| Appendix Table 1. Crash, vehicle and person characteristics by whether any driver was alcohol impaired, four Great Plains states, 2005-2010. |
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|  | Driver Alcohol Impaired |  |
|  | No | Yes |  |
|  | N | (col %) | N | (col %) | p-value |
| Crash Characteristics |
| Manner of Collision |  |  |  |  | 0.0332 |
| Non-collision | 430 | (22.7) | 13 | (21.7) |  |
| Head-on | 91 | (4.8) | 6 | (10.0) |  |
| Rear-end | 358 | (18.9) | 20 | (33.3) |  |
| Angle, oncoming left turn | 314 | (16.6) | 8 | (13.3) |  |
| Sideswipe, same direction | 372 | (19.7) | 6 | (10.0) |  |
| Sideswipe, opposite direction | 175 | (9.3) | 4 | (6.7) |  |
| Other | 152 | (8.0) | 3 | (5.0) |  |
| Multiple vehicles involved |  |  |  |  | 0.3593 |
| No | 350 | (18.3) | 14 | (23.0) |  |
| Yes | 1560 | (81.7) | 47 | (77.0) |  |
| Lighting |  |  |  |  | <.0001  |
| Daylight | 1609 | (88.1) | 26 | (42.6) |  |
| Dark-street lights on | 7 | (0.9) | 6 | (9.8) |  |
| Dark-no street lights | 217 | (11.5) | 26 | (42.6) |  |
| Other | 48 | (2.5) | 3 | (4.9) |  |
| Weather conditions |  |  |  |  | 0.75 |
| Clear | 1335 | (70.3) | 44 | (72.1) |  |
| Not Clear | 565 | (29.7) | 17 | (27.9) |  |
| Time of day |  |  |  |  | <.0001  |
| Midnight-5:59am | 57 | (3.0) | 4 | (6.6) |  |
| 6am-11:59am | 576 | (30.3) | 3 | (4.9) |  |
| Noon-5:59pm | 1164 | (31.1) | 28 | (45.9) |  |
| 6:00pm-11:59pm | 107 | (5.6) | 26 | (42.6) |  |
| Season of the year |  |  |  |  | 0.85 |
| Jan-March | 212 | (11.1) | 9 | (14.8) |  |
| Apr-May | 354 | (18.5) | 11 | (18.0) |  |
| Jun-Aug | 509 | (26.7) | 16 | (26.2) |  |
| Sept-Dec | 835 | (43.7) | 25 | (41.0) |  |
| Day of Week |  |  |  |  | 0.03 |
| Sunday | 143 | (7.5) | 5 | (8.2) |  |
| Monday | 330 | (17.3) | 10 | (16.4) |  |
| Tuesday | 292 | (15.3) | 6 | (9.8) |  |
| Wednesday | 304 | (15.9) | 6 | (9.8) |  |
| Thursday | 309 | (16.2) | 5 | (8.2) |  |
| Friday | 287 | (15.0) | 18 | (29.5) |  |
| Saturday | 245 | (12.8) | 11 | (18.0) |  |
| Rurality |  |  |  |  | 0.13 |
| Urban | 460 | (25.0) | 7 | (12.1) |  |
| Large rural | 292 | (15.9) | 13 | (22.4) |  |
| Small rural | 378 | (20.6) | 13 | (22.4) |  |
| Isolated rural | 708 | (38.5) | 25 | (43.1) |  |
| Driver and Vehicle Characteristics |
| All vehicles (n, row %) | 3539 | (98.3) | 62 | (1.7) |  |
| Driver Age |  |  |  |  |  |
| Mean (std) | 45.5 | (19.0) | 44.3 | (13.2) | 0.47 |
| <34 | 1141 | (32.5) | 16 | (26.2) | 0.03 |
| 35-44 | 519 | (14.8) | 17 | (27.9) |  |
| 45-54 | 680 | (19.4) | 13 | (21.3) |  |
| 55+ | 1171 | (33.4) | 15 | (24.6) |  |
| Driver Gender |  |  |  |  | 0.64 |
| Female | 590 | (16.8) | 9 | (14.5) |  |
| Male | 2931 | (83.2) | 53 | (85.5) |  |
| Driver Contributing Circumstances |  |  |  |  |  |
| No Contributing Action | 1547 | (46.0) | 5 | (8.9) |  |
| Failed vehicle maneuver | 409 | (12.2) | 8 | (14.3) |  |
| Disregarded traffic regulation | 536 | (15.9) | 11 | (19.6) |  |
| Operated Motor Vehicle in Reckless, Careless, Negligent, Aggressive Manner | 93 | (2.8) | 7 | (12.5) |  |
| Operated Motor Vehicle in Inattentive/Distracted Manner/Driver Condition | 185 | (5.5) | 13 | (23.2) |  |
| Other Contributing Action | 596 | (17.7) | 12 | (21.4) |  |
| Injury |  |  |  |  | <.0001  |
| None | 2762 | (79.9) | 26 | (44.1) |  |
| Possible Injury | 255 | (7.4) | 7 | (11.9) |  |
| Non-incapacitating Injury | 289 | (8.4) | 10 | (17.0) |  |
| Incapacitating Injury | 118 | (3.4) | 9 | (15.3) |  |
| Fatality | 34 | (1.0) | 7 | (11.9) |  |
| Vehicle Action |  |  |  |  | 0.25 |
| Heading straight | 2179 | (61.8) | 45 | (72.6) |  |
| Turning left or right | 603 | (17.1) | 6 | (9.7) |  |
| Overtaking/Passing/Changing lanes | 449 | (12.7 | 8 | (12.9) |  |
| Slowing/stopping/Other | 297 | (8.4) | 3 | (4.8) |  |
| Farm Equipment |  |  |  |  | 0.0017 |
| Yes | 1962 | (55.4) | 22 | (35.5) |  |
| No | 1577 | (44.6) | 40 | (64.5) |  |