

Greater Hayden Run Village Traffic Data Collection
Summary of Results
April 13, 2006

Traffic volume and speed data was collected at eight locations throughout the Greater Hayden Run Village area in 2005 and 2006. Data was collected in four locations on Davidson Road, two locations on Wallington Drive, and two locations on Taylor Lane Avenue.

The first counts were taken on Davidson Road in April/May 2005 shortly after the Avery Road/Hayden Run Road intersection was closed for reconstruction by the Franklin County Engineer's Office; these counts are summarized in Figure 1. The second counts were taken on Davidson Road in May 2005 after portable/changeable message signs were erected on Davidson Road to alert motorists of the speed zone; these counts are summarized in Figure 2. The purpose of the second count was to determine what effect, if any, the large message boards have on driver behavior. The final counts were taken on Davidson Road in April 2006 after the Avery Road/Hayden Run Road intersection was re-opened; these counts are summarized in Figure 3.

Counts were taken during construction on Wallington Drive and Taylor Lane Avenue in August/September 2005 at the request of the Greater Hayden Run Village Task Force; these counts are summarized in Figures 4 and 6, respectively. Post-construction counts were taken on Wallington Drive and Taylor Lane Avenue in March 2006; these counts are summarized in Figures 5 and 7, respectively.

All counts were conducted when school was in session.

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Figure 1 - Davidson Road

Avery/Hayden Run CLOSED and *before* changeable message signs were erected
 Dates of Data Collection: April 29, 2005 – May 5, 2005

	Location 1 (Leppert Rd. – Brixshire Dr.)	Location 2 (Brixston Ct. – Brixston Dr.)	Location 3 (Leybourne – Stonehill)	Location 4 (Wallington - Drayton)
85 th %ile speed	30 mph	30 mph	30 mph	31 mph
10 mph pace	21 – 30 mph	21 – 30 mph	21 – 30 mph	21 – 30 mph
% In pace	48.4%	88.1%	78.4 %	74.6%
% > 30 mph	12%	7.7%	14.8%	16.1%
Mean Speed	20 mph	26 mph	27 mph	26 mph
ADT	5360 vpd	5590 vpd	5240 vpd	5805 vpd

Average 85th %ile speed over length of Davidson Road (Leppert – Avery) = 30.3 mph

Figure 2 - Davidson Road

Avery/Hayden Run CLOSED and *after* changeable message signs were erected
 Dates of Data Collection: May 11, 2005 – May 17, 2005

	Location 1 (Leppert Rd. – Brixshire Dr.)	Location 2 (Brixston Ct. – Brixston Dr.)	Location 3 (Leybourne – Stonehill)	Location 4 (Wallington - Drayton)
85 th %ile speed	29 mph	29 mph	30 mph	30 mph
10 mph pace	21 – 30 mph	21 – 30 mph	21 – 30 mph	21 – 30 mph
% In pace	86.5%	91.7%	86.4 %	87.0%
% > 30 mph	6.3%	3.3%	6.6%	8.6%
Mean Speed	25 mph	25 mph	25 mph	26 mph
ADT	5585 vpd	5720 vpd	6180 vpd	6825 vpd

Average 85th %ile speed over length of Davidson Road (Leppert – Avery) = 29.5 mph

Figure 3 - Davidson Road

Avery/Hayden Run OPEN
 Dates of Data Collection: April 5, 2006 – April 7, 2006

	Location 1 (Leppert Rd. – Brixshire Dr.)	Location 2 (Brixston Ct. – Brixston Dr.)	Location 3 (Leybourne – Stonehill)	Location 4 (Wallington - Drayton)
85 th %ile speed	30 mph	30 mph	32 mph	32 mph
10 mph pace	21 – 30 mph	21 – 30 mph	21 – 30 mph	21 – 30 mph
% In pace	81.5%	86.9%	71.5%	76.9%
% > 30 mph	14%	9.8%	20.2%	19.7%
Mean Speed	27 mph	27 mph	27 mph	28 mph
ADT	2660 vpd	2880 vpd	3310 vpd	3920 vpd

Average 85th %ile speed over length of Davidson Road (Leppert – Avery) = 31.0 mph

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Figure 4 - Wallington Drive

Avery/Hayden Run CLOSED

Dates of Data Collection: August 25, 2005 – September 7, 2005

	Location 1 (Cee – Drayton)	Location 2 (Carina – Burwash)
85 th %ile speed	28 mph	30 mph
10 mph pace	21 – 30 mph	21 – 30 mph
% In pace	70.7%	75.9%
% > 30 mph	3.7%	9.4%
Mean Speed	22 mph	25 mph
ADT	370 vpd	630 vpd

Average 85th %ile speed over length of Wallington Drive (Avery – Davidson) = 29.0 mph

Figure 5 - Wallington Drive

Avery/Hayden Run OPEN

Dates of Data Collection: March 27, 2006 – March 30, 2006

	Location 1 (Cee – Drayton)	Location 2 (Carina – Burwash)
85 th %ile speed	30 mph	30 mph
10 mph pace	21 – 30 mph	21 – 30 mph
% In pace	80.8%	73.5%
% > 30 mph	11.0%	11.9%
Mean Speed	26 mph	25 mph
ADT	635 vpd	610 vpd

Average 85th %ile speed over length of Wallington Drive (Avery – Davidson) = 30.0 mph

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Figure 6 - Taylor Lane Avenue

Avery/Hayden Run CLOSED

Dates of Data Collection: August 25, 2005 – September 7, 2005

	Location 1 (Stonehill – Hilliard Run)	Location 2 (Marilyn – Stonehill)
85 th %ile speed	28 mph	31 mph
10 mph pace	16 – 25 mph	21 – 30 mph
% In pace	65.7%	74.5%
% > 30 mph	1.9%	15.4%
Mean Speed	22 mph	26 mph
ADT	590 vpd	800 vph

Average 85th %ile speed over length of Taylor Lane Avenue (Braithway – Avery) = 29.5 mph

Figure 7 - Taylor Lane Avenue

Avery/Hayden Run OPEN

Dates of Data Collection: March 27, 2006 – March 30, 2006

	Location 1 (Stonehill – Hilliard Run)	Location 2 (Marilyn – Stonehill)
85 th %ile speed	28 mph	34 mph
10 mph pace	21 - 30 mph	26 - 35 mph
% In pace	67.5%	66.0%
% > 30 mph	3.4%	32.3%
Mean Speed	23 mph	28 mph
ADT	620 vpd	830 vph

Average 85th %ile speed over length of Taylor Lane Avenue (Braithway – Avery) = 31.0 mph