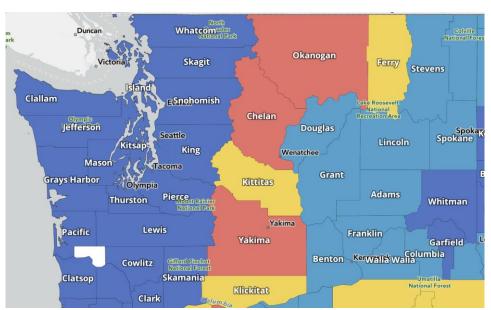


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WA Legislature Climate Scorecard and County-Level Natural Hazard Risks

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FEMA, NRI, Wildfire Risk

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Foreword

If you are concerned about climate change, want to see climate change policy enacted by the WA Legislature, wonder how legislators from your district voted on climate bills, and want to hold them accountable, this report is for you. You can find your legislators' climate scores and your county's drought, river flooding, and wildfire risks in this report. If you do not know your legislative district, you can find it here.

This report is an outgrowth of a course project. With Forrest Brundgardt, Alicia Lopez, and Lina Kritchko, three excellent students in my undergraduate course on Climate Governance (ENVIR/SMEA 201) at the University of Washington, we identified bills introduced in the Washington Legislature that would, if enacted, reduce greenhouse gas emissions and/or increase climate adaptation and resilience of Washington communities and the economy. Furthermore, we studied how one could best communicate information on the severity of climate change in our communities. We asked what voters should know about climate change impacts in their communities when casting their WA Legislature votes. We are grateful to two researchers at the University of Washington's Climate Impacts Group, Dr. Mead Krosby and Matthew Rogers, for their guidance on climate impacts data. While there is a wealth of data on climate impacts in Washington state, we ultimately decided to use the data from the Federal Emergency Management Agency to make it easier for researchers and concerned citizens to replicate our methods anywhere in the United States.

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1. Methodology

1.1 WA Legislature Climate Scorecard

To identify bills we included in the scorecard, we searched the <u>WA Legislature Bill Information</u> website for bills that contained any of the following keywords: "climate change", "greenhouse gas emissions", "carbon storage", "carbon sequestration", "carbon pollution", and "global warming". In our analysis, we focused on bills that explicitly referred to climate change and/or its causes in the text of the bill. While climate mitigation and adaptation action could be pursued by actions without explicitly referring to climate change, a broad social support for climate change action requires that we acknowledge climate change, its causes, and its impacts. Therefore, we included only bills with explicit reference to climate. For an alternative approach that includes most important environmental bills and bills that strengthen voting rights, see the <u>Washington Conservation Voters' 2021-22 Environmental Scorecard</u>.

Two researchers reviewed all bills to determine whether they were relevant. We only included bills that had floor votes, passed the conference, and were sent to the Governor, to have a comparable standard for all legislators. Ultimately, we included 32 climate bills from 2021-22 sessions (see Table 1).

Table 1	: WA Leg	islature Climate Bills Included in the Analysis
В	sill	Bill Title
E2SHB	1050	Reducing greenhouse gas emissions from fluorinated gases
SHB	1080	Concerning the capital budget
E3SHB	1091	Reducing greenhouse gas emissions by reducing the carbon intensity of transportation fuel
SHB	1114	Encouraging utility mitigation of urban heat island effects
2SHB	1168	Concerning long-term forest health and the reduction of wildfire dangers
E2SHB	1216	Concerning urban and community forestry
НВ	1280	Concerning greenhouse gas emissions reductions in the design of public facilities
E2SHB	1287	Concerning preparedness for a zero emissions transportation future
E2SHB	1663	Reducing methane emissions from landfills
		Concerning tribal consultation regarding the use of certain funding authorized by the climate
ESHB	1753	<u>commitment act</u>
SHB	1768	Updating definitions applicable to energy conservation projects involving public entities
E2SHB	1799	Concerning organic materials management
E2SHB	1812	Modernizing the energy facility site evaluation council to meet the state's clean energy goals
2SHB	1814	Expanding equitable access to the benefits of renewable energy through community solar projects
		Concerning tax deferrals for investment projects in clean technology manufacturing, clean
2SHB	1988	alternative fuels production, and renewable energy storage
SB	5042	Concerning the effective date of certain actions taken under the growth management act
ESSB	5092	Making 2021-2023 fiscal biennium operating appropriations
SB	5126	Concerning the Washington climate commitment act
E2SSB	5141	Implementing the recommendations of the environmental justice task force
SSB	5165	Making transportation appropriations for the 2021-2023 fiscal biennium
SSB	5273	Concerning the replacement of shoreline armoring
		Transforming the regulation of gas and electrical companies toward multiyear rate plans and
ESSB	5295	performance-based rate making
2SSB	5616	Concerning accounts
2SSB	5619	Conserving and restoring kelp forests and eelgrass meadows in Washington state

SSB	5651	Concerning the capital budget
ESSB	5689	Making supplemental transportation appropriations for the 2021-2023 fiscal biennium
ESSB	5693	Making 2021-2023 fiscal biennium supplemental operating appropriations
		Creating a sales and use tax deferral program for solar canopies placed on large-scale commercial
ESSB	5714	parking lots and other similar areas
SSB	5722	Reducing greenhouse gas emissions in buildings
E2SSB	5842	Concerning state laws that address climate change
SSB	5910	Accelerating the availability and use of renewable hydrogen in Washington state
ESSB	5974	Addressing transportation resources

To determine the climate voting score for each Senator and Representative, we followed the methodology used by the Washington Conservation Voters in their <u>Scorecard</u>. For each of the included 32 bills, we determined whether a vote "yes" or "no" was advancing climate policy. We coded a vote in support of climate policy as 1 and the opposing vote as 0. If a Senator or Representative had an excused absence, we noted that in our database. An excused absence did not count towards the total number of bills on which Senators and Representatives were scored. On the other hand, if a Senator or Representative did not vote and was not excused, we recorded this as an opposing vote (0). We also adjusted the denominator for the Senators and Representatives who did not serve in 2021.

For these 32 bills, two researchers independently reviewed Senate and House roll calls for 2021 through 2022 session to generate the database. Any discrepancies between the two coders were identified and resolved.

Finally, we calculated the score for each Senator and Representative by dividing the number of bills on which each legislator voted in support of climate policy by the number of all climate bills. The score ranges from 0 to 100, with 0 denoting that the Senator or Representative did not vote a single time in support of climate action and 100 denoting that they voted in support of climate action every bill they voted on. Further, we assigned a qualitative rating that describes the nature of their votes, ranging from "Very Low", "Relatively Low", "Relatively High" and Very High".

Overall, the majority of Senators and Representatives voted in support of climate action a vast majority of the time; 57% of Washington Senators and 58% of Representatives have a "very high" climate voting score. Similarly, Senators and Representatives depict almost identical shares of those with "relatively moderate" climate voting score (22% and 24% respectively). Lastly, in both chambers, there is a comparable share of legislators with "relatively low" climate voting score (18% in Senate, 16% in the House). Figure 1 depicts the share of legislators across the five categories.

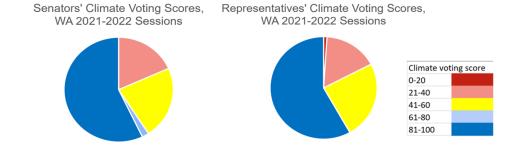


Figure 1: Share of Senators and Representatives with Different Climate Voting Scores. Source: Our own data.

1.2 Climate Impacts

If Washington Senators and Representatives are concerned about climate impacts their constituencies are already experiencing, they should be actively supporting climate action in Washington State. To depict climate impacts in Washington state, we used the National Risk Index (NRI) database, developed by the U.S. Federal Emergency Management Agency (FEMA, n.d. a). The NRI database defines risk as "the potential for negative impacts as a result of a natural hazard". The NRI calculates the risk each county is likely to face for each hazard (e.g. hurricanes, drought, flooding, wildfire, etc.).

The risk score for each natural hazard is comprised of three components: "a natural hazards component (Expected Annual Loss), a consequence enhancing component (Social Vulnerability), and a consequence reduction component (Community Resilience)" (FEMA, n.d., b). Therefore, the risk score measures not only the exposure to a natural hazard, but also the society's vulnerability and ability to protect itself from the risk. The Risk Index score for each natural hazard type Risk at the county and Census tract level is available at the FEMA National Index score calculation for each community (county and Census tract) included in the Index.

The NRI index scores U.S. communities' risks in relation to all other communities at the same level for a given component. All calculated scores are constrained between 0 (the lowest possible score) to 100 (the highest possible score). Along with each numerical score, the NRI assigns a qualitative rating to compare the community to all other communities for specific Risk Index components. The ratings range from "Very Low" to "Very High" (FEMA, n.d., c). These ratings are relative as they are in relation to the scores of similar communities and, as such, do not have specific values that determine them.

We selected three natural hazard types for this project given their coverage, availability, and a type of natural hazard risk that the general public would most likely note: droughts, river floodings, and wildfires. Drought is defined by the NRI as "a deficiency of precipitation over an extended period of time resulting in a water shortage" (FEMA, n.d., d). Droughts can have severe effects on agriculture, water supplies, human health, and more (EPA, n.d., a). Decrease in groundwater levels can be harmful for ecosystems by decreasing available water for plants and animals and increasing the risk of wildfires.

The EPA defines Riverine Flooding as an event when streams and rivers overflow the banks as a result of "large rain storms or spring snowmelt that quickly drains into streams and rivers" (EPA n.d. b). The frequency of flooding can also be partially determined by the frequency of weather events. Climate change's influence on the frequency of flooding may vary across areas. As temperatures increase, more water may evaporate, decreasing flooding events. Conversely, increases in heavy storms may affect the size and frequency of flooding events. Floods can damage infrastructure, destroy crops, and displace and harm people. They can also displace aquatic ecosystems, impact water quality, and increase soil erosion.

A wildfire is "an unplanned fire burning in natural or wildland areas such as forests, shrub lands, grasslands, or prairies" (FEMA, n.d. d). Climate change has been connected to an increase in the length of wildfire seasons, frequency of wildfire events, and size of area affected by the events (EPA n.d. c). Wildfire events can harm properties, displace people, and impact human health. The emission of carbon dioxide as a result of burning organic matter can contribute to climate change as well.

Figure 2, created with the NRI Map Explorer, depicts the NRI drought, river flooding, and wildfires risk scores for WA counties using data up to 2020 (<u>FEMA, n.d. e</u>). Counties with lower risk scores are depicted in blue colors, moderate in yellow, and higher risks scores in red.

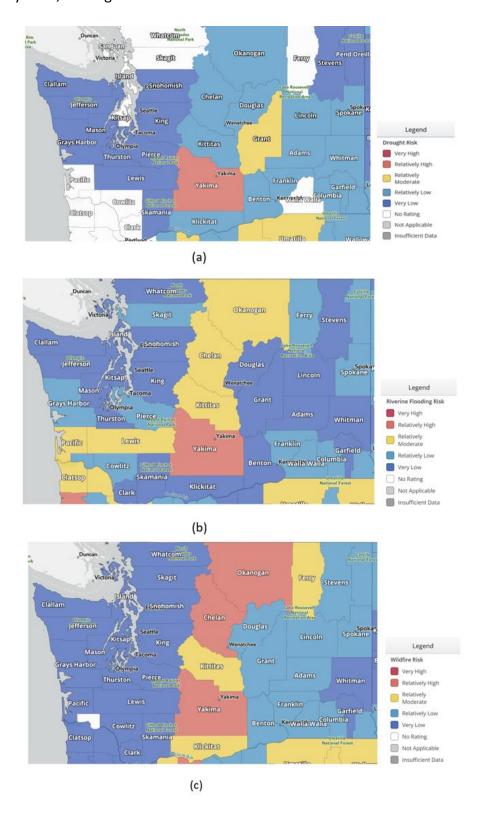


Figure 2: WA Counties' NRI Scores for Drought (panel a), Riverine Flooding (panel b) and Wildfires (panel c). Source: https://hazards.fema.gov/nri/map#

2. Legislative Districts Data

Subsequent pages present WA legislature climate voting scores for each of the 49 Washington legislative districts and county-level NRI risk scores for drought, riverine flooding, and wildfires. For each legislative district report, we include data for all counties that comprise the legislative district (whole or a part). Washington state completed legislative redistricting in 2022. For the purpose of our analysis, we used the 2012 legislative districts maps as they applied at the time of 2021-2022 legislative session elections.

To make the comparison of WA legislature climate scores and the NRI climate risk scores easier, we use consistent color coding. Blue shading denotes higher climate voting score (panel a in Figure 3) and lower scores for the risks of drought, riverine flooding and wildfire (panel b in Figure 3). Yellow color denotes moderate climate voting scores and moderate risk scores. Red shades denote low climate voting scores and high climate risk scores.

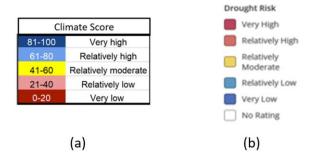


Figure 3: Color coding of the Washington legislature climate scores (panel a) and NRI risks for drought/riverine flooding/wildfires (panel b)

If you do not know your WA Legislative District number, you can find it <u>here</u>.

1 st LD	King, Snohomish					
Senator		Climate Score	Representatives	Climate Score		
Derek Stanford		100	Davina Duerr	100		
			Shelley Kloba	100		

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
King	1.3	5.6	2.9	
Snohomish	1.9	5.2	2.4	

2 nd LD	Pierce, Thurston					
Senator		Climate Score	Representatives	Climate Score		
Jim McCune		32	Andrew Barkis	41		
			J.T. Wilcox	41		

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
Pierce	2.2	6.1	3.5	
Thurston	3.8	3.4	1.1	

3 rd LD	Spokane			
Senator		Climate Score	Representatives	Climate Score
Andy Billig		100	Timm Ormsby	100
			Marcus Riccelli	100

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
Spokane	5.6	8.5	13.9	

4 th LD	Spokane					
Senator		Climate Score	Representatives	Climate Score		
Mike Padden		31	Rob Chase	38		
			Bob McCaslin	27		

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
Spokane	5.6	8.5	13.9	

5 th LD King							
Senator	Climate Score	Representatives	Climate Score				
Mark Mullet	91	Lisa Callan	100				
		Bill Ramos	100				

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9

6 th LD	Spokane					
Senator		Climate Score	Representatives	Climate Score		
Jeff Holy		42	Jenny Graham	44		
			Mike Volz	41		

	NRI Natural Hazard Risk Scores			
County	Drought Riverine Flooding Wildfires			
Spokane	5.6	8.5	13.9	

7 th LD	Ferry, Okanogan, Pend Oreille, Spokane, Stevens					
Senator	enator Climate Score Representatives Climate Score					
Shelly Short 41			Joel Kretz	45		
			Jacquelin Maycumber	41		

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
Ferry	No rating	7.2	15.7	
Okanogan	10.1	13.5	34.0	
Pend Oreille	3.0	5.9	7.1	
Spokane	5.6	8.5	13.9	
Stevens	3.5	4.7	13.8	

8 th LD	Benton				
Senator		Climate Score	Representatives	Climate Score	
Sharon Brow	wn	35	Matt Boehnke	41	
			Brad Klippert	41	

	NRI Natural Hazard Risk Scores			
County	Drought Riverine Flooding Wildfires			
Benton	10.8	3.9	10.5	

9 th LD	Adams, Asotin, Franklin, Garfield, Spokane, Whitman					
Senator	Climate Score Representatives Climate Score					
Mark Schoesler 34			Mary Dye	44		
			Joe Schmick	41		

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Adams	10.2	3.2	8.3
Asotin	5.3	6.0	8.9
Franklin	10.3	7.2	6.2
Garfield	5.1	2.2	5.6
Spokane	5.6	8.5	13.9
Whitman	6.8	5.0	4.1

10 th LD Island, Skagit, Snohomish					
Senator	Senator Climate Score Representatives Climate Score				
Ron Muzzall	41	Greg Gilday	44		
		Dave Paul	91		

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
Island	No rating	4.6	0.8	
Skagit	No rating	7.5	3.0	
Snohomish	1.9	5.2	2.4	

11 th LD King						
Senator	Climate Score	Representatives	Climate Score			
Bob Hasegawa	91	Steve Bergquist	100			
		David Hackney	100			

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9

12 th LD	Chelan, Douglas, Grant, Okanogan					
Senator	enator Climate Score Representatives Climate Score					
Brad Hawkins		47	Keith Goehner	41		
			Mike Steele	44		

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Chelan	8.0	10.8	32.9
Douglas	6.8	3.0	13.8
Grant	17.2	5.5	13.9
Okanogan	10.1	13.5	34.0

13 th LD	Grant, Kittitas, Lincoln, Yakima					
Senator	Climate Score Representatives Climate Score					
Judy Warni	ck	41	Tom Dent	38		
			Alex Ybarra	38		

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Grant	17.2	5.5	13.9
Kittitas	5.7	10.9	23.8
Lincoln	5.4	4.2	10.8
Yakima	26.7	18.7	32.0

14 th LD	Clark, Klickitat, Skamania, Yakima				
Senator	Climate Score Representatives Climate Score				
Curtis King		41	Chris Corry	42	
			Gina Mosbrucker	44	

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Clark	No rating	4.7	1.2
Klickitat	7.9	3.1	19.7
Skamania	0.7	2.2	2.6
Yakima	26.7	18.7	32.0

15 th LD Yakima	Yakima					
Senator	Climate Score	Representatives	Climate Score			
Jim Honeyford	29	Bruce Chandler	39			
		Jeremie Dufault	31			

	NRI Natural Hazard Risk Scores			
County	Drought Riverine Flooding Wildfires			
Yakima	26.7	18.7	32.0	

16 th LD	Benton, Columbia, Franklin, Walla Walla					
Senator	tor Climate Score Representatives Climate Score					
Perry Dozier		34	Mark Klicker	41		
			Skyler Rude	44		

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
Benton	10.8	3.9	10.5	
Columbia	5.7	6.0	8.5	
Franklin	10.3	7.2	6.2	
Walla Walla	No rating	6.2	6.9	

17 th LD Clark						
Senator	Climate Score	Representatives	Climate Score			
Lynda Wilson	38	Paul Harris	41			
		Vicki Kraft	13			

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
Clark	No rating	4.7	1.2	

18 th LD	Clark				
Senator		Climate Score	Representatives	Climate Score	
Ann Rivers		55	Larry Hoff	38	
			Brandon Vick	34	

	NRI Natural Hazard Risk Scores			
County	Drought Riverine Flooding Wildfires			
Clark	No rating	4.7	1.2	

19 th LD	Cowlitz, Grays Harbor, Lewis, Pacific, Wahkiakum				
Senator	Climate Score Representatives Climate Score				
Jeff Wilson		31	Joel McEntire	32	
	Jim Walsh 34				

	NRI Natural Hazard Risk Scores			
County	Drought Riverine Flooding Wildfires			
Cowlitz	No rating	9.5	0.6	
Grays Harbor	3.6	6.0	2.0	
Lewis	2.4	12.0	4.2	
Pacific	No rating	15.4	0.4	
Wahkiakum	No rating	8.3	No rating	

20 th LD Clark, Cowlitz, Lewis, Thurston					
Senator Climate Score Representatives Climate Score					
John Braun	44	Peter Abbarno	41		
		Ed Orcutt	38		

	NF	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires	
Clark	No rating	4.7	1.2	
Cowlitz	No rating	9.5	0.6	
Lewis	2.4	12.0	4.2	
Thurston	3.8	3.4	1.1	

21 st LD	Snohomish				
Senator		Climate Score	Representatives	Climate Score	
Marko Liias		97	Lillian Ortiz-Self	100	
			Strom Peterson	100	

	NRI Natural Hazard Risk Scores			
County	Drought Riverine Flooding Wildfires			
Snohomish	1.9	5.2	2.4	

22 nd LD Thurston						
Senator	Climate Score	Representatives	Climate Score			
Sam Hunt	100	Jessica Bateman	100			
		Laurie Dolan	100			

	NRI Natural Hazard Risk Scores			
County	Drought Riverine Flooding Wildfires			
Thurston	3.8	3.4	1.1	

23 rd LD Kitsap			
Senator	Climate Score	Representatives	Climate Score
Christine Rolfes	94	Drew Hansen	100
		Tarra Simmons	100

	NRI Natural Hazard Risk Scores			
County	Drought Riverine Flooding Wildfires			
Kitsap	No rating	2.1	0.8	

24 th LD	Clallam, Grays Harbor, Jefferson					
Senator	Senator Climate Score Representatives Climate Score					
Kevin Van De Wege		94	Mike Chapman	91		
			Steve Tharinger	97		

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Clallam	1.5	4.0	2.5
Grays Harbor	3.6	6.0	2.0
Jefferson	0.6	3.7	1.6

25 th LD Pierce	Pierce					
Senator Clima	te Score Representatives	Climate Score				
Chris Gildon 44	Kelly Chambers	41				
	Cyndy Jacobsen	41				

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Pierce	2.2	6.1	3.5

26 th LD	Kitsap, Pierce					
Senator		Climate Score	Representatives	Climate Score		
Emily Randall		97	Michelle Caldier	34		
			Jesse Young	28		

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Kitsap	No rating	2.1	0.8
Pierce	2.2	6.1	3.5

27 th LD Pierce						
Senator	Climate Score	Representatives	Climate Score			
Yasmine Trudeau	100	Jake Fey	100			
		Laurie Jinkins	100			

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Pierce	2.2	6.1	3.5

28 th LD	Pierce					
Senator		Climate Score	Representatives	Climate Score		
T'wina Nobles		100	Dan Bronoske	100		
			Mari Kruger-Leavitt	100		

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Pierce	2.2	6.1	3.5

29 th LD Pierce		
Senator Clim	ate Score Representatives	Climate Score
Steve Conway 100	Steve Kirby	100
	Melanie Morgan	100

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Pierce	2.2	6.1	3.5

30 th LD King, Pierce			
Senator	Climate Score	Representatives	Climate Score
Claire Wilson	100	Jesse Johnson	100
		Jamila Taylor	100

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9
Pierce	2.2	6.1	3.5

31 st LD King, Pierce			
Senator	Climate Score	Representatives	Climate Score
Phil Fortunato	41	Eric Robertson	39
		Drew Stokesbary	47

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9
Pierce	2.2	6.1	3.5

32 nd LD King, Snohomish			
Senator	Climate Score	Representatives	Climate Score
Jesse Salomon	100	Lauren Davis	100
		Cindy Ryu	100

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9
Snohomish	1.9	5.2	2.4

33 rd LD King			
Senator	Climate Score	Representatives	Climate Score
Karen Keiser	100	Mia Gregerson	100
		Tina Orwall	100

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9

34 th LD King			
Senator	Climate Score	Representatives	Climate Score
Joe Nguyen	100	Eileen Cody	100
		Joe Fitzgibbon	100

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9

35 th LD Kitsap, Mason, Thurston				
Senator Climate Score Representatives Climate Score				
Tim Sheldon	68	Dan Griffey	41	
		Drew MacEwen	38	

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Kitsap	No rating	2.1	0.8
Mason	2.2	5.0	2.6
Thurston	3.8	3.4	1.1

36 th LD King			
Senator	Climate Score	Representatives	Climate Score
Reuven Carlyle	100	Liz Berry	100
		Noel Frame	100

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9

37 th LD King			
Senator	Climate Score	Representatives	Climate Score
Rebecca Saldaña	100	Kirsten Harris-Talley	94
		Sharon Santos	100

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9

38 th LD	Snohomish			
Senator		Climate Score	Representatives	Climate Score
June Robins	son	100	Mike Sells	100
			Emily Wicks	100

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
Snohomish	1.9	5.2	2.4

39 th LD King, Skagit, Snohomish				
Senator	Climate Score	Representatives	Climate Score	
Keith Wagoner	34	Carolyn Eslick	41	
		Robert Sutherland	31	

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9
Skagit	No rating	7.5	3.0
Snohomish	1.9	5.2	2.4

40 th LD San Juan, Skagit, Whatcom				
Senator	Climate Score	Representatives	Climate Score	
Liz Lovelett	97	Debra Lekanoff	100	
		Alex Ramel	100	

	N	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires	
San Juan	No rating	2.5	0.6	
Skagit	No rating	7.5	3.0	
Whatcom	No rating	6	1	

41 st LD King			
Senator	Climate Score	Representatives	Climate Score
Lisa Wellman	100	Tana Senn	100
		My-Linh Thai	100

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9

42 nd LD	Whatcom				
Senator		Climate Score	Representatives	Climate Score	
Simon Sefzi	k	47	Alicia Rule	78	
			Sharon Shewmake	91	

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
Whatcom	No rating	6	1	

43 rd LD King						
Senator	Climate Score	Representatives	Climate Score			
Jamie Pedersen	100	Frank Chopp	100			
		Nicole Macri	100			

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
King	1.3	5.6	2.9	

44 th LD	Snohomish					
Senator		Climate Score	Representatives	Climate Score		
John Lovick		100	April Berg	100		
			Brandy Donaghy	100		

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
Snohomish	1.9	5.2	2.4	

45 th LD King			
Senator	Climate Score	Representatives	Climate Score
Manka Dhingra	100	Roger Goodman	100
		Larry Springer	94

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9

46 th LD King						
Senator	Climate Score	Representatives	Climate Score			
David Frockt	97	Gerry Pollet	100			
		Javier Valdez	100			

	NRI Natural Hazard Risk Scores			
County	Drought	Riverine Flooding	Wildfires	
King	1.3	5.6	2.9	

47 th LD	King					
Senator		Climate Score	Representatives	Climate Score		
Mona Das		100	Debra Entenman	100		
			Pat Sullivan	100		

	NRI Natural Hazard Risk Scores		
County	Drought	Riverine Flooding	Wildfires
King	1.3	5.6	2.9

48 th LD King			
Senator	Climate Score	Representatives	Climate Score
Patty Kuderer	100	Vandana Slatter	100
		Amy Walen	97

	NRI Natural Hazard Risk Scores										
County	Drought	Riverine Flooding	Wildfires								
King	1.3	5.6	2.9								

49 th LD	Clark			
Senator		Climate Score	Representatives	Climate Score
Annette Cle	eveland	100	Monica Stonier	100
			Sharon Wylie	100

	NRI Natural Hazard Risk Scores									
County	Drought	Riverine Flooding	Wildfires							
Clark	No rating	4.7	1.2							

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Appendix A: WA Senate Climate Scorecard, Legislative Sessions 2021-2022

	Climate Score	HB 1050	HB 1080	HB 1091	HB 1114	HB 1168	HB 1216	HB 1280	HB 1287	HB 1663	HB 1753	HB 1768	HB 1799	HB 1812	HB 1814	HB 1988	SB 5042	SB 5092	SB 5126	SB 5141	SB 5165	SB 5273	SB 5295	SB 5616	SB 5619	SB 5651	SB 5689	SB 5693	SB 5714	SB 5722	SB 5842	SB 5910	SB 5974
Andy Billig	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
John Braun	44	0	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	0
Sharon Brown	35	0	1	0	1	1	1	0	0	0	1	0	0	0	0	0	EA	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0
Reuven Carlyle	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Annette Cleveland	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Steve Conway	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mona Das	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Manka Dhingra	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Perry Dozier	34	0	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0
Phil Fortunato	41	0	1	0	1	1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	1	0
David Frockt	97	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
Chris Gildon	44	0	1	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Bob Hasegawa	91	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
Brad Hawkins	47	0	1	0	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	1
Jeff Holy	42	0	1	0	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	EA	1	1	1	1	0	0	1	0	1	0
Jim Honeyford	29	0	1	0	1	1	0	0	0	0	1	EA	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0
Sam Hunt	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Karen Keiser	100	1	1	1	EA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Curtis King	41	0	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Patty Kuderer	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Marko Liias	97	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
Liz Lovelett	97	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
John Lovick	100	NE	NE	NE	NE	NE	NE	1	NE	1	1	1	1	1	1	1	1	NE	NE	NE	NE	NE	NE	1	1	1	1	1	1	1	1	1	1
Jim McCune	32	0	1	0	1	1	1	0	0	0	1	0	0	0	0	0	EA	0	0	0	1	0	0	1	1	1	0	0	0	0	0	1	0
Mark Mullet	91	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ron Muzzall	41	0	1	0	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	1	0
Joe Nguyen	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
T'wina Nobles	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mike Padden	31	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	1	0
Jamie Pedersen	100	1	1	1	1	1	1	1	1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Emily Randall	97	1	1	1	1	1	1	1	0	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ann Rivers	55	1	1	0	1	1	1	0	0	1	- 1	0	- 1	1	0	- 1	0	0	0	0	0	0	0	1	1	1	1	EA	-1	0	1	1	0
June Robinson	100	1	1	1	1	1	1	1	1	EA	EA	EA	EA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	EA	1	1	1	1
Christine Rofles	94	1	1	1	1	1	1	1	0	1	- 1	1	- 1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rebecca Saldaña	100	1	1	1	1	1	1	1	1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Jesse Salomon	100	1	1	1	1	1	1	1	1	1	- 1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mark Schoesler	34	0	1	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0
Simon Sefzik	47	NE	NE	NE	NE	NE	NE	0	NE	1	1	0	1	0	0	0	0	NE	NE	NE	NE	NE	NE	1	1	1	1	0	0	0	1	1	0
Tim Sheldon	68	1	1	0	1	1	NV	1	0	1	1	1	0	1	1	1	0	0	1	0	1	0	1	EA	1	1	1	1	0	0	1	1	1
Shelly Short	41	0	1	0	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	0
Derek Stanford	100	1	- 1	1	1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	- 1	1	- 1	1	1	1	1	1	1	1	1	1	1	1
Yasmine Trudeau	100	NE	NE	NE	NE	NE	NE	1	NE	1	1	1	1	1	1	1	1	NE	NE	NE	NE	NE	NE	1	1	1	1	1	1	1	1	1	1
Kevin Van De Wege	94	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	- 1	1	1	1	1	1	1
Keith Wagoner	34	0	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	1	0
Judy Warnick	41	0	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	1	0	0	1	0
Lisa Wellman	100	1	1	1	1	1	1	1	1	EA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Claire Wilson	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Jeff Wilson	31	0	1	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0
Lynda Wilson	38	0	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	1	0

imate Score
Very high
Relatively high
Relatively moderate
Relatively low
Very low

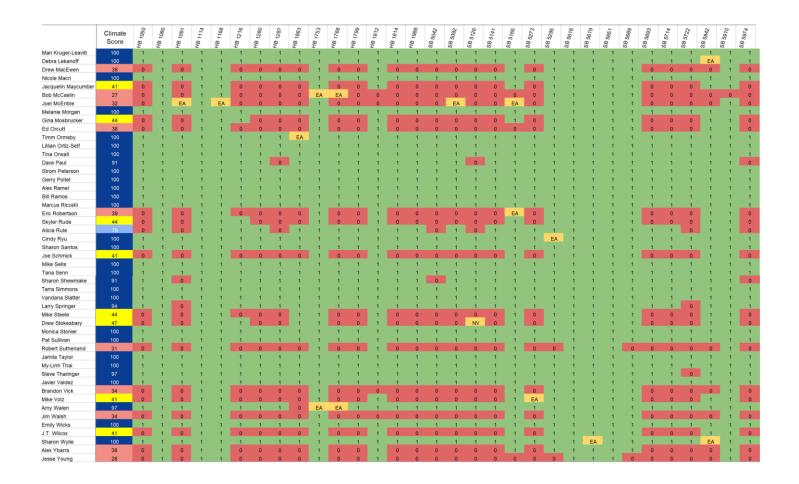
	Vote									
1	Pro Climate									
0	Anti Climate									
EA	Excused Absence									
NV	Not Voting									
NE	Not Elected									

Appendix B: WA House Climate Scorecard, Legislative Sessions 2021-2022

	Climate Score	HB 1050	HB 1080	HB 1091	HB 1114	HB 1168	HB 1216	HB 1280	HB 1287	HB 1663	HB 1753	HB 1768	HB 1799	HB 1812	HB 1814	HB 1988	SB 5042	SB 5092	SB 5126	SB 5141	SB 5165	SB 5273	SB 5295	SB 5616	SB 5619	SB 5651	SB 5689	SB 5693	SB 5714	SB 5722	SB 5842	SB 5910	SB 5974
Peter Abbarno	41	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Andrew Barkis	41	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Jessica Bateman	100	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
April Berg	100	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Steve Bergquist	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Liz Berry	100	1	1	1	- 1	1	1	- 1	1	- 1	1	1	1	1	1_	1	- 1	1	- 1	1	1	1	1	1	1	1	1	- 1	- 1	1	1	1	1
Matt Boehnke	41	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Dan Bronoske	100	1	1	1	1	1	1_	- 1	- 1	- 1	1	1	1	1	1_	1	- 1	- 1	1	1	- 1	1	1	1	1	1	1	- 1	- 1	1	1	1	1
Michelle Caldier	34	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0
Lisa Callan	100	1	1	1	1	1	1_	- 1	- 1	- 1	1	1	1	1	1_	1	- 1	1	1	1	1	1	1	1	1	1	1	- 1	- 1	1	1	1	1
Kelly Chambers	41	0	1	0	1	1	0	0	0	0	- 1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Bruce Chandler	39	0	1	0	1	1	0	0	0	0	1	0	0	1	0	EA	0	0	0	0	1	0	1	1	1	1	0	0	0	0	1	1	0
Mike Chapman	91	1	1	_1_	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1
Rob Chase	38	0	1	0	1	1	0	0	0	0	- 1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	1	0
Frank Chopp	100	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Eileen Cody	100	1	1	_1_	1	1	1	1	1	1	1	1	1	1	1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Chris Corry	42	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	EA	1	0	1	1	1	1	1	0	0	0	1	1	0
Lauren Davis	100	-1	1	1	1	1	1_	1	- 1	1	1	1	1	1	1_	1	1	1	1	1	1	1	1	1	1	1	1	- 1	1	1	1	1	1
Tom Dent	38	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	1	0
Laurie Dolan	100	- 1	- 1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	- 1	- 1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1
Brandy Donaghy	100	NE	NE	NE	NE	NE	NE	1	NE	1	1	1	1	1	1	1	1	NE	NE	NE	NE	NE	NE	1	1	1	1	1	1	1	1	1	1
Davina Duerr	100	1	1	1	1	1	1_	1	- 1	1	1	1	1	1	1	1	- 1	1	1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1
Jeremie Dufault	31	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0
Mary Dye	44	0	1	0	1	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Debra Entenman	100	1	1	_1_	1	1	1	1	1	1	1	1	1	1	1_	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Carolyn Eslick	41	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Jake Fey	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Joe Fitzgibbon	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Noel Frame	100	1	1	_1_	1	1	1	EA	- 1	1	1	1	1	1	_ 1	1	1	1	1	1	1	1	1	1	1	1	1	- 1	1	1	1	-1	1
Greg Gilday	44	0	1	0	1	1	_1_	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Keith Goehner	41	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Roger Goodman	100	1	1	_1_	1	1	1	1	1	1	1	1	1	1	_ 1	1	1	1	1	1	1	1	1	1	1	1	1	- 1	1	1	1	-1	1
Jenny Graham	44	0	1	0	1	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Mia Gregerson	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dan Griffey	41	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
David Hackney	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Drew Hansen	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1
Paul Harris	41 94	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0		1	0
Kirsten Harris-Talley		1	1	1	1	1	1	1	-1	1	1	1		1	1	1	1	1	0	1	1	1	- 1	1	1	1	1	1	1	1	0	1	1
Larry Hoff	38	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	1	0
Cyndy Jacobsen	41		1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Laurie Jinkins	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	54	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Jesse Johnson	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	EA	-1	1	1	-!	1	-!	-1	1	1	1	1	1	1	1	1	1	1
Steve Kirby	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mark Klicker	41	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0
Brad Klippert	41		1	0	1	1	0	0	0	EA	1	0	EA	1	0	0	0	0	0	0	1	0	1	1	1	1	0	0	EA	0	1	1	0
Shelley Kloba	100	1	1	1	1	1	1	- 1	1	-1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vicki Kraft	13	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Joel Kretz	45	0	1	0	1	1	0	1	EA	0	EA	EA	0	1	0	0	0	0	0	0	1	0	1	1	1	-1	1	0	0	0	1	1	0

Cli	mate Score
81-100	Very high
61-80	Relatively high
41-60	Relatively moderate
21-40	Relatively low
0-20	Very low

Vote									
1	Pro Climate								
0	Anti Climate								
EA	Excused Absence								
NV	Not Voting								
NE	Not Elected								



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