# Track Inspection Time Study Report of the Brotherhood of Maintenance of Way Employee Division/IBT (BMWED)

Submitted to:
The Committee on Transportation and Infrastructure
of the House of Representatives

and

The Committee on Commerce, Science, and Transportation of the Senate

Report Prepared for BMWED by Edward M. Stockton Director of Economics Services

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#### TRACK INSPECTION TIME STUDY REPORT

of the

## BROTHERHOOD OF MAINTENANCE OF WAY EMPLOYEE DIVISION/IBT (BMWED)

#### **SUBMITTED TO:**

## THE COMMITTEE ON TRANSPORTATION AND INFRASTRUCTURE OF THE HOUSE OF REPRESENTATIVES

#### **AND**

## THE COMMITTEE ON COMMERCE, SCIENCE, AND TRANSPORTATION OF THE SENATE

## REPORT PREPARED FOR BMWED BY EDWARD M. STOCKTON DIRECTOR OF ECONOMICS SERVICES

- I am the Director of Economics Services for The Fontana Group, Inc. ("Fontana"). The company is headquartered at 3509 North Campbell Avenue, Tucson, Arizona 85719.
   Neither I nor my colleagues at Fontana have previously worked for a railroad or The Brotherhood of Maintenance of Way Employees Division/IBT ("BMWED"). This report is, except where indicated, based on my personal knowledge.
- 2. BMWED conducted a mail survey of qualified track inspectors represented by the BMWED in order to elicit their opinions, experiences, and other feedback related to their working conditions. BMWED requested Fontana to use its econometric expertise to analyze the survey results and to present its finding and conclusions in a report to be submitted by BMWED to the Committee on Transportation and Infrastructure of the

House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate. This report is intended to provide the Committees with additional data independent of the Track Inspection Time Study report required to be submitted to the Committees by the Secretary of Transportation under Section 403 of the Rail Safety Improvement Act of 2008. BMWED will also provide a copy of its report to the Secretary of Transportation and the Administrator of the Federal Railroad Administration. This report presents the findings and analysis from this project.

#### DATA RELIED UPON

3. In preparation for this report, I reviewed survey data provided by BMWED, the Track Safety Standards (49 CFR 213), and met with BMWED representatives.

#### **EXECUTIVE SUMMARY**

- 4. Interviewees participated in a written survey with 40 multiple choice questions and additional narrative responses. The survey appears as **Appendix 1** to this report. BMWED sent out 1,542 surveys and provided responses for the 454 participating respondents. Survey topics included questions regarding the following:
  - A) Experience and background;
  - B) Territory inspected;
  - C) Process;
  - D) Training;
  - E) Oversight and supervision.
- 5. The response volume from 454 participants allows the results to take on large sample properties, which buttresses the reliability of results. Despite the significant volume of responses, 454 survey participants equate to a response rate of 29.4%. While the literature

cautions against the assignment of a "normal" response rate, it is possible, without characterization, to note that the response rate achieved herein does allow for the potential of non-response bias.

- 6. Non-response bias arises when the views or experiences of non-respondents differs from those who did respond. Non-response bias is most problematic in satisfaction-related surveys, when the subjects' feelings about their experiences may affect their disposition to return the survey. While the data available do not allow a determination of the nature of non-respondents, BMWED's survey itself seeks mostly concrete information about subjects' experiences. Thus, the specter of non-response bias would only arise if subjects' differing *objective experiences* or *subjective dispositions* affected their tendency to return the survey that sought information primarily through concrete queries. Intuitively, the risk of this occurrence seems slight. To the extent that the potential of non-response bias justifies a degree of skepticism, it would apply to questions that seek subjective responses rather than objective ones.1
- 7. The results of the track inspection survey highlight opportunities for succession planning, targeted training improvements, and cultural improvements in areas in which the high-pressure environment does not appear to increase productivity. The survey alerts responsible parties to practices that circumvent or directly undermine established safety protocols. Feedback from employees concerning maximum inspection speed support the development of practical inspection safety controls.
- 8. Survey participants report a high degree of experience with the majority having over 24 years in the track department. Over 82% of respondents currently work as track inspectors. Employees of Burlington Northern Santa Fe ("BNSF") and Union Pacific ("UP") make up over two-thirds of respondents.

<sup>1</sup> Responses to question 17 appear to reflect some errors of transposition or, alternatively, efforts by respondents to communicate experiences that do not conform to the format of the responses available.

- 9. Survey results describe a high-pressure work environment where track inspectors fear a higher risk of termination or other discipline than their peers in the track department. Relations with management echo the high-pressure environment with the majority of respondents reporting pressure to finish inspection without incurring overtime and pressure from management upon placing slow orders. Nearly three-quarters of participants responding believe that dispatcher pressure compromises their ability to conduct track inspections. Denial of overtime also adversely affects the ability to conduct inspections. Employees also report management behavior that both discourages standard reporting and encourages non-standard reporting.
- 10. The high-pressure environment does not appear to correlate with increased productivity, in terms of length of track inspected or traffic levels. Reports of high pressure also do not correlate across years of experience of inspectors. These finding suggest that the pressure experienced does not contribute to higher output from track inspectors.
- 11. Expressions of infrequent training and low satisfaction with company training are prevalent. The high level of accumulated experience of the survey participants suggests heavy impending turnover among track employees. Conversely, only 7.1% of respondents having been employed for less than 5 years.
- 12. Among the inspectors with less than 5 years of experience, over 37% rate their employer's training program a '1', '2', or '3' on a 10-point scale where '10' is the highest. Just 15.9% of that group grades the program higher than a '7' out of 10. Nearly one one-half of these inspectors report either never receiving track inspector training or receiving it less than once every four years.
- 13. Employees more likely to retire sooner had different issues concerning job related training questions than did the less experienced track inspectors. Employees with over 24 years of experience report somewhat less dissatisfaction (rating of 1-3) with training programs and

- also somewhat higher satisfaction (rating of 8-10). However, over 42% of these inspectors report receiving training less than once every four years.
- 14. Both the absolute findings from the training satisfaction and frequency questions and the relative differences in findings between those inspectors with the most and the least experience raise important concerns. The least experienced employees are likely those most in need of additional training. This suggests that they should be the targets of more frequent training, ideally with higher satisfaction. From a succession planning standpoint, those employees with over 24 years of experience are those most likely to retire in the nearer future. A successful training environment is critical to the success of the next generation of inspectors.
- One aspect of the training environment for which the survey does not elicit responses is on-the-job training. Employees may receive cross-training that would contribute to their eventual qualification to become track inspectors. Questions covering only employers' training do not gather information on the training and development of future track inspectors. This question and the two mentioned above (training in the context of succession planning, higher dissatisfaction among the least experienced inspectors, and on-the-job developmental training) may justify additional study of the broader training environment for current and future track inspectors.
- 16. Question 6 of the survey sought responses from BMWED members qualified and designated under 49 CFR § 213.7 to inspect track regarding the maximum speed at which they perceived safe, quality and thorough track inspection was possible. Integrating the responses to this question with those from questions 14 and 15 revealed a telling result. Response followed a bi-modal pattern separated on the type of track inspected, Continuously Welded Rail ("CWR") and Jointed Rail. Those respondents inspecting Jointed Rail reported lower maximum safe-inspection speeds than those inspecting CWR, with over half responding with a maximum inspection speed of 15 MPH or less and 87% at

20 MPH or less. For CWR inspections (with wood crossties)<sub>2</sub>, responses were approximately 40% for 20 MPH or less and 71% for 25 MPH or less. The body of the report displays finding from each section of the survey.

17. **Appendix 2** shows aggregated survey responses. Subsequent appendices to the report segregate survey responses on the bases of employer, years of experience, and other potentially informative subdivisions. **Appendix 3** tracks narrative responses to three questions, displaying frequent answers provided by survey respondents.

#### **Experience and Background**

- 18. Respondents are highly experienced (**Figure 1**), with over 60% having worked in the track department for more than 24 years.<sub>3</sub> Accordingly, experience level is not well-distributed throughout the population. Only 7.1% of respondents have been employed for less than 5 years. **Appendix 4** segregates responses by years of experience.
- 19. Over two-thirds of respondents work for two employers, BNSF and Union Pacific ("UP"), which are the largest Class I railroads in the country (**Figure 2**). Norfolk Southern, Canadian Pacific, and Amtrak employees report the highest levels of experience while Canadian National employees report the lowest percentage of employees with over 24 years of experience. Appendix 5 shows survey responses by employer.

<sup>2</sup> All respondents reporting Jointed Rail track also reported wood crossties. The comparison of CWR is based on only those inspectors reporting CWR *and* wood crossties. CWR responses differ somewhat for those inspectors with crossties other than wood. These responses are displayed in more detail later in the report.

<sup>3</sup> Over 82% of respondent employees were working as track inspectors at the time of the survey. All respondents were designated by their employer as qualified to inspect track, even if not working a track inspector position at the time the survey was taken.

<sup>4</sup> Based on 12 responses.

Figure 1: Years working in track department

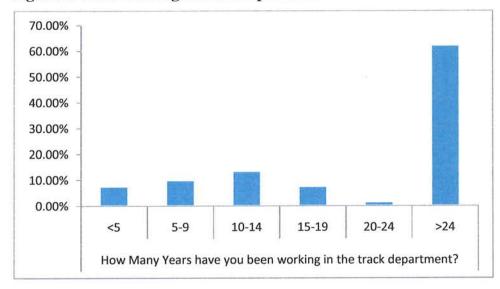
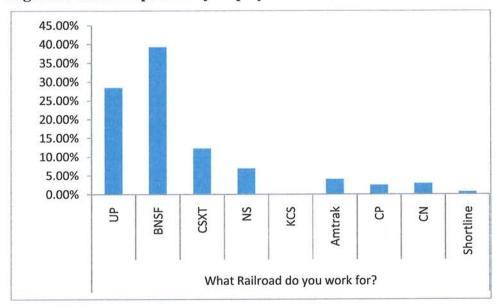


Figure 2: Track inspectors by employer



20. Respondents are split on the question of whether the FRA should certify track inspectors in a fashion similar to the certification of locomotive engineers (see 49 CFR §240).
Proponents of such certification form a slight majority that falls within a statistical margin

of error.<sub>5</sub> A valid inference from this data suggests that there is no internal bias by the respondent rail workers toward certification.

21. The survey asked respondents for their opinions on the maximum highrail vehicle speed (**Figure 3**) that should not be exceeded in order to conduct a "quality and thorough visual track inspection".

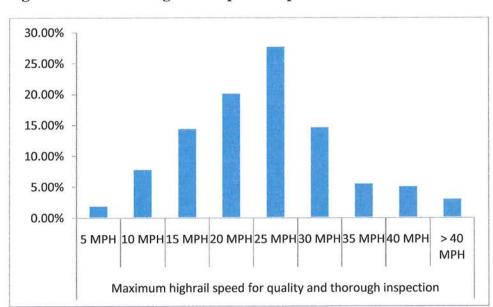


Figure 3: Maximum highrail inspection speed

- 22. While the chart above suggests a "normal" or bell curve response to the question, the pattern is misleading. Data actually follow a bi-modal response based on type of track inspected. Those employees who work on CWR track showed higher tolerance for increased highrail vehicle inspection speed, while those with Jointed Rail territory suggested lower maximum speeds (**Appendix 6**).
- 23. Among Jointed Rail respondents, over half suggest maximum inspection speeds of 15
  MPH or less with over 80% identifying 20 MPH or less as the maximum speed not to be

<sup>5 +-2.5%.</sup> 

exceeded in order to conduct a quality and thorough visual track inspection. For CWR respondents (with wood crossties)<sub>6</sub>, only 17% identify 15 MPH or less as a maximum inspection speed with 71.4% identifying 25 MPH or less as the threshold. This suggests that one method of joining rail has a higher frequency of track failure. The track inspector findings are consistent with this expectation. CWR has fewer vulnerable components than Jointed Rail.

#### **Territory**

Over 92% of respondents report mainline track consisting of single main track or two main tracks. 80% inspect territory of less than 100 miles with only 2% inspecting over 150 miles. Narrative survey responses suggest a strong sentiment by track inspectors that their territories are oversized relative to inspection time available (Figure 4).

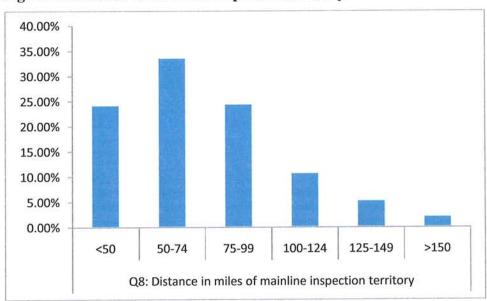


Figure 4: Distance of mainline inspection territory

25. Approximately 95% of respondents report mainline territory with at least some Continuously Welded Rail ("CWR") with three-quarters reporting territory primarily

<sup>6</sup> Recall that all inspectors that identified Jointed Rail track also have wood crossties.

comprised of CWR. Virtually all respondents are responsible for inspecting switches and grade crossings with some inspectors responsible for over 100 switches and over 41 grade crossings.

26. Approximately 60% of track inspectors were able to identify the amount of annual traffic (in Million Gross Tons, or "MGT") on the track that they inspect (**Figure 5**). The remaining 40% did not know traffic levels. Respondents who did identify traffic levels report substantially different MGT volumes on the track inspected with the modal response of less than 50 MGTs. Among those inspectors who did identify track traffic amounts, MGT levels roughly evenly split at 100 MGTs (**Appendix 7**).

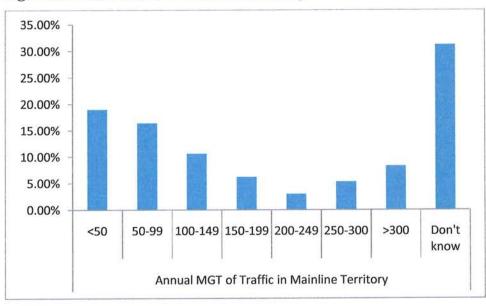


Figure 5: Annual MGT of traffic in territory

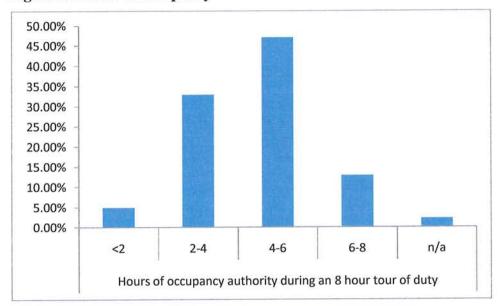
#### **Process**

27. Over 82% of inspectors (by highrail) do not have a second qualified inspector in the vehicle during main track inspection. However, respondents confirm that a second qualified inspector would enhance the quality and thoroughness of the inspection (75.2%) as well as the enhancing roadway worker on-track safety (80.4%). The expectation of improved

inspection quality and worker safety from the presence of second inspectors may justify adding a second qualified inspector to the highrail inspection vehicle.

28. When requesting occupancy authority, 95% of requests are by radio or computer. Just under half of employees receive an average of 4-6 hours of occupancy authority with approximately one-third receiving 2-4 hours (**Figure 6**). **Appendix 8** segregates responses by hours of occupancy authority.

Figure 6: Hours of occupancy



29. Survey analysis included substantial efforts to relate occupancy authority to duties that must be accomplished during that authority. Variables included track length (i.e., route miles), number of tracks, repair time, days spent inspecting and maximum inspection speed. Survey responses suggest that limited track occupancy and other constraints impair inspectors' ability to inspect track at speeds conducive to quality and thorough inspection. Narrative responses also include high frequencies of complaints that time constraints, insufficient resources, and excessive demands on inspectors' time impair the capacity to conduct quality and thorough inspections.

- 30. While the analysis yielded anecdotal evidence that inspectors will fall short of the necessary time to conduct what they perceive to be a thorough inspection, a more precisely designed study will be superior in producing an econometrically reliable result to investigate this important subject.
- 31. Repairs consume a substantial amount of inspection time (**Figure 7**). Approximately 80% of respondents report spending at least an hour per day making repairs, while over 45% report spending over 2 hours per day. Repair time reduces potential inspection time, and unexpected repair requirements increase overtime pressures. Not surprisingly, 53% of employees report that repair time negatively affects inspection quality.

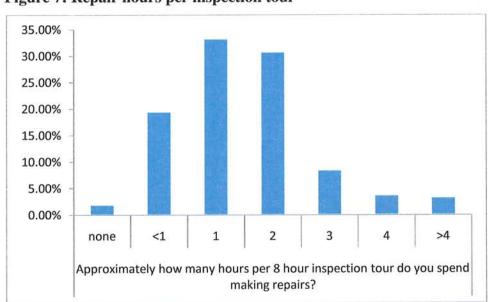


Figure 7: Repair hours per inspection tour

When defects are found, 40% of track inspectors responding report that adequate forces are "rarely" or "never" available to correct the defects. Fewer than 10% report that adequate resources are always available.

32. Most mainline territories periodically receive supplemental inspections by automated Track Geometry Vehicles (96.0%) or Gage Restraint Measurement vehicles (71.6%).

Over three-quarters of track inspectors receive the reports from these supplemental inspections.

### Training

33. As discussed in the Executive Summary, survey data suggest an opportunity to improve training quality and frequency in light of impending employee turnover (**Figures 8 and 9**). The current state of training elicits significant dissatisfaction from employees and highlights infrequent or non-existent training in some cases. Narrative responses to question 43 provide additional anecdotal evidence of insufficient training and concerns among inspectors that their training is inadequate relative to the responsibilities held. **Appendix 9** includes tabulations by training frequency.

Figure 8: Ranking of carrier's inspector training

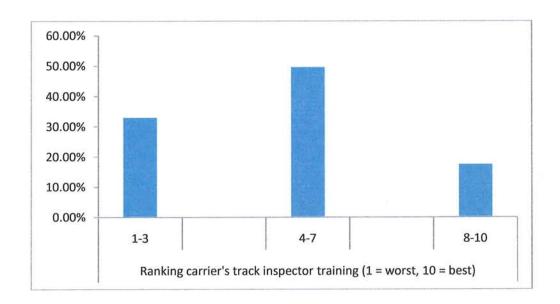




Figure 9: Training frequency

#### Oversight and Supervision (Pressure)

34. Employees report a high pressure work environment with risk of discipline and dismissal. Frequent responses identify pressure to circumvent reporting protocols, as well as instructions and pressure to follow non-standard reporting procedures. Appendix 10 shows significant statistical detail on respondents reported pressure-related experiences. Narrative responses are rife with references to excessive pressure from management, culture that discourages proper reporting of defects, and denials of overtime. Several poignant comments are highlighted below:

"The work plan—management has told me to lie on my reports to charge time to work that I did not do; to justify the plan and when I refused I was told I might be taken to an investigation for failure to comply with instructions"

"Management does not want you to write up defects because there are not enough men to repair them. You are forced to falsify records, that is, to show things are corrected or taken out of service so you can upload your inspection report into the track inspection system."

"No overtime. Sometimes fly over tracks just to get done on time."

"We <u>NEED</u> respect from supervisors and fellow employees for the job we do instead of being the (bad guy) for finding defects and reporting them. Don't like hearing nasty comments and remarks about doing my job properly. It does tend to influence decisions we make."

"I have no control over the inspection records, as they were taken away from me because I refused to sign off on the track that I did not inspect. They were given to the asst supervisor so I don't have access to them anymore. I was also told I could not put anything on the reports that was an FRA violation."

"The biggest constraint is the MTM. We have him telling us not to put slow orders out. He won't let us inspectors take a track out of service that is being used. He tells us only to write up what we can fix. Our MTM will get so mad and red in the face. He will start yelling and cursing at us inspectors if we tell him we want to put out a slow order or take a track out of service. The MTM has made comments that if we continue to write things up, he will have his inspectors come in and change ties themselves. If we do put a slow order out, he will take it down or not fix it right and then tell the foreman to take the slow order off. He tells us if we do something that he will have to do what he has to do then. To remember that. We all know that it is a threat. But we all need our jobs and he has a lot of years with the RR and knows everybody...."

35. A hypothesis that may prove useful for research focus is to explore the question of whether the frequency of pressure-related behavior correlates with the demands upon inspectors. In simplest terms, are high-pressure work environments in place to enforce the highest productivity demands? Based on the survey data, pressure responses do not correlate with longer track inspection territories, fewer hours of track occupancy, higher MGT of traffic, or track inspection miles per hour of occupancy (with and without repair times). This suggests that the pressure environment is cultural. This finding presents an opportunity to explore high-pressure conditions and their potential effect upon the safety of workers and inspections.

#### **Conclusions**

36. The track inspection survey offers insight into the working conditions, job demands, and safety constraints of critical rail line workers. While a broad survey does not generally

lend itself to rigorous statistical undertakings, the number of responses does allow survey results to take on large sample size properties, lending credibility to the patterns of responses found herein. The findings also point to the need for additional research, particularly into the critical question of whether constraints faced by inspectors force visual track inspection to occur at speeds beyond that which inspectors feel that thorough and careful inspection is possible.

- 37. The following study areas have been identified as likely capable of producing useful interpretative data and conclusions material to resolving track inspection issues.
  - I Econometrically-oriented objective study of maximum track inspection speeds and its implications on necessary track occupancy
  - II Additional study on the costs and benefits of adding a second qualified inspector to the highrail vehicle
  - III Exploration of high-pressure culture and its impact on track inspection quality and worker safety
  - IV Evaluation of railroad training environment with targeted focus on the following:
  - a) Advancing the skill level of less experienced inspectors;
  - b) Succession planning for the positions currently held by more experienced inspectors;
  - c) On-the-job track inspector training for current railroad employees.

#### **QUALIFICATIONS OF AUTHOR**

38. My curriculum vitae is attached as **Appendix 11** to this report. I have a Bachelor degree in economics from Western Michigan University. I received a Master of Science degree

from the Department of Agricultural and Resource Economics with a concentration in applied econometrics from the University of Arizona. I have worked at Fontana since 1998.

39. My work experience includes studies and expert testimony in the motor vehicle industry, retail and wholesale finance, customer satisfaction measurement and analysis, health insurance, parts manufacturing, parts remanufacturing, advertising, heavy equipment, construction, and tax liability. These studies cover a variety of economic problems, including extensive analysis and interpretation of survey data.

Submitted this 6th day of July, 2011.

Edward M. Stockton

Edward M. Stockten

## **BMWED TRACK INSPECTION QUESTIONNAIRE**

CORRECT MARK

0

40 MPH

Greater than 40 MPH

- Use a No. 2 pencil or blue or black ink pen only.
- Do not use pens with ink that soaks through the paper.
- Make solid marks that fill the circle completely.

• Make no stray marks on this form.

INCORRECT MARK



	EXPERIENCE & BACKGROUND		
1.	How many years have you been working in the track department?  Less than 5 $5-9$ $10-14$ $15-19$ $20-24$ More than 24	7.	As a track inspector, how would you rate your risk level for discipline or dismissal compared to other positions within the track department?  More at risk  Less at risk  About the same level of risk  TERRITORY
2.	What railroad do you work for?  UP  BNSF  CSXT  NS  KCS  Amtrak  CP  CN  Shortline  Other		What is the distance (in miles) from starting Mile Post to ending Mile Post of the mainline territory you are responsible for inspecting?  Less than 50  50 – 74  75 – 99  100 – 124  125 – 149  More than 150  Is your mainline track primarily:  Single main track
3.	How many years experience do you have as a track inspector?  Less than 5 $5-9$ $10-14$ $15-19$ $20-24$ More than 24	10.	Two main tracks Three main tracks Four or more main tracks  Approximately how many track miles of non-main (yard, siding, secondary) track are you responsible for inspecting? Less than 50 50 – 99
<ol> <li>4.</li> <li>5.</li> </ol>	Are you currently working as a track inspector?  Yes No  No  Do you believe that the FRA should certify track		<ul> <li>100 - 149</li> <li>150 - 199</li> <li>200 - 249</li> <li>250 - 300</li> <li>More than 300</li> </ul>
	inspectors similar to the FRA certification of Locomotive Engineers?  Yes No	11.	What are the estimated percentages of <a href="mainline"><u>mainline</u></a> inspections that you conduct by walking and by highrail <a href="mainling">0% Walking - 100% Highrail</a> <a href="mainling">0% Walking - 90% Highrail</a>
6.	What highrail speed do <u>you</u> believe should not be exceeded in order to conduct a <u>quality and thorough</u> visual track inspection?  5 MPH 10 MPH 15 MPH 20 MPH 25 MPH 30 MPH	12.	<ul> <li>25% Walking - 75% Highrail</li> <li>50% Walking - 50% Highrail</li> <li>75% Walking - 25% Highrail</li> <li>90% Walking - 10% Highrail</li> <li>100% Walking - 0% Highrail</li> </ul> How many main tracks are inspected during one inspection? <ul> <li>1</li> <li>2</li> </ul>

3 4

More than 4

13.	How many Million Gross Tons (MGT) of traffic are	PROCESS
	carried over your <u>mainline</u> territory annually?	
	<ul><li>Less than 50</li></ul>	19. When inspecting by highrail, how many qualified
	○ 50 – 99	inspectors are in the highrail vehicle during routine
	O 100 - 149	main track inspection?
	150 – 199	<b>○</b> 1
	200 – 249	○ 2
	○ 250 – 300	More than 2
	<ul><li>More than 300</li></ul>	
	Don't Know	20. Do you feel the presence of a 2nd qualified inspector
		in the highrail can/does enhance the quality and
14.	Which type of rail <u>primarily</u> makes up your <u>mainline</u>	thoroughness of the inspection?
	territory?	Yes
	<ul><li>Continuous Welded Rail (CWR)</li></ul>	○ No
	○ Jointed Rail	
	<ul> <li>Both Continuous Welded and Jointed Rail</li> </ul>	21. Do you feel the presence of a 2nd qualified inspector
		in the highrail can/does enhance roadway worker
	If welded rail (CWR), approximately how many	on-track safety protection?
	mainline CWR joints are on the territory?	○ Yes
	<ul> <li>Not applicable</li> </ul>	○ No
	Less than 50	
	○ 50 − 99	22. When inspecting by highrail, how do you normally
	○ 100 − 149	request your track occupancy authority from the
	○ 150 − 199	dispatcher?
	<ul><li>200 - 249</li></ul>	Radio
	<ul><li>250 - 299</li></ul>	Phone
	O More than 300	Computer
	William 300	Fax or printer
15	What type of crossties <u>primarily</u> make up your	Other
15.	mainline territory?	
	○ Wood	23. On average, how many hours of main track occupancy
	<ul><li>Concrete</li></ul>	authority do you get to perform your inspection
	<ul><li>Both Wood and Concrete</li></ul>	during an 8 hour tour of duty?
	Other	Less than 2
	Other	2 – 4
16	What is the highest FRA Track Class designation for	04-6
10.	the <u>mainline</u> track you inspect?	○ 6−8
	Class 1	
	Class 2	Not applicable
	Class 3	24. On average, how many times per year does an FRA
	Class 4	track inspector ride with you during an inspection?
	Class 5	0
	Class 6 or above	01
17		$\bigcirc$ 2
17.	Approximately how many switches are you responsible for inspecting at least monthly?	O 3
		O 4
	Mainline Other  Less than 12	○ 5
	12 – 24	O More than 5
	25 – 49	o More than 3
	50 – 74	2E Approximately how many hours nor 9 hour inspection
	75 – 100	25. Approximately how many <u>hours</u> per 8 hour inspection tour do you spend making repairs?
	More than 100 $\bigcirc$	<ul><li>None (I am not responsible for repairs)</li><li>Less than 1</li></ul>
10	Approximately how many grade crossings are on	
10.	Approximately how many grade crossings are on	01
	your mainline territory?	O 2
	O None	O 3
	O 1-5	O Move then 4
	○ 6 − 10 ○ 11 → 20	More than 4
	O 11 – 20	
	O 21 – 30	
	<ul><li>31 – 40</li><li>More than 41</li></ul>	
	V IVIOTE TOAD 4.1	

27. How often are adequate track forces available to correct the defects you find during an inspection?  All of the time Sometimes Rarely Never  28. On average, how many days per week do you normally conduct track inspection?  Less than 1 2 3 3 4 4 5 5 More than 5  29. Does your railroad use Track Geometry Vehicles to supplement visual inspections? Yes No Don't Know If yes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know If yes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know If yes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  Hyes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  Hyes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  Hyes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  Hyes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  Hyes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  Hyes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  Hyes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  Hyes, do you receive reports generated by such automated inspection equipment? Yes No	26.	Do you feel that the time you spend making repairs negatively affects your ability to conduct comprehensive, quality inspections?  Yes  No Not applicable	32.	How often do you receive track inspector training?  Once every year  Once every 2 years  Once every 3 years  Once every 4 years  Less frequently than once every 4 years  Never
Rarely   Never   Set over your territory without incurring overtime?   Yes   No   No   No   No   No   No   No   N	27.	correct the defects you find during an inspection?  All of the time		
28. On awerage, how many days per week do you normally conduct track inspection?  Less than 1  2  3 3  4 5  More than 5  No  29. Does your railroad use Track Geometry Vehicles to supplement visual inspections?  Yes  No  Don't Know  1 1  2 2  36. On average, how many days per week do you when you place slow orders?  Yes  No  Don't Know  Don't Know  16 yes, do you receive reports generated by such automated inspection equipment?  Yes  No  Don't Know  17 yes  No  Don't Know  18 yes, do you receive reports generated by such automated inspection equipment?  Yes  No  Don't Know  19 yes, do you receive reports generated by such automated inspection equipment?  Yes  No  TRAINING  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  TRAINING  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  TRAINING  32. Does your track inspection reports reviewed by management/supervision?  Yes  No  No  No  19 Are your track inspection reports reviewed by management/supervision report track defects on your daily inspection report?  Yes  No  No  No  Supplement visual inspection report track defects or your adily in in another unofficial format?  Yes  No  No  No  19 Are you ever been pressured by management/supervision report track defects or ally or in another unofficial format?  Yes  No  No  If yes, have you ever been told to report track defects or ally or in another unofficial format?  Yes  No  No  No  No  Yes  No  No  No  No  No  No  No  No  No  N		Rarely	33.	get over your territory without incurring overtime?  Yes
Less than 1  1	28.	On average, how many days per week do you	34.	
No   2   3   3   3   4   5   5   5   More than 5   7   7   8   8   10   10   10   10   10   10				
2 3 3 35. Has management/supervision ever removed your slow orders or placed a track back in service without repairing the defective condition?  29. Does your railroad use Track Geometry Vehicles to supplement visual inspections?  29. Does your railroad use Track Geometry Vehicles to supplement visual inspections?  29. Doe't Know  20. Doe't Know  20. Doe't Know  20. Doe't Know  21. Doe't Know  21. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  20. TRAINING  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  22. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  32. Are your track inspection reports reviewed by management/supervision?  33. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  34. No  35. Has management/supervision ever track inspection?  36. On average, how many hours per 40-hour week are you assigned dutes other than track inspection?  37. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  38. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  39. Are your track inspection reports reviewed by management/supervision?  39. Are your track inspection reports reviewed by management/supervision?  39. No  39. Are your track inspection reports r				
35. Has management/supervision ever removed your slow orders or placed a track back in service without repairing the defective condition?  9. Does your railroad use Track Geometry Vehicles to supplement visual inspections?  9. Yes  9. No  1. Don't Know  1. Fyes, do you receive reports generated by such automated inspection equipment?  9. Yes  9. No  1. Don't Know  1. Session of the supervision equipment?  1. Yes  9. No  1. Session of the supervision ever removed your slow orders or placed a track back in service without repairing the defective condition?  9. Yes  9. No  1. Don't Know  1. Session of the supervision equipment?  1. Yes  9. No  1. Session of the supervision ever pemored your slow orders or placed a track back in service without repairing the defective condition?  9. Yes  9. No  1. Session of the supervision?  9. No we wantly hours per 40-hour week are you assigned dutes other than track inspection?  9. No not sess than 4  9. 4 - 7  9. 8 - 11  12 - 16  9. More than 5  9. No  36. On average, how many hours per 40-hour week are you assigned dutes other than track inspection?  None (I am only assigned track inspection?  None (I am only assigned track inspection?  Nor ever been adversely affected due to pressure from a dispatcher rushing you over the track?  9. Yes  9. No  12. Alas your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  9. Yes  9. No  10. Not Sure  40. Have you ever been pressured by management/supervision?  9. No  10. Not Sure  40. Have you ever been told to report track defects orally or in another unofficial format?  9. Yes  9. No  10. No  11. Yes  9. No  12. Or a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  9. No  10. No  11. Or a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector ever been adversely affected by denial of overtime by management/supervision?  9. Yes  9. No  1. Or a scale of 1 – 1		<del>-</del> -		No
slow orders or placed a track back in service without repairing the defective condition?  Yes No Don't know  If yes, do you receive reports generated by such automated inspection equipment? No Don't Know  If yes, do you receive reports generated by such automated inspection equipment visual inspections? No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? No Don't know  If yes, do you receive reports generated by such automated inspection equipment? Yes No  TRAINING  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program? No No  TRAINING  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program? No No Observe the rack? Yes No  Are your track inspection reports reviewed by management/supervision? Yes No No No tyres No No Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report? Yes No If yes, have you ever been told to report track defects orally or in another unofficial format? Yes No If yes, have you ever been told to report track defects orally or in another unofficial format?		<del>-</del>	35.	Has management/supervision ever removed your
O More than 5  29. Does your railroad use Track Geometry Vehicles to supplement visual inspections?  Yes  No  Don't Know  16 yes, do you receive reports generated by such automated inspection equipment?  Yes  No  Don't Know  17 yes  No  Don't Know  18 yes, do you receive reports generated by such automated inspection equipment?  Yes  No  TRAINING  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  TRAINING  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  1		○ 4		
29. Does your railroad use Track Geometry Vehicles to supplement visual inspections?				
29. Does your railroad use <a href="Track Geometry Vehicles">Track Geometry Vehicles</a> to supplement visual inspections?  9 Yes  No  No Don't Know  If yes, do you receive reports generated by such automated inspection equipment?  9 Yes  No  Don't Know  10 Don't Know  11 Don't Know  12 - 16  More than 16  30. Does your railroad use <a href="Gage Restraint Measurement">Gage Restraint Measurement Vehicles (GRMs) to supplement visual inspections?</a> 9 Yes  No  Don't Know  12 - 16  More than 16  37. Has your ability to conduct a quality track inspection ever been adversely affected due to pressure from a dispatcher rushing you over the track?  9 Yes  No  TRAINING  38. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  Yes  No  No  Are your track inspection reports reviewed by management/supervision?  Yes  No  No  Not Sure  40. Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report?  Yes  No  If yes, do you receive reports generated by such automated inspection ever been pressured by management/supervision?  Yes  No  No  No  No  No  No  No  No  No  N		More than 5		
supplement visual inspections?  Yes No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  30. Does your railroad use Gage Restraint Measurement Vehicles (GRMs) to supplement visual inspections? Yes No Don't Know  If yes, do you receive reports generated by such automated inspection equipment visual inspections? Yes No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No TRAINING  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program? Yes No No No Solution  Are your track inspection reports reviewed by management/supervision? Yes No No Not Sure  40. Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report? Yes No No If yes, have you ever been told to report track defects or avoily or in another unofficial format? Yes No If yes, have you ever been told to report track defects or avoily or in another unofficial format?	29.	Does your railroad use Track Geometry Vehicles to		
On't Know On't Know On't Know On't Know On't Know On't Know  If yes, do you receive reports generated by such automated inspection equipment? Oyes No Ones your railroad use Gage Restraint Measurement Yehicles (GRMs) to supplement visual inspections? Oyes No On't Know On't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No TRAINING  38. Has your ability to conduct a quality track inspection ever been adversely affected due to pressure from a dispatcher rushing you over the track? Yes No No  TRAINING  38. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision? Yes No No  TRAINING  39. Are your track inspection reports reviewed by management/supervision? Yes No Not Sure  40. Have you ever been pressured by management/supervision report? Yes No If yes, have you ever been told to report track defects or ally or in another unofficial format? Yes On No If yes, have you ever been told to report track defects or ally or in another unofficial format? Yes				
O Don't Know  If yes, do you receive reports generated by such automated inspection equipment?  Yes  No  No  No  No  No  No  No  No  No  N			36.	
Less than 4   4 - 7     automated inspection equipment?				
If yes, do you receive reports generated by such automated inspection equipment?  Yes  No  No  Dos your railroad use Gage Restraint Measurement Vehicles (GRMs) to supplement visual inspections?  Yes  No  Don't Know  If yes, do you receive reports generated by such automated inspection equipment?  Yes  No  TRAINING  38-11  12-16  More than 16  37. Has your ability to conduct a quality track inspection ever been adversely affected due to pressure from a dispatcher rushing you over the track?  Yes  No  TRAINING  38. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  Yes  No  39. Are your track inspection reports reviewed by management/supervision?  Yes  No  Not Sure  40. Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report?  Yes  No  If yes, have you ever been told to report track defects orally or in another unofficial format?  Yes  No  Yes  No  Training program?  Yes  No  Not Sure		Don't know		
automated inspection equipment?  Yes  No  No  No  No  TRAINING  30. Do a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  1 0 2  1 1 0 2  1 1 0 2  1 1 0 3 3 4  1 2 – 16  More than 16  3 5. Has your ability to conduct a quality track inspection ever been adversely affected due to pressure from a dispatcher rushing you over the track?  Yes  No  No  TRAINING  3 8. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  Yes  No  No  1 9. Are your track inspection reports reviewed by management/supervision?  Yes  No  No  No  1 0 Not Sure  4 0. Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report?  Yes  No  Have you ever been pressured by management/ supervision not to report track defects or ally or in another unofficial format?  Yes  No  If yes, have you ever been told to report track defects orally or in another unofficial format?  Yes		If yes, do you receive reports generated by such		
<ul> <li>No</li> <li>More than 16</li> <li>30. Does your railroad use Gage Restraint Measurement Vehicles (GRMs) to supplement visual inspections? <ul> <li>Yes</li> <li>No</li> <li>Don't Know</li> </ul> </li> <li>If yes, do you receive reports generated by such automated inspection equipment? <ul> <li>Yes</li> <li>No</li> </ul> </li> <li>31. On a scale of 1 − 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program? <ul> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> <li>10</li> </ul> </li> <li>More than 16</li> <li>37. Has your ability to conduct a quality track inspection ever been adversely affected due to pressure from a dispatcher rushing you over the track? <ul> <li>Yes</li> <li>No</li> </ul> </li> <li>38. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision? <ul> <li>Yes</li> <li>No</li> </ul> </li> <li>39. Are your track inspection reports reviewed by management/supervision? <ul> <li>Yes</li> <li>No</li> <li>Not Sure</li> </ul> </li> <li>40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report? <ul> <li>Yes</li> <li>No</li> <li>If yes, have you ever been told to report track defects or ally or in another unofficial format?</li> <li>Yes</li> </ul> </li> </ul>				○ 8-11
30. Does your railroad use Gage Restraint Measurement Vehicles (GRMs) to supplement visual inspections?  Yes  No  Don't Know  If yes, do you receive reports generated by such automated inspection equipment?  Yes  No  TRAINING  31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  10  11  20  No  Not Sure  37. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  Yes  No  No  No  No  Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  Yes  No  No  No  Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  Yes  No  No  No  Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  Yes  No  No  No  Yes  No  No  Not Sure  40. Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report?  Yes  No  If yes, have you ever been told to report track defects orally or in another unofficial format?  Yes				
Vehicles (GRMs) to supplement visual inspections?       ever been adversely affected due to pressure from a dispatcher rushing you over the track?         Yes       Yes         Don't Know       No         If yes, do you receive reports generated by such automated inspection equipment?       8. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?         Yes       No         TRAINING       39. Are your track inspection reports reviewed by management/supervision?         Yes       No         No       Not Sure         4       No         3       40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?         Yes       No         No       Yes         No       If yes, have you ever been told to report track defects orally or in another unofficial format?         Yes		O NO		More than 16
dispatcher rushing you over the track? Yes No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No  TRAINING  38. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision? Yes No  TRAINING  39. Are your track inspection reports reviewed by management/supervision? Yes No Not Sure  40. Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report? Yes No If yes, have you ever been told to report track defects orally or in another unofficial format? Yes Yes No Yes Yes No If yes, have you ever been told to report track defects orally or in another unofficial format? Yes	30.	Does your railroad use <u>Gage Restraint Measurement</u>	37.	Has your ability to conduct a quality track inspection
No Don't Know  If yes, do you receive reports generated by such automated inspection equipment? Yes No  TRAINING  38. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision? Yes No  Yes No  39. Are your track inspection reports reviewed by management/supervision? Yes No  No  No  Have you ever been pressured by management/supervision not to report track defects on your daily inspection report? Yes No  Have you ever been pressured by management/supervision not to report track defects or your daily inspection report? Yes No If yes, have you ever been told to report track defects orally or in another unofficial format? Yes				
Don't Know  If yes, do you receive reports generated by such automated inspection equipment?  Yes  No  TRAINING  38. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  Yes  No  No  1  On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  10  No  No  4  Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  Yes  No  No  4  Have your track inspection reports reviewed by management/supervision?  No  No  Not Sure  40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?  Yes  No  If yes, have you ever been told to report track defects orally or in another unofficial format?  Yes				
If yes, do you receive reports generated by such automated inspection equipment?  Yes  No  TRAINING  38. Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?  Yes  No  39. Are your track inspection reports reviewed by management/supervision?  Yes  No  No  40. Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report?  Yes  No  No  No  Have you ever been told to report track defects orally or in another unofficial format?  Yes				
automated inspection equipment?  Yes  No  TRAINING  39. Are your track inspection reports reviewed by management/supervision?  Yes  No  39. Are your track inspection reports reviewed by management/supervision?  Yes  No  40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?  Yes  No  10  10  40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?  Yes  No  10  Yes  Yes  No  No  No Sure  40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?  Yes  No  Yes  Yes  Yes  Yes  No  Yes  No  If yes, have you ever been told to report track defects orally or in another unofficial format?  Yes				
<ul> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>39. Are your track inspection reports reviewed by management/supervision?</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>Not Sure</li> <li>40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?</li> <li>Yes</li> <li>No</li> <li>Not Sure</li> <li>40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>If yes, have you ever been told to report track defects orally or in another unofficial format?</li> <li>Yes</li> </ul>			38.	
TRAINING  39. Are your track inspection reports reviewed by management/supervision?  No  No  No  No  39. Are your track inspection reports reviewed by management/supervision?  Yes  No  No  Not Sure  40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?  Yes  No  No  Not Sure  40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?  Yes  No  Yes  Yes  No  If yes, have you ever been told to report track defects orally or in another unofficial format?  Yes				
TRAINING  39. Are your track inspection reports reviewed by management/supervision?  No  39. Are your track inspection reports reviewed by management/supervision?  Yes  No  No  No  No  No  No  No  No  No  N				
39. Are your track inspection reports reviewed by management/supervision?  On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program?  O1 O2 O3 O4 O5 O6 O7 O8 O7 O8 O9		TRAINING		
<ul> <li>31. On a scale of 1 – 10 (1 being worst, 10 being best) how would you rate your carrier's track inspector training program? <ul> <li>1</li> <li>2</li> <li>3</li> <li>40. Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?</li> <li>6</li> <li>7</li> <li>8</li> <li>9</li> <li>10</li> </ul> </li> <li>31. On a scale of 1 – 10 (1 being worst, 10 being best) management/supervision? <ul> <li>Yes</li> <li>No</li> <li>No</li> <li>If yes, have you ever been told to report track defects orally or in another unofficial format?</li> <li>Yes</li> </ul> </li> </ul>		IRAINING		
how would you rate your carrier's track inspector training program?  1	21	On a scale of 1 – 10 (1 being worst 10 being best)	39.	
training program?  1 No Not Sure 2 40. Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report? 6 Yes 7 No 1 1 Yes 10 Yes	J1.			
<ul> <li>2</li> <li>3</li> <li>40. Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report?</li> <li>6</li> <li>Yes</li> <li>7</li> <li>No</li> <li>8</li> <li>If yes, have you ever been told to report track defects orally or in another unofficial format?</li> <li>Yes</li> </ul>				
40. Have you ever been pressured by management/ supervision not to report track defects on your daily inspection report?  Yes  No  If yes, have you ever been told to report track defects orally or in another unofficial format?  Yes				<ul><li>Not Sure</li></ul>
supervision not to report track defects on your daily inspection report?  6 Yes  7 No  8 If yes, have you ever been told to report track defects orally or in another unofficial format?  9 Yes			40	Have very averales as are several by many are several.
<ul> <li>5</li> <li>inspection report?</li> <li>Yes</li> <li>7</li> <li>No</li> <li>8</li> <li>If yes, have you ever been told to report track defects</li> <li>9</li> <li>orally or in another unofficial format?</li> <li>Yes</li> </ul>			40.	
<ul> <li>6</li> <li>Yes</li> <li>No</li> <li>8</li> <li>If yes, have you ever been told to report track defects orally or in another unofficial format?</li> <li>Yes</li> </ul>				
<ul> <li>8</li> <li>9</li> <li>orally or in another unofficial format?</li> <li>Yes</li> </ul>		○ 6		Yes
<ul><li>9 orally or in another unofficial format?</li><li>10</li><li>Yes</li></ul>				
○ 10				
				-

## COMMENTS

41.	Please list examples of other types of work you are assigned on your track inspection days that are not related to track inspection: (Please write your comments or thoughts in your own words. Attach an additional sheet if necessary)
42.	Can you identify any constraints which, if removed, would let you do your job better?
43.	Please provide any additional comments or information regarding the challenges or issues you face in your position as a track inspector.

Appendix 1 Page 4

## Page 1 of 10

# Track Inspector Survey All Railroad Employees

# EXPERIENCE & BACKGROUND

Question #

How Many Years have you been working in the track department?

Cumulative Results:

 >24
 >19

 61.92%
 63.03%
 70.16%

What Railroad do you work for?

C)

 BNSF
 CSXT
 NS
 KCS
 Amtrak

 39.25%
 12.20%
 6.87%
 0.00%
 3.99%

UP 28.38%

0.67%

2.88%

CP 2.44%

CN Shortline

How many years experience do you have as a track inspector?

3

 <5</th>
 £-9
 10-14
 15-19
 20-24
 >24

 22.62%
 20.62%
 12.42%
 9.98%
 8.65%
 25.72%

Cumulative Results:

25.72% 34.37% 44.35%

## Page 2 of 10

# All Railroad Employees Track Inspector Survey

Are you currently working as a track inspector?

No 17.37% Yes

82.63%

Do you believe that the FRA should certify track inspectors similar to the FRA certification of Locomotive Engineers?

Yes

No 47.69% 52.31%

What highrail speed do you believe should not be exceeded in order to conduct a quality and thorough visual track inspection?

40 MPH > 40 MPH 5.03% 35 MPH 30 MPH 14.65% 25 MPH 27.69% 20.14% 20 MPH

15 MPH 14.42%

10 MPH 7.78%

5 MPH

1.83%

5.49%

<= 25MPH

<= 20MPH 44.16%

<= 15MPH

<= 10 MPH9.61%

1.83%

<= 5MPH

Cumulative Results:

24.03%

71.85%

As a track inspector, how would you rate your risk level for discipline or dismissal compared to other positions within the track department?

Less at risk More at risk 90.95%

0.44%

About the same level of risk 8.61%

4

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9

Appendix 2 Page 2

## Page 3 of 10

# Track Inspector Survey All Railroad Employees

# TERRITORY

 $\infty$ 

What is the distance (in miles) from the starting Mile Post to ending Mile Post of the mainline territory you are responsible for inspecting?

>150	2.05%
125-149	5.24%
100-124	10.71%
75-99	24.37%
50-74	33.49%
\$0 \$2	24.15%

Cumulative Results

<125	92.71%
<del>\</del> \\ \\ \\ \\ \	82.00%
< <u>75</u>	57.63%
<50	24.15%

Is your mainline track primarily:

6

×	Main	<b>Tracks</b>	4.77%
Three	Main	<b>Tracks</b>	2.27%
Two	Main	<b>Tracks</b>	36.14%
Single	Main	Track	56.82%

Approximately how many track miles of non-main track are you responsible for inspecting?

10

>300	1.11%
250-300	0.88%
200-249	0.66%
150-199	1.99%
100-149	5.09%
50-99	21.24%
<b>650</b>	69.03%

What are the estimated percentages of mainline inspections that you conduct by walking and by highrail? [note: walking/highrail: [x%/y%]

100%/0%	1.12%
75%/25%	1.79%
50%/50%	6.50%
<u>25%/75%</u> <u>50%/50%</u> <u>75%/25%</u> <u>100%/0%</u>	31.39%
	47.53%
0%/100% 10%90%	6.28%

# All Railroad Employees Track Inspector Survey

How many main tracks are inspected during one inspection?

12

**¥**1.13% 3 2.27% **2** 46.49% 45.80%

13

How many Million Gross Tons (MGT) of traffic are carried over your mainline territory annually?

>300 Don't know 8.31% 5.31% 250-300 200-249 3.00% 6.24% 150-199 100-149 10.62% 50-99 16.40% 18.94%

Cumulative Results

<300</p>60.51% <250</p>
55.20% <200</p>
52.19% <150</p>
45.96% <100</p>
35.33% <20</p>
18.94%

Which type of rail primarily makes up your mainline territory?

14

**CWR** and Jointed 18.43% Jointed Rail Continuously Welded Rail (CWR) 76.40%

If CWR, approximately how many mainline CWR joints are on the territory?

300± 6.74% 250-299 200-249 150-199 5.58% 100 - 14911.86% **50-99** 21.40% <<u>50</u> 42.33%

Grouped Results (where applicable)

200+ 14.04% 18.47% 100-199 <100 67.49%

What type of crossties primarily make up your mainline territory?

15

Appendix 2 Page 4

Other 0.00% Wood and Concrete Concrete 74.16% Wood

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## Page 5 of 10

# All Railroad Employees Track Inspector Survey

What is the highest FRA Track Class designation for the mainline track you inspect?

16

	Class 6+	0.00%
	Class 6	4.04%
	Class 5	27.13%
)	Class 4	50.45%
	Class 3	13.45%
)	Class 2	3.36%
	Class 1	1.57%

Approximately how many switches are your responsible for inspecting at least monthly?

17

75-100 6.29% 20.66% 50-74 25-49 39.82% 12-24 22.16% <12 5.39% Mainline

**≥100** 19.52% >100 5.69% 75-100 11.55% **50-74** 11.95% 25-49 17.13% 12-24 19.12% <12</p>
20.72% Other

Approximately how many grade crossings are on your mainline territory?

18

Cumulative Results

## **PROCESS**

When inspecting by highrail, how many qualified inspectors are in the highrail vehicle during routine main track inspection?

## Page 6 of 10

# Track Inspector Survey All Railroad Employees

Do you feel the presence of a 2nd qualified inspector in the highrail can/does enhance the quality and thoroughness of the inspection?

20

 $\frac{\text{Yes}}{75.23\%} \qquad \frac{\text{No}}{24.77\%}$ 

Do you feel the presence of a 2nd qualified inspector in the highrail can/does enhance roadway worker on-track safety protection?

21

<u>Yes No</u> 80.41% 19.59%

When inspecting by highrail, how do you normally request your track occupancy authority from the dispatcher?

22

 Radio
 Phone
 Computer
 Fax or Printer

 69.83%
 4.51%
 25.42%
 0.00%

Other 0.24%

ON average, how many hours of main track occupancy authority do you get to perform your inspection during an 8 hour tour of duty?

23

2-4
4-6
6-8
4.95%
32.88%
47.07%
12.84%

On average, how many times per year does an FRA track inspector ride with you during an inspection?

 0
 1
 2
 3
 4
 5
 6+

 14.97%
 33.11%
 31.29%
 10.43%
 6.35%
 1.59%
 2.27%

## age 7 of 10

# Track Inspector Survey All Railroad Employees

Approximately how many hours per 8 hour inspection tour do you spend making repairs?

25

41	3.60%
ကျ	8.33%
71	30.63%
<del>-</del> 1	33.11%
IJ	19.37%
none	1.80%

3.15%

Cumulative Results

Do you feel that the time you spend making repairs negatively affects your ability to conduct comprehensive, quality inspections?

26

How often are adequate track forces available to correct the defects you find during an inspection?

27

On average how many days per week do you normally conduct track inspection?

28

$$\frac{<1}{0.22\%}$$
 0.22% 4.04% 5.61% 25.34% 58.30% 6.2

Does your railroad use Track Geometry Vehicles to supplement visual inspections?

Don't know	%19.0
No	3.36%
Yes	95.96%

# All Railroad Employees Track Inspector Survey

If yes, do you receive reports generated by such automated inspection equipment?

$$\frac{\text{Yes}}{82.50\%} \frac{\text{No}}{17.50\%}$$

30

Does your railroad use Gage Restraint Measurement Vehicles (GRMs) to supplement visual inspections?

Don't know

If yes, do you receive reports generated by such automated inspection equipment?

## TRAINING

On a scale of 1-10 (1 = worst, 10 = best) how would you rate your carrier's track inspector training program?

10 2.68%

Grouped Results

How often do you receive track inspector training (Every how many years)?

31

Appendix 2 Page 8

## Page 9 of 10

# All Railroad Employees Track Inspector Survey

Grouped results

**Every 3-4 Years** At least every 2 years

Less than every 4 years

12.84%

**OVERSIGHT AND SUPERVISION** 

Do you feel pressured by management/supervision to get over your territory without incurring overtime?

33

No 41.56% 58.44%

Do you get pressure from management/supervision when you place slow orders?

34

No 38.93%  $\frac{\underline{\mathbf{Yes}}}{61.07\%}$  Has management/supervision ever removed your slow orders or placed a track back in service without repairing the defective condition?

35

No 51.89% <u>Yes</u> 34.74%

Don't know

On average, how many hours per 40-hour week are you assigned duties other than track inspection? >16 12-16

11.61%

8.71%

20.31% 8-11 4-7 18.97% 24.55% 15.85% None

Cumulative Results

4<del>+</del> 59.60% 8+ 40.63% 12+ 20.31% >16 11.61%

## Page 10 of 10

# All Railroad Employees Track Inspector Survey

Has your ability to conduct a quality track inspection ever been adversely affected due to pressure from a dispatcher rushing you over the track?

No 26.89%

 $\frac{\mathbf{Yes}}{73.11\%}$ 

Has your ability to conduct a quality track inspection ever been adversely affected by denial of overtime by management/supervision?

41.65%

Are your track inspection reports reviewed by management/supervision?

39

No Not Sure 6.94% 32.44%

<u>Yes</u> 60.63%

Have you ever been pressured by management/supervision not to report track defects on your daily inspection report?

No 70.40%  $\frac{\text{Yes}}{29.60\%}$  If yes, have you ever been told to report track defects orally or in another unofficial format?

Yes

62.79% 37.21%

## **Track Inspector Questionnaire Response Summary All Railroad Employers**

	Number of	Percentage of Respondents Selecting This as Response									
<b>Question</b>	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>
						4.404	<1.00t				
1	449	7.1%	9.6%	13.1%	7.1%	1.1%	61.9%	0.407	0.001	0.70	2.20
2	451	28.4%	39.2%	12.2%	6.9%	0.0%	4.0%	2.4%	2.9%	0.7%	3.3%
3	451	22.6%	20.6%	12.4%	10.0%	8.6%	25.7%				
4	449	82.6%	17.4%								
5	432	52.3%	47.7%				44.604	w w o.c	# 0.0r	2.00	
6	437	1.8%	7.8%	14.4%	20.1%	27.7%	14.6%	5.5%	5.0%	3.0%	
7	453	90.9%	0.4%	8.6%							
8	439	24.1%	33.5%	24.4%	10.7%	5.2%	2.1%				
9	440	56.8%	36.1%	2.3%	4.8%						
10	452	69.0%	21.2%	5.1%	2.0%	0.7%	0.9%	1.1%			
11	446	6.3%	47.5%	31.4%	6.5%	1.8%	1.1%	5.4%			
12	441	45.8%	46.5%	2.3%	4.3%	1.1%					
13	433	18.9%	16.4%	10.6%	6.2%	3.0%	5.3%	8.3%	31.2%		
14 (a)	445	76.4%	5.2%	18.4%							
14 (b)	430	5.6%	42.3%	21.4%	11.9%	5.6%	5.1%	1.4%	6.7%		
15	445	74.2%	6.1%	19.8%	0.0%						
16	446	1.6%	3.4%	13.5%	50.4%	27.1%	4.0%				
17 (Mainline)*	334	5.4%	22.2%	39.8%	20.7%	6.3%	5.7%				
17 (Other)*	251	20.7%	19.1%	17.1%	12.0%	11.6%	19.5%				
18	441	6.1%	6.3%	7.0%	11.6%	17.2%	12.5%	39.2%			
19	436	82.6%	17.2%	0.2%							
20	444	75.2%	24.8%								
21	444	80.4%	19.6%								
22	421	69.8%	4.5%	25.4%	0.0%	0.2%					
23	444	5.0%	32.9%	47.1%	12.8%	2.3%					
24	441	15.0%	33.1%	31.3%	10.4%	6.3%	1.6%	2.3%			
25	444	1.8%	19.4%	33.1%	30.6%	8.3%	3.6%	3.2%			
26	452	53.1%	44.7%	2.2%							
27	451	9.8%	50.3%	34.6%	5.3%						
28	446	0.2%	0.2%	4.0%	5.6%	25.3%	58.3%	6.3%			
29 (a)	446	96.0%	3.4%	0.7%							
29 (b)	440	82.5%	17.5%								
30 (a)	444	71.6%	14.6%	13.7%							
30 (b)	355	75.5%	24.5%								
31	447	11.9%	8.9%	12.1%	9.2%	19.7%	8.1%	12.8%	9.8%	4.9%	2.7%
32	436	25.9%	17.4%	7.8%	5.0%	27.1%	16.7%				
33	450	58.4%	41.6%								
34	447	61.1%	38.9%								
35	449	34.7%	51.9%	13.4%							
36	448	15.8%	24.6%	19.0%	20.3%	8.7%	11.6%				
37	450	73.1%	26.9%								
38	449	41.6%	58.4%								
39	447	60.6%	6.9%	32.4%							
40 (a)	446	29.6%	70.4%								
40 (b)	258	37.2%	62.8%						,		
- (-)	•										

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.

DATA: Questionnaire Response Data File (Magnetic Media). F:\TRIN: SUMM.XLSX:STOT:73:TLTDHT

#### Select Narrative Responses Question 41

"Please list examples of other types of work you are assigned on your track inspection days that are not related to track inspection."

#### Frequent Responses: Additional Duties Causing Delays/Interruptions:

Flagging for weed sprayers
Flagging for contractors
Escorting week sprayers
Escorting contractors
Moving/driving other equipment
Flagging for equipment movement
Support/Piloting rail detector
Assist with repairs when repair crews are shorthanded.

 $SOURCE:\ The\ Fontana\ Group,\ Inc.$ 

DATA: Track Inspector Survey Comment Database.

F:\TRIN RESP.XLS:S41:31:TMNHHH

## **Select Narrative Responses Ouestion 42**

# "Can you identify any constraints which, if removed, would let you do your job better?

#### **Frequent Responses: Constraints Affecting Job Performance:**

Overtime constraints

Management pressure/threats
Independence from roadmaster
Inabiliity to focus on track inspection duties
Insufficient track access
Negative responses to slow orders
Personnel shortages
Excessive age of inspection vehicles
Need for a second inspector/helper
Perceived complexity/inconsistency of rules
Excessive track inspection length
Too much time dedicated to repairs/other tasks
Excessive paperwork

### Select Narrative Responses **Question 43**

"Please provide any additional comments or information regarding the challenges of issues you face in your position as a track inspector."

#### Frequent Responses: Challenges faced as a track inspector:

Pressure to move quickly over track

Fear of termination

Insufficient resources to make track safe

Negative culture surrounding slow orders

Insufficient/infrequent training

Lack of emphasis on preventive maintenance: fixing only "broken" items

Disproportionate blame on track inspectors for bad events

Low pay relative to responsibilities

Threats from management

Excessive repair responsibilities

Poor relationships with roadmasters

Poor coverage for asbsent employees (backlog of defects upon return)

Severe personnel shortages

SOURCE: The Fontana Group, Inc.

DATA: Track Inspector Survey Comment Database.

F:\TRIN RESP.XLS:S43:31:TMNHHH

#### Track Inspector Questionnaire Response Summary Respondents With More Than 24 Years of Experience

	Number of	Percentage of Respondents Selecting This as Response										
<b>Question</b>	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>	
•	116	0.00	0.00	0.00	0.00	0.000	100.00					
1	116	0.0%	0.0%	0.0%	0.0%		100.0%	0.00	0.00/	0.00	2 501	
2	115	23.5%	37.4%	12.2%	13.9%	0.0%	7.0%	0.9%	0.9%	0.9%	3.5%	
3	116	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%					
4	115	88.7%	11.3%									
5	111	57.7%	42.3%	16.400	22 57 61	26.400	10.776	1.00	4.50	0.70		
6	110	2.7%	10.0%	16.4%	22.7%	26.4%	12.7%	1.8%	4.5%	2.7%		
7	116	88.8%	0.0%	11.2%	15.00	<b>7.0</b> 0	4.40/					
8	113	21.2%	30.1%	23.9%	15.0%	5.3%	4.4%					
9	115	57.4%	33.0%	2.6%	7.0%	0.004	0.00	0.00				
10	116	77.6%	15.5%	2.6%	2.6%	0.9%	0.9%	0.0%				
11	115	5.2%	51.3%	33.9%	1.7%	0.9%	0.0%	7.0%				
12	115	45.2%	44.3%	2.6%	5.2%	2.6%						
13	110	25.5%	20.9%	8.2%	4.5%	1.8%	6.4%	10.9%	21.8%			
14 (a)	116	79.3%	4.3%	16.4%								
14 (b)	109	4.6%	33.9%	25.7%	13.8%	6.4%	6.4%	2.8%	6.4%			
15	116	80.2%	8.6%	11.2%	0.0%							
16	116	0.0%	3.4%	19.0%	51.7%	19.0%	6.9%					
17 (Mainline)*	87	2.3%	18.4%	47.1%	20.7%	5.7%	5.7%					
17 (Other)	57	19.3%	21.1%	19.3%	14.0%	14.0%	12.3%					
18	115	7.0%	2.6%	6.1%	7.8%	19.1%	9.6%	47.8%				
19	110	75.5%	23.6%	0.9%								
20	113	69.0%	31.0%									
21	111	73.9%	26.1%									
22	107	73.8%	3.7%	22.4%	0.0%	0.0%						
23	113	2.7%	31.9%	54.9%	8.8%	1.8%						
24	111	14.4%	29.7%	29.7%	11.7%	8.1%	3.6%	2.7%				
25	112	2.7%	13.4%	37.5%	33.9%	7.1%	3.6%	1.8%				
26	115	48.7%	49.6%	1.7%								
27	115	12.2%	53.0%	29.6%	5.2%							
28	115	0.0%	0.0%	6.1%	5.2%	27.0%	57.4%	4.3%				
29 (a)	113	98.2%	0.9%	0.9%								
29 (b)	112	87.5%	12.5%									
30 (a)	111	73.9%	12.6%	13.5%								
30 (b)	91	76.9%	23.1%									
31	112	8.9%	8.9%	12.5%	4.5%	27.7%	4.5%	10.7%	13.4%	6.3%	2.7%	
32	112	23.2%	17.9%	9.8%	6.3%	30.4%	12.5%					
33	115	55.7%	44.3%									
34	115	61.7%	38.3%									
35	113	29.2%	58.4%	12.4%								
36	113	24.8%	24.8%	15.0%	17.7%	7.1%	10.6%					
37	115	65.2%	34.8%									
38	114	37.7%	62.3%									
39	113	65.5%	2.7%	31.9%								
40 (a)	114	31.6%	68.4%									
40 (b)	63	41.3%	58.7%									
\												

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### Track Inspector Questionnaire Response Summary Respondents With 20 - 24 Years of Experience

	Number of	Percentage of Respondents Selecting This as Response											
<b>Question</b>	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>		
,	20	0.007	0.001	0.00/	0.001	2.601	07.40/						
1	39	0.0%	0.0%	0.0%	0.0%	2.6%	97.4%	2.60	2 601	0.00%	7.7%		
2	39	33.3%	33.3%	12.8%	5.1%	0.0%	2.6%	2.6%	2.6%	0.0%	1.1%		
3	39	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%						
4	37	75.7%	24.3%										
5	39	51.3%	48.7%	10.00	06.00	00 7704	7.00	0.60	£ 201	2.60			
6	38	0.0%	7.9%	13.2%	36.8%	23.7%	7.9%	2.6%	5.3%	2.6%			
7	39	94.9%	0.0%	5.1%	<b>5</b> 0.01	E 0.01	0.00						
8	38	34.2%	31.6%	23.7%	5.3%	5.3%	0.0%						
9	38	42.1%	52.6%	2.6%	2.6%								
10	38	81.6%	10.5%	2.6%	2.6%	0.0%	0.0%	2.6%					
11	38	7.9%	57.9%	28.9%	2.6%	2.6%	0.0%	0.0%					
12	38	39.5%	57.9%	2.6%	0.0%	0.0%							
13	38	13.2%	21.1%	13.2%	7.9%	5.3%	0.0%	7.9%	31.6%				
14 (a)	39	76.9%	5.1%	17.9%									
14 (b)	37	5.4%	45.9%	16.2%	8.1%	5.4%	10.8%	0.0%	8.1%				
15	39	76.9%	0.0%	23.1%	0.0%								
16	39	0.0%	2.6%	5.1%	61.5%	28.2%	2.6%						
17 (Mainline)	32	3.1%	12.5%	31.3%	34.4%	6.3%	12.5%						
17 (Other)	19	26.3%	21.1%	26.3%	5.3%	15.8%	5.3%						
18	36	2.8%	2.8%	2.8%	16.7%	27.8%	13.9%	33.3%					
19	38	92.1%	7.9%	0.0%									
20	37	56.8%	43.2%										
21	39	66.7%	33.3%										
22	38	63.2%	5.3%	31.6%	0.0%	0.0%							
23	39	2.6%	35.9%	48.7%	12.8%	0.0%							
24	38	10.5%	39.5%	34.2%	13.2%	2.6%	0.0%	0.0%					
25	38	7.9%	18.4%	34.2%	31.6%	7.9%	0.0%	0.0%					
26	39	51.3%	41.0%	7.7%									
27	39	12.8%	46.2%	30.8%	10.3%								
28	37	0.0%	0.0%	8.1%	2.7%	21.6%	67.6%	0.0%					
29 (a)	38	97.4%	2.6%	0.0%									
29 (b)	37	73.0%	27.0%										
30 (a)	37	75.7%	16.2%	8.1%									
30 (b)	30	73.3%	26.7%										
31	38	23.7%	7.9%	5.3%	2.6%	18.4%	5.3%	13.2%	7.9%	13.2%	2.6%		
32	38	18.4%	18.4%	5.3%	5.3%	39.5%	13.2%						
33	38	55.3%	44.7%										
34	37	51.4%	48.6%										
35	39	38.5%	46.2%	15.4%									
36	39	20.5%	20.5%	15.4%	20.5%	10.3%	12.8%						
37	38	76.3%	23.7%	10.170	20.070								
38	39	46.2%	53.8%										
39	39	48.7%	12.8%	38.5%									
40 (a)	38	28.9%	71.1%	20.270									
40 (a) 40 (b)	22	31.8%	68.2%										
40 (D)	22	31.070	00.270										

#### Track Inspector Questionnaire Response Summary Respondents With 15 - 19 Years of Experience

	Number of	f Percentage of Respondents Selecting This as Response											
Question	Responses	<u>#1</u>	<u>#2</u>	#3	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	#10		
1	45	0.0%	0.0%	0.0%	2.2%	0.0%	97.8%						
2	45	17.8%	33.3%	15.6%	6.7%	0.0%	8.9%	8.9%	0.0%	2.2%	6.7%		
3	45	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%						
4	45	93.3%	6.7%										
5	43	44.2%	55.8%										
6	40	7.5%	10.0%	7.5%	17.5%	37.5%	10.0%	5.0%	0.0%	5.0%			
7	45	95.6%	0.0%	4.4%									
8	44	31.8%	34.1%	15.9%	9.1%	6.8%	2.3%						
9	44	54.5%	31.8%	2.3%	11.4%								
10	45	66.7%	17.8%	11.1%	0.0%	0.0%	4.4%	0.0%					
11	44	9.1%	45.5%	25.0%	4.5%	0.0%	2.3%	13.6%					
12	41	43.9%	41.5%	4.9%	9.8%	0.0%							
13	43	25.6%	16.3%	4.7%	4.7%	4.7%	2.3%	2.3%	39.5%				
14 (a)	44	75.0%	9.1%	15.9%									
14 (b)	42	4.8%	50.0%	11.9%	11.9%	4.8%	2.4%	0.0%	14.3%				
15	41	65.9%	9.8%	24.4%	0.0%								
16	44	2.3%	2.3%	13.6%	54.5%	18.2%	9.1%						
17 (Mainline)	33	9.1%	21.2%	33.3%	18.2%	6.1%	12.1%						
17 (Other)*	21	4.8%	28.6%	14.3%	19.0%	9.5%	23.8%						
18	43	11.6%	14.0%	2.3%	9.3%	11.6%	9.3%	41.9%					
19	39	76.9%	23.1%	0.0%									
20	43	67.4%	32.6%										
21	43	81.4%	18.6%										
22	38	76.3%	10.5%	13.2%	0.0%	0.0%							
23	44	4.5%	38.6%	40.9%	13.6%	2.3%							
24	43	14.0%	34.9%	30.2%	9.3%	9.3%	2.3%	0.0%					
25	44	0.0%	34.1%	34.1%	25.0%	0.0%	2.3%	4.5%					
26	44	50.0%	50.0%	0.0%									
27	45	11.1%	48.9%	33.3%	6.7%								
28	44	0.0%	2.3%	0.0%	6.8%	25.0%	59.1%	6.8%					
29 (a)	45	95.6%	4.4%	0.0%									
29 (b)	42	71.4%	28.6%										
30 (a)	44	75.0%	13.6%	11.4%									
30 (b)	35	60.0%	40.0%					•					
31	44	6.8%	13.6%	4.5%	11.4%	29.5%	11.4%	11.4%	4.5%	6.8%	0.0%		
32	42	28.6%	9.5%	9.5%	7.1%	26.2%	19.0%						
33	44	65.9%	34.1%										
34	44	56.8%	43.2%										
35	44	27.3%	63.6%	9.1%		,							
36	44	15.9%	25.0%	18.2%	25.0%	11.4%	4.5%						
37	44	70.5%	29.5%										
38	44	38.6%	61.4%										
39	44	65.9%	9.1%	25.0%									
40 (a)	41	22.0%	78.0%										
40 (b)	22	54.5%	45.5%										
~ \-/			/-										

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### **Track Inspector Questionnaire Response Summary** Respondents With 10 - 14 Years of Experience

	Number of												
Question	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>		
1	55	0.0%	1.8%	20.0%	12.7%	1.8%	63.6%						
2	56	25.0%	50.0%	8.9%	7.1%	0.0%	1.8%	3.6%	1.8%	0.0%	1.8%		
3	56	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%						
4	56	87.5%	12.5%										
5	52	44.2%	55.8%										
6	54	1.9%	5.6%	13.0%	14.8%	29.6%	24.1%	5.6%	1.9%	3.7%			
7	55	83.6%	3.6%	12.7%									
8	53	24.5%	34.0%	24.5%	9.4%	3.8%	3.8%						
9	56	66.1%	30.4%	1.8%	1.8%								
10	56	66.1%	21.4%	3.6%	1.8%	0.0%	1.8%	5.4%					
11	54	1.9%	46.3%	31.5%	14.8%	1.9%	3.7%	0.0%					
12	54	61.1%	29.6%	3.7%	3.7%	1.9%							
13	53	22.6%	18.9%	5.7%	7.5%	5.7%	5.7%	7.5%	26.4%				
14 (a)	54	77.8%	3.7%	18.5%									
14 (b)	52	5.8%	46.2%	15.4%	15.4%	3.8%	3.8%	0.0%	9.6%				
15	53	79.2%	7.5%	13.2%	0.0%								
16	55	1.8%	5.5%	21.8%	52.7%	18.2%	0.0%						
17 (Mainline)*	43	2.3%	30.2%	37.2%	20.9%	2.3%	7.0%						
17 (Other)	32	31.3%	18.8%	15.6%	3.1%	6.3%	25.0%						
18	55	1.8%	7.3%	7.3%	16.4%	5.5%	9.1%	52.7%					
19	55	85.5%	14.5%	0.0%									
20	55	78.2%	21.8%										
21	55	85.5%	14.5%										
22	52	69.2%	5.8%	23.1%	0.0%	1.9%							
23	55	9.1%	25.5%	47.3%	16.4%	1.8%							
24	55	20.0%	36.4%	34.5%	7.3%	1.8%	0.0%	0.0%					
25	54	0.0%	22.2%	31.5%	24.1%	13.0%	5.6%	3.7%					
26	56	51.8%	44.6%	3.6%									
27	54	5.6%	48.1%	38.9%	7.4%								
28	54	0.0%	0.0%	1.9%	3.7%	27.8%	61.1%	5.6%					
29 (a)	56	94.6%	5.4%	0.0%									
29 (b)	55	83.6%	16.4%				•						
30 (a)	56	66.1%	16.1%	17.9%									
30 (b)	43	76.7%	23.3%										
31	56	7.1%	12.5%	16.1%	12.5%	12.5%	10.7%	21.4%	3.6%	1.8%	1.8%		
32	53	34.0%	15.1%	7.5%	5.7%	24.5%	13.2%						
33	55	54.5%	45.5%										
34	55	43.6%	56.4%										
35	56	32.1%	57.1%	10.7%									
36	56	8.9%	30.4%	21.4%	16.1%	8.9%	14.3%						
37	56	66.1%	33.9%										
38	54	48.1%	51.9%										
39	55	52.7%	5.5%	41.8%									
40 (a)	56	25.0%	75.0%										
40 (b)	30	23.3%	76.7%										

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### Track Inspector Questionnaire Response Summary Respondents With 5 - 9 Years of Experience

	Number of	Percentage of Respondents Selecting This as Response										
<b>Question</b>	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>	
					40 (0)	• • •	***					
1	92	0.0%	16.3%	32.6%	19.6%	2.2%	29.3%	1 101	0.00	0.00	2.201	
2	93	37.6%	35.5%	14.0%	4.3%	0.0%	2.2%	1.1%	2.2%	0.0%	3.2%	
3	93	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%					
4	92	81.5%	18.5%									
5	91	47.3%	52.7%									
6	93	1.1%	5.4%	15.1%	18.3%	25.8%	15.1%	11.8%	6.5%	1.1%		
7	93	91.4%	0.0%	8.6%								
8	89	22.5%	38.2%	20.2%	11.2%	6.7%	1.1%					
9	88	59.1%	36.4%	0.0%	4.5%							
10	93	64.5%	24.7%	7.5%	1.1%	2.2%	0.0%	0.0%				
11	93	7.5%	41.9%	30.1%	11.8%	3.2%	1.1%	4.3%				
12	90	46.7%	47.8%	0.0%	4.4%	1.1%						
13	87	14.9%	11.5%	16.1%	6.9%	0.0%	6.9%	6.9%	36.8%			
14 (a)	90	70.0%	6.7%	23.3%								
14 (b)	90	7.8%	43.3%	23.3%	11.1%	6.7%	3.3%	1.1%	3.3%			
15	92	75.0%	4.3%	20.7%	0.0%							
16	90	2.2%	4.4%	8.9%	48.9%	33.3%	2.2%					
17 (Mainline)	63	4.8%	20.6%	44.4%	20.6%	6.3%	3.2%					
17 (Other)	57	19.3%	21.1%	12.3%	12.3%	10.5%	24.6%					
18	92	8.7%	7.6%	6.5%	9.8%	18.5%	16.3%	32.6%				
19	90	82.2%	17.8%	0.0%								
20	92	82.6%	17.4%									
21	92	87.0%	13.0%									
22	85	58.8%	4.7%	36.5%	0.0%	0.0%						
23	91	4.4%	31.9%	50.5%	11.0%	2.2%						
24	92	12.0%	31.5%	33.7%	13.0%	6.5%	1.1%	2.2%				
25	91	1.1%	24.2%	26.4%	29.7%	7.7%	5.5%	5.5%				
26	93	61.3%	38.7%	0.0%								
27	93	10.8%	47.3%	36.6%	5.4%							
28	92	1.1%	0.0%	3.3%	6.5%	23.9%	55.4%	9.8%				
29 (a)	90	93.3%	4.4%	2.2%								
29 (b)	92	87.0%	13.0%									
30 (a)	93	68.8%	20.4%	10.8%								
30 (b)	73	78.1%	21.9%									
31	92	9.8%	5.4%	16.3%	14.1%	15.2%	7.6%	10.9%	13.0%	2.2%	5.4%	
32	91	24.2%	22.0%	8.8%	4.4%	25.3%	15.4%					
33	93	66.7%	33.3%									
34	93	72.0%	28.0%								*	
35	92	45.7%	43.5%	10.9%								
36	91	13.2%	19.8%	23.1%	24.2%	6.6%	13.2%					
37	93	74.2%	25.8%									
38	93	50.5%	49.5%									
39	92	60.9%	9.8%	29.3%								
40 (a)	92	35.9%	64.1%									
40 (b)	62	33.9%	66.1%									
• •												

# **Track Inspector Questionnaire Response Summary Respondents With Less Than 5 Years of Experience**

	Number of	Percentage of Respondents Selecting This as Response										
<b>Question</b>	Responses	#1	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>	
1	101	21 707	26.7%	17.8%	5.9%	1.0%	16.8%					
1	101	31.7%	44.1%	9.8%	2.0%	0.0%	2.0%	2.0%	7.8%	1.0%	1.0%	
2	102	30.4%			0.0%	0.0%	0.0%	2.070	7.070	1.070	1.070	
3	102	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%					
4	102	71.6%	28.4%									
5	95	60.0%	40.0%	15 001	16 907	26 701	15.8%	5.0%	7.9%	4.0%		
6	101	0.0%	7.9%	15.8%	16.8%	26.7%	13.6%	3.0%	1.970	4.0%		
7	102	93.1%	0.0%	6.9%	0.007	4 0.0%	0.0%					
8	100	22.0%	33.0%	32.0%	9.0%	4.0%	0.0%					
9	96	55.2%	38.5%	4.2% 5.0%	2.1% 3.0%	0.0%	0.0%	1.0%				
10	101	60.4%	30.7%		5.0%	2.0%	1.0%	6.0%				
11	100	7.0%	46.0%	33.0%			1.0%	0.0%				
12	100	41.0%	54.0%	2.0%	3.0%	0.0%	6 10%	10.1%	35.4%			
13	99	12.1%	13.1%	12.1%	7.1%	4.0%	6.1%	10.170	33,470			
14 (a)	99	78.8%	4.0%	17.2%	10.207	5 O.01	5 201	2.107	4 10/			
14 (b)	97	5.2%	44.3%	23.7%	10.3%	5.2%	5.2%	2.1%	4.1%			
15	101	66.3%	5.0%	28.7%	0.0%	20.40	2.00					
16	99	3.0%	2.0%	8.1%	44.4%	39.4%	3.0%					
17 (Mainline)*	74	10.8%	28.4%	35.1%	14.9%	9.5%	1.4%					
17 (Other)	63	22.2%	12.7%	19.0%	12.7%	11.1%	22.2%	20.00				
18	97	3.1%	7.2%	11.3%	14.4%	18.6%	15.5%	29.9%				
19	101	88.1%	11.9%	0.0%								
20	101	83.2%	16.8%									
21	. 101	83.2%	16.8%	22 70	0.00	0.001						
22	98	74.5%	2.0%	23.5%	0.0%	0.0%						
23	99	7.1%	33.3%	38.4%	17.2%	4.0%	4.00	<b>~</b> 000				
24	100	18.0%	33.0%	29.0%	8.0%	6.0%	1.0%	5.0%				
25	102	1.0%	14.7%	34.3%	32.4%	11.8%	2.9%	2.9%				
26	102	52.9%	44.1%	2.9%								
27	102	6.9%	54.9%	37.3%	1.0%		<b>=</b> 0.104	- ^~				
28	101	0.0%	0.0%	4.0%	5.9%	23.8%	58.4%	7.9%				
29 (a)	101	96.0%	4.0%	0.0%								
29 (b)	99	80.8%	19.2%									
30 (a)	100	72.0%	10.0%	18.0%								
30 (b)	80	78.8%	21.3%							• • • •	• • •	
31	102	16.7%	8.8%	11.8%	8.8%	15.7%	10.8%	11.8%	9.8%	3.9%	2.0%	
32	97	26.8%	17.5%	5.2%	3.1%	22.7%	24.7%					
33	102	53.9%	46.1%									
34	100	65.0%	35.0%									
35	102	32.4%	48.0%	19.6%								
36	102	10.8%	27.5%	18.6%	20.6%	10.8%	11.8%					
37	101	84.2%	15.8%									
38	102	33.3%	66.7%									
39	101	61.4%	5.9%	32.7%								
40 (a)	102	27.5%	72.5%									
40 (b)	58	39.7%	60.3%									

st Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.

DATA: Questionnaire Response Data File (Magnetic Media).

F:\TRIN: SUMM.XLSX:SL5:73:TLIIHT

#### **Track Inspector Questionnaire Response Summary Union Pacific**

	Number of	of Percentage of Respondents Selecting This as Response											
Question	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	<u>#10</u>		
1	127	5.5%	11.8%	22.0%	5.5%	0.8%	54.3%						
$\stackrel{\circ}{2}$	128	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
3	128	24.2%	27.3%	10.9%	6.3%	10.2%	21.1%	0.070	0.076	0.070	0.070		
4	127	64.6%	35.4%	10.5 %	0.5 70	10.270	211170						
5	123	52.8%	47.2%										
6	126	0.0%	7.9%	21.4%	22.2%	26.2%	16.7%	1.6%	2.4%	1.6%			
7	128	90.6%	0.8%	8.6%		-070	2011/0	*****		1.070			
8	126	9.5%	27.0%	33.3%	15.9%	8.7%	5.6%						
9	124	54.8%	37.9%	4.0%	3.2%	017 70	21070						
10	128	53.9%	30.5%	7.8%	3.9%	1.6%	1.6%	0.8%					
11	128	6.3%	46.9%	35.2%	8.6%	2.3%	0.0%	0.8%					
12	126	41.3%	53.2%	1.6%	2.4%	1.6%	0,0,0	0.070					
13	121	10.7%	7.4%	8.3%	10.7%	1.7%	5.0%	15.7%	40.5%				
14 (a)	127	72.4%	3.9%	23.6%									
14 (b)	123	4.9%	35.0%	23.6%	11.4%	8.9%	4.9%	1.6%	9.8%				
15	128	71.1%	7.0%	21.9%	0.0%								
16	128	1.6%	0.0%	11.7%	35.2%	50.8%	0.8%						
17 (Mainline)*	93	1.1%	22.6%	33.3%	25.8%	12.9%	4.3%						
17 (Other)	73	19.2%	20.5%	16.4%	8.2%	13.7%	21.9%						
18	124	1.6%	1.6%	7.3%	11.3%	20.2%	13.7%	44.4%					
19	127	98.4%	1.6%	0.0%									
20	126	73.8%	26.2%										
21	126	77.8%	22.2%										
22	113	37.2%	2.7%	60.2%	0.0%	0.0%							
23	127	0.8%	19.7%	61.4%	18.1%	0.0%							
24	126	7.1%	33.3%	36.5%	9.5%	8.7%	2.4%	2.4%					
25	126	1.6%	15.9%	36.5%	30.2%	9.5%	2.4%	4.0%					
26	128	53.9%	43.0%	3.1%									
27	127	8.7%	52.0%	35.4%	3.9%								
28	127	0.8%	0.8%	1.6%	2.4%	13.4%	78.7%	2.4%					
29 (a)	126	93.7%	4.8%	1.6%									
29 (b)	126	79.4%	20.6%										
30 (a)	126	57.9%	20.6%	21.4%									
30 (b)	90	63.3%	36.7%										
31	128	7.8%	3.9%	13.3%	12.5%	18.0%	9.4%	15.6%	8.6%	7.0%	3.9%		
32	120	27.5%	20.8%	5.0%	3.3%	35.0%	8.3%						
33	128	73.4%	26.6%										
34	128	74.2%	25.8%										
35	126	40.5%	41.3%	18.3%									
36	123	17.9%	30.9%	21.1%	17.9%	4.9%	7.3%						
37	128	73.4%	26.6%										
38	127	51.2%	48.8%										
39	126	50.8%	8.7%	40.5%									
40 (a)	126	33.3%	66.7%										
40 (b)	82	42.7%	57.3%										

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### Track Inspector Questionnaire Response Summary Burlington Northern Santa Fe

	Number of		F	Percentag	e of Resp	ondents	Selecting	This as l	Response		
<b>Question</b>	Responses	#1	<u>#2</u>	#3	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	<u>#10</u>
	450	0.40	0.0~	1100	44.4~		#0 #or				
1	176	9.1%	8.0%	11.9%	11.4%	1.1%	58.5%	0.00	0.00	0.00	0.00
2	177	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3	177	25.4%	18.6%	15.8%	8.5%	7.3%	24.3%				
4	177	84.2%	15.8%								
5	167	52.1%	47.9%	7.50	12.00	22.00	10.40	10.20	7 501	5.00	
6	174	0.0%	5.2%	7.5%	13.2%	32.8%	18.4%	10.3%	7.5%	5.2%	
7	176	93.2%	0.6%	6.3%	0.00	0.50	1.00				
8	171	20.5%	44.4%	20.5%	9.9%	3.5%	1.2%				
9	173	62.4%	34.7%	0.0%	2.9%	0.00	1 107	0.60			
10	175	78.3%	16.6%	3.4%	0.0%	0.0%	1.1%	0.6%			
11	174	3.4%	47.1%	35.1%	7.5%	1.1%	1.1%	4.6%			
12	173	54.3%	41.0%	1.7%	1.7%	1.2%	770	<b>5</b> 001	21.20/		
13	169	20.7%	17.2%	15.4%	6.5%	5.3%	7.7%	5.9%	21.3%		
14 (a)	173	80.9%	5.8%	13.3%	0.00	2.00/	2.60	1.00/	1.00/		
14 (b)	167	4.2%	58.1%	19.2%	9.6%	3.0%	3.6%	1.2%	1.2%		
15	175	70.9%	3.4%	25.7%	0.0%	27.60	0.007				
16	174	1.7%	2.9%	9.8%	58.0%	27.6%	0.0%				
17 (Mainline)*	129	3.9%	24.8%	46.5%	17.8%	3.9%	3.1%				
17 (Other)	103	29.1%	25.2%	18.4%	14.6%	3.9%	8.7%	42.00			
18	174	1.1%	6.3%	7.5%	13.2%	16.7%	13.2%	42.0%			
19	174	86.2%	13.8%	0.0%							
20	176 175	72.2%	27.8%								
21	173	77.7%	22.3%	10.00%	0.0%	0.6%					
22 23	174	78.2% 6.4%	2.3% 38.2%	19.0% 40.5%	13.9%	1.2%					
23 24	173	16.2%	41.0%	30.1%	5.2%	4.6%	0.6%	2.3%			
25 25	173	10.2%	16.3%	32.0%	34.3%	9.3%	3.5%	2.5%			
25 26	172	58.8%	39.0%	2.3%	34.3%	9.570	3.5%	2.970			
20 27	176	5.1%	52.3%	35.8%	6.8%						
28	173	0.0%	0.0%	1.2%	5.2%	26.0%	54.9%	12.7%			
	175	96.6%	2.8%	0.6%	3,270	20.0%	34.9%	12.170			
29 (a) 29 (b)	170	90.0%	2.8 <i>%</i> 8.7 <i>%</i>	0.0%							
	174	81.6%	8.6%	9.8%							
30 (a) 30 (b)	149	85.9%	14.1%	9.070							
31	175	13.1%	12.6%	12.6%	9.7%	17.7%	6.9%	11.4%	11.4%	3.4%	1.1%
32	173	21.6%	19.9%	8.2%	7.0%	25.1%	18.1%	11.470	11.470	3.470	1.170
33	171	48.6%	51.4%	0.270	7.070	23.170	10.170				
34	175	60.0%	40.0%								
35	176	30.7%	56.8%	12.5%							
36	177	11.9%	19.8%	19.8%	23.7%	14.1%	10.7%				
37	177	79.7%	20.3%	12.0/0	20.1 10	17.1 /0	10.770				
38	177	38.9%	61.1%								
39	175	58.0%	6.3%	35.8%							
40 (a)	177	26.6%	73.4%	33.070							
40 (a) 40 (b)	99	34.3%	65.7%								
TO (U)	99	57.5 /0	03.170								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### **Track Inspector Questionnaire Response Summary CSX**

	Number of	Percentage of Respondents Selecting This as Response											
<b>Question</b>	Responses	<u>#1</u>	<u>#2</u>	#3	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>		
1	55	12.7%	9.1%	10.9%	1.8%	1.8%	63.6%						
2	55	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
3	54	18.5%	24.1%	9.3%	13.0%	9.3%	25.9%						
4	54	94.4%	5.6%										
5	54	59.3%	40.7%										
6	53	3.8%	1.9%	15.1%	30.2%	26.4%	7.5%	1.9%	9.4%	3.8%			
7	55	92.7%	0.0%	7.3%									
8	53	32.1%	24.5%	28.3%	9.4%	5.7%	0.0%						
9	53	58.5%	39.6%	1.9%	0.0%								
10	55	63.6%	25.5%	1.8%	3.6%	1.8%	0.0%	3.6%					
11	54	3.7%	64.8%	18.5%	3.7%	1.9%	3.7%	3.7%					
12	54	46.3%	50.0%	1.9%	1.9%	0.0%							
13	54	24.1%	27.8%	11.1%	1.9%	3.7%	5.6%	5.6%	20.4%				
14 (a)	54	74.1%	9.3%	16.7%									
14 (b)	52	5.8%	34.6%	11.5%	11.5%	7.7%	7.7%	3.8%	17.3%				
15	53	84.9%	0.0%	15.1%	0.0%								
16	53	3.8%	3.8%	20.8%	64.2%	7.5%	0.0%				•		
17 (Mainline)*	35	14.3%	14.3%	48.6%	11.4%	5.7%	5.7%						
17 (Other)	28	3.6%	10.7%	10.7%	17.9%	21.4%	35.7%						
18	54	7.4%	13.0%	9.3%	11.1%	18.5%	5.6%	35.2%					
19	54	81.5%	16.7%	1.9%									
20	54	75.9%	24.1%										
21	54	81.5%	18.5%										
22	53	100.0%	0.0%	0.0%	0.0%	0.0%							
23	53	9.4%	30.2%	41.5%	13.2%	5.7%							
24	54	24.1%	18.5%	24.1%	24.1%	5.6%	1.9%	1.9%					
25	54	0.0%	16.7%	24.1%	35.2%	11.1%	7.4%	5.6%					
26	55	54.5%	45.5%	0.0%									
27	55	5.5%	47.3%	40.0%	7.3%								
28	54	0.0%	0.0%	9.3%	5.6%	40.7%	40.7%	3.7%					
29 (a)	53	96.2%	3.8%	0.0%									
29 (b)	53	83.0%	17.0%										
30 (a)	55	85.5%	12.7%	1.8%									
30 (b)	48	81.3%	18.8%										
31	55	5.5%	5.5%	12.7%	7.3%	32.7%	5.5%	18.2%	9.1%	1.8%	1.8%		
32	55	34.5%	10.9%	5.5%	9.1%	29.1%	10.9%						
33	53	60.4%	39.6%										
34	54	57.4%	42.6%										
35	55	52.7%	36.4%	10.9%									
36	55	21.8%	27.3%	12.7%	23.6%	9.1%	5.5%						
37	54	63.0%	37.0%										
38	55	32.7%	67.3%										
39	55	65.5%	3.6%	30.9%									
40 (a)	55	34.5%	65.5%										
40 (b)	34	35.3%	64.7%										

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F;\TRIN: SUMM.XLSX:SCSX:73:TLTDHT

#### **Track Inspector Questionnaire Response Summary Norfolk Southern**

	Number of		P	ercentag	ge of Resp	ondents	Selecting	This as I	Response		
Question	Responses	#1	<u>#2</u>	<u>#3</u>	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>
1	31	3.2%	0.0%	0.0%	3.2%	0.0%	93.5%	0.00	0.00	0.004	0.004
2	31	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3	31	6.5%	12.9%	12.9%	9.7%	6.5%	51.6%				
4	30	96.7%	3.3%								
5	30	46.7%	53.3%	10.50	25.06	22.29	1.4.0.07	71 401	0.007	0.00	
6	27	0.0%	11.1%	18.5%	25.9%	22.2%	14.8%	7.4%	0.0%	0.0%	
7	31	83.9%	0.0%	16.1%	11 10/	0.70	0.007				
8	27	33.3%	22.2%	29.6%	11.1%	3.7%	0.0%				
9	29	51.7%	48.3%	0.0%	0.0%	0.00	0.00	2.001			
10	31	58.1%	22.6%	9.7%	6.5%	0.0%	0.0%	3.2%			
11	30	3.3%	53.3%	36.7%	3.3%	3.3%	0.0%	0.0%			
12	30	23.3%	73.3%	0.0%	3.3%	0.0%	2.60	7 10	05.00		
13	28	32.1%	28.6%	0.0%	3.6%	0.0%	3.6%	7.1%	25.0%		
14 (a)	30	83.3%	0.0%	16.7%	20.70	2.40	10.20	0.00	10.207		
14 (b)	29	6.9%	24.1%	24.1%	20.7%	3.4%	10.3%	0.0%	10.3%		
15	30	100.0%	0.0%	0.0%	0.0%	2.407	0.001				
16	29	0.0%	6.9%	27.6%	62.1%	3.4%	0.0%				
17 (Mainline)	25	0.0%	12.0%	32.0%	44.0%	0.0%	12.0%				
17 (Other)	18	5.6%	0.0%	22.2%	11.1%	22.2%	38.9%	44.00			
18	29	3.4%	3.4%	3.4%	10.3%	13.8%	20.7%	44.8%			
19	29	13.8%	86.2%	0.0%							
20	29	86.2%	13.8%								
21	29	96.6%	3.4%	0.00	0.00	0.00					
22	30	96.7%	3.3%	0.0%	0.0%	0.0%					
23	31	0.0%	51.6%	38.7%	3.2%	6.5%		2.4~			
24	29	20.7%	17.2%	24.1%	17.2%	10.3%	6.9%	3.4%			
25	30	0.0%	26.7%	43.3%	16.7%	6.7%	6.7%	0.0%			
26	29	37.9%	62.1%	0.0%							
27	30	26.7%	40.0%	26.7%	6.7%						
28	30	0.0%	0.0%	10.0%	6.7%	26.7%	53.3%	3.3%			
29 (a)	29	93.1%	6.9%	0.0%							
29 (b)	26	69.2%	30.8%								
30 (a)	27	59.3%	11.1%	29.6%							
30 (b)	19	68.4%	31.6%								
31	26	23.1%	3.8%	3.8%	3.8%	30.8%	7.7%	0.0%	19.2%	3.8%	3.8%
32	27	55.6%	0.0%	0.0%	0.0%	14.8%	29.6%				
33	29	34.5%	65.5%								
34	28	46.4%	53.6%								
35	29	20.7%	69.0%	10.3%		<b>.</b>					
36	30	13.3%	26.7%	13.3%	13.3%	6.7%	26.7%				
37	28	71.4%	28.6%								
38	29	34.5%	65.5%								
39	27	74.1%	7.4%	18.5%							
40 (a)	28	35.7%	64.3%								
40 (b)	16	43.8%	56.3%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F;\TRIN: SUMM.XLSX:SNS:73:TLTDHT

#### **Track Inspector Questionnaire Response Summary Amtrak**

	Number of		I	Percentag	e of Resi	ondents	Selecting	This as l	Response		
Question	Responses	#1	<u>#2</u>	#3	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	<u>#10</u>
	4.0	0.004	# co	4.4.4	0.00	2 2 2	00.00				
1	18	0.0%	5.6%	11.1%	0.0%	0.0%	83.3%	0.00	0.00	0.00	0.00
2	18	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%
3	18	11.1%	11.1%	5.6%	22.2%	5.6%	44.4%				
4	17	100.0%	0.0%								
5	17	41.2%	58.8%	11 107	22.201	F 601	0.00	0.00	# CO1	0.00	
6	18	27.8%	27.8%	11.1%	22.2%	5.6%	0.0%	0.0%	5.6%	0.0%	
7	18	72.2%	0.0%	27.8%	0.000	0.00	0.00				
8	18	94.4%	0.0%	5.6%	0.0%	0.0%	0.0%				
9	18	0.0%	22.2%	16.7%	61.1%	0.007	0.00	0.00			
10	18	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
11	18	0.0%	0.0%	11.1%	11.1%	5.6%	5.6%	66.7%			
12	18	11.1%	16.7%	16.7%	55.6%	0.0%	0.00	F ( 0)	00.00		
13	18	0.0%	5.6%	0.0%	0.0%	0.0%	0.0%	5.6%	88.9%		
14 (a)	18	77.8%	0.0%	22.2%	( 201	( 201	0.00	0.001	0.007		
14 (b)	16	12.5%	56.3%	18.8%	6.3%	6.3%	0.0%	0.0%	0.0%		
15	18	0.0%	66.7%	33.3%	0.0%	E ( 01	04.40				
16	18	0.0%	0.0%	0.0%	0.0%	5.6%	94.4%				
17 (Mainline) 17 (Other)	15	20.0%	46.7%	26.7%	0.0%	0.0%	6.7%				
, ,	3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00/			
18 19	18	83.3%	11.1%	5.6%	0.0%	0.0%	0.0%	0.0%			
	12	16.7%	83.3%	0.0%							
20	14	92.9%	7.1%								
21 22	15 12	86.7%	13.3%	0.00/	0.00	0.00/					
23		100.0%	0.0%	0.0%	0.0%	0.0%					
23 24	16 15	18.8%	18.8%	50.0%	0.0%	12.5%	0.00/	0.0%			
24 25	18	26.7%	40.0%	33.3%	0.0%	0.0%	0.0%				
25 26		11.1%	33.3%	44.4%	11.1%	0.0%	0.0%	0.0%			
20 27	18	22.2%	66.7%	11.1%	0.007						
28	18 18	27.8% 0.0%	55.6% 0.0%	16.7% 5.6%	$0.0\% \\ 0.0\%$	44.4%	50.0%	0.0%			
26 29 (a)	18	100.0%	0.0%	0.0%	0.0%	44.4%	30.0%	0.0%			
29 (a) 29 (b)	18	77.8%	22.2%	0.0%							
				22.20%							
30 (a)	18 13	61.1% 53.8%	16.7% 46.2%	22.2%							
30 (b) 31	18	0.0%	11.1%	11.1%	0.0%	5 60%	16 70%	22.20%	5.6%	22.20%	5 601
32	18	11.1%	0.0%	50.0%	5.6%	5.6% 16.7%	16.7% 16.7%	22.2%	3.0%	22.2%	5.6%
33	18	27.8%	72.2%	30.0%	3.0%	10.770	10.7%				
34	18	33.3%									
35	18	55.5% 5.6%	66.7%	0.0%							
36		38.9%	94.4% 33.3%		0.00%	0.00%	11 10%				
30 37	18	38.9% 38.9%		16.7%	0.0%	0.0%	11.1%				
38	18 18	38.9% 11.1%	61.1% 88.9%								
36 39	18	94.4%	0.0%	5.6%							
39 40 (a)	18	94.4% 22.2%	0.0% 77.8%	3.0%							
	7										
40 (b)	1	42.9%	57.1%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).

F:\TRIN: SUMM.XLSX:SAMT:73:TLTDHT

#### **Track Inspector Questionnaire Response Summary Canadian Pacific**

	Number of	Percentage of Respondents Selecting This as Response											
Question	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	<u>#10</u>		
1	11	0.0%	0.0%	0.0%	9.1%	0.0%	90.9%						
2	11	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%	0.0%	0.0%	0.0%		
3	11	18.2%	9.1%	18.2%	36.4%	9.1%	9.1%						
4	11	100.0%	0.0%										
5	11	18.2%	81.8%										
6	11	0.0%	9.1%	9.1%	27.3%	45.5%	0.0%	9.1%	0.0%	0.0%			
7	11	90.9%	0.0%	9.1%	0.00	0.404	0.004						
8	11	27.3%	63.6%	0.0%	0.0%	9.1%	0.0%						
9	11	72.7%	27.3%	0.0%	0.0%	0.004	0.004						
10	11	72.7%	18.2%	9.1%	0.0%	0.0%	0.0%	0.0%					
11	11	27.3%	18.2%	54.5%	0.0%	0.0%	0.0%	0.0%					
12	11	63.6%	36.4%	0.0%	0.0%	0.0%	0.00	0.00	26.466				
13	11	36.4%	18.2%	9.1%	0.0%	0.0%	0.0%	0.0%	36.4%				
14 (a)	11	63.6%	9.1%	27.3%	40.0~	0.004		0.004					
14 (b)	11	9.1%	27.3%	18.2%	18.2%	0.0%	18.2%	0.0%	9.1%				
15	11	100.0%	0.0%	0.0%	0.0%								
16	11	0.0%	9.1%	18.2%	72.7%	0.0%	0.0%						
17 (Mainline)	10	10.0%	40.0%	30.0%	10.0%	10.0%	0.0%						
17 (Other)	8	12.5%	25.0%	12.5%	0.0%	25.0%	25.0%						
18	10	0.0%	10.0%	0.0%	10.0%	30.0%	30.0%	20.0%					
19	11	90.9%	9.1%	0.0%									
20	11	63.6%	36.4%										
21	11	81.8%	18.2%										
22	11	100.0%	0.0%	0.0%	0.0%	0.0%							
23	11	0.0%	18.2%	81.8%	0.0%	0.0%							
24	11	9.1%	18.2%	63.6%	9.1%	0.0%	0.0%	0.0%					
25	11	0.0%	54.5%	9.1%	36.4%	0.0%	0.0%	0.0%					
26	11	36.4%	63.6%	0.0%									
27	11	36.4%	63.6%	0.0%	0.0%								
28	10	0.0%	0.0%	10.0%	0.0%	20.0%	70.0%	0.0%					
29 (a)	11	100.0%	0.0%	0.0%									
29 (b)	11	72.7%	27.3%										
30 (a)	11	72.7%	9.1%	18.2%									
30 (b)	8	75.0%	25.0%										
31	11	18.2%	0.0%	18.2%	9.1%	36.4%	18.2%	0.0%	0.0%	0.0%	0.0%		
32	11	18.2%	27.3%	9.1%	0.0%	27.3%	18.2%						
33	11	72.7%	27.3%										
34	11	18.2%	81.8%										
35	11	18.2%	81.8%	0.0%									
36	11	9.1%	27.3%	36.4%	9.1%	0.0%	18.2%						
37	11	63.6%	36.4%										
38	11	45.5%	54.5%										
39	11	81.8%	9.1%	9.1%									
40 (a)	11	0.0%	100.0%										
40 (b)	4	25.0%	75.0%										

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).

F:\TRIN: SUMM.XLSX:SCP:73:TLTDHT

#### **Track Inspector Questionnaire Response Summary Canadian National**

	Number of		I	Percenta	ge of Rest	ondents	Selecting	This as	Response		
Question	Responses	<u>#1</u>	<u>#2</u>	#3	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	<u>#10</u>
1	12	8.3%	58.3%	8.3%	0.0%	0.0%	25.0%				
2	13	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%
3	13	61.5%	15.4%	7.7%	0.0%	7.7%	7.7%				
4	13	100.0%	0.0%								
5	13	61.5%	38.5%								
6	13	0.0%	7.7%	23.1%	30.8%	15.4%	23.1%	0.0%	0.0%	0.0%	
7	13	100.0%	0.0%	0.0%							
8	13	23.1%	46.2%	23.1%	0.0%	7.7%	0.0%				
9	11	72.7%	27.3%	0.0%	0.0%						
10	13	61.5%	30.8%	7.7%	0.0%	0.0%	0.0%	0.0%			
11	12	25.0%	66.7%	8.3%	0.0%	0.0%	0.0%	0.0%			
12	12	50.0%	41.7%	0.0%	8.3%	0.0%					
13	12	8.3%	50.0%	8.3%	0.0%	0.0%	0.0%	0.0%	33.3%		
14 (a)	12	83.3%	0.0%	16.7%							
14 (b)	13	15.4%	0.0%	53.8%	15.4%	15.4%	0.0%	0.0%	0.0%		
15	13	100.0%	0.0%	0.0%	0.0%						
16	12	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%				
17 (Mainline)	9	11.1%	11.1%	77.8%	0.0%	0.0%	0.0%				
17 (Other)	8	25.0%	0.0%	12.5%	0.0%	25.0%	37.5%				
18	12	16.7%	25.0%	0.0%	8.3%	8.3%	16.7%	25.0%			
19	12	100.0%	0.0%	0.0%							
20	13	76.9%	23.1%								
21	13	76.9%	23.1%								
22	11	36.4%	9.1%	54.5%	0.0%	0.0%					
23	13	15.4%	30.8%	38.5%	7.7%	7.7%					
24	13	0.0%	38.5%	23.1%	23.1%	7.7%	0.0%	7.7%			
25	13	0.0%	30.8%	46.2%	15.4%	0.0%	0.0%	7.7%			
26	13	53.8%	46.2%	0.0%							
27	13	7.7%	38.5%	53.8%	0.0%						
28	13	0.0%	0.0%	15.4%	0.0%	46.2%	38.5%	0.0%			
29 (a)	12	100.0%	0.0%	0.0%							
29 (b)	13	69.2%	30.8%								
30 (a)	12	91.7%	8.3%	0.0%							
30 (b)	12	83.3%	16.7%								
31	13	30.8%	15.4%	0.0%	7.7%	7.7%	0.0%	23.1%	7.7%	0.0%	7.7%
32	13	15.4%	23.1%	7.7%	0.0%	15.4%	38.5%				
33	13	84.6%	15.4%								
34	13	61.5%	38.5%								
35	13	53.8%	30.8%	15.4%							
36	13	7.7%	23.1%	30.8%	30.8%	0.0%	7.7%				
37	13	100.0%	0.0%								
38	13	61.5%	38.5%								
39	13	30.8%	15.4%	53.8%							
40 (a)	13	38.5%	61.5%								
40 (b)	6	16.7%	83.3%		•						
\- <i>\</i>	-										

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media). F:\TRIN: SUMM.XLSX:SCN:73:TLTDHT

#### Track Inspector Questionnaire Response Summary Shortline

	Number of		]	Percentag	ge of Resi	ondents	Selecting	This as F	Response	•	
<b>Question</b>	Responses	#1	<u>#2</u>	#3	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	#10
1	3	0.0%	33.3%	0.0%	0.0%	0.0%	66.7%				
2	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
3	3	33.3%	0.0%	0.0%	33.3%	0.0%	33.3%	0.0%	0.0%	100.0%	0.0%
4	3	100.0%	0.0%	0.0%	33.370	0.0%	33.370				
5	2	100.0%	0.0%								
6	3	0.0%	0.0%	100.0%	0.00/	0.001	0.00/	0.0%	0.007	0.0%	
7	3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
8	3	66.7%	0.0%	0.0%	33.3%	0.0%	0.00/				
9	3	66.7%	0.0%			0.0%	0.0%				
10	3	66.7%	0.0%	33.3%	0.0%	0.00/	0.007	0.007			
11	3	66.7%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%			
12				33.3%	0.0%	0.0%	0.0%	0.0%			
13	3	66.7%	0.0%	33.3%	0.0%	0.0%	0.00	0.00	0.00		
	3	66.7%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%		
14 (a)	3	100.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00		
14 (b)	3	0.0%	33.3%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%		
15	3	100.0%	0.0%	0.0%	0.0%	0.00	0.00				
16	3	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%				
17 (Mainline)	3	0.0%	0.0%	66.7%	0.0%	33.3%	0.0%				
17 (Other)*	2	0.0%	0.0%	0.0%	50.0%	0.0%	50.0%				
18	3	0.0%	33.3%	33.3%	0.0%	0.0%	0.0%	33.3%			
19	3	100.0%	0.0%	0.0%							
20	3	100.0%	0.0%								
21	3	100.0%	0.0%								
22	2	0.0%	100.0%	0.0%	0.0%	0.0%					
23	3	0.0%	66.7%	33.3%	0.0%	0.0%					
24	3	33.3%	33.3%	0.0%	33.3%	0.0%	0.0%	0.0%			
25	3	0.0%	33.3%	0.0%	66.7%	0.0%	0.0%	0.0%			
26	3	33.3%	66.7%	0.0%							
27	3	66.7%	0.0%	33.3%	0.0%						
28	3	0.0%	0.0%	0.0%	0.0%	66.7%	33.3%	0.0%			
29 (a)	3	100.0%	0.0%	0.0%							
29 (b)	3	100.0%	0.0%								
30 (a)	3	100.0%	0.0%	0.0%							
30 (b)	3	100.0%	0.0%								
31	3	33.3%	33.3%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%
32	3	0.0%	66.7%	0.0%	0.0%	33.3%	0.0%				
33	3	66.7%	33.3%								
34	3	66.7%	33.3%								
35	3	33.3%	33.3%	33.3%							
36	3	0.0%	33.3%	0.0%	0.0%	33.3%	33.3%				
37	3	100.0%	0.0%								
38	3	66.7%	33.3%								
39	3	100.0%	0.0%	0.0%							
40 (a)	3	33.3%	66.7%								
40 (b)	1	100.0%	0.0%								
10 (0)	ž.	100.070	0.070								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### **Track Inspector Questionnaire Response Summary Other Railroad Employers**

	Number of		F	Percentag	e of Resp	ondents	Selecting	This as I	Response		
Question	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>
1	15	0.0%	0.0%	6.7%	13.3%	6.7%	73.3%				
2	15	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
3	15	6.7%	20.0%	6.7%	20.0%	20.0%	26.7%				
4	15	93.3%	6.7%	017.12							
5	14	57.1%	42.9%								
6	11	9.1%	36.4%	9.1%	27.3%	18.2%	0.0%	0.0%	0.0%	0.0%	
7	15	86.7%	0.0%	13.3%	, 1.0 / 0	10,270	0,0,0	0.070	0.070	0.070	
8	15	53.3%	33.3%	6.7%	6.7%	0.0%	0.0%				
9	15	53.3%	40.0%	0.0%	6.7%						
10	15	93.3%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%			
11	14	21.4%	57.1%	14.3%	0.0%	0.0%	0.0%	7.1%			
12	11	54.5%	36.4%	0.0%	0.0%	9.1%	4,	, , , , , ,			
13	14	21.4%	7.1%	0.0%	7.1%	0.0%	0.0%	7.1%	57.1%		
14 (a)	14	57.1%	14.3%	28.6%	,,,,,,						
14 (b)	13	7.7%	23.1%	23.1%	30.8%	0.0%	7.7%	0.0%	7.7%		
15	11	90.9%	0.0%	9.1%	0.0%						
16	15	0.0%	33.3%	13.3%	46.7%	6.7%	0.0%				
17 (Mainline)	13	15.4%	7.7%	0.0%	38.5%	0.0%	38.5%				
17 (Other)	6	0.0%	16.7%	50.0%	16.7%	0.0%	16.7%				
18	14	7.1%	0.0%	0.0%	21.4%	21.4%	0.0%	50.0%			
19	11	72.7%	27.3%	0.0%			0,074	2 0 7 0 7 0			
20	15	86.7%	13.3%	0.070							
21	15	86.7%	13.3%								
22	12	33.3%	66.7%	0.0%	0.0%	0.0%					
23	14	0.0%	64.3%	28.6%	7.1%	0.0%					
24	15	26.7%	20.0%	33.3%	13.3%	6.7%	0.0%	0.0%			
25	14	7.1%	28.6%	28.6%	21.4%	7.1%	7.1%	0.0%			
26	15	60.0%	40.0%	0.0%							
27	15	6.7%	60.0%	33.3%	0.0%						
28	15	0.0%	0.0%	13.3%	46.7%	6.7%	33.3%	0.0%			
29 (a)	15	100.0%	0.0%	0.0%							
29 (b)	15	53.3%	46.7%								
30 (a)	15	40.0%	46.7%	13.3%							
30 (b)	11	36.4%	63.6%								
31	15	13.3%	26.7%	20.0%	0.0%	13.3%	6.7%	0.0%	6.7%	6.7%	6.7%
32	15	13.3%	20.0%	0.0%	0.0%	20.0%	46.7%				
33	15	80.0%	20.0%								
34	14	64.3%	35.7%								
35	15	20.0%	60.0%	20.0%							
36	15	20.0%	6.7%	6.7%	26.7%	0.0%	40.0%				
37	15	46.7%	53.3%								
38	15	40.0%	60.0%								
39	15	93.3%	6.7%	0.0%							
40 (a)	12	25.0%	75.0%						•		
40 (b)	8	25.0%	75.0%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F:\TRIN: SUMM.XLSX:SOTH:73:TLTDHT

# Track Inspector Questionnaire Response Summary

	> 40 MPH	3.6%	4.3%	2.6%	n/c	000	3/0:0	o/u	n/c	1.5%	0.0%	0.0%	n/c		> 40 MPH	100.0%	100.0%	100.0%	n/c	100.0%	n/c	n/c	n/c	100.0%	100.0%	100.0%	n/c
16	0 MPH	4.9%	4.3%	5.2%	n/c	430%	2/C:-	)u	n/c	3.0%	0.0%	10.0%	n/c		40 MPH >	96.4%	95.7%	97.4%	n/c	100.0%	n/c	n/c	n/c	98.5%	100.0%	100.0%	n/c
Percentage of Respondents Selecting This as Response to Ouestion 6	35 MPH	4.5%	0.0%	11.7%	n/c	%00	3/0:0	o/u	n/c	6.1%	0.0%	0.0%	n/c		35 MPH	91.5%	91.3%	92.2%	n/c	95.7%	n/c	n/c	n/c	95.5%	100.0%	%0.06	n/c
as Response	30 MPH	15.6%	13.0%	20.8%	n/c	8 79%	3/u	o/u	n/c	10.6%	0.0%	0.0%	n/c	tage	30 MPH	87.1%	91.3%	80.5%	n/c	95.7%	n/c	n/c	n/c	89.4%	100.0%	%0.06	n/c
lecting This	25 MPH	31.3%	26.1%	29.9%	n/c	0.0%	ο/α:c	n/c	n/c	24.2%	33.3%	30.0%	n/c	Cumulative Percentage	25 MPH	71.4%	78.3%	59.7%	n/c	87.0%	n/c	n/c	n/c	78.8%	100.0%	%0.06	n/c
pondents Se	20 MPH	23.2%	13.0%	18.2%	n/c	34.8%	3/û -	n/c	n/c	12.1%	0.0%	20.0%	n/c	Cumula	20 MPH	40.2%	52.2%	29.9%	n/c	87.0%	n/c	n/c	n/c	54.5%	%1.99	%0.09	n/c
ntage of Res	15 MPH	12.5%	21.7%	3.9%	n/c	26.1%	n/c	n/c	n/c	22.7%	0.0%	30.0%	n/c		<u>15 MPH</u>	17.0%	39.1%	11.7%	n/c	52.2%	n/c	n/c	n/c	42.4%	%1.99	40.0%	n/c
Perce	10 MPH	4.0%	4.3%	6.5%	n/c	26.1%	n/c	n/c	n/c	16.7%	33.3%	10.0%	n/c		<u>10 MPH</u>	4.5%	17.4%	7.8%	n/c	26.1%	n/c	n/c	n/c	19.7%	%1.99	10.0%	n/c
	5 MPH	0.4%	13.0%	1.3%	n/c	0.0%	n/c	n/c	n/c	3.0%	33.3%	0.0%	n/c		<u> 5 MPH</u>	0.4%	13.0%	1.3%	n/c	0.0%	n/c	n/c	n/c	3.0%	33.3%	0.0%	n/c
Number of	Responses	224	23	77	0	23	0	0	0	99	3	10	0			224	23	77	0	23	0	0	0	99	$\epsilon$	10	0
	Question 15	Wood	Concrete	Both	Other	Wood	Concrete	Both	Other	Wood	Concrete	Both	Other			Wood	Concrete	Both	Other	Wood	Concrete	Both	Other	Wood	Concrete	Both	Other
	Ouestion 14 (a)	CWR	CWR	CWR	CWR	Jointed Rail	Jointed Rail	Jointed Rail	Jointed Rail	Both	Both	Both	Both			CWR	CWR	CWR	CWR	Jointed Rail	Jointed Rail		Jointed Rail	Both			Both

#### **Track Inspector Questionnaire Response Summary Respondents Whose Mainline Territory Sees Less Than 150 MGT Annually**

	Number of		F	Percentag	e of Resi	ondents	Selecting	This as	Response		
<b>Question</b>	Responses	<u>#1</u>	<u>#2</u>	#3	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	<u>#10</u>
1	195	5.6%	7.2%	12.3%	4.1%	1.5%	69.2%				
2	196	16.3%	45.9%	17.3%	8.7%	0.0%	0.5%	3.6%	4.1%	1.5%	2.0%
3	197	18.8%	18.8%	12.7%	10.2%	9.1%	30.5%				
4	197	86.8%	13.2%								
5	191	51.3%	48.7%								
6	191	0.0%	7.3%	12.6%	19.4%	27.7%	15.7%	7.9%	6.3%	3.1%	
7	198	90.9%	0.0%	9.1%	40 = 04						
8	196	22.4%	32.7%	25.5%	10.7%	7.1%	1.5%				
9	196	76.5%	21.9%	0.5%	1.0%			4 = ~			
10	197	74.6%	17.3%	3.6%	2.0%	1.0%	0.0%	1.5%			
11	196	7.7%	54.1%	28.1%	5.1%	1.5%	1.0%	2.6%			
12	197	60.9%	34.0%	1.5%	2.5%	1.0%	0.00	0.00	0.00		
13	199	41.2%	35.7%	23.1%	0.0%	0.0%	0.0%	0.0%	0.0%		
14 (a)	198	72.2%	9.6%	18.2%	<b>5</b> 4~	1.00	<b>~</b> 0 01		0.00		
14 (b)	189	6.3%	41.3%	24.3%	7.4%	4.8%	5.3%	1.6%	9.0%		
15	198	83.8%	2.0%	14.1%	0.0%	1500	0.70				
16	197	2.0%	4.1%	19.3%	58.9%	15.2%	0.5%				
17 (Mainline)*	148	6.8%	22.3%	43.2%	18.2%	4.7%	4.7%				
17 (Other)*	111	23.4%	18.9%	14.4%	13.5%	14.4%	15.3%	15.60			
18	195	4.1%	6.7%	6.2%	8.2%	15.9%	13.3%	45.6%			
19	195	81.5%	17.9%	0.5%							
20	197	71.6%	28.4%								
21	196	78.6%	21.4%	20.50	0.001	0.001					
22	190	75.8%	3.7%	20.5%	0.0%	0.0%					
23	198	5.6%	33.8%	44.9%	14.1%	1.5%	1.00	1.000			
24	195	17.4%	37.4%	27.2%	11.3%	4.6%	1.0%	1.0%			
25 26	195	1.5%	21.5%	29.7%	30.8%	8.2%	5.1%	3.1%			
26 27	199	51.3%	47.2%	1.5%	7.00						
27	199	11.1%	49.7%	32.2%	7.0%	07.69	#O # 61	6 m or			
28	195	0.0%	0.5%	4.1%	4.6%	25.6%	58.5%	6.7%			
29 (a)	193	95.9%	3.1%	1.0%							
29 (b)	192	87.0%	13.0%	11.00							
30 (a)	194	76.3%	12.4%	11.3%							
30 (b)	160	83.1%	16.9%	10.60	10.10	01.00	F (M	12.60	10.60	4.00%	2.001
31	198	14.1%	8.1%	10.6%	10.1%	21.2%	5.6%	13.6%	10.6%	4.0%	2.0%
32	195	27.7%	16.4%	8.2%	5.6%	27.7%	14.4%				
33	197	55.3%	44.7%								
34	197	55.3%	44.7%	10.00							
35	198	36.4%	53.0%	10.6%	17.00	0.60	10.10				
36	198	15.2%	26.3%	19.7%	17.2%	9.6%	12.1%				
37	198	72.2%	27.8%								
38	199 107	40.2%	59.8%	22 00							
39	197	61.9%	6.1%	32.0%						_	
40 (a)	197	29.9%	70.1%							•	
40 (b)	105	42.9%	57.1%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F:\TRIN: SUMM.XLSX:SLMG:73:TLIIHT

# Track Inspector Questionnaire Response Summary Respondents Whose Mainline Territory Sees 150 MGT or More Annually

	Number of		P	Percentag	ge of Resp	ondents	Selecting	This as F	Response		
<b>Question</b>	Responses	#1	<u>#2</u>	<u>#3</u>	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>
1	98	8.2%	14.3%	13.3%	8.2%	1.0%	55.1%				
2	99	40.4%	43.4%	9.1%	4.0%	0.0%	1.0%	0.0%	0.0%	0.0%	2.0%
3	99	27.3%	18.2%	14.1%	6.1%	8.1%	26.3%	0.070	0.070	0.070	2.070
4	99	76.8%	23.2%	14.170	0.1 /0	0.1 /0	20.370				
5	95	55.8%	44.2%								
6	96	2.1%	3.1%	15.6%	19.8%	29.2%	16.7%	4.2%	6.3%	3.1%	
7	99	89.9%	2.0%	8.1%	19.070	29.2 10	10.770	4.270	0.5 70	3.1 70	
8	94	21.3%	38.3%	25.5%	9.6%	2.1%	3.2%				
9	96	36.5%	54.2%	3.1%	6.3%	2.1 /0	J.20 10				
10	99	61.6%	27.3%	7.1%	2.0%	0.0%	2.0%	0.0%			
11	98	1.0%	38.8%	42.9%	11.2%	2.0%	1.0%	3.1%			
12	98	25.5%	66.3%	1.0%	4.1%	3.1%	1.070	3.1 70			
13	99	0.0%	0.0%	0.0%	27.3%	13.1%	23.2%	36.4%	0.0%		
14 (a)	98	86.7%	0.0%	13.3%	21,570	13.170	25,270	50.470	0.070		
14 (b)	96	2.1%	41.7%	22.9%	12.5%	7.3%	5.2%	2.1%	6.3%		
15	97	57.7%	10.3%	32.0%	0.0%	1.570	3.270	2,1 70	0.570		
16	98	2.0%	2.0%	10.2%	39.8%	43.9%	2.0%				
17 (Mainline)*	76	2.6%	17.1%	34.2%	30.3%	11.8%	3.9%				
17 (Other)	49	18.4%	26.5%	22.4%	8.2%	8.2%	16.3%				
18	98	2.0%	4.1%	8.2%	18.4%	19.4%	9.2%	38.8%			
19	99	84.8%	15.2%	0.0%	10.770	17.770	7.270	50.076			
20	98	73.5%	26.5%	0.070							
21	97	78.4%	21.6%								
22	91	60.4%	2.2%	37.4%	0.0%	0.0%					
23	96	7.3%	32.3%	41.7%	18.8%	0.0%					
24	96	11.5%	32.3%	31.3%	8.3%	8.3%	4.2%	4.2%			
25	97	1.0%	12.4%	32.0%	36.1%	11.3%	3.1%	4.1%			
26	98	60.2%	37.8%	2.0%	30.170	11.570	3.1 70	1.1 70			
27	96	6.3%	51.0%	37.5%	5.2%						
28	98	1.0%	0.0%	1.0%	6.1%	24.5%	63.3%	4.1%			
29 (a)	97	93.8%	6.2%	0.0%	01170		001070	,0			
29 (b)	95	81.1%	18.9%	0,070							
30 (a)	97	70.1%	15.5%	14.4%							
30 (b)	77	72.7%	27.3%	1 , , ,							
31	97	8.2%	8.2%	15.5%	10.3%	16.5%	13.4%	13.4%	6.2%	5.2%	3.1%
32	93	17.2%	21.5%	6.5%	5.4%	31.2%	18.3%	*2	0.270	0.270	5.1.70
33	97	70.1%	29.9%	0.2 /0	5.170	011270	101070				
34	98	72.4%	27.6%								
35	97	46.4%	45.4%	8.2%							
36	97	13.4%	19.6%	19.6%	23.7%	11.3%	12.4%				
37	97	78.4%	21.6%	13.070	2017 70	111570	12.170				
38	97	55.7%	44.3%								
39	98	56.1%	7.1%	36.7%							
40 (a)	98	36.7%	63.3%	20.170							
40 (b)	60	36.7%	63.3%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

F:\TRIN: SUMM.XLSX:SMMG:73:TLIIHT

# Track Inspector Questionnaire Response Summary Respondents Getting Less Than 2 Hours of Main Track Occupancy Authority

	Number of		I	Percentag	ge of Resp	ondents	Selecting	This as l	Response		
<b>Question</b>	Responses	<u>#1</u>	#2	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	<u>#10</u>
4	22	0.40	40.00		10.50	0.00					
1	22	9.1%	18.2%	9.1%	13.6%	0.0%	50.0%				
2	22	4.5%	50.0%	22.7%	0.0%	0.0%	13.6%	0.0%	9.1%	0.0%	0.0%
3	22	31.8%	18.2%	22.7%	9.1%	4.5%	13.6%				
4	22	90.9%	9.1%								
5	22	50.0%	50.0%	10.60	40.00						
6	22	0.0%	0.0%	13.6%	18.2%	40.9%	9.1%	9.1%	4.5%	4.5%	
7	22	86.4%	0.0%	13.6%		0.004					
8	22	54.5%	18.2%	22.7%	4.5%	0.0%	0.0%				
9	22	54.5%	40.9%	4.5%	0.0%	0.00					
10	22	45.5%	31.8%	13.6%	4.5%	0.0%	0.0%	4.5%			
11	21	19.0%	33.3%	19.0%	9.5%	4.8%	9.5%	4.8%			
12	22	59.1%	36.4%	4.5%	0.0%	0.0%					
13	22	13.6%	18.2%	18.2%	9.1%	4.5%	13.6%	4.5%	18.2%		
14 (a)	22	72.7%	9.1%	18.2%							
14 (b)	20	10.0%	60.0%	15.0%	10.0%	5.0%	0.0%	0.0%	0.0%		
15	21	71.4%	4.8%	23.8%	0.0%						
16	22	9.1%	4.5%	9.1%	54.5%	13.6%	9.1%				
17 (Mainline)	16	12.5%	31.3%	25.0%	6.3%	6.3%	18.8%				
17 (Other)	11	18.2%	0.0%	0.0%	9.1%	9.1%	63.6%				
18	22	22.7%	18.2%	4.5%	13.6%	18.2%	0.0%	22.7%			
19	22	63.6%	31.8%	4.5%							
20	22	86.4%	13.6%								
21	22	90.9%	9.1%								
22	21	95.2%	0.0%	4.8%	0.0%	0.0%					
23	22	100.0%	0.0%	0.0%	0.0%	0.0%					
24	22	13.6%	54.5%	18.2%	9.1%	0.0%	0.0%	4.5%			
25	22	9.1%	22.7%	22.7%	27.3%	9.1%	0.0%	9.1%			
26	22	50.0%	45.5%	4.5%							
27	22	18.2%	36.4%	40.9%	4.5%						
28	22	0.0%	0.0%	9.1%	4.5%	31.8%	50.0%	4.5%			
29 (a)	22	95.5%	4.5%	0.0%							
29 (b)	21	81.0%	19.0%								
30 (a)	22	72.7%	18.2%	9.1%							
30 (b)	17	76.5%	23.5%								
31	22	4.5%	0.0%	13.6%	22.7%	9.1%	9.1%	18.2%	9.1%	9.1%	4.5%
32	22	27.3%	22.7%	22.7%	13.6%	9.1%	4.5%				
33	22	50.0%	50.0%								
34	22	54.5%	45.5%								
35	22	36.4%	50.0%	13.6%							
36	22	22.7%	4.5%	18.2%	31.8%	9.1%	13.6%				
37	22	77.3%	22.7%								
38	22	50.0%	50.0%								
39	22	72.7%	0.0%	27.3%							
40 (a)	22	22.7%	77.3%								
40 (b)	14	21.4%	78.6%								

#### **Track Inspector Questionnaire Response Summary** Respondents Getting 2 - 4 Hours of Main Track Occupancy Authority

	4110
<u>Question</u> <u>Responses</u> #1 #2 #3 #4 #5 #6 #7 #8 #	<u>#10</u>
1 144 6.3% 13.9% 8.3% 6.9% 0.0% 64.6%	
2 143 17.5% 46.2% 11.2% 11.2% 0.0% 2.1% 1.4% 2.8% 1.4%	6.3%
3 143 23.1% 20.3% 9.8% 11.9% 9.8% 25.2%	
4 143 83.2% 16.8%	
5 135 57.8% 42.2%	
6 137 1.5% 8.0% 16.8% 17.5% 28.5% 13.9% 6.6% 3.6% 3.6%	
7 145 90.3% 0.7% 9.0%	
8 142 28.2% 35.9% 21.8% 9.9% 3.5% 0.7%	
9 145 51.7% 44.1% 1.4% 2.8%	
10 144 72.2% 16.0% 6.3% 2.8% 0.0% 0.7% 2.1%	
11 144 5.6% 51.4% 31.3% 5.6% 2.1% 0.7% 3.5%	
12 141 39.7% 53.9% 1.4% 3.5% 1.4%	
13 138 17.4% 18.1% 13.0% 6.5% 2.2% 4.3% 9.4% 29.0%	
14 (a) 146 84.2% 2.1% 13.7%	
14 (b) 141 3.5% 44.0% 20.6% 14.2% 2.8% 7.1% 2.1% 5.7%	
15 142 71.8% 5.6% 22.5% 0.0%	
16 145 1.4% 3.4% 8.3% 53.1% 31.7% 2.1%	
17 (Mainline)* 115 7.0% 20.0% 40.9% 19.1% 6.1% 7.0%	
17 (Other)* 83 22.9% 18.1% 15.7% 10.8% 13.3% 19.3%	
18 143 4.9% 10.5% 9.1% 14.0% 12.6% 13.3% 35.7%	
19 141 80.1% 19.9% 0.0%	
20 143 78.3% 21.7%	
21 142 85.2% 14.8%	
22 140 70.0% 8.6% 21.4% 0.0% 0.0%	
23 146 0.0% 100.0% 0.0% 0.0% 0.0%	
24 142 14.1% 40.8% 31.7% 5.6% 3.5% 1.4% 2.8%	
25 144 1.4% 21.5% 34.0% 29.9% 6.9% 2.1% 4.2%	
26 145 57.9% 40.0% 2.1%	
27 145 10.3% 44.1% 38.6% 6.9%	
28 143 0.0% 0.0% 6.3% 9.8% 29.4% 49.7% 4.9%	
29 (a) 145 93.1% 5.5% 1.4%	
29 (b) 140 79.3% 20.7%	
30 (a) 144 70.1% 17.4% 12.5%	
30 (b) 110 74.5% 25.5%	
31 144 20.1% 9.7% 9.0% 9.7% 22.2% 6.3% 11.8% 7.6% 2.1%	1.4%
32 140 20.0% 17.1% 6.4% 4.3% 27.1% 25.0%	
33 143 59.4% 40.6%	
34 144 66.0% 34.0%	
35 144 34.0% 52.1% 13.9%	
36 144 14.6% 17.4% 17.4% 22.2% 9.0% 19.4%	
37 144 85.4% 14.6%	
38 144 38.2% 61.8%	
39 143 53.8% 10.5% 35.7%	
40 (a) 140 27.1% 72.9%	
40 (b) 80 41.3% 58.8%	

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).

F:\TRIN: SUMM.XLSX:SA4:73:TLIIHT

# Track Inspector Questionnaire Response Summary Respondents Getting 4 - 6 Hours of Main Track Occupancy Authority

Onestion         Responses         #1         #2         #3         #4         #5         #6         #7         #8         #9         #10           1         208         5.8%         6.3%         18.3%         5.3%         1.0%         63.5%         2.4%         0.5%         1.9%           3         209         18.2%         22.0%         12.4%         8.6%         9.1%         29.7%         4.3%         2.4%         0.5%         1.9%           4         208         83.7%         16.3%         8.6%         9.1%         29.7%         5.0%         3.0%         1.9%           5         200         49.0%         51.0%         6.6%         9.1%         29.7%         15.3%         5.9%         5.0%         3.0%           7         209         90.9%         0.0%         9.1%         1.2%         5.4%         2.0%         2.0%         9.9         3.0%         6.0%         2.0%         1.1         2.0%         4.3%         4.8%         3.4%         5.7%         1.9%         0.5%         4.3%         3.0%         6.0%         1.1         2.0         2.5         4.8%         4.2.9%         1.5%         1.5%         7.0%         4.3%		Number of		]	Percentag	ge of Resi	ondents	Selecting	This as	Response		
2	<b>Question</b>		<u>#1</u>								<u>#9</u>	<u>#10</u>
2												
3         209         18.2%         22.0%         12.4%         8.6%         9.1%         29.7% <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
4         208         83.7%         16.3%         5         200         49.0%         15.0%         5         5         200         49.0%         10.9%         21.8%         29.2%         15.3%         5.9%         5.0%         3.0%           7         209         90.9%         0.0%         9.1%         25.9%         11.2%         5.4%         2.0%         5.9%         5.0%         3.0%         1.0%         0.5%         4.3%         4.0%         1.0%         0.5%         4.3%         4.3%         1.0%         1.0%         0.5%         4.3%         4.3%         4.3%         1.2         205         48.8%         42.9%         2.0%         4.9%         1.5%         4.3%         4.3%         1.1         1.0%         1.0%         1.0%         1.0%         4.3%         4.3%         1.1         1.0%         1.0%         1.0%         4.3%         4.3%         1.1         1.0%         1.0%         0.5%         4.3%         4.3%         1.1         1.0%         1.0%         0.5%         4.3%         1.5%         1.0%         5.5%         2.5%         4.0%         8.0%         35.8%         1.1         1.5%         1.0%         1.5%         1.5%         1.5%         7.0%									4.3%	2.4%	0.5%	1.9%
5         200         49.0%         51.0%         6         202         2.5%         6.4%         10.9%         21.8%         29.2%         15.3%         5.9%         5.0%         3.0%           7         209         90.9%         0.0%         9.1%         1         2.0%         2.0%         2.0%         3.0%         6.0%         1         2.0%         9.0%         1.0%         0.5%         4.8%         1.0%         1.0%         0.5%         4.3%         1.0%         1.0%         0.5%         4.3%         1.0%         1.0%         0.5%         4.3%         4.8%         4.4%         5.7%         1.9%         0.5%         4.3%         4.3%         1.4%         1.0%         1.0%         0.5%         4.3%         1.5%         1.1         1.2         2.05         4.8%         42.9%         1.0%         5.5%         2.5%         4.0%         8.0%         35.8%         1.1         1.1         1.0%         1.0%         7.0%         4.3%         1.5%         1.5%         1.5%         1.5%         7.0%         1.5%         1.5%         7.0%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%					12.4%	8.6%	9.1%	29.7%				
6         202         2.5%         6.4%         10.9%         21.8%         29.2%         15.3%         5.9%         5.0%         3.0%           7         209         99.9%         0.0%         9.1%         25.9%         11.2%         5.4%         2.0%         2.0%         18.8%         37.1%         25.9%         11.2%         5.4%         2.0%         4.8%         42.9%         2.0%         6.0%         10         0.5%         4.3%         4.8%         6.0%         10         0.0%         5.6%         2.0%         4.3%         4.9%         1.0%         1.0%         0.5%         4.3%         1.0%         1.0%         1.0%         0.5%         4.3%         1.0%         1.0%         1.0%         0.5%         4.3%         1.0%         1.0%         1.0%         1.5%         0.0%         5.5%         2.5%         4.0%         8.0%         35.8%         1.0%         1.0%         1.0%         5.5%         2.5%         4.0%         8.0%         35.8%         1.0%         1.0%         1.5%         1.5%         7.0%         1.5%         7.0%         1.5%         7.0%         1.5%         7.0%         1.5%         7.0%         1.5%         1.5%         7.0%         1.5%												
7         209         90.9%         0.0%         91.9%         8         205         18.5%         37.1%         25.9%         11.2%         5.4%         2.0%         8         1.0         159.7%         31.3%         6.0%         10         209         -72.2%         21.1%         2.9%         1.4%         1.0%         1.0%         0.5%         4.3%         1.2%         1.2%         2.0%         4.4%         5.7%         1.0%         0.5%         4.3%         4.8%         42.9%         1.0%         1.5%         4.3%         4.8%         42.9%         1.0%         1.5%         4.3%         4.8%         42.9%         1.0%         1.5%         4.3%         4.8%         42.9%         1.0%         1.5%         4.0%         8.0%         35.8%         4.4%         14 (a)         205         4.4%         4.9%         1.0%         1.0%         1.0%         8.0%         35.8%         1.1%         1.0%         1.0%         1.0%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.4%         1.0%         1.0%         1.0%         1.0%         1.5%         1.5%         7.0%         4.4%												
8         205         18.5%         37.1%         25.9%         11.2%         5.4%         2.0%						21.8%	29.2%	15.3%	5.9%	5.0%	3.0%	
9 201 59.7% 31.3% 3.0% 6.0% 1.0% 0.5% 1.0% 0.5% 1.10 209 4.3% 48.8% 34.4% 57.5% 1.9% 0.5% 4.3% 1.2 1.2 205 48.8% 42.9% 2.0% 49.9% 1.5% 4.3% 1.3% 14 (a) 205 74.1% 4.9% 21.0% 14 (b) 201 5.0% 43.3% 21.9% 10.0% 7.0% 4.5% 1.5% 7.0% 15 208 77.4% 7.2% 15.4% 0.0% 16 206 0.5% 2.4% 16.0% 50.5% 26.2% 4.4% 17 (Mainline)* 148 2.7% 20.9% 45.3% 21.6% 61.% 3.4% 17 (Other) 110 20.9% 24.5% 20.0% 13.6% 64.4% 14.5% 18 207 4.3% 3.9% 5.3% 10.1% 21.7% 15.0% 39.6% 21.1 207 78.3% 21.7% 22 194 68.6% 21.7% 22.4% 12.2 194 68.6% 21.7% 22.4 194 68.6% 21.7% 22.4 194 68.6% 21.7% 29.4% 0.0% 0.0% 22.4 19.4% 12.2 194 68.6% 21.7% 29.4% 0.0% 0.0% 24.4 207 14.0% 27.5% 34.8% 13.5% 7.7% 14.4% 1.9% 26.6 209 47.4% 51.2% 14.4% 27.5% 34.8% 13.5% 7.7% 14.4% 1.9% 26.6 209 47.4% 51.2% 14.4% 27.5% 34.8% 13.5% 7.7% 14.4% 1.9% 28 204 0.5% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%												
10							5.4%	2.0%				
11       209       4.3%       48.8%       34.4%       5.7%       1.9%       0.5%       4.3%         12       205       48.8%       42.9%       2.0%       4.9%       1.5%       4.0%       8.0%       35.8%         13       201       19.4%       15.9%       9.0%       5.5%       2.5%       4.0%       8.0%       35.8%         14 (a)       205       74.1%       4.9%       21.0%       1.5%       4.5%       1.5%       7.0%         14 (b)       201       5.0%       43.3%       21.9%       10.0%       7.0%       4.5%       1.5%       7.0%         16       206       0.5%       2.4%       16.0%       50.5%       26.2%       4.4%         17 (Mainline)*       148       2.7%       20.9%       45.3%       21.6%       6.1%       3.4%         17 (Other)       110       20.9%       3.5%       10.1%       21.7%       15.0%       39.6%         18       207       4.3%       3.9%       5.3%       10.1%       21.7%       15.0%       39.6%         19       204       85.3%       14.7%       0.0%       0.0%       15.0%       39.6%         22       <												
12												
13         201         19.4%         15.9%         9.0%         5.5%         2.5%         4.0%         8.0%         35.8%         4.8%         14 (a)         205         74.1%         4.9%         21.0%         4.0%         8.0%         35.8%         4.8%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         7.0%         4.5%         1.5%         1.5%         1.5%         4.5%         1.5%         4.5%         2.0%         4.6%         0.0%         4.4%         4.4%         1.5%								0.5%	4.3%			
14 (a)         205         74.1%         4.9%         21.0%         10.0%         7.0%         4.5%         1.5%         70%         15         15         208         77.4%         72.9%         15.4%         0.0%         7.0%         4.5%         7.0%         7.0%         15         208         77.4%         15.4%         10.0%         50.5%         26.2%         4.4%         16.0%         50.5%         26.2%         4.4%         16.0%         3.4%         17 (Mainline)*         148         2.7%         20.9%         45.3%         21.6%         6.1%         3.4%         17 (Other)         110         20.99         24.5%         20.0%         13.6%         6.4%         14.5%         18         207         4.3%         3.9%         5.3%         10.1%         21.7%         15.0%         39.6%         19.6%         19.8%         20.0%<												
14 (b)         201         5.0%         43.3%         21.9%         10.0%         7.0%         4.5%         1.5%         7.0%           15         208         77.4%         7.2%         15.4%         0.0%         4.4%         1.5%         7.0%         1.5%         26.2%         4.4%         4.4%         1.5%         1.5%         26.2%         4.4%         4.4%         1.5%         1.5%         1.5%         26.2%         4.4%         4.4%         1.5%         1.5%         1.5%         20.0%         1.5%         26.2%         4.4%         4.4%         1.5%						5.5%	2.5%	4.0%	8.0%	35.8%		
15         208         77.4%         7.2%         15.4%         0.0%         2.6%         2.4%         16.0%         50.5%         2.6.2%         4.4%         1         1         1         1         1         1         1         1         1         1         20.9%         45.3%         21.6%         6.1%         3.4%         3.4%         1         1         2         1         2         1         3.4%         1         3.4%         1         3         4         2         1         3         4         3         6.4%         14.5%         3         4         4         1         1         2         1         4												
16         206         0.5%         2.4%         16.0%         50.5%         26.2%         4.4%           17 (Mainline)*         148         2.7%         20.9%         45.3%         21.6%         6.1%         3.4%           17 (Other)         110         20.9%         24.5%         20.0%         13.6%         6.4%         14.5%           18         207         4.3%         3.9%         5.3%         10.1%         21.7%         15.0%         39.6%           20         206         72.8%         27.2%         20.0%         15.0%         39.6%           21         207         78.3%         21.7%         15.0%         39.6%           21         207         78.3%         21.7%         20.0%         3.0%         3.0%           22         194         68.6%         2.1%         29.4%         0.0%         0.0%         2.0%           23         209         0.0%         0.0%         0.0%         1.0%         1.0%           24         207         14.0%         27.5%         34.8%         13.5%         7.7%         1.4%         1.0%           25         206         15.%         15.2%         1.4%         24.5% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.0%</td> <td>4.5%</td> <td>1.5%</td> <td>7.0%</td> <td></td> <td></td>							7.0%	4.5%	1.5%	7.0%		
17 (Mainline)*         148         2.7%         20.9%         45.3%         21.6%         6.1%         3.4%         2.4%         2.4%         20.0%         13.6%         6.4%         14.5%         1.4%         1.4%         1.2%         1.5.0%         39.6%         39.6%         1.4%         1.4%         1.0%         21.7%         15.0%         39.6%         1.4%         1.4%         1.0%         21.7%         15.0%         39.6%         1.4%         1.4%         1.0%         21.7%         15.0%         39.6%         1.4%         1.4%         1.0%         21.7%         1.4%         1.50%         39.6%         1.4%         1.4%         1.0%         20.0%         20.0%         1.4%         1.0%         1.4%         1.4%         1.2%         1.4%         1.4%         1.0%         1.4%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%         1.4%         1.2%												
17 (Other)       110       20.9%       24.5%       20.0%       13.6%       6.4%       14.5%         18       207       4.3%       3.9%       5.3%       10.1%       21.7%       15.0%       39.6%         19       204       85.3%       14.7%       0.0%       10.0%       15.0%       39.6%         20       206       72.8%       27.2%       22       12       207       78.3%       21.7%       22       194       68.6%       2.1%       29.4%       0.0%       0.0%       2.0%       2.1%       29.4%       0.0%       0.0%       2.1       29.4%       0.0%       0.0%       2.1%       29.4%       0.0%       0.0%       0.0%       2.1%       29.4%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       1.4%       1.0%       2.2%       2.4       207       14.0%       27.5%       34.8%       13.5%       7.7%       1.4%       1.9%       1.9%       2.4       1.9%       2.4       3.4       33.4%       32.4%       3.4%       24.5%       61.8%       6.4%       2.4       2.9       1.5       0.5%       2.5%       4.4% <td></td>												
18       207       4.3%       3.9%       5.3%       10.1%       21.7%       15.0%       39.6%         19       204       85.3%       14.7%       0.0%         20       206       72.8%       27.2%         21       207       78.3%       21.7%         22       194       68.6%       2.1%       29.4%       0.0%       0.0%         23       209       0.0%       0.0%       100.0%       0.0%       0.0%         24       207       14.0%       27.5%       34.8%       13.5%       7.7%       1.4%       1.0%         25       206       1.5%       19.4%       37.4%       32.5%       3.9%       3.4%       1.9%         26       209       47.4%       51.2%       1.4%       24.5%       61.8%       6.4%         29 (a)       204       9.5%       0.0%       2.5%       4.4%       24.5%       61.8%       6.4%         29 (b)       206       84.5%       15.5%       15.5%       30.6%       13.7%       11.2%       6.8%       2.4%         30 (b)       166       75.3%       24.7%       24.7%       24.8%       29.2%       12.4%       11.2%	·											
19       204       85.3%       14.7%       0.0%         20       206       72.8%       27.2%         21       207       78.3%       21.7%         22       194       68.6%       2.1%       29.4%       0.0%       0.0%         23       209       0.0%       0.0%       10.0%       0.0%       0.0%         24       207       14.0%       27.5%       34.8%       13.5%       7.7%       1.4%       1.0%         25       206       1.5%       19.4%       37.4%       32.5%       3.9%       3.4%       1.9%         26       209       47.4%       51.2%       1.4%       1.9%       1.9%       1.9%       1.4%       27       207       9.7%       54.6%       32.4%       3.4%       1.8%       6.4%       6.4%       29 (a)       204       98.0%       1.5%       0.5%       0.5%       61.8%       6.4%       6.4%       29 (a)       204       98.0%       1.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%       0.5%	, ,											
20       206       72.8%       27.2%         21       207       78.3%       21.7%         22       194       68.6%       2.1%       29.4%       0.0%       0.0%         23       209       0.0%       100.0%       0.0%       0.0%         24       207       14.0%       27.5%       34.8%       13.5%       7.7%       1.4%       1.0%         25       206       1.5%       19.4%       37.4%       32.5%       3.9%       3.4%       1.9%         26       209       47.4%       51.2%       1.4%         27       207       9.7%       54.6%       32.4%       3.4%       1.5%       1.9%         28       204       0.5%       0.0%       2.5%       4.4%       24.5%       61.8%       6.4%         29 (a)       204       98.0%       1.5%       0.5%       0.5%       0.5%       0.5%       0.6       4.4%       24.5%       61.8%       6.4%         29 (b)       206       84.5%       15.5%       30 (a)       205       71.7%       13.2%       15.1%         30 (a)       205       71.7%       19.8%       5.9%       5.4%       29.2% <t< td=""><td></td><td></td><td></td><td></td><td></td><td>10.1%</td><td>21.7%</td><td>15.0%</td><td>39.6%</td><td></td><td></td><td></td></t<>						10.1%	21.7%	15.0%	39.6%			
21       207       78.3%       21.7%         22       194       68.6%       2.1%       29.4%       0.0%       0.0%         23       209       0.0%       100.0%       0.0%       0.0%         24       207       14.0%       27.5%       34.8%       13.5%       7.7%       1.4%       1.0%         25       206       1.5%       19.4%       37.4%       32.5%       3.9%       3.4%       1.9%         26       209       47.4%       51.2%       1.4%       24.5%       61.8%       6.4%         27       207       9.7%       54.6%       32.4%       3.4%       24.5%       61.8%       6.4%         29 (a)       204       98.0%       1.5%       0.5%       0.5%       4.4%       24.5%       61.8%       6.4%         29 (b)       206       84.5%       15.5%       30.5%       3.1       3.2%       15.1%         30 (b)       166       75.3%       24.7%       8.8%       17.1%       9.8%       13.7%       11.2%       6.8%       2.4%         32       202       27.2%       19.8%       5.9%       5.4%       29.2%       12.4%       3.3       3.6					0.0%							
22       194       68.6%       2.1%       29.4%       0.0%       0.0%       0.0%         23       209       0.0%       0.0%       100.0%       0.0%       0.0%       0.0%         24       207       14.0%       27.5%       34.8%       13.5%       7.7%       1.4%       1.0%         25       206       1.5%       19.4%       37.4%       32.5%       3.9%       3.4%       1.9%         26       209       47.4%       51.2%       1.4%       1.9%       1.9%         27       207       9.7%       54.6%       32.4%       3.4%       1.9%         28       204       0.5%       0.0%       2.5%       4.4%       24.5%       61.8%       6.4%         29 (a)       204       98.0%       1.5%       0.5%       0.0%       2.5%       4.4%       24.5%       61.8%       6.4%         29 (b)       206       84.5%       15.5%       15.1%       30 (b)       166       75.3%       24.7%         31       205       8.3%       9.3%       12.7%       8.8%       17.1%       9.8%       13.7%       11.2%       6.8%       2.4%         33       208												
23       209       0.0%       0.0%       100.0%       0.0%       0.0%       0.0%       20.0%       1.4%       1.0%       227.5%       34.8%       13.5%       7.7%       1.4%       1.0%       1.0%       25       206       1.5%       19.4%       37.4%       32.5%       3.9%       3.4%       1.9%       1.9%       1.9%       26       209       47.4%       51.2%       1.4%       32.5%       3.9%       3.4%       1.9%       27       207       9.7%       54.6%       32.4%       3.4%       24.5%       61.8%       6.4%       29       28       204       0.5%       0.0%       2.5%       4.4%       24.5%       61.8%       6.4%       6.4%       29 (a)       204       98.0%       1.5%       0.5%       29.5%       4.4%       24.5%       61.8%       6.4%       6.4%       29 (a)       204       98.0%       1.5%       0.5%       29.5%       4.4%       24.5%       61.8%       6.4%       6.4%       29 (a)       20       66.4%       29 (a)       20.8%       15.1%       30 (b)       16.6       75.3%       24.7%       24.7%       33 (a)       13.7%       11.2%       6.8%       2.4%       32       202       27.2%       19.8%												
24       207       14.0%       27.5%       34.8%       13.5%       7.7%       1.4%       1.0%         25       206       1.5%       19.4%       37.4%       32.5%       3.9%       3.4%       1.9%         26       209       47.4%       51.2%       1.4%       1.9%         27       207       9.7%       54.6%       32.4%       3.4%       3.4%         28       204       0.5%       0.0%       2.5%       4.4%       24.5%       61.8%       6.4%         29 (a)       204       98.0%       1.5%       0.5%       0.5%       61.8%       6.4%         29 (b)       206       84.5%       15.5%       0.5%       <							0.0%					
25       206       1.5%       19.4%       37.4%       32.5%       3.9%       3.4%       1.9%         26       209       47.4%       51.2%       1.4%       1.4%       1.9%         27       207       9.7%       54.6%       32.4%       3.4%       3.4%         28       204       0.5%       0.0%       2.5%       4.4%       24.5%       61.8%       6.4%         29 (a)       204       98.0%       1.5%       0.5%						0.0%	0.0%					
26				27.5%	34.8%	13.5%	7.7%	1.4%	1.0%			
27			1.5%	19.4%	37.4%	32.5%	3.9%	3.4%	1.9%			
28			47.4%	51.2%	1.4%							
29 (a) 204 98.0% 1.5% 0.5% 29 (b) 206 84.5% 15.5% 30 (a) 205 71.7% 13.2% 15.1% 30 (b) 166 75.3% 24.7% 31 205 8.3% 9.3% 12.7% 8.8% 17.1% 9.8% 13.7% 11.2% 6.8% 2.4% 32 202 27.2% 19.8% 5.9% 5.4% 29.2% 12.4% 33 208 59.6% 40.4% 34 208 59.1% 40.9% 35 208 35.1% 52.9% 12.0% 36 207 14.0% 30.9% 20.8% 19.8% 7.7% 6.8% 37 209 66.0% 34.0% 38 209 42.1% 57.9% 39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%			9.7%	54.6%	32.4%	3.4%						
29 (b) 206 84.5% 15.5% 30 (a) 205 71.7% 13.2% 15.1% 30 (b) 166 75.3% 24.7% 31 205 8.3% 9.3% 12.7% 8.8% 17.1% 9.8% 13.7% 11.2% 6.8% 2.4% 32 202 27.2% 19.8% 5.9% 5.4% 29.2% 12.4% 33 208 59.6% 40.4% 34 208 59.1% 40.9% 35 208 35.1% 52.9% 12.0% 36 207 14.0% 30.9% 20.8% 19.8% 7.7% 6.8% 37 209 66.0% 34.0% 38 209 42.1% 57.9% 39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%	28	204	0.5%	0.0%	2.5%	4.4%	24.5%	61.8%	6.4%			
30 (a) 205 71.7% 13.2% 15.1% 30 (b) 166 75.3% 24.7% 31 205 8.3% 9.3% 12.7% 8.8% 17.1% 9.8% 13.7% 11.2% 6.8% 2.4% 32 202 27.2% 19.8% 5.9% 5.4% 29.2% 12.4% 33 208 59.6% 40.4% 34 208 59.1% 40.9% 35.1% 52.9% 12.0% 36 207 14.0% 30.9% 20.8% 19.8% 7.7% 6.8% 37 209 66.0% 34.0% 38 209 42.1% 57.9% 39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%			98.0%	1.5%	0.5%							
30 (b) 166 75.3% 24.7%  31 205 8.3% 9.3% 12.7% 8.8% 17.1% 9.8% 13.7% 11.2% 6.8% 2.4%  32 202 27.2% 19.8% 5.9% 5.4% 29.2% 12.4%  33 208 59.6% 40.4%  34 208 59.1% 40.9%  35 208 35.1% 52.9% 12.0%  36 207 14.0% 30.9% 20.8% 19.8% 7.7% 6.8%  37 209 66.0% 34.0%  38 209 42.1% 57.9%  39 207 61.8% 4.3% 33.8%  40 (a) 209 31.1% 68.9%	29 (b)	206	84.5%	15.5%								
31 205 8.3% 9.3% 12.7% 8.8% 17.1% 9.8% 13.7% 11.2% 6.8% 2.4% 32 202 27.2% 19.8% 5.9% 5.4% 29.2% 12.4% 33 208 59.6% 40.4% 34 208 59.1% 40.9% 35 208 35.1% 52.9% 12.0% 36 207 14.0% 30.9% 20.8% 19.8% 7.7% 6.8% 37 209 66.0% 34.0% 38 209 42.1% 57.9% 39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%	30 (a)	205	71.7%	13.2%	15.1%							
32 202 27.2% 19.8% 5.9% 5.4% 29.2% 12.4% 33 208 59.6% 40.4% 34 208 59.1% 40.9% 35 208 35.1% 52.9% 12.0% 36 207 14.0% 30.9% 20.8% 19.8% 7.7% 6.8% 37 209 66.0% 34.0% 38 209 42.1% 57.9% 39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%	30 (b)	166	75.3%	24.7%								
33	31	205	8.3%	9.3%	12.7%	8.8%	17.1%	9.8%	13.7%	11.2%	6.8%	2.4%
34 208 59.1% 40.9% 35 208 35.1% 52.9% 12.0% 36 207 14.0% 30.9% 20.8% 19.8% 7.7% 6.8% 37 209 66.0% 34.0% 38 209 42.1% 57.9% 39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%	32	202	27.2%	19.8%	5.9%	5.4%	29.2%	12.4%				
35 208 35.1% 52.9% 12.0% 36 207 14.0% 30.9% 20.8% 19.8% 7.7% 6.8% 37 209 66.0% 34.0% 38 209 42.1% 57.9% 39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%	33	208	59.6%	40.4%								
36 207 14.0% 30.9% 20.8% 19.8% 7.7% 6.8% 37 209 66.0% 34.0% 38 209 42.1% 57.9% 39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%	34	208	59.1%	40.9%								
37 209 66.0% 34.0% 38 209 42.1% 57.9% 39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%	35	208	35.1%	52.9%	12.0%							
38 209 42.1% 57.9% 39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%	36	207	14.0%	30.9%	20.8%	19.8%	7.7%	6.8%				
39 207 61.8% 4.3% 33.8% 40 (a) 209 31.1% 68.9%	37	209	66.0%	34.0%								
40 (a) 209 31.1% 68.9%	38	209	42.1%	57.9%								
40 (a) 209 31.1% 68.9%	39	207	61.8%		33.8%							
	40 (a)	209	31.1%	68.9%								
	40 (b)	120	36.7%	63.3%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### Track Inspector Questionnaire Response Summary Respondents Getting 6 - 8 Hours of Main Track Occupancy Authority

	Number of		P	'ercentag	ge of Resp	ondents	Selecting	This as I	Response		
Question	Responses	<u>#1</u>	<u>#2</u>	#3	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>
1	55	7.3%	9.1%	9.1%	10.9%	3.6%	60.0%				
2	57	40.4%	42.1%	12.3%	1.8%	0.0%	0.0%	0.0%	1.8%	0.0%	1.8%
3	57	29.8%	17.5%	15.8%	10.5%	8.8%	17.5%				
4	57	73.7%	26.3%								
5	56	58.9%	41.1%								
6	57	0.0%	10.5%	19.3%	19.3%	22.8%	19.3%	0.0%	8.8%	0.0%	
7	57	93.0%	1.8%	5.3%							
8	54	9.3%	27.8%	27.8%	14.8%	13.0%	7.4%				
9	56	62.5%	33.9%	0.0%	3.6%						
10	57	64.9%	28.1%	5.3%	0.0%	0.0%	1.8%	0.0%			
11	55	10.9%	47.3%	30.9%	9.1%	0.0%	0.0%	1.8%			
12	57	50.9%	45.6%	1.8%	1.8%	0.0%					
13	56	28.6%	14.3%	7.1%	8.9%	5.4%	7.1%	10.7%	17.9%		
14 (a)	56	67.9%	12.5%	19.6%							
14 (b)	54	7.4%	27.8%	20.4%	16.7%	9.3%	5.6%	0.0%	13.0%		
15	57	73.7%	1.8%	24.6%	0.0%						
16	57	1.8%	1.8%	19.3%	50.9%	26.3%	0.0%				
17 (Mainline)*	47	2.1%	25.5%	29.8%	27.7%	8.5%	6.4%				
17 (Other)	33	24.2%	15.2%	18.2%	15.2%	21.2%	6.1%				
18	55	3.6%	1.8%	7.3%	9.1%	12.7%	5.5%	60.0%			
19	57	89.5%	10.5%	0.0%							
20	57	68.4%	31.6%								
21	57	70.2%	29.8%								
22	53	64.2%	3.8%	32.1%	0.0%	0.0%					
23	57	0.0%	0.0%	0.0%	100.0%	0.0%					
24	56	16.1%	32.1%	26.8%	10.7%	8.9%	3.6%	1.8%			
25	56	1.8%	12.5%	25.0%	23.2%	25.0%	10.7%	1.8%			
26	57	59.6%	35.1%	5.3%							
27	57	5.3%	59.6%	26.3%	8.8%						
28	57	0.0%	1.8%	1.8%	0.0%	14.0%	71.9%	10.5%			
29 (a)	56	94.6%	5.4%	0.0%							
29 (b)	56	83.9%	16.1%								
30 (a)	55	74.5%	10.9%	14.5%							
30 (b)	48	79.2%	20.8%								
31	57	5.3%	10.5%	12.3%	7.0%	26.3%	7.0%	12.3%	8.8%	3.5%	7.0%
32	55	40.0%	9.1%	3.6%	3.6%	29.1%	14.5%				
33	57	56.1%	43.9%								
34	56	55.4%	44.6%								
35	57	29.8%	56.1%	14.0%							
36	56	19.6%	26.8%	14.3%	17.9%	10.7%	10.7%				
37	57	73.7%	26.3%								
38	56	48.2%	51.8%								
39	57	66.7%	7.0%	26.3%							
40 (a)	57	28.1%	71.9%								
40 (b)	30	36.7%	63.3%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### **Track Inspector Questionnaire Response Summary Respondents Receiving Training Once Every Year**

	Number of		F	Percentag	e of Rest	ondents	Selecting	This as l	Response		
<b>Question</b>	Responses	#1	<u>#2</u>	#3	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	<u>#10</u>
1	111	9.0%	7.2%	13.5%	9.9%	0.0%	60.4%				
2	112	29.5%	33.0%	17.0%	13.4%	0.0%	1.8%	1.8%	1.8%	0.0%	1.8%
3	111	23.4%	19.8%	16.2%	10.8%	6.3%	23.4%	11070	1.070	0.070	1.076
4	112	84.8%	15.2%	1012170	101070	01570	251170				
5	106	46.2%	53.8%								
6	108	1.9%	10.2%	13.0%	18.5%	25.9%	16.7%	2.8%	7.4%	3.7%	
7	113	89.4%	1.8%	8.8%							
8	110	20.9%	30.0%	23.6%	15.5%	5.5%	4.5%				
9	111	64.9%	28.8%	1.8%	4.5%						
10	113	59.3%	28.3%	6.2%	1.8%	0.0%	1.8%	2.7%			
11	111	6.3%	53.2%	28.8%	5.4%	0.9%	2.7%	2.7%			
12	112	43.8%	48.2%	2.7%	4.5%	0.9%					
13	108	24.1%	18.5%	7.4%	5.6%	1.9%	5.6%	1.9%	35.2%		
14 (a)	112	75.0%	8.9%	16.1%							
14 (b)	106	5.7%	38.7%	24.5%	11.3%	7.5%	2.8%	0.9%	8.5%		
15	111	82.9%	2.7%	14.4%	0.0%						
16	111	0.9%	3.6%	19.8%	45.9%	27.9%	1.8%				
17 (Mainline)*	78	9.0%	17.9%	34.6%	25.6%	6.4%	6.4%				
17 (Other)	56	16.1%	21.4%	21.4%	7.1%	17.9%	16.1%				
18	112	6.3%	8.9%	5.4%	6.3%	20.5%	10.7%	42.0%			
19	112	72.3%	27.7%	0.0%							
20	113	81.4%	18.6%								
21	113	81.4%	18.6%								
22	108	69.4%	3.7%	26.9%	0.0%	0.0%					
23	113	5.3%	24.8%	48.7%	19.5%	1.8%					
24	111	11.7%	30.6%	30.6%	15.3%	7.2%	0.9%	3.6%			
25	111	1.8%	18.9%	30.6%	31.5%	10.8%	3.6%	2.7%			
26	113	44.2%	52.2%	3.5%							
27	113	16.8%	53.1%	27.4%	2.7%						
28	113	0.0%	0.0%	3.5%	3.5%	26.5%	55.8%	10.6%			
29 (a)	109	95.4%	4.6%	0.0%							
29 (b)	110	90.0%	10.0%								
30 (a)	108	71.3%	16.7%	12.0%							
30 (b)	89	83.1%	16.9%								
31	112	3.6%	3.6%	8.0%	12.5%	17.9%	9.8%	17.0%	15.2%	7.1%	5.4%
32	113	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
33	111	45.9%	54.1%								
34	113	46.9%	53.1%								
35	113	24.8%	65.5%	9.7%							
36	113	18.6%	23.0%	21.2%	17.7%	9.7%	9.7%				
37	113	65.5%	34.5%								
38	113	38.1%	61.9%								
39	111	75.7%	1.8%	22.5%							
40 (a)	113	17.7%	82.3%								
40 (b)	64	35.9%	64.1%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### **Track Inspector Questionnaire Response Summary Respondents Receiving Training Once Every 2 Years**

	Number of		F	Percentag	e of Resp	ondents	Selecting	This as	Response		
<b>Question</b>	Responses	#1	<u>#2</u>	<u>#3</u>	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	<u>#10</u>
1	74	8.1%	10.8%	16.2%	2.7%	1.4%	60.8%				
2	7 <del>4</del> 76	32.9%	44.7%	7.9%	0.0%	0.0%	0.0%	3.9%	3.9%	2.6%	3.9%
3	76	22.4%	26.3%	10.5%	5.3%	9.2%	26.3%	3.770	3.770	2.070	5.5 70
4	76	78.9%	21.1%	10.570	3.370	J.2 10	20.5 %				
5	72	62.5%	37.5%								
6	76	0.0%	5.3%	15.8%	17.1%	38.2%	13.2%	5.3%	5.3%	0.0%	
7	75	92.0%	0.0%	8.0%	17.170	50.270	13.270	5.570	5.570	0.070	
8	75	26.7%	41.3%	18.7%	8.0%	4.0%	1.3%				
9	73	53.4%	39.7%	4.1%	2.7%	11070	110 70				
10	76	65.8%	26.3%	5.3%	1.3%	1.3%	0.0%	0.0%			1
11	75	6.7%	46.7%	38.7%	4.0%	4.0%	0.0%	0.0%			
12	74	43.2%	52.7%	1.4%	1.4%	1.4%	0,0,0	0.070			
13	73	20.5%	13.7%	9.6%	11.0%	1.4%	8.2%	6.8%	28.8%		
14 (a)	74	70.3%	6.8%	23.0%							
14 (b)	72	6.9%	40.3%	23.6%	8.3%	8.3%	6.9%	4.2%	1.4%		
15	76	73.7%	2.6%	23.7%	0.0%						
16	75	1.3%	5.3%	12.0%	50.7%	30.7%	0.0%				
17 (Mainline)*	53	0.0%	26.4%	43.4%	13.2%	13.2%	3.8%				
17 (Other)	42	16.7%	11.9%	16.7%	21.4%	9.5%	23.8%				
18	73	2.7%	1.4%	8.2%	17.8%	21.9%	13.7%	34.2%			
19	75	94.7%	5.3%	0.0%							
20	74	71.6%	28.4%								
21	74	79.7%	20.3%								
22	69	60.9%	4.3%	34.8%	0.0%	0.0%					
23	74	6.8%	32.4%	54.1%	6.8%	0.0%					
24	76	13.2%	34.2%	30.3%	19.7%	1.3%	0.0%	1.3%			
25	75	0.0%	17.3%	34.7%	37.3%	4.0%	2.7%	4.0%			
26	76	55.3%	44.7%	0.0%							
27	76	10.5%	46.1%	39.5%	3.9%						
28	74	0.0%	0.0%	4.1%	6.8%	17.6%	68.9%	2.7%			
29 (a)	75	100.0%	0.0%	0.0%							
29 (b)	75	89.3%	10.7%								
30 (a)	76	80.3%	9.2%	10.5%							
30 (b)	63	82.5%	17.5%								
31	76	6.6%	7.9%	9.2%	9.2%	17.1%	9.2%	15.8%	14.5%	6.6%	3.9%
32	76	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%				
33	76	57.9%	42.1%								
34	75	68.0%	32.0%								
35	75	36.0%	49.3%	14.7%							
36	76	9.2%	27.6%	13.2%	31.6%	11.8%	6.6%				
37	76	73.7%	26.3%								
38	76	40.8%	59.2%								
39	75	64.0%	4.0%	32.0%							
40 (a)	75	28.0%	72.0%								
40 (b)	51	43.1%	56.9%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### **Track Inspector Questionnaire Response Summary Respondents Receiving Training Once Every 3 Years**

	Number of		I	Percentag	e of Resp	ondents !	Selecting	This as I	Response		,
Question	Responses	#1	#2	#3	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>
1	34	0.0%	8.8%	11.8%	8.8%	2.9%	67.6%				
2	34	17.6%	41.2%	8.8%	0.0%	0.0%	26.5%	2.9%	2.9%	0.0%	0.0%
3	34	14.7%	23.5%	11.8%	11.8%	5.9%	32.4%				
4	33	87.9%	12.1%								
5	32	40.6%	59.4%								
6	33	9.1%	9.1%	9.1%	18.2%	24.2%	9.1%	9.1%	6.1%	6.1%	
7	34	79.4%	0.0%	20.6%							
8	32	40.6%	31.3%	12.5%	6.3%	3.1%	6.3%				
9	32	46.9%	31.3%	3.1%	18.8%						
10	34	79.4%	14.7%	0.0%	2.9%	0.0%	2.9%	0.0%			
11	34	2.9%	44.1%	23.5%	5.9%	0.0%	0.0%	23.5%			
12	33	45.5%	36.4%	3.0%	15.2%	0.0%					
13	32	18.8%	9.4%	21.9%	0.0%	0.0%	6.3%	12.5%	31.3%		
14 (a)	33	84.8%	0.0%	15.2%							
14 (b)	32	9.4%	46.9%	21.9%	6.3%	6.3%	3.1%	0.0%	6.3%		
15	32	50.0%	18.8%	31.3%	0.0%						
16	33	0.0%	0.0%	9.1%	36.4%	30.3%	24.2%				
17 (Mainline)	25	4.0%	28.0%	48.0%	8.0%	4.0%	8.0%				
17 (Other)	16	31.3%	25.0%	12.5%	6.3%	12.5%	12.5%				
18	33	27.3%	3.0%	9.1%	6.1%	12.1%	18.2%	24.2%			
19	28	75.0%	25.0%	0.0%							
20	31	77.4%	22.6%								
21	32	87.5%	12.5%								
22	28	82.1%	3.6%	14.3%	0.0%	0.0%					
23	30	16.7%	30.0%	40.0%	6.7%	6.7%					
24	31	9.7%	51.6%	19.4%	3.2%	16.1%	0.0%	0.0%			
25	33	3.0%	21.2%	30.3%	42.4%	3.0%	0.0%	0.0%			
26	34	58.8%	41.2%	0.0%							
27	34	11.8%	61.8%	26.5%	0.0%						
28	34	0.0%	0.0%	0.0%	2.9%	38.2%	50.0%	8.8%			
29 (a)	34	100.0%	0.0%	0.0%							
29 (b)	34	91.2%	8.8%								
30 (a)	34	70.6%	11.8%	17.6%							
30 (b)	25	76.0%	24.0%								
31	34	2.9%	5.9%	14.7%	8.8%	11.8%	11.8%	26.5%	14.7%	2.9%	0.0%
32	34	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%				
33	34	50.0%	50.0%								
34	34	50.0%	50.0%								
35	33	27.3%	72.7%	0.0%							
36	34	20.6%	38.2%	17.6%	8.8%	5.9%	8.8%				
37	34	64.7%	35.3%								
38	34	35.3%	64.7%								
39	34	76.5%	2.9%	20.6%							
40 (a)	34	17.6%	82.4%								
40 (b)	18	22.2%	77.8%								

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F;\TRIN: SUMM.XLSX:SI3:73:TLIIHT

#### Track Inspector Questionnaire Response Summary Respondents Receiving Training Once Every 4 Years

	Number of		p	Percentas	ge of Resp	ondents	Selecting	This as I	Response		
Question	Responses	<u>#1</u>	#2	#3	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	#8	<u>#9</u>	<u>#10</u>
1	22	13.6%	4.5%	0.0%	9.1%	0.0%	72.7%				
2	22	18.2%	54.5%	22.7%	0.0%	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%
3	22	13.6%	18.2%	13.6%	13.6%	9.1%	31.8%				
4	22	77.3%	22.7%								
5	22	63.6%	36.4%								
6	22	0.0%	4.5%	4.5%	22.7%	31.8%	18.2%	9.1%	0.0%	9.1%	
7	22	90.9%	0.0%	9.1%							
8	22	22.7%	36.4%	31.8%	9.1%	0.0%	0.0%				
9	20	45.0%	50.0%	5.0%	0.0%						
10	22	81.8%	18.2%	0.0%	0.0%	0.0%	0.0%	0.0%			
11	22	4.5%	40.9%	36.4%	9.1%	4.5%	0.0%	4.5%			
12	20	40.0%	50.0%	5.0%	5.0%	0.0%					
13	21	19.0%	23.8%	9.5%	0.0%	4.8%	9.5%	9.5%	23.8%		
14 (a)	21	90.5%	4.8%	4.8%							
14 (b)	22	9.1%	36.4%	27.3%	18.2%	0.0%	4.5%	0.0%	4.5%		
15	22	77.3%	0.0%	22.7%	0.0%						
16	22	0.0%	0.0%	0.0%	63.6%	31.8%	4.5%				
17 (Mainline)	19	0.0%	42.1%	26.3%	15.8%	5.3%	10.5%				
17 (Other)	12	50.0%	8.3%	33.3%	0.0%	0.0%	8.3%				
18	21	4.8%	9.5%	9.5%	4.8%	23.8%	19.0%	28.6%			
19	22	95.5%	4.5%	0.0%							
20	22	72.7%	27.3%								
21	22	86.4%	13.6%								
22	20	85.0%	0.0%	15.0%	0.0%	0.0%					
23	22	13.6%	27.3%	50.0%	9.1%	0.0%					
24	21	33.3%	19.0%	23.8%	14.3%	9.5%	0.0%	0.0%			
25	22	4.5%	18.2%	22.7%	27.3%	9.1%	18.2%	0.0%			
26	22	54.5%	40.9%	4.5%							
27	22	9.1%	45.5%	45.5%	0.0%						
28	22	4.5%	4.5%	0.0%	4.5%	31.8%	50.0%	4.5%			
29 (a)	21	95.2%	4.8%	0.0%							
29 (b)	22	86.4%	13.6%								
30 (a)	22	81.8%	9.1%	9.1%							
30 (b)	18	83.3%	16.7%								
31	22	9.1%	4.5%	4.5%	4.5%	22.7%	4.5%	13.6%	27.3%	9.1%	0.0%
32	22	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%				
33	22	59.1%	40.9%								
34	22	50.0%	50.0%								
35	22	36.4%	50.0%	13.6%							
36	20	15.0%	30.0%	15.0%	10.0%	10.0%	20.0%				
37	22	68.2%	31.8%								
38	22	45.5%	54.5%								
39	22	40.9%	13.6%	45.5%							
40 (a)	22	36.4%	63.6%								
40 (b)	15	46.7%	53.3%								
- \-/											

#### **Track Inspector Questionnaire Response Summary** Respondents Receiving Training Less Frequently Than Once Every 4 Years

	Number of	Percentage of Respondents Selecting This as Response										
<b>Question</b>	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>	
1	110	2.50	11.00/	12 60/	5.9%	1.7%	64.4%					
1	118	2.5%	11.9%	13.6%		0.0%	2.6%	2.6%	1.7%	0.9%	2.6%	
2	117	35.9%	36.8%	13.7%	3.4%			2.0%	1.770	0.970	2.070	
3	118	18.6%	19.5%	11.0%	9.3%	12.7%	28.8%					
4	117	81.2%	18.8%									
5	116	49.1%	50.9%	40.40	0.5.00	077 001	10.00	4.207	2.50	0.00		
6	115	0.9%	4.3%	19.1%	25.2%	27.0%	13.0%	4.3%	3.5%	2.6%		
7	118	93.2%	0.0%	6.8%	11.00	7.00	0.00					
8	115	20.9%	33.0%	27.8%	11.3%	7.0%	0.0%					
9	117	60.7%	33.3%	1.7%	4.3%		0.00	0.00				
10	118	74.6%	15.3%	5.1%	2.5%	0.8%	0.8%	0.8%				
11	116	6.9%	46.6%	31.9%	6.9%	2.6%	0.9%	4.3%				
12	117	52.1%	42.7%	0.9%	3.4%	0.9%						
13	112	18.8%	18.8%	10.7%	8.9%	4.5%	2.7%	9.8%	25.9%			
14 (a)	115	80.0%	4.3%	15.7%								
14 (b)	114	3.5%	42.1%	20.2%	13.2%	2.6%	6.1%	1.8%	10.5%			
15	117	76.1%	6.0%	17.9%	0.0%							
16	117	1.7%	1.7%	13.7%	54.7%	25.6%	2.6%					
17 (Mainline)*	90	4.4%	20.0%	43.3%	24.4%	5.6%	2.2%					
17 (Other)*	70	18.6%	24.3%	14.3%	11.4%	8.6%	22.9%					
18	116	3.4%	6.0%	6.0%	13.8%	15.5%	12.1%	43.1%				
19	117	87.2%	12.0%	0.9%								
20	118	72.0%	28.0%									
21	118	75.4%	24.6%									
22	110	66.4%	4.5%	29.1%	0.0%	0.0%						
23	116	1.7%	32.8%	50.9%	13.8%	0.9%						
24	118	15.3%	34.7%	32.2%	6.8%	5.9%	1.7%	3.4%				
25	115	2.6%	16.5%	33.9%	27.8%	12.2%	2.6%	4.3%				
26	118	53.4%	44.1%	2.5%								
27	117	3.4%	53.8%	33.3%	9.4%							
28	117	0.0%	0.0%	6.0%	5.1%	22.2%	61.5%	5.1%				
29 (a)	117	94.0%	3.4%	2.6%								
29 (b)	112	79.5%	20.5%									
30 (a)	116	67.2%	16.4%	16.4%								
30 (b)	91	70.3%	29.7%									
31	117	13.7%	13.7%	16.2%	10.3%	22.2%	5.1%	10.3%	2.6%	5.1%	0.9%	
32	118	0.0%	0.0%	0.0%		100.0%	0.0%					
33	118	72.0%	28.0%	0.0								
34	116	69.0%	31.0%									
35	118	47.5%	39.0%	13.6%								
36	117	12.8%	24.8%	22.2%	20.5%	7.7%	12.0%					
37	117	80.3%	19.7%	, , , , , , , , , , , , , , , , , , ,	20.5 /0	70	12.070					
38	118	44.9%	55.1%									
39	118	52.5%	10.2%	37.3%								
40 (a)	118	39.8%	60.2%	21.270								
	66	37.9%	62.1%									
40 (b)	00	31.970	02.170									

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F:\TRIN: SUMM.XLSX:SIM4:73:TLIIHT

#### **Track Inspector Questionnaire Response Summary Respondents Never Receiving Training**

	Number of		F	Percentag	e of Resp	ondents	Selecting	This as l	Response		
<b>Question</b>	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	#10
1	72	9.7%	11.1%	13.9%	8.3%	1.4%	55.6%				
2	72	13.9%	43.1%	8.3%	11.1%	0.0%	4.2%	2.8%	6.9%	0.0%	9.7%
3	72	33.3%	19.4%	9.7%	11.1%	6.9%	19.4%	2.670	0.9 70	0.070	9.1 70
4	71	33.3 <i>%</i> 84.5 <i>%</i>	15.5%	9.170	11.170	0.970	19.470				
5	70	60.0%	40.0%								
6	67	3.0%	13.4%	11.9%	19.4%	20.9%	16.4%	6.0%	6.0%	3.0%	
7	73	91.8%	0.0%	8.2%	19,470	20.970	10.470	0.0%	0.070	3.070	
8	71	28.2%	31.0%	26.8%	8.5%	4.2%	1.4%				
9	71	52.1%	42.3%	1.4%	4.2%	4.270	1,470				
10	71	71.8%	18.3%	5.6%	2.8%	0.0%	0.0%	1.4%			
11	71	8.5%	43.7%	31.0%	8.5%	0.0%	0.0%	8.5%			
12	69	46.4%	46.4%	1.4%	2.9%	2.9%	0.070	0.570			
13	71	14.1%	14.1%	11.3%	4.2%	5.6%	4.2%	9.9%	36.6%		
	73	71.2%	2.7%	26.0%	4.270	3.0%	4.270	9.970	30.070		
14 (a)		5.7%		15.7%	14.3%	5 70%	5.7%	0.0%	4.3%		
14 (b) 15	70 70		48.6%	20.0%	0.0%	5.7%	3.170	0.0%	4.370		
16	70 71	71.4%	8.6% 7.0%	11.3%	53.5%	18.3%	5.6%				
		4.2%					3.0% 10.9%				
17 (Mainline)*	55	10.9% 20.9%	21.8%	32.7% 18.6%	21.8% 14.0%	1.8%					
17 (Other)	43		14.0%			14.0%	18.6%	45 10%			
18	71	5.6%	8.5%	8.5%	12.7%	9.9%	9.9%	45.1%			
19	67 70	77.6%	22.4%	0.0%							
20	70	75.7%	24.3%								
21	69 70	87.0%	13.0%	14207	0.007	1 401					
22	70 73	75.7%	8.6%	14.3%	0.0%	1.4%					
23	73	1.4%	47.9%	34.2%	11.0%	5.5%	4.2%	0.0%			
24 25	71 73	21.1%	29.6%	36.6%	2.8%	5.6%					
23 26	73	1.4% 58.9%	24.7% 39.7%	37.0% 1.4%	23.3%	6.8%	4.1%	2.7%			
20 27	73				0.60						
28	73 68	6.8%	43.8%	39.7% 5.9%	9.6%	29.4%	48.5%	4.4%			
	72	0.0% 94.4%	0.0% 5.6%	0.0%	11.8%	29.4%	46.5%	4,4%			
29 (a) 29 (b)	72	62.5%	37.5%	0.0%							
	72	68.1%		12 00%							
30 (a)	58	60.3%	18.1%	13.9%							
30 (b) 31	71	31.0%	39.7% 14.1%	18.3%	5.6%	18.3%	7.0%	1.4%	1.4%	0.0%	2.8%
32	73	0.0%	0.0%	0.0%	0.0%		100.0%	1.470	1.470	0.0%	2.070
33	73	59.7%	40.3%	0.076	0.0 %	0.0 %	100.070				
34	72	68.1%									
34 35	73	34.2%	31.9% 45.2%	20.5%							
35 36	73 73	34.2% 21.9%	43.2% 16.4%	20.3% 15.1%	21 00%	5.5%	19.2%				
30 37	73 72	77.8%	22.2%	13.170	21.9%	5.570	17.470				
38	73	45.2%	54.8%								
30 39	73 72	45.8%	11.1%	43.1%							
40 (a)	69	43.8% 37.7%	62.3%	45.170							
40 (a) 40 (b)	33	33.3%	66.7%								
40 (0)	33	33.370	00.170								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

# Percentage of Respondents Answering Yes to Questions 33, 34, 35, 37, 38, 40 (a) and 40 (b) Track Inspector Questionnaire Response Summary

5.6% Percentage of Respondents Answering Yes to Exactly This Number of the Seven Questions 16.1% (A) 14.5% 13.7%  $\omega$ 16.9% 13.3% W| 13.3% 6.5% Number of Respondents **Providing Responses to** All Seven Questions 248

#### **Track Inspector Questionnaire Response Summary Respondents Answering Yes to Question 33**

	Number of		F	Percentag	e of Resp	ondents	Selecting	This as l	Response		
<b>Question</b>	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>
1	259	6.9%	11.6%	14.3%	8.9%	0.8%	57.5%				
2	260	36.2%	33.1%	12.3%	3.8%	0.0%	1.9%	3.1%	4.2%	0.8%	4.6%
3	261	21.1%	23.8%	11.5%	11.1%	8.0%	24.5%				
4	260	81.2%	18.8%								
5	251	54.6%	45.4%								
6	253	1.2%	7.5%	15.8%	20.2%	27.7%	15.4%	5.1%	3.6%	3.6%	
7	263	95.1%	0.4%	4.6%							
8	255	20.4%	32.5%	28.6%	12.2%	4.3%	2.0%				
9	254	57.9%	35.8%	2.4%	3.9%						
10	261	70.5%	19.5%	5.7%	1.9%	0.8%	0.8%	0.8%			
11	258	6.2%	48.8%	31.8%	6.2%	1.6%	0.8%	4.7%			
12	254	45.7%	47.2%	2.4%	3.1%	1.6%					
13	250	16.8%	14.8%	12.0%	7.6%	4.0%	5.2%	10.4%	29.2%		
14 (a)	257	74.7%	5.1%	20.2%							
14 (b)	250	5.6%	40.8%	20.8%	12.4%	7.2%	3.6%	2.0%	7.6%		
15	257	73.2%	7.0%	19.8%	0.0%						
16	260	2.3%	3.1%	11.9%	51.2%	29.2%	2.3%				
17 (Mainline)*	197	5.1%	18.3%	41.1%	24.9%	7.1%	3.6%				
17 (Other)*	148	16.9%	18.9%	18.2%	12.2%	13.5%	20.3%				
18	255	3.9%	6.7%	6.3%	9.8%	19.6%	15.3%	38.4%			
19	254	86.6%	13.0%	0.4%							
20	262	76.0%	24.0%								
21	261	82.8%	17.2%								
22	247	66.0%	5.3%	28.7%	0.0%	0.0%					
23	258	4.3%	32.9%	48.1%	12.4%	2.3%					
24	257	13.6%	33.5%	29.6%	11.7%	8.2%	1.6%	1.9%			
25	257	1.2%	16.7%	33.5%	31.1%	8.2%	5.1%	4.3%			
26	262	64.1%	34.0%	1.9%							
27	261	4.6%	47.9%	41.8%	5.7%						
28	258	0.4%	0.4%	3.9%	6.2%	25.2%	58.1%	5.8%			
29 (a)	259	96.1%	3.1%	0.8%							
29 (b)	256	80.1%	19.9%								
30 (a)	259	69.9%	16.2%	13.9%							
30 (b)	203	71.9%	28.1%								
31	261	14.6%	11.5%	14.6%	9.6%	17.2%	6.9%	14.6%	6.1%	3.1%	1.9%
32	253	20.2%	17.4%	6.7%	5.1%	33.6%	17.0%				
33	263	100.0%	0.0%								
34	260	79.2%	20.8%								
35	260	46.9%	38.1%	15.0%							
36	258	10.9%	23.3%	18.2%	23.3%	10.1%	14.3%				
37	262	84.4%	15.6%								
38	261	66.7%	33.3%								
39	261	54.0%	8.4%	37.5%							
40 (a)	257	41.6%	58.4%								
40 (b)	152	42.1%	57.9%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F:\TRIN: SUMM.XLSX:S33:73:TLHMHT

#### **Track Inspector Questionnaire Response Summary Respondents Answering No to Question 33**

	Number of	Percentage of Respondents Selecting This as Response										
Question	Responses	<u>#1</u>	<u>#2</u>	#3	#4	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>	
1	186	7.5%	7.0%	11.8%	4.8%	1.6%	67.2%					
2	187	18.2%	48.7%	11.2%	10.2%	0.0%	7.0%	1.6%	1.1%	0.5%	1.6%	
3	186	25.3%	16.7%	13.4%	8.1%	9.1%	27.4%					
4	186	84.4%	15.6%									
5	178	48.9%	51.1%									
6	182	2.7%	8.2%	12.1%	20.3%	28.0%	13.7%	6.0%	7.1%	1.6%		
7	186	84.9%	0.5%	14.5%								
8	181	29.3%	35.4%	18.2%	8.8%	6.1%	2.2%					
9	182	54.9%	36.8%	2.2%	6.0%							
10	187	67.4%	23.0%	4.3%	2.1%	0.5%	1.1%	1.6%				
11	184	6.5%	45.1%	31.0%	7.1%	2.2%	1.6%	6.5%				
12	183	46.4%	44.8%	2.2%	6.0%	0.5%						
13	179	21.8%	18.4%	8.9%	4.5%	1.7%	5.6%	4.5%	34.6%			
14 (a)	184	78.8%	5.4%	15.8%								
14 (b)	176	5.1%	45.5%	22.2%	11.4%	3.4%	6.8%	0.6%	5.1%			
15	185	75.7%	4.9%	19.5%	0.0%							
16	183	0.5%	3.8%	15.8%	49.2%	24.0%	6.6%					
17 (Mainline)*	133	6.0%	27.8%	37.6%	14.3%	5.3%	9.0%					
17 (Other)	101	26.7%	18.8%	15.8%	11.9%	7.9%	18.8%					
18	182	9.3%	6.0%	8.2%	13.7%	14.3%	8.2%	40.1%				
19	179	77.1%	22.9%	0.0%								
20	180	73.9%	26.1%									
21	180	76.7%	23.3%									
22	171	74.9%	3.5%	21.1%	0.0%	0.6%						
23	182	6.0%	31.9%	46.2%	13.7%	2.2%						
24	181	16.6%	32.6%	33.7%	8.8%	3.9%	1.7%	2.8%				
25	184	2.7%	23.4%	32.6%	30.4%	8.7%	1.6%	0.5%				
26	187	36.9%	60.4%	2.7%								
27	187	17.1%	54.0%	24.6%	4.3%							
28	185	0.0%	0.0%	4.3%	4.9%	24.9%	58.9%	7.0%				
29 (a)	184	95.7%	3.8%	0.5%								
29 (b)	181	86.2%	13.8%									
30 (a)	182	73.6%	12.6%	13.7%								
30 (b)	149	80.5%	19.5%									
31	183	8.2%	5.5%	8.7%	8.7%	22.4%	9.3%	10.4%	15.3%	7.7%	3.8%	
32	180	33.3%	17.8%	9.4%	5.0%	18.3%	16.1%					
33	187	0.0%	100.0%									
34	185	35.1%	64.9%									
35	186	17.7%	71.0%	11.3%								
36	187	23.0%	26.7%	20.3%	16.0%	7.0%	7.0%					
37	186	57.0%	43.0%									
38	185	5.9%	94.1%									
39	183	69.4%	4.9%	25.7%								
40 (a)	187	13.4%	86.6%									
40 (b)	104	29.8%	70.2%									

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F:\TRIN: SUMM.XLSX:S33N:73:TLHLHT

#### **Track Inspector Questionnaire Response Summary Respondents Answering Yes to Question 34**

	Number of	Percentage of Respondents Selecting This as Response									
<b>Question</b>	Responses	#1	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>
	260	7.40	10.20	16.00	0.00	1 107	55 DO1				
1	269	7.4%	12.3%	16.0%	8.2%	1.1%	55.0%	0.70	2.00/	0.7%	2 20%
2	271	35.1%	38.7%	11.4%	4.8%	0.0%	2.2%	0.7%	3.0%	0.7%	3.3%
3	271	24.0%	24.7%	8.9%	9.2%	7.0%	26.2%				
4	270	79.6%	20.4%								
5	258	57.8%	42.2%		40 ***	20.60	1.1.00	F 0.01	1.601	2.50	
6	260	0.8%	7.3%	15.8%	18.5%	29.6%	14.2%	5.8%	4.6%	3.5%	
7	273	94.9%	0.4%	4.8%	44.00	1.600	0.70				
8	263	21.3%	32.3%	27.4%	11.8%	4.6%	2.7%				
9	264	55.3%	38.6%	2.3%	3.8%			4.40			
10	271	66.1%	22.5%	5.9%	2.2%	1.1%	1.1%	1.1%			
11	270	4.4%	49.3%	31.5%	6.7%	2.6%	1.1%	4.4%			
12	265	44.9%	47.5%	2.6%	3.8%	1.1%			***		
13	260	13.1%	16.2%	12.7%	7.3%	2.3%	5.8%	11.9%	30.8%		
14 (a)	269	75.1%	4.1%	20.8%							
14 (b)	263	5.3%	38.0%	22.1%	13.7%	6.5%	4.9%	1.5%	8.0%		
15	268	71.6%	6.0%	22.4%	0.0%						
16	268	2.2%	2.2%	11.9%	49.3%	31.7%	2.6%				
17 (Mainline)*	200	4.5%	21.0%	40.5%	23.5%	6.5%	4.0%				
17 (Other)*	154	22.1%	18.2%	16.2%	11.0%	13.0%	19.5%				
18	266	3.4%	6.4%	8.3%	10.2%	19.9%	12.4%	39.5%			
19	266	85.3%	14.3%	0.4%							
20	270	80.0%	20.0%								
21	269	83.6%	16.4%								
22	255	67.1%	5.5%	27.1%	0.0%	0.4%					
23	267	4.5%	35.6%	46.1%	11.6%	2.2%					
24	266	15.0%	32.3%	32.3%	8.6%	6.8%	2.3%	2.6%			
25	267	0.7%	13.5%	34.1%	31.8%	10.1%	4.5%	5.2%			
26	273	65.9%	32.6%	1.5%							
27	272	2.9%	50.0%	41.5%	5.5%						
28	269	0.4%	0.4%	4.5%	6.3%	26.8%	55.0%	6.7%			
29 (a)	272	96.7%	2.6%	0.7%							
29 (b)	267	79.4%	20.6%								
30 (a)	271	74.9%	12.2%	12.9%							
30 (b)	222	73.9%	26.1%								
31	271	14.4%	10.7%	15.1%	10.0%	18.8%	7.0%	11.1%	7.7%	3.3%	1.8%
32	261	20.3%	19.5%	6.5%	4.2%	30.7%	18.8%				
33	271	76.0%	24.0%								
34	273	100.0%	0.0%								
35	271	44.6%	38.7%	16.6%							
36	268	10.8%	20.5%	18.7%	23.5%	10.8%	15.7%				
37	272	84.9%	15.1%								
38	271	56.8%	43.2%								
39	270	56.3%	8.5%	35.2%							
40 (a)	268	43.3%	56.7%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F;\TRIN: SUMM.XLSX:S34:73:TLHMHT

#### **Track Inspector Questionnaire Response Summary Respondents Answering No to Question 34**

	Number of	Percentage of Respondents Selecting This as Response										
Question	Responses	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>	
_	1.77.0	<b></b> 0.01	# O.01	0.04	<b>7</b> 0.01	1.00	70.20					
1	173	5.8%	5.8%	9.2%	5.8%	1.2%	72.3%	F 001	0.007	0.601	2.00	
2	173	19.1%	40.5%	13.3%	8.7%	0.0%	6.9%	5.2%	2.9%	0.6%	2.9%	
3	173	20.2%	15.0%	17.9%	11.0%	10.4%	25.4%					
4	173	87.3%	12.7%									
5	168	43.5%	56.5%						<b>-</b> 0~	2.20		
6	172	3.5%	8.7%	11.0%	22.7%	25.6%	15.7%	4.7%	5.8%	2.3%		
7	173	84.4%	0.6%	15.0%								
8	172	27.9%	36.0%	19.2%	9.3%	6.4%	1.2%					
9	171	58.5%	32.7%	2.3%	6.4%		0.604					
10	174	74.1%	18.4%	4.0%	1.7%	0.0%	0.6%	1.1%				
11	172	8.7%	44.2%	32.0%	6.4%	0.6%	1.2%	7.0%				
12	172	47.1%	44.8%	1.7%	5.2%	1.2%						
13	168	28.0%	16.7%	7.7%	4.8%	4.2%	4.8%	2.4%	31.5%			
14 (a)	172	77.9%	7.0%	15.1%								
14 (b)	163	5.5%	49.7%	20.2%	9.2%	4.3%	4.9%	1.2%	4.9%			
15	172	77.3%	6.4%	16.3%	0.0%							
16	173	0.6%	4.6%	16.2%	52.6%	19.7%	6.4%					
17 (Mainline)*	130	6.9%	24.6%	37.7%	16.2%	6.2%	8.5%					
17 (Other)	93	19.4%	21.5%	19.4%	12.9%	9.7%	17.2%					
18	171	10.5%	6.4%	5.3%	13.5%	13.5%	12.3%	38.6%				
19	167	78.4%	21.6%	0.0%								
20	170	68.2%	31.8%									
21	170	74.7%	25.3%									
22	162	74.1%	3.1%	22.8%	0.0%	0.0%						
23	172	5.8%	28.5%	49.4%	14.5%	1.7%						
24	170	15.3%	32.9%	30.6%	12.9%	5.9%	0.6%	1.8%				
25	172	2.9%	28.5%	31.4%	29.1%	5.8%	2.3%	0.0%				
26	174	32.2%	64.4%	3.4%								
27	173	20.8%	51.4%	23.1%	4.6%							
28	171	0.0%	0.0%	3.5%	4.7%	24.0%	62.6%	5.3%				
29 (a)	168	94.6%	4.8%	0.6%								
29 (b)	168	88.1%	11.9%									
30 (a)	168	66.7%	18.5%	14.9%								
30 (b)	129	79.1%	20.9%									
31	171	8.2%	5.8%	7.0%	8.2%	20.5%	9.9%	15.8%	12.9%	7.6%	4.1%	
32	171	35.1%	14.0%	9.9%	6.4%	21.1%	13.5%					
33	174	31.0%	69.0%									
34	174	0.0%	100.0%									
35	173	19.1%	72.8%	8.1%								
36	174	24.1%	30.5%	18.4%	16.1%	5.7%	5.2%					
37	174	55.2%	44.8%									
38	173	17.9%	82.1%									
39	172	67.4%	4.1%	28.5%								
40 (a)	174	9.2%	90.8%									
40 (b)	95	31.6%	68.4%									

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

#### **Track Inspector Questionnaire Response Summary Respondents Answering Yes to Question 35**

	Number of		P	ercentag	e of Resp	ondents	Selecting	This as l	Response		
Question	Responses	<u>#1</u>	<u>#2</u>	#3	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	#10
					0.00	2.00	#1 0 <i>0</i> 4				
1	153	7.2%	13.1%	17.0%	9.8%	2.0%	51.0%	1.00	4 501	0.601	1.00
2	154	33.1%	35.1%	18.8%	3.9%	0.0%	0.6%	1.3%	4.5%	0.6%	1.9%
3	153	21.6%	27.5%	11.8%	7.8%	9.8%	21.6%				
4	153	81.0%	19.0%								
5	150	56.0%	44.0%								
6	150	1.3%	6.7%	11.3%	23.3%	35.3%	12.0%	4.0%	4.0%	2.0%	
7	156	94.9%	0.0%	5.1%							
8	150	19.3%	35.3%	28.7%	13.3%	2.7%	0.7%				
9	150	57.3%	38.7%	1.3%	2.7%						
10	156	64.7%	23.7%	6.4%	3.2%	1.3%	0.0%	0.6%			
11	153	7.8%	44.4%	30.7%	9.2%	2.6%	1.3%	3.9%			
12	154	42.2%	51.3%	1.9%	1.9%	2.6%					
13	149	14.8%	19.5%	14.1%	7.4%	2.7%	7.4%	12.8%	21.5%		
14 (a)	153	79.1%	5.2%	15.7%							
14 (b)	153	4.6%	34.6%	22.9%	14.4%	6.5%	4.6%	2.6%	9.8%		
15	154	77.3%	3.9%	18.8%	0.0%						
16	152	2.0%	3.3%	16.4%	47.4%	30.3%	0.7%				
17 (Mainline)*	116	6.0%	15.5%	40.5%	29.3%	6.9%	1.7%				
17 (Other)*	97	19.6%	19.6%	13.4%	13.4%	15.5%	18.6%				
18	152	3.3%	6.6%	6.6%	11.8%	18.4%	12.5%	40.8%			
19	153	86.9%	12.4%	0.7%							
20	154	79.9%	20.1%								
21	153	86.3%	13.7%								
22	148	66.2%	3.4%	30.4%	0.0%	0.0%					
23	151	5.3%	32.5%	48.3%	11.3%	2.6%					
24	154	16.2%	40.9%	24.7%	9.1%	6.5%	1.3%	1.3%			
25	152	2.0%	13.2%	28.9%	32.2%	11.2%	5.9%	6.6%			
26	156	69.9%	28.8%	1.3%							
27	155	1.9%	36.8%	49.0%	12.3%						
28	154	0.0%	0.0%	5.8%	3.2%	23.4%	60.4%	7.1%			
29 (a)	155	96.8%	2.6%	0.6%							
29 (b)	152	71.7%	28.3%								
30 (a)	156	73.7%	14.7%	11.5%							
30 (b)	129	62.0%	38.0%								
31	154	15.6%	8.4%	18.2%	9.1%	17.5%	7.8%	11.7%	5.8%	3.9%	1.9%
32	153	18.3%	17.6%	5.9%	5.2%	36.6%	16.3%				
33	155	78.7%	21.3%								
34	154	78.6%	21.4%								
35	156	100.0%	0.0%	0.0%							
36	155	7.1%	23.2%	21.9%	21.3%	11.0%	15.5%				
37	155	82.6%	17.4%								
38	156	64.1%	35.9%								
39	156	48.7%	11.5%	39.7%							
40 (a)	155	51.6%	48.4%								
40 (b)	96	43.8%	56.3%								

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F:\TRIN: SUMM.XLSX:S35:73:TLHMHT

#### **Track Inspector Questionnaire Response Summary Respondents Answering No to Question 35**

	Number of	Percentage of Respondents Selecting This as Response										
Question	Responses	<u>#1</u>	<u>#2</u>	#3	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>	
1	231	6.5%	6.9%	9.5%	5.6%	0.4%	71.0%					
2	232	22.4%	43.1%	8.6%	8.6%	0.0%	7.3%	3.9%	1.7%	0.4%	3.9%	
3	233	21.0%	17.2%	13.7%	12.0%	7.7%	28.3%					
4	231	85.7%	14.3%									
5	223	47.1%	52.9%									
6	223	2.7%	9.0%	13.9%	17.0%	23.3%	16.6%	7.2%	6.7%	3.6%		
7	232	86.2%	0.9%	12.9%								
8	228	25.9%	34.6%	20.6%	9.6%	6.1%	3.1%					
9	227	56.8%	33.9%	2.6%	6.6%							
10	233	71.2%	19.7%	4.3%	1.7%	0.0%	1.7%	1.3%				
11	231	6.1%	45.9%	34.6%	4.8%	1.3%	0.9%	6.5%				
12	226	47.3%	43.4%	2.2%	6.6%	0.4%						
13	224	24.1%	15.6%	7.1%	5.4%	3.6%	5.4%	5.4%	33.5%			
14 (a)	229	76.9%	4.8%	18.3%								
14 (b)	220	5.5%	49.5%	18.2%	11.4%	4.5%	4.5%	0.9%	5.5%			
15	228	71.5%	8.3%	20.2%	0.0%							
16	230	0.4%	2.6%	12.2%	53.0%	24.8%	7.0%					
17 (Mainline)*	173	4.6%	24.9%	39.3%	17.3%	5.2%	8.7%					
17 (Other)	111	21.6%	20.7%	19.8%	11.7%	9.9%	16.2%					
18	230	8.7%	6.1%	7.4%	11.3%	15.7%	13.0%	37.8%				
19	222	80.2%	19.8%	0.0%								
20	228	71.9%	28.1%									
21	229	76.4%	23.6%									
22	215	71.6%	6.0%	22.3%	0.0%	0.0%						
23	231	4.8%	32.5%	47.6%	13.9%	1.3%						
24	227	14.5%	30.4%	35.2%	10.6%	6.2%	0.9%	2.2%				
25	231	2.2%	23.4%	35.5%	29.4%	6.1%	2.2%	1.3%				
26	233	40.3%	56.2%	3.4%								
27	232	16.8%	59.5%	22.8%	0.9%							
28	231	0.4%	0.0%	3.0%	6.9%	26.4%	55.8%	7.4%				
29 (a)	227	96.5%	3.5%	0.0%								
29 (b)	228	90.4%	9.6%									
30 (a)	226	72.1%	15.9%	11.9%								
30 (b)	182	84.6%	15.4%									
31	232	7.3%	8.2%	7.8%	9.5%	22.0%	7.8%	14.7%	13.4%	6.0%	3.4%	
32	225	32.9%	16.4%	10.7%	4.9%	20.4%	14.7%					
33	231	42.9%	57.1%									
34	231	45.5%	54.5%									
35	233	0.0%		0.0%								
36	232	20.7%	26.7%	17.7%	18.1%	7.3%	9.5%					
37	232	65.1%	34.9%									
38	232	24.6%	75.4%									
39	231	71.9%	3.9%	24.2%								
40 (a)	229	14.8%	85.2%									
40 (b)	116	32.8%	67.2%									

<sup>\*</sup> Respondents listing multiple answers were not included in summary.

SOURCE: The Fontana Group, Inc.
DATA: Questionnaire Response Data File (Magnetic Media).
F:\TRIN: SUMM.XLSX:S35N:73:TLHLHT

#### EDWARD M. STOCKTON

#### **EDUCATION**

University of Arizona, Tucson, AZ

M.S., Agriculture and Resource Economics (Applied Econometrics), 2010.

Western Michigan University, Kalamazoo, MI B.A., Economics, 1998

#### **POSITIONS**

The Fontana Group, Inc., Tucson, Arizona

Director of Economics Services: 2011 - Present

Case Manager: 2005 - 2011 Senior Analyst: 2000 - 2005

Analyst: 1998 - 1999

Old Ina Corporation Tucson, AZ

Supervisor, Analyst, Manager: 1995 - 1998

#### RESEARCH AND CONSULTING EXPERIENCE

Mr. Stockton manages the analysis of documents, data and markets in the retail automobile industry and other industries. He has provided consultation to automobile dealers and attorneys in numerous areas including:

- Retail automobile franchising, economics and marketing
- Allocation of new vehicles during shortages
- Franchise terminations
- Franchise additions and relocations
- Analysis of manufacturer customer satisfaction measurement programs
- Customer satisfaction measurement
- Sales and profitability forecasts
- Financial analysis
- Statistical and econometric analyses
- Consumer credit
- Economic theory

#### REPRESENTATIVE CLIENT ASSIGNMENTS

Bredemann Family of Dealerships, Park Ridge, IL, 2011-.

Bass Sox Mercer, Tallahassee, FL, 2011-.

The Collection, Coral Gables, FL, 2011.

Magic City Ford v. Ford Motor Company, Roanoke, VA, 2010-2011.

Bob Wade AutoWorld v. Ford Motor Company, Harrisonburg, VA, 2010-2011.

East West Lincoln Mercury, Landover Hills, MD, 2010-2011.

Stevens Love, Longview, TX, 2010-2011.

JP Chevrolet, Peru, IL, 2010-2011.

Bellavia & Gentile, Mineola, NY, 2010-2011.

Brotherhood of Maintenance of Way Employees Division, Washington, DC, 2010-2011.

Hayes Leasing v. Wiesner Commercial Truck Center, Houston, TX, 2010.

Link-Belt Construction Equipment Company v. Road Machinery & Supplies Co., Minneapolis, MN, 2010-.

Provided deposition testimony.

*Elliott Equipment Co., Inc. v. Navistar, Inc.*, Easton, Maryland, 2010-. Provided deposition testimony.

*Rally Auto Group, Inc. v. General Motors, LLC,* Palmdale, CA, 2010. Provided hearing testimony.

Edmark Auto, Inc., v. General Motors, LLC, Nampa, ID, 2010.

Gurley-Leep Dodge, Inc. n/k/a Gurley Leep Dodge, LLC v. Chrysler Group, LLC, Mishawaka, IN, 2010.

Gurley-Leep Buick v. General Motors, LLC, Mishawaka, IN, 2010.

Leep Chev, LLC, v. General Motors, LLC, South Bend, IN, 2010.

*Mike Finnin Motors, Inc., v. Chrysler Group LLC*, Dubuque, IA, 2010. Provided hearing testimony.

Sedars Motor Co., Inc. and Community Motors of Mason City, Inc. v. General Motors LLC, Cedar Falls, IA, 2010.

Burke, Warren, MacKay & Serritella, P.C., Chicago, IL, 2010-.

First Family, Inc. d/b/a Bredemann Chevrolet, v. General Motors, LLC, Park Ridge, IL, 2010.

Lou Bachrodt Chevrolet Co. d/b/a Lou Bachrodt Jeep, v. Chrysler Group, LLC, Rockford, IL, 2010.

Provided hearing testimony.

Cape County Auto Park I, Inc., v. Chrysler Group, LLC, Cape Girardeau, MO, 2010. Provided hearing testimony.

Fury Dodge, LLC v. Chrysler Group, LLC, Lake Elmo, MN, 2010. Provided hearing testimony.

Midtown Motors, Inc., d/b/a John Howard Motors v. Chrysler Group LLC, Morgantown, WV, 2010.

Provided hearing testimony.

Deur Speet Motors, Inc. v. General Motors, LLC, Fremont, MI, 2010.

Village Chevrolet-Buick-Oldsmobile, Inc., v. General Motors LLC, Carthage, MO, 2010.

Arenson & Maas, Cedar Rapids, IA, 2010

Nyemaster, Goode, West, Hansell & O'Brien, PC, Des Moines, IA, 2010

C. Basil Ford, Inc. v. Ford Motor Company, Buffalo, NY, 2010.

Leonard, Street & Deinard, Minneapolis, MN, 2010.

Dady & Gardner, Minneapolis, MN, 2010.

Star Houston, Inc., d/b/a Star Motor Cars v. Mercedes-Benz USA, LLC, Houston, TX, 2009 - .

Mente Chevrolet Oldsmobile, Inc., F/K/A Mente Chevrolet, Inc. T/A Mente Chevrolet and Mente Chrysler Dodge, Inc. and Donald M. Mente v. GMAC, Kutztown, PA, 2009-.

Long-Lewis, Inc. v. Sterling Truck Corporation, Besemer, AL, 2009-.

Gossett Motor Cars, LLC, v. Hyundai Motor America and Homer Skelton Auto Sales, LLC, Memphis, TN, 2009-2010.

In re: CHRYSLER LLC, et al., v. Debtors, Chapter 11, New York, NY, 2009.

Cooper and Walinski, LPA, 2009.

Jennings Motor Company, Inc., d/b/a Springfield Toyota v. Toyota Motor Sales USA, Inc., Springfield, VA, 2008-.

General Motors v. Harry Brown's and (counterclaim) Harry Brown's and Faribault v. General Motors, Faribault, MN, 2008.

Provided declaration.

Nick Alexander Imports v. BMW of North America, Beverly Hills, CA, 2008.

Monroeville Chrysler v. DaimlerChrysler Motors Company, Pittsburgh, PA, 2008.

Bowser Cadillac, LLC, v. General Motors Corporation and Saab Cars USA, Inc., Pittsburgh, PA, 2008-2009.

*Carlsen Subaru, vs. Subaru of America, Inc.*, San Francisco, CA, 2008. Provided deposition and hearing testimony.

Suburban Dodge of Berwyn, Inc., and Lepetomane XXII, Inc., v. DaimlerChrysler Motors Company, LLC and DaimlerChrysler Financial Services Americas LLC, Chicago, IL, 2007-2008.

Provided deposition testimony.

Wiggin & Nourie, P.A., Manchester, NH, 2007-2008.

McCall-T LTD., a Texas limited partnership d/b/a Sterling McCall Toyota & Sterling McCall Scion, et al., v. Gulf States Toyota, Inc., McCall-T LTD., et al. v. Madison Lee Oden et al., Houston, TX, 2007-.

Volkswagen of America, Inc., and Aristocrat Volkswagen East, Inc., v. Royal Automotive, Inc., d/b/a Royal Volkswagen, Orlando, FL, 2007-.

Myers & Fuller, P.A., Tallahassee, FL, 2007-2009.

Ed Schmidt Pontiac-GMC Truck, Inc. vs. DaimlerChrysler Motors Company, LLC, Perrysburg, OH, 2006-2009.

Fowler Motors, Inc., v. BMW of North America, LLC, Conway, SC, 2006-2008.

Serpa Automotive Group, Inc., v. Volkswagen of America, Inc., Visalia, CA, 2006. Provided deposition and hearing testimony.

Serra Chevrolet, Inc., d/b/a Serra Kia vs. Kia Motors America, Inc., et al., Birmingham, AL, 2006-2009.

Cardenas Enterprises, Inc., d/b/a Cardenas Toyota BMW, v. Gulf States Toyota, Inc. and Toyota Motor Sales, USA, Inc., Harlingen, TX, 2006-.

North Avenue Auto, Inc., d/b/a Grand Honda, vs. American Honda Motor Co., Inc. a California Corporation, Chicago, IL, 2006-2009.

Saleen, Inc., Irvine, CA, 2006-.

Golden Ears Chrysler Dodge Jeep, Maple Ridge, BC, 2006-2007.

Action Nissan, Inc., vs. Nissan North America, Inc., Nyack, NY, 2005-2007.

Harbor Truck Sales and Services, Inc. d/b/a Baltimore Freightliner v. DaimlerChrysler Motors Company, LLC, Baltimore, MD, 2005-2007.

PH Automotive Holding Corporation, d/b/a Pacific Honda, Cush Automotive Group, d/b/a Cush Honda San Diego, Tipton Enterprises, Inc., d/b/a Tipton Honda, Ball Automotive Group, d/b/a Ball Honda, v. American Honda Motor Co., Inc., San Diego, CA, 2005-2007.

Rusing & Lopez, Tucson, AZ, 2005.

Sonic Automotive, Inc. V. Rene R. Isip, Jr.; RRIJR Auto Group, Ltd., d/b/a Rene Isip Toyota of Lewisville, and John Eagle, Lewisville, TX, 2005.

Competitive Engineering, Inc., v. Honeywell International, Inc., Tucson, AZ, 2005.

Century Motors Corporation v. DaimlerChrysler Motors Company, LLC., St. Louis, MO, 2005.

Lone Star Truck Group, Albuquerque, NM, 2005-2006.

Thomas Bus Gulf Coast, Inc., Houston, TX, 2005.

Stoops Freightliner, Indianapolis, IN, 2005-2006.

Cameron, Worley, Forham, P.C., Nashville, TN, 2004-2005.

*Transteck, Inc. d/b/a Freightliner of Harrisburg v. DaimlerChrysler Vans, LLC,* Harrisburg, PA, 2004-2008.

Around The Clock Freightliner Group, Inc., Oklahoma City, OK, 2004-2006.

Alamo Freightliner, San Antonio, TX, 2004-2005.

GKG Motors, Inc. d/b/a Suzuki of San Antonio vs. Cantwell Fielder, Ltd. d/b/a Quality Suzuki and American Suzuki Motor Corporation, San Antonio, TX, 2004-2007.

Maple Shade Motor Corporation v. Kia Motors America, Inc., Turnersville, NJ, 2004-2006.

Star Houston, Inc. d/b/a Star Motor Cars, Inc. v. Mercedes-Benz-USA, LLC, Austin, TX, 2004-2006.

Perez Investments, Inc. d/b/a Rick Perez Autonet vs. DaimlerChrysler Financial, L.L.C. d/b/a Chrysler Financial, L.L.C.; DaimlerChrysler Motors Corporation, Austin, TX, 2004.

Mazda Motors of America v. Maple Shade Motor Corporation, d/b/a Maple Shade Mazda et al., Maple Shade, NJ, 2004.

Wickstrom Chevrolet-Pontiac-Buick-GMC. vs. General Motors Corporation, Chevrolet Division, Austin, TX, 2004.

Sea Coast Chevrolet - Oldsmobile, Inc. Belmar, NJ, 2004.

Steve Taub, Inc. d/b/a Taub Audi v. Audi Of America, Inc., Santa Monica, CA, 2003.

Toledo Mack Sales and Service, Inc., v. Mack Truck, Inc., Columbus, OH, 2003.

Cooper & Elliot, Columbus, OH, 2003.

Bayshore Ford Truck Sales, Inc., et al., vs. Ford Motor Company, New Castle, DE, 2003-.

Maritime Ventures, LLC; Maritime Motors, Inc. v. City of Norwalk; Norwalk Redevelopment Agency, Norwalk, CT, 2003.

Cox Nuclear Pharmacy, Inc. and Accuscan, L.L.C., v. CTI Molecular Imaging, Inc., Mobile, AL, 2002-.

Mazda Motor of America, Inc. v. David J. Phillips Buick-Pontiac, Inc., Orange County, CA, 2002-2003.

Kimnach Ford, Norfolk, VA, 2002-.

Brown & Brown Chevrolet v. General Motors, Phoenix, AZ, 2002.

New Country Toyota, Durango, CO, 2002-2003.

ALCO Cadillac-Pontiac Sales, Inc. v. General Motors Corp. et al, Englewood Cliffs, NJ, 2001-2003.

Al Serra Chevrolet, Inc. v. General Motors Corp., Flint, MI, 2001.

Bayou Ford Truck Sales, Inc. d/b/a Bayou City Ford-Sterling v. Sterling Truck Corp., Houston, TX, 2001-2002.

Fred Lavery Company et al. v. Nissan North America, Inc., et al., Birmingham, MI, 2000-2002.

Tamaroff Buick and Sunshine Automotive, Inc. v. American Honda, Detroit, MI, 2000-2006.

Applegate Chevrolet, Inc. v. General Motors Corporation Flint, MI, 2000-2001.

Anchorage Chrysler Center, Inc., v. DaimlerChrysler Motors Corporation, Anchorage, AK, 2000-2003.

Ford Motor Company v. Pollock Motor Co., Inc. f/k/a Pollock Ford Co., Inc., v. Ford Motor Credit, Gadsden, AL, 1999-2001.

Suzuki Motor Corporation Japan v. Consumers Union of United States, Inc., Orange County, CA, 1999.

Arata Motor Sales, v. American Honda Motor Co., et al., Burlingame, CA, 1999.

Star Motor Cars v. Mercedes-Benz of North America, Inc., Houston, TX, 1999.

Dispatch Management Services Corp., in Aero Special Delivery, Inc., v. United States of America, San Francisco, CA, 1999-2003 (est).

Arnold Lincoln Mercury v. Ford Motor Co., Detroit, MI, 1999-2000.

Landmark Chevrolet Corporation v. General Motors Corporation et al, Houston, TX, 1998-2002.

Ford Dealers of Greater Toronto, Toronto, ONT, 1998-.

Volkswagen of America, Inc., et al. v. Pompano Imports, Inc., d.b.a. Vista Motor Company, Pompano Beach, FL, 1998-1999.

#### **PUBLICATIONS**

White Paper: Customer Satisfaction, co-authored with Dr. Ernest H. Manuel, Jr., 2010.

White Paper: Sales Effectiveness (RSI and MSR): Flaws in Manufacturers' Measurement of Dealers' Sales Performance, co-authored with Dr. Ernest H. Manuel, Jr., 2010.

#### **OTHER**

Arizona Electric Power Cooperative, hourly load forecasting using econometric estimation, 2006.

International Brotherhood of Teamsters: Brotherhood of Maintenance of Way Employees, Analysis of Track Inspector Survey, 2010-2011.