

**January
2019**

Nevada Statewide Survey Two-Person Crew



**DFM
RESEARCH**

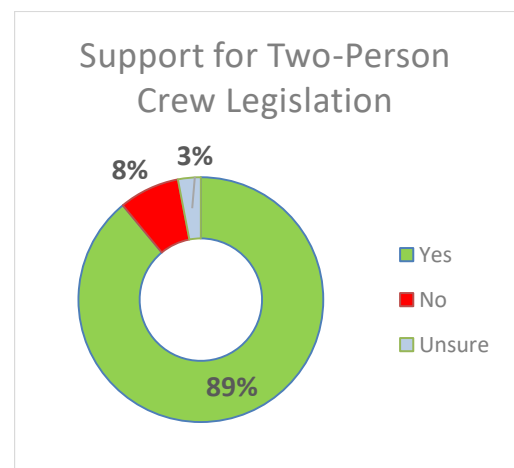
St. Paul, Minnesota
www.dfmresearch.com

Executive Summary:

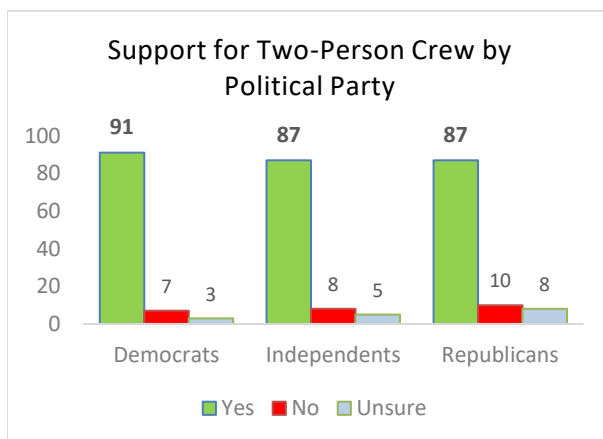
By a clear majority, Nevadans strongly support state legislation which would require a crew of two to operate any freight train in Nevada (state legislation to be introduced). An overwhelming 89 percent of Nevada residents support two-person crew state legislation, to just 8 percent who reject state legislation. This strong support follows the passage of state legislation in 2017 by the Nevada Legislature, but vetoed by the governor. The survey was conducted January 28-31, 2019 comprising 500 random Nevadans by live caller using landline and cell phones. Margin of error is +/- 4.4 percentage points.

The survey measures level of support both pre-and-post messaging by both the railroads and rail labor on their respective positions. Each survey respondent heard two statements in support and two statements in opposition. Results show respondents did not find the railroads' arguments convincing, while finding support messages for two-person crew convincing. Consider:

- The railroads best argument in opposition of two-person crew state legislation is stating that passenger rail data (mostly use single crew) from the 1970s show an excellent safety record; yet just 31 percent found this to be convincing.
- In support of two-person state legislation, 88 percent of respondents found convincing the statement that two people on a train allows the crew members to supervise and communicate with each other to help avoid mistakes that may contribute to an accident.



At the conclusion of the arguments in support and opposition to two-person crew state legislation, the support level for two-person crew stayed steady at 89 percent saying 'yes to pass' legislation. The survey also shows 75 percent of Nevadans 'do not trust' advanced rail technology as a replacement of a train crew member.



Rail safety via two-person crew legislation is not a partisan issue; 87 percent of Republicans and 92 percent of Democrats support state legislation. The lowest support level by a demographic group are Nevadans under the age of 35 at robust 85 percent in support.

Bottom line, no matter the age, education level gender, partisan inclination or where one lives, Nevadans strongly support two-person crew state legislation.

Methodology:

The results presented are based on a random sample of 500 Nevada residents over the age of 18. Unlike past surveys for SMART Transportation Division, the Nevada survey did not use a likely voter screen. The sample was stratified by Nevada's four congressional districts to ensure a statewide representative sample; all calls were conducted by live callers using both landline and mobile phones.

After the numbers were stratified into the appropriate region, telephone numbers were selected at random using a skip pattern to guarantee interviews were distributed throughout the region. Each number in the stratified sample had the same non-zero chance of being selected for an interview.

Telephone interviews were conducted by trained staff of KGS Research of Las Vegas, Nevada, using a computer-assisted telephone interview (CATI) system for landline phones. Mobile phone interviews are dialed manually to comply with the 1991 Telemarketing Consumer Protection Act. To ensure everyone in the household has an equal chance of being selected, callers ask to interview the resident over the age of 18 who had the most recent birthday.

Final results are weighted based on gender, age, race and education to conform approximately to the 2018 U.S. Census Bureau demographic data on file.

<u>Gender</u>		<u>Age</u>		<u>Race</u>		<u>Education</u>	
Male	50%	18-34	31%	White	52%	Non College	70%
Female	50%	35-49	25%	Latino	28%	College Degree	30%
		50-64	24%	All Other	20%		
		65 plus	20%				

The final results are subject to sampling error, which is the difference between results obtained from the survey and those that would be obtained if every adult was interviewed in the district. The margin of error is +/- 4.4 percentage points with a 95 percent confidence level; meaning that in 19 out of 20 times, the individual responses would be within the margin of error. For example, if a question produced a final result of 50 percent, the likely range would be between 45.6 to 54.4 percent had the entire state population been surveyed. Where appropriate in the survey, question and answer choices are randomized to help reduce bias. Due to rounding, results may not equal 100 percent.

Project management and final analysis of the data was completed by Dean Mitchell of DFM Research based in Saint Paul, Minnesota. In addition to his 28 years of political experience, Dean has completed course work in survey techniques and statistics as part of his Master in Public Policy (MPP) degree from the University of Minnesota's Humphrey School of Public Affairs.

Topline:

<u>Interviews:</u>	500 respondents by live caller
<u>Margin of Error:</u>	+/- 4.4 percentage points with a 95 percent confidence
<u>Interview Dates:</u>	January 28-31, 2019
<u>Sample:</u>	Landline and cell phone sample by live caller. Calls were stratified by Nevada's four congressional districts. Final data weighted by gender, race, age and education based on 2018 U.S. Census estimated demographics.
<u>Survey Sponsor:</u>	SMART Transportation Division's Nevada State Legislative Board

Q1: To start, do you think Nevada is moving in the right direction or is Nevada off on the wrong track?

Right Direction	58%
Wrong Track	30
(VOL) Unsure	12

Q2: I'm now going to read you some names of public figures and organizations. For each one, please tell me if you have a favorable or unfavorable opinion, and if you never heard of them before, just say so:

	<u>Favorable</u>	<u>Unfavorable</u>	<u>Neutral (VOL)</u>	<u>Never Heard Of</u>
a: Donald Trump	39%	58	2	0
b: Catherine Cortez Masto	46	32	8	13
c: Jacky Rosen	47	30	13	10
d: Steve Sisolak	53	27	12	8
e: Nevada Legislature	46	23	23	8
f: Amtrak	41	14	31	15
g: High Speed Rail	59	18	11	12
h: Driverless or Autonomous Vehicles	36	50	8	6
i: Labor Unions	67	24	7	2

Q3: Generally speaking, do you approve or disapprove the overall job Donald Trump is doing as President of the United States?

Strongly approve	33%
Somewhat approve	8
Somewhat disapprove	6
Strongly disapprove	52
(VOL) Unsure / Neutral	2

Q4: Although it is a while away, suppose the election was today for President of the United States. Would you vote for Donald Trump the Republican, Howard Schultz the Independent or the eventual Democratic Party nominee?

Donald Trump	38%
Howard Schultz	6
Democratic Party nominee	45
(VOL) Unsure / Other / Refused	11

Q5: Now thinking about Nevada's transportation infrastructure – including roads, highways, bridges, rail, air, and public transportation – how would you rate it?

Excellent	7%
Good	35
Satisfactory	37
Poor	14
Failing	6
(VOL) Unsure	1

Q6a: **SPLIT:** A lot has been said about High Speed Rail here in Nevada. Generally speaking, do you support or oppose creating a High Speed Rail connecting Las Vegas to Southern California? (**Clark County; n=359, MoE +/- 5.2%pts**)

Strongly support	55%
Somewhat support.....	26
Somewhat oppose	4
Strongly oppose	12
(VOL) Unsure / Neutral	4

Q6b: **SPLIT:** Currently Amtrak has one daily passenger train route running through Nevada, with daily service to San Francisco, Denver and points beyond. When it comes to passenger rail service here in Nevada, which best fits your view? (**Non Clark County; n=141, MoE +/- 8.3%pts**)

Passenger rail should increase	61%
Passenger rail should remain the same	30
Passenger rail should be eliminated	4
(VOL) Unsure	5

Q7: Based on what you know, how many people do you think operate a freight train that travels through Nevada?

One	9%
Two	13
Three	15
Four	10
Five or more	32
(VOL) Don't know	21

Currently most freight trains in Nevada operate with a crew of two people; but there are efforts by some railroads to reduce train crew to just one person.

Q8: Let's suppose freight trains in your area operated with only a crew of one; how worried would you be about a train derailling in your community?

Very Worried	51%
Fairly Worried	12
Just Somewhat Worried	18
Not that Worried	20

Q9: Some here in Nevada want to enact a state law that would require a crew of two individuals on all freight trains. Suppose you could vote on this potential state law; would you vote 'YES' to pass a two-person crew state law or would you vote 'NO' and reject a two-person crew state law?

Yes, Pass	89%
No, Reject	8
(VOL) Unsure	3

SURVEY NOTE: Each respondent received two reasons to oppose state legislation (questions 10a,b,c) and two reason to support state legislation (questions 11a,b,c). Questions 10 and 11 were rotated and randomized. The range is from 331 to 337 respondents for each question, with a corresponding margin of error at +/- 5.4%pts.

Q10: I now want to read you a few reasons why some people oppose a state law requiring a crew of two individuals on all freight trains. For each reason, tell me if you find it a convincing reason or not that convincing reason:

Q10a: Commuter rail operates thousands of trains a day with one person in the locomotive, and the data going back to the 1970s shows an excellent safety record.

Convincing	31%
Not That Convincing	67
(VOL) Unsure	3

Q10b: If two-person train crew legislation passes, it will deter investment and implementation of safe, cost-saving technology like Positive Train Control, which is advanced technology designed to automatically stop a train before certain types of accidents.

Convincing	26%
Not That Convincing	72
(VOL) Unsure	2

Q10c: Crew size mandates would hinder rail efficiencies and divert traffic from rail to highway-using trucks, which are less fuel efficient, create congestion and damage the nation's highway system.

Convincing	23%
Not That Convincing	75
(VOL) Unsure	3

Q11: I now want to read you a few reasons why some people support a state law requiring a crew of two individuals on all freight trains. For each reason, tell me if you find it a convincing reason or not that convincing reason:

Q11a: Having two crew members on a train provides better monitoring of traffic at public road crossings.

Convincing	85%
Not that convincing	15
(VOL) Unsure	0

Q11b: Having two people on a train allows the crew members to supervise and communicate with each other to help avoid mistakes that may contribute to an accident.

Convincing	88%
Not that convincing	12
(VOL) Unsure	0

Q11c: According to federal regulations, the engineer is not allowed to leave the locomotive cab while operating the train. A second crew member is necessary to investigate incidents such as derailment or a collision between a train and a motor vehicle at a crossing.

Convincing	80%
Not that convincing	18
(VOL) Unsure	2

Q12: And do you trust advanced rail technology as a replacement of a train crew member?

Yes	19%
No	75
(VOL) Unsure	6

Q13: Now considering everything you just heard about a potential state law that would require a crew of two individuals on all freight trains. If you could vote again, would you vote 'YES' to pass a two-person crew state law, or would you vote 'NO' and reject a two-person crew state law?

Yes, Pass	89%
No, Reject	9
(VOL) Unsure	2

Select Crosstabs:

Q5: Now thinking about Nevada's transportation infrastructure – including roads, highways, bridges, rail, air, and public transportation – how would you rate it?

Excellent	7%
Good	35
Satisfactory	37
Poor	14
Failing	6
(VOL) Unsure	1

<u>Gender</u>	<u>Excellent</u>	<u>Good</u>	<u>Satisfactory</u>	<u>Poor</u>	<u>Failing</u>	<u>Unsure</u>
Men	9	38	34	13	6	1
Women	5	32	41	16	6	0

<u>Age</u>						
18-34	5	33	41	13	8	0
35-49	5	35	36	21	4	0
50-64	7	37	33	15	8	1
65+	12	34	40	9	3	2

<u>Education</u>						
No College Degree	7	38	36	13	6	0
College Degree	7	28	41	17	6	1

<u>Regions</u>						
Clark County	8	37	36	13	6	0
Washoe County	0	30	43	19	6	1
All Other Counties	6	28	41	17	6	3

<u>Race / Ethnicity</u>						
White	6	36	40	13	4	1
Latino	7	33	35	15	9	0
All Other	8	33	34	16	7	1

<u>Party Identification</u>						
Democrat	8	31	41	16	4	0
Independent	3	31	39	18	8	0
Republican	8	43	32	9	7	1

Q6a: SPLIT: A lot has been said about High Speed Rail here in Nevada. Generally speaking, do support or oppose creating a High Speed Rail connecting Las Vegas to Southern California? (Clark County; n=359, MoE +/- 5.2%pts)

Strongly support	55%
Somewhat support.....	26
Somewhat oppose	4
Strongly oppose	12
(VOL) Unsure / Neutral	4

<u>Gender</u>	<u>Strongly Support</u>	<u>Somewhat Support</u>	<u>Somewhat Oppose</u>	<u>Strongly Oppose</u>	<u>Unsure</u>
Men	58	23	3	12	3
Women	53	28	4	11	4
<u>Age</u>					
18-34	62	27	3	5	2
35-49	60	20	5	11	3
50-64	48	28	3	17	4
65+	49	26	3	16	6
<u>Education</u>					
No College Degree	56	25	4	11	3
College Degree	55	26	3	12	4
<u>Race / Ethnicity</u>					
White	50	31	3	13	2
Latino	66	19	5	9	1
All Other	55	20	3	12	10
<u>Party Identification</u>					
Democrat	61	27	4	4	4
Independent	56	25	4	12	4
Republican	48	25	4	21	3

Q6b: SPLIT: Currently Amtrak has one daily passenger train route running through Nevada, with daily service to San Francisco, Denver and points beyond. When it comes to passenger rail service here in Nevada, which best fits your view? (Non Clark County; n=141, MoE +/- 8.3%pts)

Passenger rail should increase	61%
Passenger rail should remain the same	30
Passenger rail should be eliminated	4
(VOL) Unsure	5

<u>Gender</u>	<u>Increase</u>	<u>Same</u>	<u>Eliminated</u>	<u>Unsure</u>
Men	58	34	6	2
Women	62	30	1	8
<u>Age</u>				
18-34	57	25	12	6
35-49	53	45	2	0
50-64	63	37	0	0
65+	68	18	0	15
<u>Education</u>				
No College Degree	57	35	4	4
College Degree	67	25	3	6
<u>Race / Ethnicity</u>				
White	57	38	0	4
Latino	60	25	9	6
All Other	67	23	4	5
<u>Party Identification</u>				
Democrat	70	20	3	7
Independent	54	40	6	0
Republican	50	41	3	6

Q7: Based on what you know, how many people do you think operate a freight train that travels through Nevada?

One	9%
Two	13
Three	15
Four	10
Five or more	32
(VOL) Don't know	21

<u>Gender</u>	<u>One</u>	<u>Two</u>	<u>Three</u>	<u>Four</u>	<u>Five +</u>	<u>DK</u>
Men	9	15	15	11	30	20
Women	8	11	15	9	35	22
<u>Age</u>						
18-34	15	14	15	8	31	17
35-49	6	13	17	10	35	20
50-64	6	12	15	12	32	23
65+	7	11	14	10	31	27
<u>Education</u>						
No College Degree	9	13	16	9	34	19
College Degree	8	13	13	11	28	26
<u>Regions</u>						
Clark County	10	13	14	10	32	21
Washoe County	7	10	25	7	32	18
All Other Counties	6	13	11	10	35	24
<u>Race / Ethnicity</u>						
White	7	16	14	10	31	22
Latino	10	11	18	10	33	19
All Other	11	6	13	10	34	24
<u>Party Identification</u>						
Democrat	9	11	17	7	34	23
Independent	11	13	13	8	35	19
Republican	8	15	14	14	27	21

Q8: Let's suppose freight trains in your area operated with only a crew of one; how worried would you be about a train derailling in your community?

Very Worried	51%
Fairly Worried	12
Just Somewhat Worried	18
Not that Worried	20

<u>Gender</u>	<u>Very</u>	<u>Fairly</u>	<u>Somewhat</u>	<u>Not That</u>
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Men	44	13	17	25
Women	57	11	18	14

Age

18-34	41	9	24	27
35-49	53	17	15	15
50-64	49	14	16	21
65+	66	7	13	14

Education

No College Degree	53	10	18	19
College Degree	45	17	17	21

Regions

Clark County	51	12	17	20
Washoe County	57	10	17	16
All Other Counties	44	13	20	23

Race / Ethnicity

White	47	14	19	20
Latino	57	9	15	20
All Other	53	9	18	20

Party Identification

Democrat	57	9	17	17
Independent	45	13	20	21
Republican	46	14	17	23

Q9: Some here in Nevada want to enact a state law that would require a crew of two individuals on all freight trains. Suppose you could vote on this potential state law; would you vote 'YES' to pass a two-person crew state law or would you vote 'NO' and reject a two-person crew state law?

Yes, Pass	89%
No, Reject	8
(VOL) Unsure	3

<u>Gender</u>	<u>Yes, Pass</u>	<u>No, Reject</u>	<u>Unsure</u>
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Men	87	10	4
Women	90	7	3

Age

18-34	85	11	4
35-49	92	7	2
50-64	89	8	3
65+	89	6	5

Education

No College Degree	89	8	3
College Degree	87	8	5

Regions

Clark County	88	8	3
Washoe County	87	11	1
All Other Counties	90	4	6

Race / Ethnicity

White	90	7	4
Latino	86	11	4
All Other	90	8	2

Party Identification

Democrat	91	7	3
Independent	87	8	5
Republican	87	10	3

Q10a: I now want to read you a few reasons why some people oppose a state law requiring a crew of two individuals on all freight trains. For each reason, tell me if you find it a convincing reason or not that convincing reason:

Commuter rail operates thousands of trains a day with one person in the locomotive, and the data going back to the 1970s shows an excellent safety record.

Convincing	31%
Not That Convincing	67
(VOL) Unsure	3

<u>Gender</u>	<u>Convincing</u>	<u>Not That</u>	<u>Unsure</u>
Men	31	68	1
Women	30	66	4
<u>Age</u>			
18-34	40	58	2
35-49	28	70	2
50-64	23	72	5
65+	28	71	2
<u>Education</u>			
No College Degree	31	66	3
College Degree	29	69	2
<u>Regions</u>			
Clark County	31	65	3
Washoe County	29	71	0
All Other Counties	27	71	2
<u>Race / Ethnicity</u>			
White	32	65	3
Latino	30	69	1
All Other	27	69	5
<u>Party Identification</u>			
Democrat	24	73	3
Independent	33	65	1
Republican	37	60	3

Q10b: I now want to read you a few reasons why some people oppose a state law requiring a crew of two individuals on all freight trains. For each reason, tell me if you find it a convincing reason or not that convincing reason:

If two-person train crew legislation passes, it will deter investment and implementation of safe, cost-saving technology like Positive Train Control, which is advanced technology designed to automatically stop a train before certain types of accidents.

Convincing	26%
Not That Convincing	72
(VOL) Unsure	2

<u>Gender</u>	<u>Convincing</u>	<u>Not That</u>	<u>Unsure</u>
Men	24	75	1
Women	29	68	3

<u>Age</u>			
18-34	32	68	0
35-49	27	71	1
50-64	23	72	4
65+	20	77	3

<u>Education</u>			
No College Degree	27	70	2
College Degree	25	74	1

<u>Regions</u>			
Clark County	29	69	2
Washoe County	17	83	0
All Other Counties	23	75	2

<u>Race / Ethnicity</u>			
White	27	71	2
Latino	26	73	1
All Other	26	71	3

<u>Party Identification</u>			
Democrat	26	73	1
Independent	24	76	0
Republican	28	66	5

Q10c: I now want to read you a few reasons why some people oppose a state law requiring a crew of two individuals on all freight trains. For each reason, tell me if you find it a convincing reason or not that convincing reason:

Crew size mandates would hinder rail efficiencies and divert traffic from rail to highway-using trucks, which are less fuel efficient, create congestion and damage the nation's highway system.

Convincing	23%
Not That Convincing	75
(VOL) Unsure	3

<u>Gender</u>	<u>Convincing</u>	<u>Not That</u>	<u>Unsure</u>
Men	25	73	2
Women	21	76	3

<u>Age</u>			
18-34	29	71	0
35-49	26	69	5
50-64	10	88	2
65+	25	71	4

<u>Education</u>			
No College Degree	23	73	4
College Degree	22	77	0

<u>Regions</u>			
Clark County	25	72	3
Washoe County	12	86	2
All Other Counties	23	77	0

<u>Race / Ethnicity</u>			
White	22	76	2
Latino	27	71	2
All Other	18	77	5

<u>Party Identification</u>			
Democrat	23	74	3
Independent	21	76	2
Republican	24	74	2

Q11a: I now want to read you a few reasons why some people support a state law requiring a crew of two individuals on all freight trains. For each reason, tell me if you find it a convincing reason or not that convincing reason:

Having two crew members on a train provides better monitoring of traffic at public road crossings.

Convincing	85%
Not that convincing	15
(VOL) Unsure	0

<u>Gender</u>	<u>Convincing</u>	<u>Not That</u>	<u>Unsure</u>
Men	85	15	1
Women	86	14	0
<u>Age</u>			
18-34	85	15	0
35-49	87	12	1
50-64	79	21	0
65+	91	9	0
<u>Education</u>			
No College Degree	85	14	1
College Degree	85	15	0
<u>Regions</u>			
Clark County	86	14	0
Washoe County	84	16	0
All Other Counties	84	16	0
<u>Race / Ethnicity</u>			
White	85	15	1
Latino	87	13	0
All Other	84	16	0
<u>Party Identification</u>			
Democrat	91	9	0
Independent	79	21	0
Republican	82	17	1

Q11b: I now want to read you a few reasons why some people support a state law requiring a crew of two individuals on all freight trains. For each reason, tell me if you find it a convincing reason or not that convincing reason:

Having two people on a train allows the crew members to supervise and communicate with each other to help avoid mistakes that may contribute to an accident.

Convincing	88%
Not that convincing	12
(VOL) Unsure	0

<u>Gender</u>	<u>Convincing</u>	<u>Not That</u>	<u>Unsure</u>
Men	83	17	0
Women	92	8	0
<u>Age</u>			
18-34	90	10	0
35-49	86	14	0
50-64	86	14	0
65+	88	12	0
<u>Education</u>			
No College Degree	89	11	0
College Degree	85	15	0
<u>Regions</u>			
Clark County	88	12	0
Washoe County	89	11	0
All Other Counties	87	13	0
<u>Race / Ethnicity</u>			
White	88	12	0
Latino	89	11	0
All Other	87	13	0
<u>Party Identification</u>			
Democrat	95	5	0
Independent	86	14	0
Republican	80	20	0

Q11c: I now want to read you a few reasons why some people support a state law requiring a crew of two individuals on all freight trains. For each reason, tell me if you find it a convincing reason or not that convincing reason:

According to federal regulations, the engineer is not allowed to leave the locomotive cab while operating the train. A second crew member is necessary to investigate incidents such as derailment or a collision between a train and a motor vehicle at a crossing.

Convincing	80%
Not that convincing	18
(VOL) Unsure	2

<u>Gender</u>	<u>Convincing</u>	<u>Not That</u>	<u>Unsure</u>
Men	75	23	2
Women	85	14	1

<u>Age</u>			
18-34	80	20	0
35-49	75	25	0
50-64	82	14	4
65+	84	13	3

<u>Education</u>			
No College Degree	83	16	1
College Degree	73	25	2

<u>Regions</u>			
Clark County	83	16	1
Washoe County	68	28	4
All Other Counties	78	20	2

<u>Race / Ethnicity</u>			
White	78	20	2
Latino	82	18	0
All Other	84	15	2

<u>Party Identification</u>			
Democrat	89	10	1
Independent	74	24	1
Republican	73	25	2

Q12: And do you trust advanced rail technology as a replacement of a train crew member?

Yes	19%
No	75
(VOL) Unsure	6

<u>Gender</u>	<u>Yes</u>	<u>No</u>	<u>Unsure</u>
Men	23	71	6
Women	14	79	6

<u>Age</u>			
18-34	29	61	10
35-49	16	80	4
50-64	10	85	5
65+	15	80	5

<u>Education</u>			
No College Degree	17	77	6
College Degree	22	70	8

<u>Regions</u>			
Clark County	20	73	7
Washoe County	16	84	0
All Other Counties	16	77	7

<u>Race / Ethnicity</u>			
White	17	76	7
Latino	21	74	5
All Other	20	74	6

<u>Party Identification</u>			
Democrat	15	79	6
Independent	23	72	5
Republican	20	73	8

Q13: Now considering everything you just heard about a potential state law that would require a crew of two individuals on all freight trains. If you could vote again, would you vote 'YES' to pass a two-person crew state law, or would you vote 'NO' and reject a two-person crew state law?

Yes, Pass	89%
No, Reject	9
(VOL) Unsure	2

<u>Gender</u>	<u>Yes, Pass</u>	<u>No, Reject</u>	<u>Unsure</u>
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Men	88	11	1
Women	90	8	2

Age

18-34	84	14	3
35-49	92	8	1
50-64	90	7	3
65+	94	6	0

Education

No College Degree	89	8	2
College Degree	88	11	1

Regions

Clark County	89	9	2
Washoe County	91	9	0
All Other Counties	88	9	3

Race / Ethnicity

White	89	9	2
Latino	89	9	2
All Other	88	11	1

Party Identification

Democrat	94	5	1
Independent	86	12	3
Republican	85	13	2