

1990 Continuing,  
Comprehensive and  
Coordinated (3-C)  
Transportation Data for  
Henrico County by Traffic  
Zone

Housing and Population  
Land Use by Acres

January 1992

**CONTINUING, COMPREHENSIVE AND COORDINATED (3-C)  
TRANSPORTATION STUDY DATA FOR HENRICO COUNTY:  
1990 ANNUAL UPDATE METHODOLOGY**

The Continuing, Comprehensive and Coordinated (3-C) Transportation Study data is divided into two parts: 1.) Population and Housing and 2.) Land Use in Acres. This report addresses only the first of the two parts.

Part 1 - Population and Housing

The Population and Housing data was calculated using a Population and Housing Model that was prepared by the Richmond Regional Planning District Commission. Total housing units in each traffic zone in the County was determined through the 1990 U.S. Census Data.

The proportion of single-family and multi-family units was calculated by comparing the County's record of multi-family housing units and subtracting from the Census' total housing unit figure for each traffic zone. Certificates of Occupancy (COs) then were added to each traffic zone to account for housing units occupied during 1990 following the Census survey. To avoid the likelihood of "double-counting" units, COs for April and May, 1990 were not included in the total.

Factors regarding Vacancy Rate and Average Household size then were derived and added to the model to obtain the 1990 population (as of December 31, 1990) for the County. The following describes the definitions of the data that were used and the methodology that was applied to obtain factors such as Vacancy Rate and Average Household Size.

**Housing Units:**

Single-Family Housing Units are detached units and mobile homes which either are owner or renter occupied. Yearly fluctuations in the number of mobile homes were assumed to be non-existent for the purpose of the transportation study. This assumption was made because mobile home owners obtain use permits for a period of two years. At the present time, there is no way of determining when they will be removed. A mobile home is recorded only if it will be an addition to an existing mobile home park subdivision or a deletion from an existing park.

Multi-Family Housing Units are attached units either owner or renter occupied. Multi-family units consist of apartments, residential townhouses for sale, condominiums, cooperatives and duplexes. The number of multi-family housing units was documented each month through a count of Certificates of Occupancy grouped by

traffic zone.

**Group Quarters:**

Examples of group quarters include nursing homes and dormitories. Plans of Development files were checked for any additional group quarter residences during 1990. A survey of existing and new group quarter residences was taken to determine the group quarter population as of December 31, 1990.

**Demolitions:**

Demolitions were determined from the Building Inspection reports for demolitions and fire damages on a monthly basis by traffic zone. The total number of demolitions for each traffic zone was subtracted either from single-family or multi-family units depending on the type of structure.

**Vacancy Rate:**

The 1990 vacancy rate for single-family housing units was derived from information supplied by Virginia Power from their Customer Accounting System. Vacancy status is created for an account when a meter is disconnected. The account retains the vacant status until a new tenant moves into the dwelling and a new account is established. Since this factor is applicable only for existing homes, it then was adjusted upward to account for new homes that do not have a "gap" in electric service. The single-family average vacancy rate in the County for 1990 is 2.0 percent.

The 1990 Vacancy Rate for multi-family units was based on a survey of 49 multi-family developments throughout the County. These vacancy rates then were averaged in order to obtain an average vacancy rate for multi-family units throughout the County. A multi-family vacancy rate of 10.6 percent was established for 1990.

**Average Household Size:**

The Average Household size is used in the model to calculate the population of each single and multi-family housing unit by traffic zone. The Average Household Size for the County was determined by the 1990 Census to be 2.4 persons per unit for occupied housing units.

**Summary:**

The factors described above are entered into the following formula to determine the total population for each traffic zone in the

County as of December 31, 1990.

$$(SF \text{ AdjHU} \times HHF) + (MF \text{ AdjHU} \times HHF) + GQp = \text{Total Population}$$

Where SF AdjHU (single-family adjusted housing units) equals single-family units multiplied by the single-family vacancy rate; MF AdjHU (multi-family adjusted housing units) equals multi-family units multiplied by the multi-family vacancy rate; HHF (household factor) equals average household size for occupied housing units, and; GQp equals group quarters population.

HENRICO COUNTY 1990 POPULATION AND HOUSING REPORT

1989 TRAFFIC ZONE	1990 TRAFFIC ZONE	TOTAL POP	S.F. POP	M.F. POP	TOTAL H.U.	S.F. H.U.	M.F. H.U.	GROUP QUARTER POP	TOTAL STUDENTS	COLLEGE STUDENTS	1990 TRAFFIC ZONE
1415 pt	1363	247	247	0	105	105	0	0	0	0	1363
1415 pt	1364	186	186	0	79	79	0	0	0	0	1364
1415 pt	1365	430	430	0	183	183	0	0	0	0	1365
1410, 1411 pt	1366	78	78	0	33	33	0	0	0	0	1366
1408,1411 pt	1367	2,851	1,703	1,148	1,259	724	535	0	435	0	1367
1409 pt.	1368	3,595	1,381	2,214	1,619	587	1,032	0	0	0	1368
1408 pt	1369	1,668	1,668	0	709	709	0	0	855	0	1369
1408 pt	1370	4,893	1,564	3,000	2,063	665	1,398	329	0	0	1370
1403 pt	1371	4,562	3,173	775	1,710	1,349	361	614	602	0	1371
1407	1372	1,542	924	618	681	393	288	0	243	0	1372
1406 pt	1373	5,209	1,740	3,469	2,357	740	1,617	0	3,147	0	1373
1406 pt	1374	4,046	3,681	365	1,735	1,565	170	0	0	0	1374
1411 pt	1375	1,232	494	738	554	210	344	0	0	0	1375
1412	1376	258	153	105	114	65	49	0	0	0	1376
1414 pt	1377	4,373	1,204	3,169	1,989	512	1,477	0	0	0	1377
1414 pt	1378	233	233	0	99	99	0	0	0	0	1378
1386 pt	1379	2,637	2,637	0	1,121	1,121	0	0	0	0	1379
1385, 1384 pt	1380	31	31	0	13	13	0	0	0	0	1380
1384	1381	508	508	0	216	216	0	0	0	0	1381
1383 pt	1382	662	489	0	208	208	0	173	628	0	1382
1383 pt	1383	3,110	1,625	1,485	1,383	691	692	0	0	0	1383
1382	1384	49	49	0	21	21	0	0	0	0	1384
1386 pt	1385	2,016	2,016	0	857	857	0	0	0	0	1385
1388, 1414 pt	1386	3,940	2,662	1,242	1,711	1,132	579	36	718	0	1386
1387	1387	6,229	397	5,832	2,887	169	2,718	0	2,061	0	1387
1379	1388	1,383	868	515	609	369	240	0	0	0	1388
1378	1389	5,143	564	4,579	2,374	240	2,134	0	0	0	1389
1390	1390	2,397	1,543	854	1,054	656	398	0	0	0	1390
1389	1391	1,291	1,188	103	553	505	48	0	0	0	1391
1413	1392	8,112	343	7,769	3,767	146	3,621	0	1,196	0	1392
1405 pt	1393	2,583	1,980	206	938	842	96	397	637	0	1393
1392	1394	5,610	3,726	1,792	2,419	1,584	835	92	2,714	0	1394
1405 pt	1395	3,541	1,127	2,414	1,604	479	1,125	0	0	0	1395
1393	1396	1,566	1,566	0	666	666	0	0	1,330	0	1396
1404	1397	4,696	2,860	1,573	1,949	1,216	733	263	780	0	1397
1403 pt	1398	1,277	734	543	565	312	253	0	0	0	1398
1402	1399	1,997	536	1,461	909	228	681	0	0	0	1399
1401	1400	4,305	3,241	1,064	1,874	1,378	496	0	1,938	0	1400
1399pt,1400pt	1401	1,442	1,442	0	613	613	0	0	0	0	1401
1399pt,1400pt	1402	153	153	0	65	65	0	0	0	0	1402
1398	1403	814	334	124	200	142	58	356	0	0	1403
1397	1404	2,979	2,486	493	1,287	1,057	230	0	283	0	1404
1396	1405	1,111	1,042	69	475	443	32	0	0	0	1405
1395	1406	2,752	2,752	0	1,170	1,170	0	0	569	0	1406
1394	1407	917	917	0	390	390	0	0	0	0	1407
1391	1408	1,745	1,524	0	648	648	0	221	0	0	1408
1375	1409	1,768	880	888	788	374	414	0	300	0	1409
1374	1410	3,502	3,307	195	1,497	1,406	91	0	0	0	1410
1373	1411	2,042	1,406	442	804	598	206	194	0	0	1411
1371	1412	193	193	0	82	82	0	0	0	0	1412
1372	1413	2,036	560	1,476	926	238	688	0	0	0	1413
1376	1414	1,334	1,124	210	576	478	98	0	507	0	1414
1377	1415	2,704	1,329	1,375	1,206	565	641	0	0	0	1415

HENRICO COUNTY 1990 POPULATION AND HOUSING REPORT

1989 TRAFFIC ZONE	1990 TRAFFIC ZONE	TOTAL POP	S.F. POP	M.F. POP	TOTAL H.U.	S.F. H.U.	M.F. H.U.	GROUP QUARTER POP	TOTAL STUDENTS	COLLEGE STUDENTS	1990 TRAFFIC ZONE
1370	1416	1,327	1,327	0	564	564	0	0	0	0	1416
1369	1417	2,149	2,093	56	916	890	26	0	0	0	1417
1368	1418	4,376	2,945	1,425	1,916	1,252	664	6	434	0	1418
1380	1419	367	172	195	164	73	91	0	522	0	1419
1380	1420	1,733	1,733	0	737	737	0	0	1,704	0	1420
1381	1421	396	219	0	93	93	0	177	0	0	1421
1365 pt	1422	2,521	2,521	0	1,072	1,072	0	0	0	0	1422
1362	1423	388	388	0	165	165	0	0	0	0	1423
1363 pt, 1361	1424	534	534	0	227	227	0	0	0	0	1424
1364 pt, 1360	1425	165	153	0	65	65	0	12	0	0	1425
1358 pt, 1359	1426	0	0	0	0	0	0	0	0	0	1426
1358 pt	1427	78	78	0	33	33	0	0	0	0	1427
1364 pt	1428	353	353	0	150	150	0	0	0	0	1428
1363 pt	1429	887	887	0	377	377	0	0	162	0	1429
1365 pt	1430	3,163	2,204	959	1,384	937	447	0	330	0	1430
1366	1431	459	459	0	195	195	0	0	1,383	0	1431
1367	1432	3,183	746	2,356	1,415	317	1,098	81	3,447	3,391	1432
1353	1433	2,317	2,136	0	908	908	0	181	0	0	1433
1352	1434	662	2	0	1	1	0	660	0	0	1434
1351	1435	2	2	0	1	1	0	0	0	0	1435
1354	1436	1,432	1,432	0	609	609	0	0	0	0	1436
1355	1437	68	68	0	29	29	0	0	0	0	1437
1357	1438	2,169	2,169	0	922	922	0	0	442	0	1438
1356	1439	626	626	0	266	266	0	0	0	0	1439
1349 pt	1440	976	976	0	415	415	0	0	0	0	1440
1348, 1349 pt	1441	689	689	0	293	293	0	0	81	0	1441
1347	1442	2,418	2	2,416	1,127	1	1,126	0	1,138	0	1442
1350	1443	2,827	917	1,910	1,280	390	890	0	0	0	1443
1346	1444	533	503	0	214	214	0	30	0	0	1444
1345	1445	1,828	764	1,064	821	325	496	0	641	0	1445
1344	1446	1,274	875	399	558	372	186	0	0	0	1446
1343	1447	308	308	0	131	131	0	0	0	0	1447
1342	1448	1,573	1,573	0	669	669	0	0	360	0	1448
1341	1449	1,661	1,661	0	706	706	0	0	0	0	1449
1339	1450	1,111	442	669	500	188	312	0	0	0	1450
1340	1451	5,063	3,933	981	2,129	1,672	457	149	459	0	1451
1335 pt	1452	572	572	0	243	243	0	0	0	0	1452
1336	1453	3,152	612	2,540	1,444	260	1,184	0	0	0	1453
1338	1454	2,046	990	1,056	913	421	492	0	314	0	1454
1337	1455	3,459	2,493	966	1,510	1,060	450	0	0	0	1455
1330	1456	2,034	2,034	0	865	865	0	0	0	0	1456
1327 pt., 1329	1457	1,710	1,244	466	746	529	217	0	1,672	0	1457
1331	1458	3,116	1,644	1,472	1,385	699	686	0	682	0	1458
1332	1459	1,047	1,047	0	445	445	0	0	1,082	0	1459
1335 pt	1460	1,240	781	288	466	332	134	171	599	0	1460
1334	1461	0	0	0	0	0	0	0	0	0	1461
1312	1462	3,452	2,677	760	1,492	1,138	354	15	452	0	1462
1333	1463	984	619	365	433	263	170	0	0	0	1463
1313	1464	59	59	0	25	25	0	0	0	0	1464
1310	1465	266	266	0	113	113	0	0	0	0	1465
1311	1466	1,943	1,145	798	859	487	372	0	0	0	1466
1300	1467	2,386	2,171	215	1,023	923	100	0	0	0	1467
1309	1468	12	12	0	5	5	0	0	0	0	1468

HENRICO COUNTY 1990 POPULATION AND HOUSING REPORT

1989 TRAFFIC ZONE	1990 TRAFFIC ZONE	TOTAL POP	S.F. POP	M.F. POP	TOTAL H.U.	S.F. H.U.	M.F. H.U.	GROUP QUARTER POP	TOTAL STUDENTS	COLLEGE STUDENTS	1990 TRAFFIC ZONE
1301	1469	376	376	0	160	160	0	0	2,925	0	1469
1302	1470	769	769	0	327	327	0	0	0	0	1470
1299	1471	122	122	0	52	52	0	0	0	0	1471
1298	1472	412	412	0	175	175	0	0	0	0	1472
1303 pt	1473	941	941	0	400	400	0	0	0	0	1473
1303 pt	1474	720	720	0	306	306	0	0	789	0	1474
1307 pt	1475	586	586	0	249	249	0	0	0	0	1475
1307 pt	1476	861	861	0	366	366	0	0	0	0	1476
1308 pt	1477	212	212	0	90	90	0	0	0	0	1477
1308 pt	1478	278	278	0	118	118	0	0	0	0	1478
1316	1479	19	19	0	8	8	0	0	0	0	1479
1317 pt, 1318	1480	12	12	0	5	5	0	0	0	0	1480
1318 pt	1481	12	12	0	5	5	0	0	0	0	1481
1315	1482	9	9	0	4	4	0	0	0	0	1482
1314	1483	891	386	491	393	164	229	14	0	0	1483
1328	1484	1,227	884	343	536	376	160	0	0	0	1484
1327 pt	1485	788	715	73	338	304	34	0	257	0	1485
1326	1486	1,235	1,235	0	525	525	0	0	541	0	1486
1320	1487	452	452	0	192	192	0	0	0	0	1487
1324	1488	49	49	0	21	21	0	0	0	0	1488
1325	1489	1,000	1,000	0	425	425	0	0	0	0	1489
1323 pt	1490	3,243	1,936	1,307	1,432	823	609	0	277	0	1490
1323 pt	1491	167	167	0	71	71	0	0	0	0	1491
1322pt,1323pt	1492	1,009	1,009	0	429	429	0	0	0	0	1492
1322pt,1323pt	1493	56	56	0	24	24	0	0	0	0	1493
1321	1494	295	158	137	131	67	64	0	0	0	1494
1417	1495	673	673	0	286	286	0	0	0	0	1495
1319	1496	66	66	0	28	28	0	0	0	0	1496
1318 pt	1497	40	40	0	17	17	0	0	0	0	1497
1305 pt, 1318	1498	94	94	0	40	40	0	0	0	0	1498
1418 pt	1499	289	289	0	123	123	0	0	0	0	1499
1418 pt	1500	630	630	0	268	268	0	0	0	0	1500
1305 pt	1501	132	132	0	56	56	0	0	0	0	1501
1306 pt	1502	360	360	0	153	153	0	0	0	0	1502
1306 pt	1503	240	240	0	102	102	0	0	0	0	1503
1305 pt	1504	120	120	0	51	51	0	0	0	0	1504
1304 pt	1505	61	61	0	26	26	0	0	0	0	1505
1304 pt	1506	158	158	0	67	67	0	0	0	0	1506
1420 pt	1507	21	21	0	9	9	0	0	0	0	1507
1420 pt	1508	71	71	0	30	30	0	0	0	0	1508
1419	1509	198	198	0	84	84	0	0	0	0	1509
1416	1510	1,329	1,329	0	565	565	0	0	0	0	1510
		221,287	141,106	76,010	95,420	59,994	35,426	4,171	39,636	3,391	

**1990 3-C REPORT:  
LAND USE BY ACRES METHODOLOGY**

The 1990 3-C report provides information on population, housing and land use by acres in Henrico County. A previous document described the methodology used for calculating 1990 population and housing information. This document describes the methodology for calculating land use by acres, which generally includes the following steps:

1. The County's total acreage is divided into traffic zones.
2. The acreage for each traffic zone is then further divided into its respective land uses.
3. There are 10 categories of land use included in the 3-C Report. These include single family residential, multi-family residential, group quarter residential, commercial, industrial, public/semi-public, water, vacant and miscellaneous.

The acreage stated for each traffic zone and each land use category usually is reflective of the previous year's acreage. New development which occurs during the year, indicated by the record of Occupancy Certificates, is added to the previous year's base. For 1990, however, with the creation of 25 additional traffic zones, plus many more which were split or had their boundaries changed, the land area for many traffic zones changed. Because of these changes, and the 1990 Census Data becoming available, it was determined that a new base should be created for 1990 Land Use by Acres data.

The creation of new traffic zones, boundary changes and other concerns warranted a measuring of the total acres in each traffic zone. The entire County was planimetered, as well as each and every traffic zone. The result of the planimetering yielded a higher figure than the total number of acres used in the past (there is a total of 156,200.6 acres in the County). Two allowances were made for this, one being the fact that many of the traffic zone boundaries do not follow land, but fall in the middle of the James River. The water in these traffic zones was then planimetered and subtracted out of the total. This brought the total down to within 707.5 acres of the 156,200.6 figure (less than one-half of one percent variance). The second allowance made was to divide this difference among the 63 splits in traffic zones. The difference of 11.23 acres (707.5 divided by 63) was subtracted from each of those 63 traffic zones.

After the total acreage for each traffic zone was determined, the acreage by land use category was then calculated for each traffic zone. The primary source that was used to determine land use by acres was the 400-scale existing land use maps. Information regarding current land use for each parcel through April 1, 1990, was prepared using the County's property identification maps (P.I. maps) as a base.

Several methods were used to determine the 1990 acreage for each land use category for a traffic zone. The acreage was used in those instances when the P.I. maps actually stated the acreage by parcel. The following will show the methods that were used when the acreage was not stated on the P.I. maps:

Single Family Residential:



-recorded subdivisions: If an entire subdivision was developed, the ACRES.dbf (file name of a document that lists all the recorded subdivisions between 1959 and the present) was used to obtain the total acres of the subdivision. If only part of a subdivision was developed, the number of lots were counted and then multiplied by the average lot size for that subdivision to get the total acres developed.

-acreage parcels (lots not in a recorded subdivision): The number of lots with homes on them was counted. Then the zoning of the lots was identified. The minimum lot size was used for each zoning category, which was multiplied by the number of lots within that traffic zone to get the total single family acreage for acreage parcels. This total was then added to the single family residential total to get the total single family residential acreage for that traffic zone.

#### Multi-Family Residential:

The Multi-Family Directory was used as a source to determine the total acres for each completed condominium and apartment complex. In those instances where the project was only partially completed, only the acres completed through 1990 were added, using information from Certificates of Occupancy.

#### Group Quarters Residential:

If the acreage was not stated on the P.I. maps, an overlay grid prepared for the purpose of identifying number of acres, was used to calculate the total acres for this land use category.

#### Commercial:

The Shopping Center Directory was used as a source to determine the total acres for completed shopping centers. When a commercial parcel was not part of a shopping center, the acreage stated on the map was used. The grid was used if no acreage was stated on the P.I. maps. The commercial category in the 3-C Report includes both office and retail use.

#### Industrial:

If the acreage was not stated on the P.I. maps, the grid was used to figure the total acres for this land use category.

#### Public/Semi-Public:

If the acreage was not stated on the P.I. maps, the grid was used to figure the total acres for this land use category. Publications put out by other agencies were also used when available.

#### Miscellaneous (roads, easements, etc.) and Water:

The acreage for these two categories was determined by using the grid, to the extent possible. It was very hard to accurately determine these totals, so, wherever possible, last year's totals were used.

Vacant:

The acreage for the vacant category in each traffic zone was determined by subtracting all the other categories from the traffic zone's total acreage. The remainder was the vacant acreage.

Since the existing Land Use Maps show the projects that were completed through April 1, 1990, the total Land Use by Acres through December, 1990, required adding in any new uses which occurred after April 1. This was done by adding acreage to the appropriate land use category as land develops, and/or subtracting that acreage from its previous use in the event of redevelopment or demolition.

As a result of the methodology and efforts taken to create a new base for the Land Use by Acres portion of the 1990 3-C Report, several significant changes occurred with respect to the 1989 data. These changes can be highlighted briefly as follows:

1. The land area of each traffic zone has been recalculated, so even for those traffic zones that had the same boundaries in 1989 and 1990, the number of acres will be different. The availability of an electronic planimeter for this purpose helps ensure the accuracy of 1990 acreage figures for each traffic zone.
2. A reduction in the number of developed acres for most land use categories has occurred. The availability of existing land use maps, which were prepared in conjunction with the 1990 Census, provided a source of fairly accurate information concerning where and to what extent development existed as a "snapshot" on April 1, 1990.
3. An increase in the amount of vacant acreage throughout the County has occurred. This is a consequence of the recalculation both of total acres and the amount of existing development since vacant land is the remainder when all other uses are subtracted from the total acres in each traffic zone.

In conclusion, the methodology to calculate Land Use by Acres for the 1990 3-C Report gives a much different impression than what would be anticipated from the typical approach for updating these data. However, the effort to create a new base for 1990 has been planned for several years to coincide with the decennial Census. During this effort, it became apparent that certain errors in the old data base had accumulated over the years, and that previous methods for an annual update of the data may have resulted in some double-counting of commercial development. Therefore, while the results appear atypical as a trends analysis, there is much more confidence in the accuracy of the 1990 data to build upon for future years.

## HENRICO COUNTY 1990 LAND USE BY ACRES

TZ89	TZ90	S.F. RES.	M.F. RES.	G.O. RES	INDUST RIAL	MISC	COMM- ERCIAL	PUB & SEMI-	WATER	VAC- ANT	TOTAL ACRES	TZ90
1415 pt	1363	149.6	0.0	0.0	0.0	20.7	1.2	115.9	12.0	2,748.4	3,047.8	1363
1415 pt	1364	192.6	0.0	0.0	7.5	4.8	6.0	61.1	8.0	1,463.6	1,743.6	1364
1415 pt	1365	222.8	0.0	0.0	0.0	20.0	11.3	0.0	6.0	1,364.3	1,624.4	1365
1410, 1411 pt	1366	43.0	0.0	0.0	0.9	39.4	28.5	0.0	0.8	504.9	617.5	1366
1408, 1411 pt	1367	322.0	38.5	0.0	0.0	100.0	4.6	30.4	0.4	786.2	1,282.1	1367
1409 pt.	1368	294.2	149.4	0.0	2.4	31.7	30.6	7.8	6.0	946.0	1,468.1	1368
1408 pt	1369	261.5	14.4	0.0	0.0	51.5	0.0	87.1	0.2	170.2	584.9	1369
1408 pt	1370	225.8	103.2	18.4	0.0	80.9	27.1	8.9	5.0	210.2	679.5	1370
1403 pt	1371	464.4	16.9	43.1	0.0	70.0	25.6	28.4	10.0	277.9	936.3	1371
1407	1372	227.4	44.8	0.0	0.0	45.7	0.0	75.8	0.6	402.6	796.9	1372
1406 pt	1373	577.6	155.6	0.0	0.0	120.0	3.0	120.0	40.0	61.3	1,077.5	1373
1406 pt	1374	461.4	31.4	0.0	0.0	100.0	12.4	175.8	20.0	497.7	1,298.7	1374
1411 pt	1375	90.9	32.9	0.0	8.5	38.7	1.5	5.9	4.6	577.3	760.3	1375
1412	1376	36.9	8.5	0.0	75.5	29.4	150.8	10.7	15.0	237.1	563.9	1376
1414 pt	1377	293.8	110.9	0.0	0.0	60.6	344.9	14.0	20.0	1,047.6	1,891.8	1377
1414 pt	1378	36.5	0.0	0.0	0.0	30.1	30.1	10.4	30.0	365.3	502.4	1378
1386 pt	1379	309.2	0.0	0.0	6.6	70.0	0.0	29.7	10.5	536.8	962.8	1379
1385, 1384 pt	1380	6.0	0.0	0.0	71.0	100.0	0.0	15.0	4.0	201.6	397.6	1380
1384	1381	277.3	0.0	0.0	0.0	156.5	0.0	0.0	6.0	1,241.1	1,680.9	1381
1383 pt	1382	159.7	0.0	13.2	0.0	94.0	6.1	184.4	2.2	508.7	968.3	1382
1383 pt	1383	431.0	31.2	0.0	0.0	57.2	3.7	19.6	5.0	389.7	937.4	1383
1382	1384	10.2	0.0	0.0	2.0	9.0	28.8	0.0	5.5	136.5	192.0	1384
1386 pt	1385	287.4	0.0	0.0	0.0	80.0	0.0	53.6	2.0	676.3	1,099.3	1385
1388, 1414 pt	1386	397.8	51.7	32.5	0.0	101.6	58.2	39.8	8.5	144.5	834.6	1386
1387	1387	127.7	176.4	0.0	0.0	77.9	39.1	111.0	14.0	362.8	908.9	1387
1379	1388	126.5	16.6	0.0	10.1	65.0	139.7	70.3	3.0	112.8	544.0	1388
1378	1389	159.5	135.9	0.0	4.9	20.0	102.2	15.0	0.0	153.4	590.9	1389
1390	1390	306.5	31.3	0.0	49.4	100.5	226.5	28.1	0.0	272.4	1,014.7	1390
1389	1391	123.7	4.3	0.0	0.0	75.2	12.5	9.6	0.0	89.6	314.9	1391
1413	1392	30.1	285.3	0.0	0.0	27.9	104.1	59.9	0.6	164.6	672.5	1392
1405 pt	1393	310.7	6.9	19.0	0.0	74.3	3.7	34.5	0.5	40.1	489.7	1393
1392	1394	672.5	63.1	8.2	0.0	132.4	61.1	121.3	5.5	71.0	1,135.1	1394
1405 pt	1395	257.4	78.5	0.0	0.0	52.0	93.2	21.5	0.5	69.4	572.5	1395
1393	1396	178.7	0.0	0.0	1.2	35.8	12.3	36.7	0.0	64.5	329.2	1396
1404	1397	302.1	33.8	21.7	0.0	47.2	77.4	42.6	5.5	209.5	739.8	1397
1403 pt	1398	160.7	17.1	0.0	0.0	60.7	29.2	80.1	16.0	17.7	381.5	1398
1402	1399	175.2	92.9	0.0	0.8	17.2	8.3	14.1	10.0	382.9	701.4	1399
1401	1400	674.1	36.2	0.0	0.0	101.1	10.1	118.4	0.0	226.8	1,166.7	1400
1399pt, 1400pt	1401	563.2	0.0	0.0	0.0	188.8	0.0	493.0	505.0	1,454.5	3,204.5	1401
1399pt, 1400pt	1402	58.5	0.0	0.0	0.0	62.9	0.0	124.6	192.0	167.5	605.5	1402
1398	1403	100.0	10.1	18.0	0.0	87.8	12.7	2.5	85.9	139.7	456.7	1403
1397	1404	683.0	47.9	0.0	0.0	124.1	0.0	78.9	16.2	191.7	1,141.8	1404
1396	1405	168.0	2.3	0.0	0.0	30.4	8.0	3.6	0.0	89.1	301.4	1405
1395	1406	545.2	0.0	0.0	0.0	89.1	6.9	19.4	0.0	44.5	705.1	1406
1394	1407	96.3	0.0	0.0	0.0	15.0	0.0	3.2	3.0	37.2	154.7	1407
1391	1408	158.5	0.0	9.4	7.9	25.0	51.9	21.2	0.0	71.1	345.0	1408
1375	1409	85.0	46.9	0.0	16.7	24.2	85.6	10.5	0.0	88.9	357.8	1409
1374	1410	378.1	6.3	0.0	0.0	90.3	30.4	45.6	0.0	58.5	609.2	1410
1373	1411	101.3	19.2	4.0	0.0	40.2	89.2	15.8	0.0	42.1	311.8	1411
1371	1412	34.4	0.0	0.0	88.2	168.8	155.0	5.4	4.0	270.5	726.3	1412
1372	1413	55.0	70.5	0.0	9.6	41.6	49.3	2.7	0.0	41.4	270.1	1413
1376	1414	121.4	7.0	0.0	0.0	69.2	126.1	22.7	0.8	58.0	405.2	1414
1377	1415	139.8	48.1	0.0	0.0	90.0	57.8	20.4	6.0	218.6	580.7	1415
1370	1416	208.3	0.0	0.0	61.0	118.7	27.8	0.0	2.0	133.5	551.3	1416
1369	1417	183.5	2.1	0.0	0.0	55.0	0.0	11.6	0.0	10.0	262.2	1417

## HENRICO COUNTY 1990 LAND USE BY ACRES

TZ89	TZ90	S.F. RES.	M.F. RES.	G.O. RES	INDUST RIAL	MISC	COMM- ERCIAL	PUB & SEMI-	WATER	VAC- ANT	TOTAL ACRES	TZ90
1368	1418	221.6	44.5	0.0	0.0	58.3	4.3	13.9	1.1	19.7	363.4	1418
1380	1419	82.1	4.8	0.0	98.2	56.2	39.0	21.5	0.8	101.9	404.5	1419
1380	1420	222.2	0.0	0.0	45.4	56.1	23.8	66.8	7.0	228.2	649.5	1420
1381	1421	36.9	0.0	5.9	27.6	20.0	4.4	0.0	0.0	117.1	211.9	1421
1365 pt	1422	493.6	0.0	0.0	13.0	107.7	15.3	11.5	5.0	421.4	1,067.5	1422
1362	1423	104.7	0.0	0.0	0.0	50.0	1.5	8.5	0.3	346.5	511.5	1423
1363 pt, 1361	1424	225.3	0.0	0.0	0.0	62.0	96.3	6.7	6.0	1,373.2	1,769.5	1424
1364 pt, 1360	1425	32.2	0.0	10.0	17.2	55.0	10.0	0.0	4.0	467.0	595.4	1425
1358 pt, 1359	1426	0.0	0.0	0.0	0.0	70.0	22.0	159.0	10.0	497.0	758.0	1426
1358 pt	1427	49.5	0.0	0.0	0.0	60.0	34.9	0.0	5.0	796.7	946.1	1427
1364 pt	1428	60.3	0.0	0.0	4.0	53.7	24.3	0.0	1.7	314.1	458.1	1428
1363 pt	1429	149.8	0.0	0.0	0.0	90.0	29.8	16.2	0.0	61.4	347.2	1429
1365 pt	1430	345.5	37.0	0.0	0.6	107.7	44.0	150.6	3.0	594.2	1,282.6	1430
1366	1431	99.5	0.0	0.0	18.5	5.0	13.6	33.5	3.0	102.5	275.6	1431
1367	1432	152.7	77.4	3.3	169.3	91.7	28.2	464.4	10.0	162.5	1,159.5	1432
1353	1433	202.6	1.9	4.9	0.0	90.0	35.8	101.9	5.0	209.5	651.6	1433
1352	1434	0.0	0.0	20.2	2.4	10.0	52.9	21.2	0.0	3.5	110.2	1434
1351	1435	0.3	0.0	0.0	12.3	49.0	32.4	0.0	0.0	6.3	100.3	1435
1354	1436	166.5	0.0	0.0	0.0	150.0	25.2	5.0	4.0	252.5	603.2	1436
1355	1437	21.8	0.0	0.0	0.0	15.0	18.5	0.0	0.0	81.8	137.1	1437
1357	1438	349.3	0.0	0.0	0.0	98.8	8.1	11.8	0.0	186.2	654.2	1438
1356	1439	129.1	0.0	0.0	0.0	50.0	1.0	7.5	0.0	26.1	213.7	1439
1349 pt	1440	157.2	0.0	0.0	0.0	14.3	3.6	91.3	7.0	103.1	376.5	1440
1348, 1349 pt	1441	386.5	0.0	0.0	0.0	58.3	8.2	50.5	10.0	589.0	1,102.5	1441
1347	1442	4.0	76.9	0.0	14.9	12.4	20.9	37.6	0.0	232.6	399.3	1442
1350	1443	127.1	65.8	0.0	0.0	74.9	12.0	6.4	0.0	304.0	590.2	1443
1346	1444	107.3	0.0	32.1	0.0	15.0	5.9	8.2	0.0	172.5	341.0	1444
1345	1445	56.5	50.9	0.0	0.0	26.9	7.1	178.0	0.0	100.6	420.0	1445
1344	1446	64.7	14.8	0.0	22.0	60.1	16.5	1.7	0.0	27.4	207.2	1446
1343	1447	42.8	0.0	0.0	87.6	31.6	1.0	244.1	0.0	211.8	618.9	1447
1342	1448	266.6	0.0	0.0	29.3	68.9	47.6	15.4	15.0	910.5	1,353.3	1448
1341	1449	168.0	0.0	0.0	63.5	82.2	65.2	21.3	0.0	193.3	593.5	1449
1339	1450	78.0	20.2	0.0	0.0	35.4	12.0	2.4	0.0	25.3	173.3	1450
1340	1451	502.7	36.3	5.7	14.6	127.1	32.6	187.4	3.8	384.5	1,294.7	1451
1335 pt	1452	117.3	0.0	0.0	13.4	31.3	11.6	74.6	0.0	478.3	726.5	1452
1336	1453	106.5	85.6	0.0	0.0	24.8	31.2	10.2	0.0	253.6	511.9	1453
1338	1454	206.6	35.6	0.0	5.3	69.4	8.8	17.3	30.0	2,107.9	2,480.9	1454
1337	1455	641.0	21.1	0.0	0.0	136.7	23.4	282.9	35.0	1,711.1	2,851.2	1455
1330	1456	200.5	0.0	0.0	0.0	55.1	8.3	4.0	0.0	45.3	313.2	1456
1327 pt., 1329	1457	236.8	18.9	0.0	71.7	127.8	35.1	44.3	0.0	191.5	726.1	1457
1331	1458	213.4	67.7	0.0	0.0	76.5	17.3	38.1	0.0	302.8	715.8	1458
1332	1459	151.0	0.0	0.0	0.0	53.1	54.1	52.3	32.4	252.3	595.2	1459
1335 pt	1460	177.3	14.8	1.0	10.6	73.2	36.4	107.0	0.0	115.6	535.9	1460
1334	1461	0.0	0.0	0.0	0.0	26.0	0.0	15.0	5.2	154.0	200.2	1461
1312	1462	345.9	24.6	0.0	7.0	70.6	27.6	11.0	3.7	289.7	780.1	1462
1333	1463	92.8	11.5	0.0	0.0	52.6	66.2	2.0	4.5	115.7	345.3	1463
1313	1464	25.9	0.0	0.0	205.3	44.8	49.9	4.0	0.0	223.1	553.0	1464
1310	1465	25.1	0.0	0.0	208.9	60.0	5.0	56.1	10.3	518.1	883.5	1465
1311	1466	137.7	30.4	0.0	4.6	33.4	1.5	10.5	0.0	108.8	326.9	1466
1300	1467	360.6	11.1	0.0	65.0	100.0	5.5	29.8	4.4	928.5	1,504.9	1467
1309	1468	7.6	0.0	0.0	191.7	85.4	1.0	11.4	30.0	535.4	862.5	1468
1301	1469	111.2	0.0	0.0	0.0	52.3	8.3	99.4	14.0	988.6	1,273.8	1469
1302	1470	300.6	0.0	0.0	0.0	79.7	1.4	7.1	1.1	677.8	1,067.7	1470
1299	1471	49.4	0.0	0.0	72.3	20.0	0.0	0.0	25.0	862.6	1,029.3	1471
1298	1472	348.6	0.0	0.0	0.0	36.7	0.0	2.7	168.6	2,199.1	2,755.7	1472

HENRICO COUNTY 1990 LAND USE BY ACRES

TZ89	TZ90	S.F. RES.	M.F. RES.	G.Q. RES	INDUST RIAL	MISC	COMM- ERCIAL	PUB & SEMI-	WATER	VAC- ANT	TOTAL ACRES	TZ90
1303 pt	1473	352.7	0.0	0.0	0.0	120.2	13.5	3.7	529.6	5,086.0	6,105.7	1473
1303 pt	1474	329.7	0.0	0.0	0.0	59.2	2.8	44.7	100.0	2,074.1	2,610.5	1474
1307 pt	1475	245.8	0.0	0.0	0.0	40.0	7.4	10.0	1.7	1,468.0	1,772.9	1475
1307 pt	1476	478.4	0.0	0.0	0.0	109.8	9.0	403.7	4.0	1,082.3	2,087.2	1476
1308 pt	1477	122.8	0.0	0.0	0.0	52.5	1.4	21.2	2.0	754.9	954.8	1477
1308 pt	1478	94.0	0.0	0.0	102.9	52.6	11.0	1.8	0.0	1,369.0	1,631.3	1478
1316	1479	6.0	0.0	0.0	49.7	29.1	0.0	1.3	1.0	270.9	358.0	1479
1317 pt, 1318	1480	3.6	0.0	0.0	0.0	29.8	0.6	5.0	2.0	279.8	320.8	1480
1318 pt	1481	4.0	0.0	0.0	0.0	30.0	0.0	22.8	0.0	378.9	435.7	1481
1315	1482	0.0	0.0	0.0	53.8	30.0	7.6	2,151.7	0.0	30.0	2,273.1	1482
1314	1483	79.5	17.6	0.0	107.3	52.7	37.9	10.5	0.0	76.7	382.2	1483
1328	1484	165.8	11.1	0.0	237.9	65.4	44.5	22.1	65.0	249.4	861.2	1484
1327 pt	1485	129.3	0.0	0.0	0.0	39.5	17.4	15.0	0.0	85.2	286.4	1485
1326	1486	218.8	0.0	0.0	0.0	11.3	7.5	23.0	0.0	64.9	325.5	1486
1320	1487	109.5	0.0	0.0	0.0	85.0	0.4	135.0	0.0	862.8	1,192.7	1487
1324	1488	24.3	0.0	0.0	3.7	32.0	3.5	2.5	0.0	275.4	341.4	1488
1325	1489	107.1	0.0	0.0	0.0	49.5	8.3	1.0	0.0	61.3	227.2	1489
1323 pt	1490	375.9	64.2	0.0	8.8	95.7	9.0	131.2	1.0	1,140.3	1,826.1	1490
1323 pt	1491	70.0	0.0	0.0	0.0	30.0	0.3	0.0	15.0	676.4	791.7	1491
1322pt,1323pt	1492	342.5	0.0	0.0	0.0	40.0	0.0	15.2	50.0	2,701.5	3,149.2	1492
1322pt,1323pt	1493	25.1	0.0	0.0	0.0	52.0	0.0	0.0	3.0	661.1	741.2	1493
1321	1494	37.2	9.7	0.0	5.6	30.3	0.0	1.5	10.0	630.6	724.9	1494
1417	1495	353.3	0.0	0.0	0.0	97.7	5.8	117.4	3.5	3,444.4	4,022.1	1495
1319	1496	37.0	0.0	0.0	0.0	40.7	0.0	54.8	2.0	728.1	862.6	1496
1318 pt	1497	19.0	0.0	0.0	0.0	20.0	0.0	72.7	2.0	278.3	392.0	1497
1305 pt, 1318	1498	21.0	0.0	0.0	0.0	20.0	0.0	120.0	4.0	437.7	602.7	1498
1418 pt	1499	284.2	0.0	0.0	0.0	33.1	1.5	8.3	15.0	2,307.0	2,649.1	1499
1418 pt	1500	418.9	0.0	0.0	0.0	67.3	1.0	4.0	33.7	3,309.9	3,834.8	1500
1305 pt	1501	54.1	0.0	0.0	0.0	15.0	0.0	0.0	0.0	853.2	922.3	1501
1306 pt	1502	187.8	0.0	0.0	0.0	28.9	0.0	0.0	0.0	289.3	506.0	1502
1306 pt	1503	161.5	0.0	0.0	0.0	40.0	0.0	0.0	0.0	1,272.1	1,473.6	1503
1305 pt	1504	55.0	0.0	0.0	0.0	15.0	0.0	2.1	0.0	956.2	1,028.3	1504
1304 pt	1505	34.0	0.0	0.0	0.0	63.3	0.0	0.0	100.0	756.4	953.7	1505
1304 pt	1506	52.0	0.0	0.0	0.0	31.2	25.6	179.0	478.1	2,480.0	3,245.9	1506
1420 pt	1507	34.0	0.0	0.0	19.0	39.3	0.0	0.0	1,248.9	3,416.0	4,757.2	1507
1420 pt	1508	51.7	0.0	0.0	0.0	39.4	1.3	0.0	30.0	3,025.5	3,147.9	1508
1419	1509	185.1	0.0	0.0	0.0	100.4	2.3	30.0	11.2	4,879.3	5,208.3	1509
1416	1510	775.4	0.0	0.0	5.0	97.7	6.0	7.6	70.0	3,952.4	4,914.1	1510
		28,072.6	2,882.5	270.6	2,514.1	8,928.4	3,810.6	9,181.3	4,341.4	96,199.1	156,200.6	