18,022	49,561	108,132	11,444	228,159

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Source of component percentages: *Municipal Solid Waste in the United States*, Office of Solid Waste and Emergency Response, United States Environmental Protection Agency EPA530-R-02-001, June 2002

Table 14
Estimated MSW Tonnages by Component - 2015

Locality	2015 MSW (tons)	ONP (tons)	OCC (tons)	Other Paper (tons)	Plastics (tons)	Ferrous Metals (tons)	Non- Ferrous Metals (tons)	Glass (tons)	Yard Waste (tons)	Tires (tons)	Other (tons)
Charles City County	6,255.4	405	815	1,120	669	363	125	344	751	79	1,584
Chesterfield County	279,927.8	18,139	36,475	50,107	29,952	16,236	5,599	15,396	33,591	3,555	70,878
Goochland County	19,177.6	1,243	2,499	3,433	2,052	1,112	384	1,055	2,301	244	4,856
Hanover County	93,912.9	6,086	12,237	16,810	10,049	5,447	1,878	5,165	11,270	1,193	23,779
Henrico County	261,326.3	16,934	34,051	46,777	27,962	15,157	5,227	14,373	31,359	3,319	66,168
New Kent County	14,403.8	933	1,877	2,578	1,541	835	288	792	1,728	183	3,647
Powhatan County	27,079.2	1,755	3,528	4,847	2,897	1,571	542	1,489	3,250	344	6,856
Richmond City	156,878.1	10,166	20,441	28,081	16,786	9,099	3,138	8,628	18,825	1,992	39,722
Prince George County	30,865.3	2,000	4,022	5,525	3,303	1,790	617	1,698	3,704	392	7,815
Colonial Heights City	14,198.0	920	1,850	2,541	1,519	823	284	781	1,704	180	3,595
Hopewell City	17,778.4	1,152	2,317	3,182	1,902	1,031	356	978	2,133	226	4,501
Petersburg City	24,609.9	1,595	3,207	4,405	2,633	1,427	492	1,354	2,953	313	6,231
CVWMA Service Area	946,413	61,328	123,318	169,408	101,266	54,892	18,928	52,053	113,570	12,019	239,632

Note: Totals for the Town of Ashland are included in the County of Hanover totals

Source of component percentages: *Municipal Solid Waste in the United States*, Office of Solid Waste and Emergency Response, United States Environmental Protection Agency EPA530-R-02-001, June 2002

Table 15
Estimated MSW Tonnages by Component - 2020

Locality	2020 MSW (tons)	ONP (tons)	OCC (tons)	Other Paper (tons)	Plastics (tons)	Ferrous Metals (tons)	Non- Ferrous Metals (tons)	Glass (tons)	Yard Waste (tons)	Tires (tons)	Other (tons)
Charles City County	6,420.0	416	837	1,149	687	372	128	353	770	82	1,626
Chesterfield County	301,245.5	19,521	39,252	53,923	32,233	17,472	6,025	16,568	36,149	3,826	76,275
Goochland County	20,823.8	1,349	2,713	3,727	2,228	1,208	416	1,145	2,499	264	5,273
Hanover County	101,073.6	6,550	13,170	18,092	10,815	5,862	2,021	5,559	12,129	1,284	25,592
Henrico County	275,730.1	17,867	35,928	49,356	29,503	15,992	5,515	15,165	33,088	3,502	69,815
New Kent County	15,473.8	1,003	2,016	2,770	1,656	897	309	851	1,857	197	3,918
Powhatan County	29,713.0	1,925	3,872	5,319	3,179	1,723	594	1,634	3,566	377	7,523
Richmond City	156,055.0	10,112	20,334	27,934	16,698	9,051	3,121	8,583	18,727	1,982	39,513
Prince George County	32,099.9	2,080	4,183	5,746	3,435	1,862	642	1,765	3,852	408	8,128
Colonial Heights City	14,239.2	923	1,855	2,549	1,524	826	285	783	1,709	181	3,605
Hopewell City	17,613.8	1,141	2,295	3,153	1,885	1,022	352	969	2,114	224	4,460
Petersburg City	24,198.4	1,568	3,153	4,332	2,589	1,404	484	1,331	2,904	307	6,127
CVWMA Service Area	994,686	64,456	129,608	178,049	106,431	57,692	19,894	54,708	119,362	12,633	251,855

Note: Totals for the Town of Ashland are included in the County of Hanover totals

Source of component percentages: *Municipal Solid Waste in the United States*, Office of Solid Waste and Emergency Response, United States Environmental Protection Agency EPA530-R-02-001, June 2002

Table 16

Estimated MSW Tonnages by Component - 2025

Locality	2025 MSW (tons)	ONP (tons)	OCC (tons)	Other Paper (tons)	Plastics (tons)	Ferrous Metals (tons)	Non- Ferrous Metals (tons)	Glass (tons)	Yard Waste (tons)	Tires (tons)	Other (tons)
Charles City County	6,584.6	427	858	1,179	705	382	132	362	790	84	1,667
Chesterfield County	319,600.0	20,710	41,644	57,208	34,197	18,537	6,392	17,578	38,352	4,059	80,923
Goochland County	22,387.6	1,451	2,917	4,007	2,395	1,298	448	1,231	2,687	284	5,669
Hanover County	107,575.9	6,971	14,017	19,256	11,511	6,239	2,152	5,917	12,909	1,366	27,238
Henrico County	287,829.3	18,651	37,504	51,521	30,798	16,694	5,757	15,831	34,540	3,655	72,878
New Kent County	16,543.8	1,072	2,156	2,961	1,770	960	331	910	1,985	210	4,189
Powhatan County	32,099.9	2,080	4,183	5,746	3,435	1,862	642	1,765	3,852	408	8,128
Richmond City	156,055.0	10,112	20,334	27,934	16,698	9,051	3,121	8,583	18,727	1,982	39,513
Prince George County	33,252.2	2,155	4,333	5,952	3,558	1,929	665	1,829	3,990	422	8,419
Colonial Heights City	14,280.4	925	1,861	2,556	1,528	828	286	785	1,714	181	3,616
Hopewell City	17,531.5	1,136	2,284	3,138	1,876	1,017	351	964	2,104	223	4,439
Petersburg City	23,951.5	1,552	3,121	4,287	2,563	1,389	479	1,317	2,874	304	6,065
CVWMA Service Area	1,037,692	67,242	135,211	185,747	111,033	60,186	20,754	57,073	124,523	13,179	262,744

Note: Totals for the Town of Ashland are included in the County of Hanover totals

Source of component percentages: *Municipal Solid Waste in the United States*, Office of Solid Waste and Emergency Response, United States Environmental Protection Agency EPA530-R-02-001, June 2002