

## APPENDIX P

### DATA EDITING

Section 3-D discusses data editing implemented in the conduct of the 2001 NHTS. The following is a list of the edits that Westat ran on the national, New York and Wisconsin CATI database. After the edits were run cases that failed the edit were manually examined to determine if the value provided by the respondent was a likely response. If it was, the value was left unchanged even if it failed the edit. However, if the value was highly unlikely it was set to a not ascertained response (a code of -9). If the value was set to something other than -9, edit or imputation flags were set to indicate items that were modified.

#### Vehicle:

1. The number of years each vehicle is owned (L8) will be compared to the model year of the vehicle (B2).
2. The number of years each vehicle is owned must be equal to or less than the difference between interview year and the model year plus 1.
3. When both odometer readings have been obtained, compute the annualized mileage and compare it to the mileage in L9/L10.
4. Review cases where L9/L10 is 0 miles and the vehicle was used on travel day (G31).
5. Review cases where G30 is 1 on any trip and the count of vehicles in B2 is 0.
6. Review cases where the vehicle ID in G31 does not exist in B2.

#### Worker:

7. Compare worker status between the screener and extended. Review cases where C8=1 and E3 is not 1 or 2, E4 is not 1 or E5 is not 1, 2 or 3 and vice versa.
8. Review cases where age in C8 < 14 years and E3 is 1 or 2, E4 is 1, or E5 is 1, 2 or 3.
9. Review cases where the person is not a worker based on the screener (C8) but they took trips to work. That is G25 or G26 on any trip is 11 or 12.

10. Review cases where E5 is not 3 or E6 is not 1 (the person does not have multiple jobs) and there is more than one work trip (G25 or G26 is 11 on more than one trip).

Driver:

11. Check if the screener (C8) says the person is not a driver but the person drives on the job (E8 is 1), drove on travel day (G49 has enum of person), driver flag has been set for person (G49), or person drove on travel period trip (I7 has enum of person).

12. Check for cases where the person is a driver (C8) and also < 14 years old (C8).

13. Check for persons that are <15 and E8 is 1, or G49 or I7 has persons enum.

14. Review cases where L5 is > 200,000 miles.

15. Review cases where L9 is > 200,000 miles.

16. Use L8 to annualize L10 and provide cases where the mileage is > 200,000 miles.

17. Number of persons where L5 = 0 (did not drive in last 12 months) and E8 =1 (drives on job) or G49 or I7 have the persons enum number (the person drove on travel day or travel period).

18. Number of persons where L5 = 0 (did not drive in last 12 months), C12 indicates they are the primary driver on a vehicle and L9/L10 shows the vehicle was driven in the past 12 months.

Household Enumeration:

19. Review cases where the screener respondent or reference person is < 16 years.

20. Review cases where the household member is <16 and his/her relationship to the reference person is spouse (C8).

21. Review cases where the screener respondent and reference person are different.

22. Review cases where G45 or I3 are 99. Will need to verify if this person was a household member on date of screener.

Survey Parameters:

23. Review cases where age is < 14 (C8) and the extended was not completed by proxy (E1 = 1).

24. Review cases where E1=1 and result code is CP and E1=2 and result code is CS.
25. Review cases where the interview date for a household member is more than six days after the travel date.
26. Review cases where the interview date is > 16 days after the travel date.
27. Check file to make sure the day of week and travel day match.

Travel Day:

28. Review cases where E14 is 998 (this was a code on the pretest for this question but not on the main study.)
29. Review cases where F567CHK = 1 (the distance/time/mode check for work failed but the R did not alter his/her response).
30. For cases where F567CHK = 2, conduct the check in programmer box after E16 in the 6/29<sup>th</sup> version of the questionnaire (verify if this box matches CATI and let me know if it does not) to see if the person would have failed the check a 2<sup>nd</sup> time. If yes, review those cases.
31. For cases that are not missed trips, review cases where the start time on a subsequent trip (G16) is < the end time on a previous trip (G17) for at least one trip.
32. Provide the number of cases where G13 is 1 (took no trips) and the trip count is not 0 (G12).
33. Provide the number of cases where G9 is 1 or G10 is 1 and the trip count is not 0 (G12).
34. For trips where G44 = 1 (household members on trip), review the cases where G25 or G26 and G27 have a code of 21 (both persons went to school as a student).
35. For trips where G44 = 1 (household members on trip), review the cases where G25 or G26 and G27 have a code of 11 (both household members went to work).
36. Review cases where G19 = 1 (took public transportation on travel day) and G34 is not 10, 11, 16, 17, 18 or 20 on any trip (did not report using public transportation on any trip).
37. Review cases where G33 is 1 and G34 is not 10 or 11 on any trip.
38. Review cases where G33 is 2 and G34 is not 16, 17, or 18 on any trip.

39. Review cases where G33 is 3 and G34 is not 20 on any trip.
40. Review cases where the sum of the time in G36, G37 and G39 is > than the time in G42 for any trip.
41. Review cases where G40 is 996, 997 or 998.
42. Provide the number of cases where G29CHK = 1 (the distance/time/mode check for G34, G40 and G42 failed but the R did not alter his/her response).
43. For cases where G29CHK = 2, conduct the check in programmer box after G42 in the 6/29<sup>th</sup> version of the questionnaire (verify if this box matches CATI and let me know if it does not) to see if the person would have failed the check a 2<sup>nd</sup> time. If yes, review those cases.

Travel Period:

44. For H1, I9, I10, J1 and K4. Need to split the city field into a city and country field for international trips. Initially, do this only where the state is ZZ. Once geocoding is complete, provide trips where the state was not ZZ but should have been so that these trips can be added to the file e.g., CA for Canada.
45. For each trip, provide cases where the return date is before the departure date (in H1).
46. Review cases where the return date for a trip is not between the start and end date of the travel period (in H1).
47. Sort trips by start date (H1). Provide cases where the start date for any trip, excluding the current trip, is contained in another trip.
48. Review cases where the departure and return date are not the same (the subject did not leave and return on the same day) and there is another travel day trip for the subject that has the same departure and return date, city and state (H1). The edit is designed to capture duplicate travel period trips. We are excluding trips where the departure and return dates are the same as it is possible to make multiple long trips on the same day to the same place.
49. Review cases where RECURR is 1 and NTIMES is not > 1.
50. Review cases where the number of recurring trips provided is not possible within the travel period. This can be calculated by: 1) Calculating the difference between the return date and the departure date of the trip, 2) Multiplying the number in 1) by

NTIMES, 3) Calculating the number of days between the end of the travel period and the departure date, and 4) If the number in 2 is more than the number in 3 then NTIMES should be made -9 (not ascertained). Otherwise NTIMES should be left unchanged.

51. Provide a crosstab of number of recurring trips (NTIMES) by trip purpose (I13).
52. Check ranges around the number of non-HHMs on each trip. Provide cases where: I5 is 1, 11, 17, 21, 24 or 26 and I4 is not 1 to 5. I5 is 2, 3, 6, 18 or 20 and I4 is not 1 to 10. I5 is 4 or 5 and I4 is not 1 to 3. I5 is 7 or 25 and I4 is not 1 to 2. I5 is 8, 9, 10, 12, 13, 14, 15, 16, or 19 and I4 is not 1 to 100. I5 is 22 or 23 and I4 is not 1 to 4.
53. Review cases where I5 is 14 and I8 is 8 or 9 (airplane is access to an intercity bus).
54. Review cases where the state for I9 is ZZ.
55. Verify that when the MRT flag is set, we have just one trip.
56. If K1 is 99, Review cases with travel day trips of 42 miles or more.
57. Review cases where I15 is 15 or 16 and K6 is not -1.
58. Review cases where K6 is 99 and on any travel day trip G40 is >41 miles and G34 is 15 or 16.

Other:

59. Review cases where M6d is 1 (this subject has given up driving) and the same subject drove on a travel day or on a travel period trip (G48 (HHMEMDRV) or I7 (HHMDRV has the person number of the subject).
60. If L11 is 5, Review cases where G32 is 1 on any trip.
61. Review cases where current year less M10 is more than the age of the respondent in C8