

AASHTO AADT Method

FHWA Highway Information Seminar
October 31, 2018



AADT

A Annual

A Average

D Daily

T Traffic

The average volume of traffic for a one-day (24-hour) period for a entire calendar year year.

- Directly from a continuous count
- Factored from a short duration count



AADT – from continuous count

$$\frac{1}{7} \sum_{i=1}^7 \left[\frac{1}{12} \sum_{j=1}^{12} \left[\frac{1}{n} \sum_{k=1}^n [Volume_{ijk}] \right] \right]$$

$Volume_{ijk}$ is the daily traffic for day k of day of week i in month j .

i = day of week (Monday, Tuesday,,, Sunday)

j = month of year (1, 2, 3,,, 12)

k = the first day of the week in a month where data is available

n = number of days available for that day of week during that month

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Jan	37,062	30,754	30,956	31,203	32,968	36,870	36,223
Feb	39,499	32,963	33,643	32,233	34,882	46,814	40,759
Mar	46,381	36,898	36,279	39,125	37,182	57,215	51,906
Apr	50,549	38,099	36,789	38,276	38,923	54,463	50,811
May	44,580	38,622	38,455	39,639	39,847	52,279	47,808
Jun							
Jul	48,278	40,656	38,475	38,940	40,698	55,675	58,069
Aug	47,182	41,856	39,492	40,172	41,142	51,031	50,830
Sep	41,858	34,109	32,203	33,191	36,295	49,648	42,517
Oct	40,298	36,601	36,998	38,447	42,107	47,931	38,487
Nov	47,261	35,226	34,605	34,692	38,103	47,089	50,311
Dec	43,532	32,935	33,150	35,980	38,579	42,100	45,866
A=Sum/12							

AADT= sum of A/7=



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A=Sum/12	44,487	36,520	35,793	36,710	38,395	49,575	47,212

$AADT = \text{sum of } A/7 = (44,487 + 36,520 + 36,793 + 36,710 + 38,395 + 49,575 + 47,212)/7 = 41,242$



Next FHWA AADT Method

