



Belt and Helmet Use in 2002

Results from the NOPUS Moving Traffic Study



2002 NOPUS Moving Traffic Study Results







Ouick Review of the NOPUS
 Moving Traffic Study
 Controlled Intersection Study

Results from 2002.
 Main findings and trends.

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Quick Review of NOPUS

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- The only probability-based, observational survey of the nation's belt use.
- Conducted in two "studies".
 - - ° Belt and helmet use.
 - 2,000 sites: 150,000 passenger vehicles, 900 motorcycles.
 - Controlled Intersection
 - ° Child seat use and demographic detail on belt use.



Moving Traffic Data Collection – Belts

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Observe shoulder belt use <u>of</u> driver and Right Front passenger <u>in</u> passenger vehicles <u>from</u> roadside, exit ramp, or moving vehicle ° moving vehicles and ramps for interstates <u>during</u> daylight hours.



Moving Traffic Data Collection - Helmets

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Observe

use of legal (FVMSS 218-compliant) and illegal helmets of driver and passenger from roadside, exit ramp, or moving vehicle ° moving vehicles and ramps for interstates during daylight hours.

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Issues Affecting Estimates

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- Daylight observation
- Shoulder belt use
- Driver and Right Front passenger
- Exit ramps
- When data is collected
 June 3, 2002 June 22, 2002
 ° 2-4 weeks after belt campaigns





Results

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Revised 9/24/02



Major Findings from 2002 Survey Show...

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- National belt rate: 75%
 - ♦ 90% confident that use increased from 2001.
 - $^{\circ}$ Margin of Error = 2.4 percentage points
 - Trend is statistically significant.
- Primary states reach 80% milestone.
- Belt use increased in
 - Northeast
 - ♦ Vans and SUVs
- Sharp decline in helmet use.

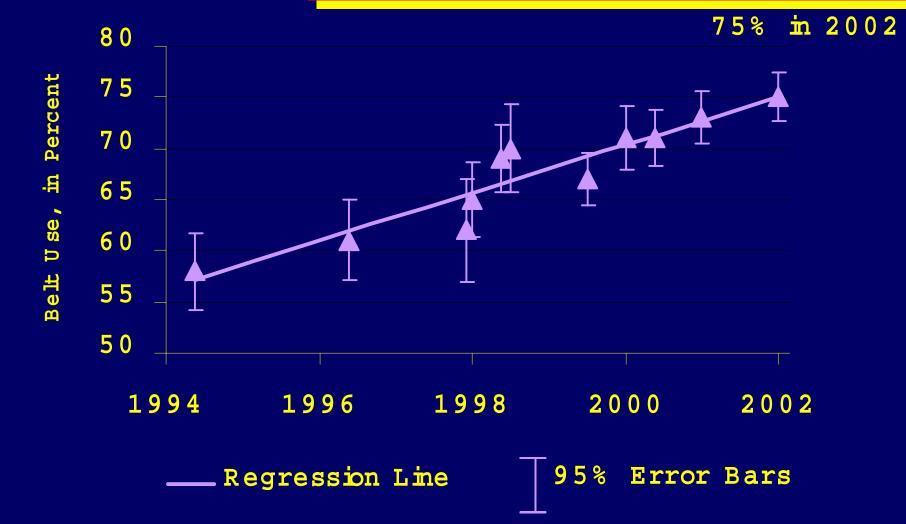
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The Belt Trend is Significant

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Belt Use Rates, by Survey Period

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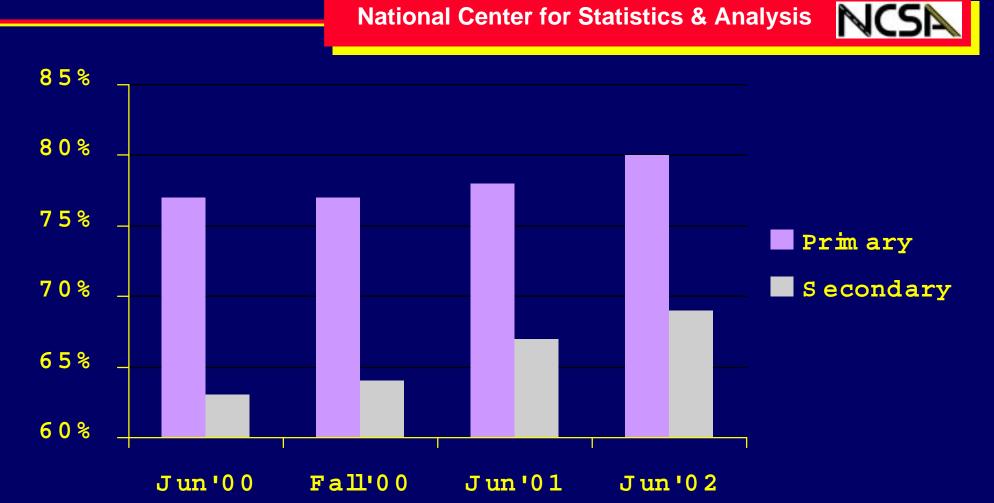


Survey Period	Use	Change, in ppts	Survey Period	Use	Change, in ppts
Fall 94	58%		Dec 99	67%	-3
Fall 96	61%	3	Jun 00	71%	4
May 98	62%	1	Fall 00	71%	0
Jun 98	65%	3	Jun 01	73%	2
Fall 98	69%	4	Jun 02	75%	2
Dec 98	70%	1	Jun 03 target	78%	3

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Primary States Reach 80% Milestone



All primary-secondary differences are significant.

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Primary States Are 11 Points Higher Than Secondary States

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	Type of Seat Belt Use Law			
Survey Period	Primary		Secondary	
	Use	Change, in ppts	Use	Change, in ppts
Jun 00	77%		63%	
Fall 00	77%	0	64%	1
Jun 01	78%	1	67%	3
Jun 02	80%	2	69%	2

None of these year-to-year changes are significant.

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Belt Use Increased in the Northeast

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Estimate	2002	Change,
Estimate	Use	in ppts
Northeast	69%	8
Midwest	74%	2
South	76%	0
West	79%	2

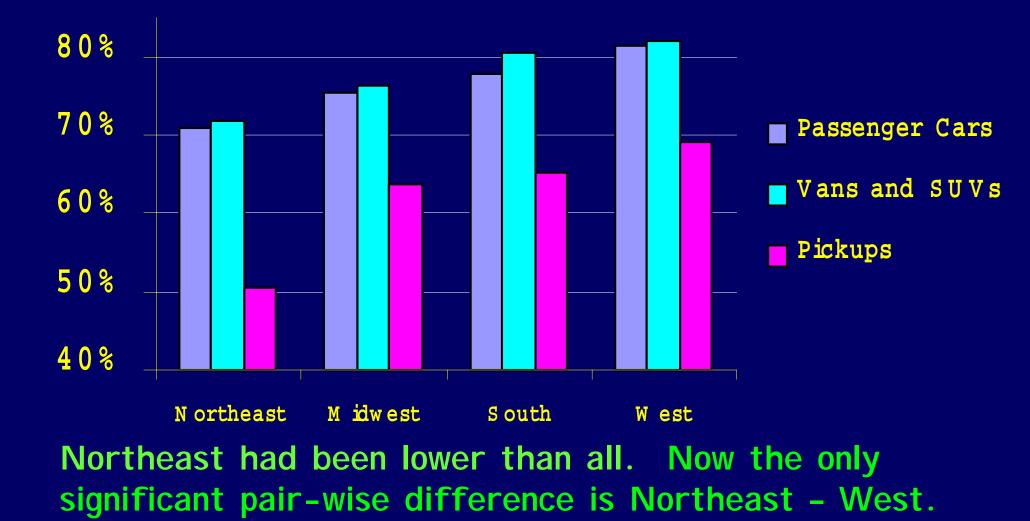
Statistically significant increase in Northeast. No other changes are significant.



Northeast Now Closer to Other Regions

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Belt Use Increased in Vans and SUVs

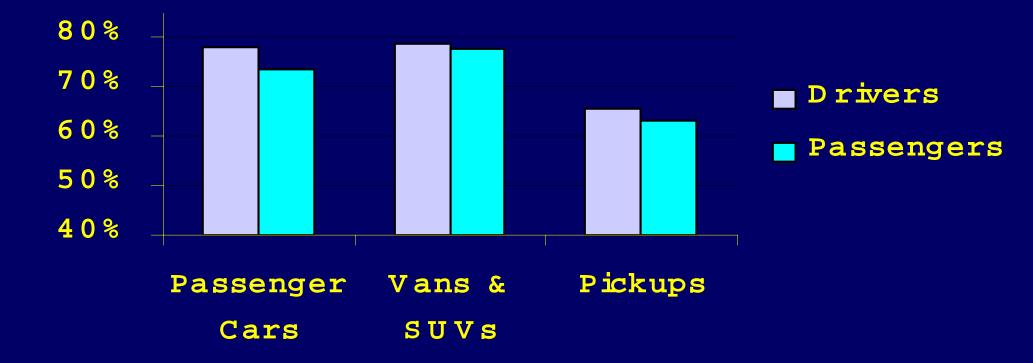
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Estimate	2002	Change,
Estimate	Use	in ppts
Pass Cars	77%	1
Vans and SUVs	78%	3
Pickups	64%	2

Statistically significant increase in Vans and SUVs. No other changes are significant.





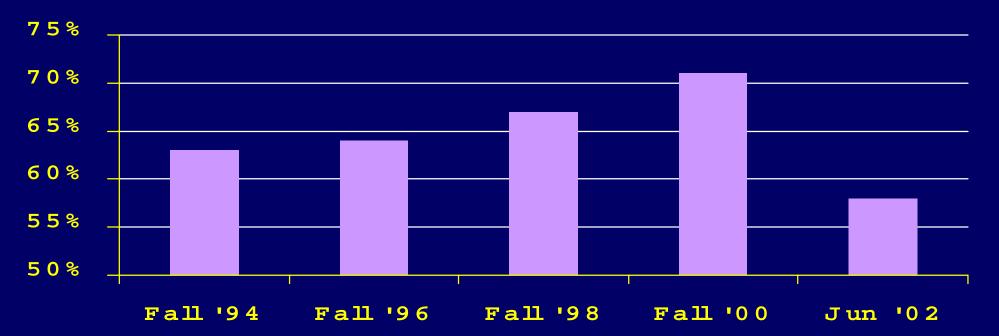
Pickups still significantly lower.

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Motorcycle Helmet Use, by Survey Period



- Fall '00 to June '02 decline -- statistically significant
- What use means:
 - ♦ 1994: wearing *any* helmet.
 - ♦ 1996 and later: only FMVSS 218-compliant ("legal") helmets.

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Spring Observation May Have Contributed to Decline

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Estimate	Use	Change, in ppts
Fall 1994	63%	
Fall 1996	64%	1
Fall 1998	67%	3
Fall 2000	71%	4
June 2002	58%	-13

Significant decline in 2002. No other changes are significant.

What use means:

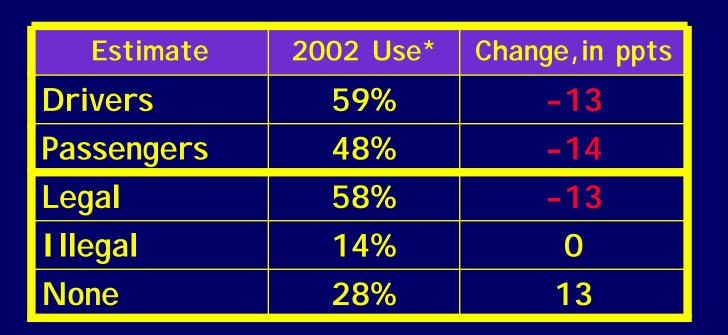
- ♦1994: wearing any helmet.
- ♦ 1996 and later: only FMVSS 218-compliant ("legal") helmets.

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Helmets: Significant Drops for Drivers and Passengers

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*When not specified, helmet use refers to legal helmets. Red: Statistically significant declines.

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Helmets: Large Observed Drop in West

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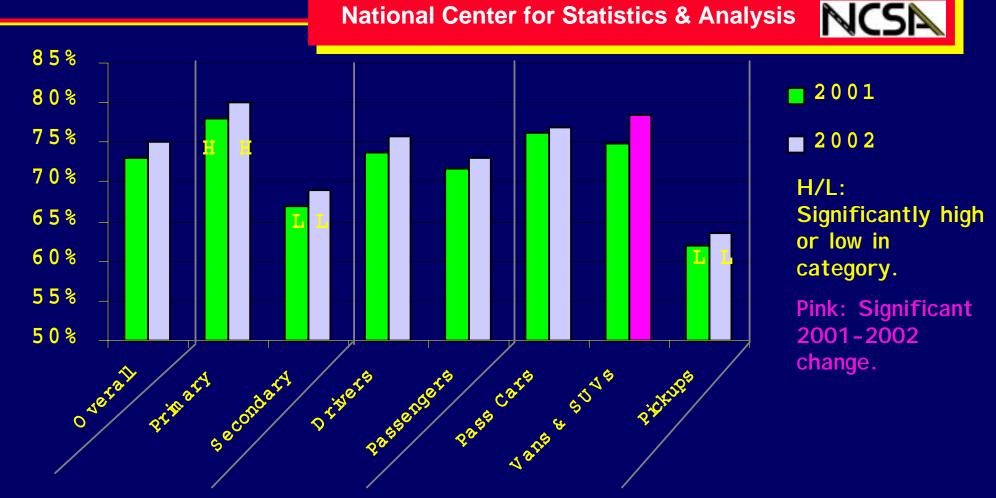
Estimate	2002 Use	Change, in ppts
Northeast	65%	-12
Midwest	54%	-11
South	62%	0
West	52%	-28
Weekday	58%	-13
Weekend	57%	-13
Rush Hour	58%	-13
Non-Rush	58%	-13

None of these changes are significant. (Small sample size.)

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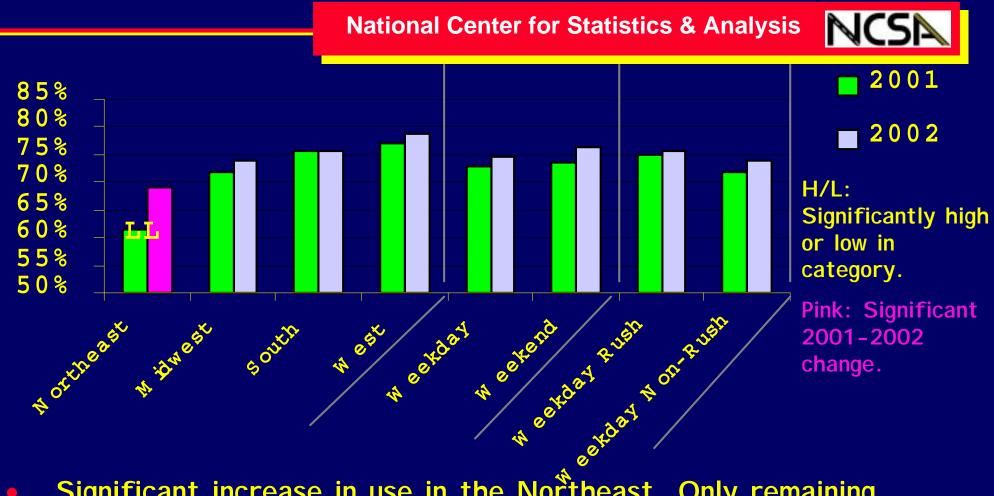
Belt Use Factors



- Enforcement and vehicle type are significant factors.
- Use increased significantly in vans and SUVs.



Belt Use Factors



- Significant increase in use in the Northeast. Only remaining pairwise difference is Northeast-West.
- No time-of-day or time-of-week differences.



Belt Use Factors – Rates

People Saving People

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Estimate	2002 Use	Change, in ppts
Overall	75%	2
Primary	80%	2
Secondary	69%	2
Drivers	76%	2
Passengers	73%	1
Pass Cars	77%	1
Vans and SUVs	78%	3
Pickups	64%	3

Significant increase in vans and SUVs.

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Belt Use Factors – Rates

People Saving People

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Estimate	2002	Change,
LStiniate	Use	in ppts
Northeast	69%	7
Midwest	74%	2
South	76%	0
West	79%	2
Weekday	75%	2
Weekend	76%	2
Rush Hour	76%	1
Non-Rush	74%	2

Significant increase in Northeast.





Questions about the data in this report may be sent by e-mail to: ncsaweb@nhtsa.dot.gov Omade by phone to: 1.800.934.8517

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