## Vaping Policy

	Status Quo	Ban Vaping	Ban Indoor Vaping	Tax Vaping Products	Ban Vaping under 21 + ban marketing for kids
Public health improves	<ul> <li>deaths seem to be tied only to THC vaping not regular nicotine vaping (McIntyre and McIntyre, 2019)</li> <li>specifically, vitamin E acetate used to dilute THC products is the cause (Aubrey and Kennedy, 2019)</li> <li>if we determine switching to vaping isn't safer, it won't improve public health (Bosman, 2019)</li> <li>the British health system believes vaping to be safer than smoking (Norcia, 2019)</li> <li>the risk associated with metals present in the aerosolized liquids is &gt;300x lower than daily allowable limits suggesting vaping does not present a significant health risk in this regard (Farsalinos et al., 2015)</li> </ul>	<ul> <li>many states and some individual cities are taking steps towards banning these products (Norcia, 2019)</li> <li>propylene oxide and glycidol are both carcinogens found in e-liquids with concentrations around 0.4-0.6% (Sleiman et al., 2016)</li> <li>vaping leads to rapid inflammation of lung cells even if there's no nicotine (Raloff, 2015)</li> <li>studies compiled by Rahman (2015) suggest vaping is equally bad to smoking</li> <li>there are significantly more free radicals in vapors (&gt;30 uM) than in traditional smoke (&lt;20 uM) (Rahman, 2015)</li> <li>Nebraska has laws restricting you access, but no other laws on vaping (Bhalerao et al., 2019)</li> <li>15-18% of tobacco users reported using both tobacco and vaping while 0% of</li> </ul>	- controlled studies examined vaping in a well-ventilated indoor space showed a 20% increase in the presence of PAH (a carcinogen) in the air (Schober et al., 2014) - while exposure to secondhand smoke decreased 4% between 2015-2018, exposure to secondhand vaping increased by 8% over the same time span with 7% of that growth between 2017-2018 (Tan et al., 2019)	- taxing cigarettes by >8 cents resulted in a decrease 7.3 packs per user per year between 1955-1988 while decreases of <4 cents resulted in an increase of .8 packs per user across the same time period (Peterson et al., 1992)	<ul> <li>27% of high school students and 10% of middle school students reported using e- cigarettes with 72% and 59% of those users specifically using flavored e-cigarettes focusing on mint, fruit, and sweet flavoring (Cullet et al., 2019)</li> <li>JUUL committed to not fighting a flavor ban if the federal government went that direction (Norcia, 2019)</li> <li>Phillip Morris and Juul are being sued for deceptive marketing tactics aimed at children (Roberts, 2019)</li> <li>nicotine use by children ages 12-17 shows significant increases in likelihood of developing addictive tendencies (USDHHS, 2012)</li> <li>88% of lifelong smokers tried cigarettes by age 18 (USDHHS, 2012)</li> <li>a national panel concluded that vaping as a youth increases</li> </ul>

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non-tobacco users used		your likelihood of
vaping (SBRCS, 2016)		smoking in the future
-76% of vapers reported		(Kaplan, 2018)
using tobacco as well in		- exposure to nicotine
Nebraska (SBRCS,		during adolescent
2016)		development leads to
-only 5 Nebraska		long-term changes in
colleges/universities		psychological function
have banned vaping		and decision making
products (SBRSC,		(Goriounova and
2016)		Mansvelder, 2012)
		- vaping overtook
		traditional tobacco use
		among teens in 2014
		tripling from 4.5%-
		13.4% since 2013
		(Raloff, 2015)
		- in 2014, there were
		still 10 states with no
		age restrictions on
		vaping (Raloff, 2015)
		- vaping leads to rapid
		inflammation of up to
		60% of lung cells even
		if there's no nicotine
		(Raloff, 2015)
		-online regulations only
		require youths to check
		a box saying they're 18
		to buy products (Raloff,
		2015)
		-Nebraska is currently
		considering this change
		making them the 3 <sup>rd</sup>
		state to raise the
		smoking age to 21
		(Hawaii/California)
		(Pluhacek, 2017)
		-Nebraska has laws
		restricting you access,

Economy benefits	- JUUL spent \$11mil	- Due to the bans on	-banning the use of	- taxing cigarettes by	but no other laws on vaping (Bhalerao et al., 2019) -in England, youth users of vaping were more interested in flavors and smoke tricks than they were in the nicotine itself (Measham et al., 2016) - 22.3% of Nebraska youth reported using e- cigarettes compared to 21% reporting using tobacco products in 2015 (SBSRC, 2016) - tobacco companies
	on ads campaigning to prevent the ban on e- cigs in SF before they gave up the fight (Norcia, 2019) - as a replacement for big tobacco, the vaping industry is expected to grow to \$5.1bil in 2018 (Kaplan, 2018) - between 2012-2013, Nebraska saw an increase in vaping product sales of \$275,000 correlated to an increase of \$57mil increase across the US (Loomis et al., 2016) - the total dollars spent on these products in Nebraska in 2013 was \$680,000 (Loomis et al., 2016)	vaping products, many "mom n pop" vaping shops have been preemptively closing (Norcia, 2019) - the \$57 mil spent on vaping in the US in 2013 is a small number compared to the billions spent on traditional tobacco (Loomis et al., 2016) - 37% of vape users indicate that they view vaping as complimentary to their smoking rather than as a substitute for smoking reducing the cost saving potential by 57% or \$4.2-6.9bil annually (Doyle et al., 2015)	cigarettes indoors did not impact the tobacco economy (Erickson and Chaloupka, 2007)	>8 cents resulted in a decrease 7.3 packs per user per year between 1955-1988 while decreases of <4 cents resulted in an increase of .8 packs per user across the same time period (Peterson et al., 1992)	spent \$9.94bil on cigarette ads in 2008, 54% more than in 1998 (including a 277% increase in smokeless tobacco advertising) following efforts by government agencies to reduce the number of child smokers (USDHHS, 2012) - ~350,000 of the 900,000 youths who smoke their first cigarette were deterred from smoking by "The Real Cost" federal programs (Farrelly et al., 2017) - Raising the smoking age to 21 would cost Nebraska \$4.7mil in tax

	- 37% of vape users indicate that they view vaping as complimentary to their smoking rather than as a substitute for smoking reducing the cost saving potential by 57% or \$4.2-6.9bil annually (Doyle et al., 2015)		revenue annually (Pehuceck, 2017) - cigarette sales continued to outpace the \$2.5bil vaping market in 2015, and vaping sales showed a slight decline since 2014 but growth in sales to youth continued to grow (Marynak et al., 2017)
Costs of health care decrease	-the problem is that switching from traditional to electronic cigarettes ultimately does not typically result in the cessation of smoking altogether (Bhalerao et al., 2019)		-US taxpayers pay billions each year in medical care and lost procutivty due to smoking (Pehucek, 2017)
Options to reduce tobacco use maintained	- anecdotal examples show that vaping did help reduce cigarette use (Giles, 2019)		
Freedom of choice maintained	- ~350,000 of the 900,000 youths who smoke their first cigarette were deterred from smoking by "The Real Cost" federal programs (Farrelly et al., 2017)		

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## Flood Management

	Rebuilding dams/levees	Regulations to prevent	Improved tech	Dechannelization /
	-	or adapt construction on	(retention ponds /	flood plain expansion
		flood plains	drainage / modeling)	
Reduce flood damage	- rules set in 1969	- as early as 1969, it	- models relying on old	- dry dams essentially
	essentially established	was recognized that	data simply can't keep	control where
	that within the expected	development was	up with the climate	floodplains will exist
	zone of a 100-year	occurring in areas	alterations to	(CPNRD, n.d.)
	flood you can't build	where managing	waterways (Song et al.,	- an option is to pursue
	any structures that can't	flooding is not	2018)	the acquisition /
	withstand flood damage	economically or	- in order to	demolition and
	but can farm with	technologically possible	successfully adapt to	relocation of
	updated lines to be	(Gilman 1969)	future changes, we need	individuals in flood
	provided as new dams	- regulations prevent	models that are	plains (NDNR, 2013)
	are constructed (Gilman	the future harm to	predicting climate	- natural floodplains
	1969)	human life (Gilman	changing variables	help reduce flood risk
	- construction of	1969)	(USGRPC, 2018)	by slowing runoff and
	dams/levees simply	- rules set in 1969	- cities like New York	storing flood water
	can't keep up with the	essentially established	and Miami are using	(FEMA, 2018)
	rate of change that	that within the expected	new improved models	- 1 acre of floodplain
	waterways are	zone of a 100-year	to raise the levels of	with 1 foot of water on
	experiencing (Song et	flood you can't build	levees, streets, and	it will store 330,000
	al., 2018)	any structures that can't	buildings with future	gallons of water
	- 71% of Nebraska	withstand flood damage	climate change issues in	(FEMA, 2018)
	major disaster	but can farm with	mind (USGRCP, 2018)	- buyouts expand
	declarations since 1993	updated lines to be	- new models produced	floodplains and remove
	and 59% of the nation's	provided as new dams	by researchers from the	risk for users at market
	major disaster	are constructed (Gilman	U.K. showed 41 million	values (NWF, n.d.)
	declarations since 1999	1969)	people live in the 1%	
	have been due to	- requiring farmers to	probability floodplain	
	floods, so clearly what	plant winter cover crops	in the U.S. compared to	
	we've been doing isn't	will reduce soil erosion	old FEMA models that	
	working (Magnuson	during spring floods	said only 13million	
	and Duerig, 2019)	(USGRCP, 2018)	people (Wing et al.,	
	- USACE was just	- 41 million people put	2018)	
	given \$1bil to	themselves at risk of	- the new "Rain for	
	specifically rebuild	flooding by building	Rent" DV600c Pump	
	dams and levees in the	within floodplains in	can redirect up to	
	Midwest including		28,000 gallons per	

	Nebraska (Stewart,	the U.S. (Wing et al	minute of rainfall and	Γ	1
		the U.S. (Wing et al.,			
	2019)	2018)	was used to protect		
		- a stated objective of	Omaha from flooding		
		NDNR is to support	during the College		
		initiatives that protect	World Series (Rain for		
		or exclude human	Rent, n.d.)		
		habitation in flood	- retention ponds at		
		zones (NDNR, 2013)	Lewis and Clark Lake		
		- a needed action is to	are currently only		
		actually enforce current	capable of holding back		
		floodplain restrictions	1% of the amount of		
		(NDNR, 2013)	water that was dumped		
		- another good action	there by the 2019		
		would be to change	floods (Yoders, 2019)		
		building code	- a stated objective of		
		restrictions and	the NDNR is to		
		inspections to improve	improve flood warning		
		buildings in flood	systems (NDNR, 2013)		
		plains (NDNR, 2013)	-development of		
		-	retention ponds where		
			feasible would be		
			beneficial (NDNR,		
			2013)		
Maintain resource	- levees are typically	- requiring farmers to	- coordination with	- Flooding resulted in	
equity	built to protect affluent	plant winter cover crops	NDeptRoads could	the loss of \$400-450mil	
	communities leaving	will reduce soil erosion	minimize influence on	in Nebraska in 2019; if	
	others to suffer (Song et	during spring floods	user groups by	the floodplains are	
	al., 2018)	helping downstream	coordinate road	expanded, this is who	
	- some dams are	folks and allowing	construction with flood	will suffer	
	privately owned in	earlier access to fields	mitigation (NDNR,	economically	
	Nebraska, which means	(USGRCP, 2018)	2013)	(Magnuson and Duerig,	
	that private individuals	(0501101,2010)	_010)	2019)	
	are required to do the			- tribal nations rely on	
	upkeep of dams			natural resources and	
	resulting in those dams			expanding floodplains	
	not being maintained			would protect them	
	and endangering many			(USGRCP, 2018)	
	people because dam			(0501(01, 2010)	
	repairs can't be				
	afforded by these				
	anorded by these				

	individuals (USDA NRCS, 2019)				
Conserve / restore wildlife	-dams expand wetland habitats for wildlife (USDA NRCS, n.d.) -\$2.5mil given to four NRDs in Nebraska will be used to curtail flooding as well as provide wetland restoration to protect endangered Salt Tiger Beetles (USDA NRCS, 2019) -4 of the 6 Army Corps reservoirs in Nebraska aren't capable of retaining sediment resulting in uninhabitable reservoirs (Yoders, 2019) - the construction of dams limits the natural flow of water thereby getting rid of floodplains that serve as important hotspots of biodiversity (Andreozzi, 2018)	<ul> <li>development in floodplains was shown to negatively impacts orca, salmon, steelhead, sea turtles, key deer, and other endangered species across several studies (NWF, n.d.)</li> <li>the expansion of floodplains following Nebraska's 2019 floods actually increased habitat for wildlife without significantly harming populations (BonFluer, 2019)</li> </ul>	<ul> <li>Development of retention ponds sets up a useful environmental habitat type (NDNR, 2013)</li> <li>the expansion of floodplains following Nebraska's 2019 floods actually increased habitat for wildlife without significantly harming populations because there are many semi-aquatic predators that prefer habitats with many backwaters (BonFluer, 2019)</li> </ul>	<ul> <li>dry dams require lands to be protected as floodplains, which ultimately provides habitat for wildlife until floods come and later recede (CPNRD, n.d.)</li> <li>natural floodplains provide protected habitats for fish and wildlife and provide higher quality recreational opportunities such as fishing, bird watching, etc. and increase overall biodiversity (FEMA, 2018)</li> <li>floodplain restoration provides improved habitat for fishes (NWF, n.d.)</li> <li>floodplains are important hotspots of biodiversity (Andreozzi, 2018)</li> </ul>	
Conserve water for irrigation and drinking	-dams store water that can be used for drinking and irrigation (USDA NRCS, n.d.) - storing water via the construction of dams can be highly expensive compared other water conservation options (Marsden Jacobs Associates, 2006)	<ul> <li>requiring farmers to plant winter cover crops will reduce soil erosion during spring floods and return more moisture to the soil (USGRCP, 2018)</li> <li>restricting actions in floodplains, such as deforestation and agricultural practices</li> </ul>	<ul> <li>- improved water retention is vital to restoring aquifers because we are withdrawing 10x faster than the aquifers naturally replenish (USGRCP, 2018)</li> <li>- improved retention ponds and canals present a useful way to</li> </ul>	- restoring floodplains is important for water retention and refilling aquifers used for agriculture (FEMA, 2018)	

	- expanding dams and	can help to increase	concomio uistan for		1
		1	conserve water for		
	reservoirs provided	water in these habitats	human use (EPA, 2018)		
	increased habitat for	protecting wildlife	- new technology alone		
	fish and other wildlife	species that live in	is unable to keep up		
	(Ahmad, 2017)	floodplains (Pagiola,	with the rising demand		
		2003)	for water, although it		
			might be useful for		
			flooding (National		
			Water Commission,		
			2014)		
Tax payer cost	- the Army Corps of	- local governments	- Flooding at Offut Air	- the Army Corps of	
minimized	Engineers argues that	aren't enforcing laws	Force Base was	Engineers argues that	
	building levees is more	because they gain tax	predicted in 2011, but	building levees is more	
	cost effective than	revenue when people	nothing was done about	cost effective than	
	buying homes (Song et	construct new	the need for a \$11mil	buying homes (Song et	
	al 2018)	buildings/homes even if	levee resulting in a	al 2018)	
	- flooding is expected	it's in flood plains	2019 flood resulting in	- cities in Milwaukee	
	to result in \$500mil in	(Song et al, 2018)	damage that will cost	and Michigan are	
	damages annually by	- as early as 1969, it	taxpayers far more	actually dechannelizing	
	2050 based off climate	was recognized that	(Hasemyer, 2019)	having now realized	
	change predications	development was	- Making decisions that	that storm pipes create	
	(USGRCP, 2018)	occurring in areas	are proactive may be	increased risk of	
	- 900 dams constructed	where managing	costly up front but	damage following	
	across Nebraska as part	flooding is not	decrease costs	extreme floods	
	of the Watershed	economically or	following flooding	(USGRCP, 2018)	
	Protection and Flood	technologically possible	disasters (Lempert et	(0501101,2010)	
	Prevention act saves	(Gilman 1969)	al., 2018)		
	Nebraska citizens	-flooding on the	ui., 2010)		
	\$37mil in damages	Mississippi and			
	annually (USDA	Missouri rivers led to			
	NRCS, n.d.)	\$5.7bil in damages in			
	- 41% of Nebraska's	2011			
	dams (which are built	- at present, 50yr or 100			
	with a 50 year life	yr floods would result			
	expectancy) are >50yrs	in ~\$1trillion in			
	old and rebuilding those	damages in the U.S.			
	dams will be extremely	(Wing et al., 2018)			
	costly (Yoders, 2019)	- switching to no-till			
		agriculture increases			
		water infiltration into			

soils by 2-400% and	
decreases erosion by	
95% (USDA NRCS,	
n.d.)	

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