

#### Traffic Monitoring Regulations







## Data Collection Framework

TMG Program Main Components

- Permanent continuous counts
- Portable short term counts
- Special need counts









The percentage of truck traffic for 24 hours (one day)



# Annual Vehicle Classification Report

	Count	ty: 10 -	HILLSBORG	DUGH	A	nnual Vehicle Cl Count Y	assification Report ear 2000	ť			
	Site: 0 0321 1	Co Sec Sub: 10290000	MilePost: 1.29	<b>AADT</b> 55,952	Desc SR-:	<b>ription:</b> 582 (FOWLER A	VE.) 1450 FEET EA	AST OF	15TH STRE	EET	
	Func. (	Class: 14	- Urban Othe	r Principal A	rterial					Annual A	verage Daily
	Survey	Туре: Т	- TELEMETR	Υ		Duration(In D	ays): 329			Volume	Percentage
	Class	01	MOTORCY	CLES						6	0
	Class	02	CARS							50,245	90
	Class	03	PICK-UPS A	ND VANS						4,762	9
	Class	04	BUSES							134	0
	Class	05	2-AXLE, SIN	GLE UNIT	TRUCK	S				470	1
	Class	06	3-AXLE, SIN	IGLE UNIT	TRUCK	S				84	0
	Class	07	4-AXLE, SIN	IGLE UNIT	TRUCK	S				11	0
	Class	08	2-AXL TRC	TR W/ 1 OR	2-AXL	TRLR, 3-AXL TR	RCTR W/ 1-A			129	0
	Class	09	3-AXLE TRA	ACTOR W/ 2	-AXLE	TRLR				112	0
	Class	10	3-AXLE TRA	ACTOR W/ 3	-AXLE	TRLR				0	0
					Su	um ary Da	ily Statistics	!		0	0
	-			Dail	lv Iv	innai y Da	n y 5 tatistics Desig	n Hoi	ur	0	0
Perida				24T&B		1.68			0.84	0	0
Traffic Information		$\delta$			_	1.00	2111		0.04	0	0
		10			_	1.44	1117			0	0
		ŪΨ	2	24H	=	0.60	DH3	=	0.30		
			2	24M	=	1.08	DH2	=	0.54	55,952	100
	L										

# Why Weigh?

- Pavement Design / Maintenance
- Bridge Design / Loading
- Enforcement
- Research
- Taxation & Administration
- Freight Movement











# Products

#### Rural Interstate Travel by Vehicle Type

Distribution of Average Daily Traffic Volumes and Equivalent Axle Loads on the Rural Interstate System as a Percent of Total



1Equivalent axle loads provide a means of measuring vehicle wear on pavements by relating them to an 80 kilonewton (18,000 pound) single axle load.

2All 2-axle, 4-tire trucks. Includes pickup trucks, panel trucks, vans and other vehicles (such as campers, motor homes, etc.) 3All vehicles on a single frame have either 2 axles and 6 tires or 3 or more axles (including camping and recreational vehicles and motor homes.)

# Products

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### Importance of Pavement Management

8 million lane miles of pavement
\$\$ per mile per 1" of asphalt



Asphalt

Concrete

## Proposed Changes to Design Guide





#### From Today to Tomorrow

## Types of Load Spectra



# Types of Load Spectra



# Types of Load Spectra



### Current Status, Dec 2006



## Current Status, Dec 2006



## What will it take to enhance PM?

#### Staff integration and communication

- Traffic
- Pavement
- Materials
- Pavement Management
- Construction



# What will it take to enhance PM?

	U.S. Department of Transportation Federal Highway Administration	brandum
Subject:	ACTION: Enhanced Vehicle Classification Data Collection Original Signed by	Date: February 17, 2005
From:	Barna Juhasz Director, Office of Highway Policy Information	In Reply Refer To: HPPI-30
To:	Division Administrators	
	truck movements much less so. However, the need to monitor and freight movements has increased substantially. States hav permanent traffic volume stations that need to be converted to classification stations in order to improve commercial vehicle monitoring will result in significant benefits to the planning pu the new Pavement Design Guide, and improved data quality o	e commercial vehicle traffic re approximately 5000 permanent vehicle monitoring. Enhanced rocess, implementation of the vehicle algoritication



#### **State Support Needed**

- Resources Allocation
  - IT for data base mod's
  - Staff/consultants to implement traffic data collection program
- Approval of training requests

# Enhancements to Traffic Monitoring Program



1. Information Sharing

# Enhancements to Traffic Monitoring Program





2. Standardization of Reporting

## Enhancements to Traffic Monitoring Program



1. Information Sharing





2. Standardization C of Reporting

3. Collaboration

## Key Themes to Take Away

- Traffic Data is Critical For Pavement Management, include it in PMS.
- Existing TMP & PMS need Enhancement
- FHWA and State Collaboration will be Needed
- Develop Continuous Improvement Plan

# ANY QUESTIONS ???



