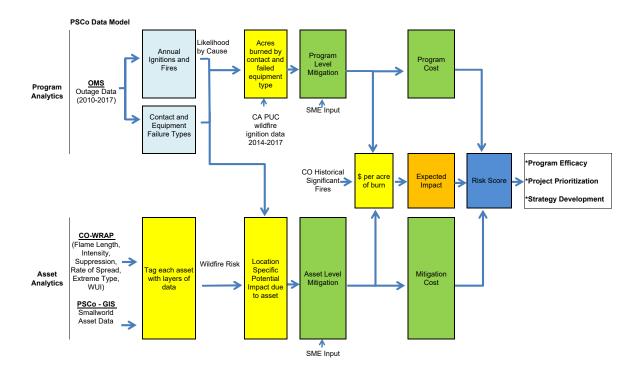
Wildfire Analysis Flow Chart

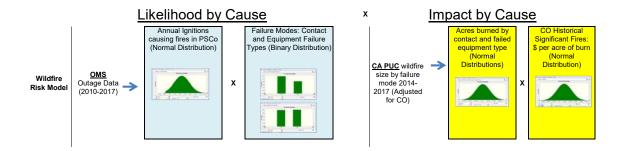






Wildfire Analysis Flow Chart

PSCo Data Model

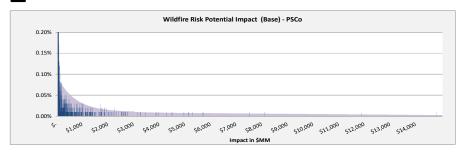


Results

Contact from Object and Equipment Failure Yes-No Distributions

\$ per Acre Burned Distribution (Ave = \$8,762, SD = \$13,722) If negative cost, equals zero

= Expected Impact (Skewed Right Distribution)



Goal: score the proposed projects to mitigate the wildfire risk in CO

Likelihood	Annually
Annual Utility Caused WildFires in Colorado PSCo - Calculation	15.00
CO/CA ratio	100.0%
Liability Factor Assumption	40.0%
Punitive damages can be up to 5 times the compensatory amount	
constitutionally, historically 10% of punitive damages are awarded	0.1
Deterioration Factor - only for equipment failure	10.0%

Impact: historical fires for the Cost Per Acre Calculation

Description	Year	Acres Burned	Cost in millions	\$/Acre Burned	Homes	Fatalities	Cause
Spring Creek Fire	2018	108,045	117	1,083	141	0	Arson
Iron Mountain	2002	4,439	7.5	1,690	100	0	Unknown
Burn Canyon fire	2002	30,573	12.7	415	0	0	Lightning
Missionary Ridge Fire	2002	71,739	40	558	46	1	Human Caused
Coal Seam fire	2002	12,209	24.5	2,007	43	0	Burning Underground coal seam (ignited in 1910)
416 & Burro Fire Complex	2018	55,000	43	782	0	0	Embers emitted from a coal-powered train
Hayman Fire	2002	137,760	38.7	281	133	6	Arson
High Park Fire	2012	87,284	113.7	1,303	259	1	Lightning
Fourmile Canyon fire	2010	6,181	217	35,108	168	0	Reignited extinguished fire pit
Black Forest Fire	2013	14,280	420.5	29,447	511	2	Human Caused
Waldo Canyon Fire	2012	18,247	453.7	24,864	346	2	Unknown

Average	\$ 8,867	\$ 8,867.00
Standard Deviation	\$ 13,652	

Included in Probablitities

Likelihood of ignition (2 scenarios)
Ignition from contact - Vegetation
Ignition from equipment failure by asset

Fire Incidents by Suspected Ignition Cause	Colorado Data	Percentage
Contact from Object	16.8%	16.849
Contamination	0.6%	0.639
Equipment/Facility Failure	75.0%	75.009
Other	0.0%	0.009
Unknown	5.4%	5.409
Vandalism	1.1%	1.139
Wire/Wire Contact	1.0%	1.009
Total	100.0%	

Total	100	0%											
			Using a Normal Distribution	and all negative values a	re considered 0								
					CO expected acres burned	Colorado expected acres							
			Historical Fire Size Mean	Historical Fire Size Stand	annually from Utility Caused	burned annually from	Expected	Assets in	Assets in	Assets in	Assets in	Assets in	
Object Contact - Object Type	Colorado Data	Percentage	(acres)	Dev (acres)	Fires	Utility Caused Fires	Consequence	WFR 1	WFR 2	WFR 3	WFR 4	WFR 5	weighting
Animal	25.2	0% 25.20%	6 23.19	192.47	14.76	14.76 \$	183,241	85,854	10,205	3,033	1,650	2,444	30
Balloons	3.2	5% 3.25%	1.43	4.81	0.12	0.12 \$	1,455	423,690	24,757	6,634	2,433	3,587	13
Other	4.0	7% 4.079	6 12.30	65.02	1.26	1.26 \$	15,674	451,253	68,256	19,385	9,855	12,963	30
Vegetation	49.5	9% 49.59%	6 230.68	2971.10	288.98	288.98 \$	3,587,377	423,690	24,757	6,634	2,433	3,587	13
Vehicle	17.8	9% 17.89%	3.66	34.55	1.65	1.65 \$	20,543	451,253	68,256	19,385	9,855	12,963	30
SubTotal			271.25		306.78	306.78 \$	3,808,291						
Equipment/Facility Failure													
Cap Bank	0.3			1.30		0.026 \$		1,360	35	4	2	2	6
Conductor and Conductor Splice	11.0			36.80		6.603 \$		423,690	24,757	6,634	2,433	3,587	13
Crossarm	0.1		6 29.08	93.18		0.660 \$	-,	214,635	25,512	7,582	4,126	6,109	30
Fuse	3.3			1.71		0.410 \$		33,055	4,052	1,163	562	1,020	31
Guy/Span Wire	0.1			2.25		0.034 \$		64,390	7,654	2,275	1,238	1,833	30
Insulator	51.3			9.44		19.018 \$	236,082	451,253	68,256	19,385	9,855	12,963	30
Lightning Arrestor	0.9			106.41		3.031 \$. ,	65,003	8,240	2,946	1,721	3,900	51
Pole	1.8	3% 1.839	44.49	135.13	10.10	10.102 \$		451,253	68,256	19,385	9,855	12,963	30
Recloser	0.0			0.00		0.000 \$	-						
Sectionalizer	0.0		1.11	0.00		0.000 \$	=						
Switch	5.1			1.44		0.446 \$	-,	738	195	9	2	-	7
Transformer	2.9			8.60		0.906 \$	11,251	65,003	8,240	2,946	1,721	3,900	51
Voltage Regulator	0.0		6 0.14	0.10	-	0.000 \$	-	738	195	9	2	-	7
Other	22.7	5% 22.75%		5.41		3.156 \$		451,253	68,256	19,385	9,855	12,963	30
SubTotal			115.65		44.3939	44.3939 \$	551,097						
Other Utility Caused issues (other 8%)													
Contact with 3rd Party			1.18	1.95									
Contamination		0.6279		17.47	0.76	0.761 \$		451,253	68,256	19,385	9,855	12,963	30
Unknown		5.400%		3,686.40	301.70	301.696 \$	3,745,197	21,984	17,232	4,221	1,604	745	34
Vandalism/Theft		1.129%		16.70	1.49	1.487 \$	-, -	85,854	10,205	3,033	1,650	2,444	30
Wire-Wire Contact		1.0049		1.25	0.08	0.084 \$		1,437	807	345	188	15	32
Subtotal		89	6			\$	3,774,141						
							Weighting fro	m CO-WRAP (
								4	15	56	218	840	1,133
Totals					655.20	655.20	15						

Totals 655.20 655.20 15 2827.62

Mean expected consequence
Total Impact - Base Case

Status Quo

Status Quo

Status Quo

Mean expected consequence

\$ 8,133,528 \$35,845,016 \$87,987,135

				Prog	
		Wild Fire Program Sun	nmary		
	MITIGATION ACTION ACTIVITIES	J	, 		
Mitigation Number	Protection Plan	Summary	Risk/Action		
P-1	Review need for existing reclosers	Quick assessment of coordination, control functionality, placement and usefulness	Removal, replacement or modification of existing reclosers to reduce wildfire risk	PP-1	
P-2	Distribution Wild Fire Protection Guidelines	Guideline document for overcurrent protection application	Improve reliability while lowering the risk of fire due to a fault	PP-2	
PP-3	Protection Study for WFRZ feeders	Detailed overcurrent protection review, design and construction planning	Improve reliability while lowering the risk of fire due to a fault	PP-3	
PP-4	Design/Construct new protection schemes	Complete field configuration of protection	Improve reliability while lowering the risk of fire due to a fault	PP-4	
PP-5	Dist. Sub Relay Upgrade	Relay upgrade to enable non-reclosing functionality	Permit not-reclosing during periods of high fire risk	PP-5	
PP-6	Red Flag Procedure for Distribution	Xcel meteorologists determine Red Flag Warning Day	Matches waring to specific to Xcel Energy assets	PP-6	
PP-7		Addition of tools to ADMS to improve circuit breaker operation	Improves protection and performance	PP-7	
PP-8	Recloser Communications	Establish field communications network for remote recloser settings control	Enable change to recloser settings for high risk days	PP-8	

PP-9	FLISR	System that will isolate faults and restore power to the rest of the system.	Improve reliability while lowering the risk of fire due to a fault	PP-9
PP-10	Falling Conductor Detection	Research and implement advanced detection schemes	Reduce risk of live conductor on ground	PP-10
	Total Costs			
	Hardening Plan	Summary	Risk/Action	
HP-1	Spin Secondary	Upgrade open wire secondary to spun secondary (#1/0 or #4/0 Triplex) (about \$5/ft)	Improve reliability while lowering risk of fire due to a fault.	HP-1
HP-2	Wind Strength Review (Distribution)	Evaluate and verify the capability of existing transmission lines to withstand winds up to 90 mph	Evaluate all moderate and high risk wildfire zone poles for structural strength to comply with NESC - Grade B, extreme wind (90 mph) standard. Reduce the risk of structural and wire failure.	HP-2
HP-3	Down Wire Report & Fire Ignition Report	Develop a process to track all down wire orders for PSC (also Fire Ignition)	Evaluation of data will help determine higher risk failure components and higher risk circuits. Will support decisions on mitigating risk.	HP-3
HP-4a	Replace 60 year old Poles	Replace 60 year old Poles	Reduce possible ignitions from older assets	HP-4a
HP-4	Replace 60 year old OH	Replace 60 year old OH Conductor	Reduce possible ignitions from older assets	HP-4
	Total Costs			
	Vegetation Management Plan	Summary	Risk/Action	
VM-1	On 4 Year Cycle	Maintain 100% on-cycle (4yr) in wild fire zones	Create a project management plan to prioritize and schedule area of work. Plan will keep cycle on track. Program will reduce the number of electrical failures due to vegetation.	VM-1

VM-1a	On 4 Year Cycle	Distribution non-WRZ - Reestablish 100% on- cycle status in remainder of PSCo	Create a project management plan to prioritize and schedule area of work. Plan will keep cycle on track. Program will reduce the number of electrical failures due to vegetation.		
VM-1b	On 4 Year Cycle-trans	Maintain 100% on-cycle (4yr) in wild fire zones	Create a project management plan to prioritize and schedule area of work. Plan will keep cycle on track. Program will reduce the number of electrical failures due to vegetation.	VM-1b	
VM-2	Pole Brushing (10' radius on base of equipment pole)	Clearing a 10' radius around the base of all equipment poles.	Equipment poles have a higher potential of creating high thermo component upon failure. By clearing the vegetation and debris at these poles, the fuel source has been limited and reduces the risk of a wild fire.	VM-2	
VM-2b	Pole Brushing (10' radius on base of transformer poles)	Pole Brushing (10' radius on base of transformer poles)	By clearing the vegetation and debris at these poles, the fuel source has been limited and reduces the risk of a wild fire.	VM-2b	
VM-3	Service Line Clearance	Trimming stand alone secondary voltage lines	Determine the necessary clearance for stand alone secondary voltage lines and clearing them to reduce electrical failure. Will reduce line to ground failures and vegetation burn.	VM-3	
VM-4	Ground to Sky Clearance (In Progress)	Expanded Veg Clearance	Reduced risk of contact	VM-4	
VM-5	(In Progress)	Enhance the existing Mountain Hazard Trees program - stand alone program	Separate the current Mountain Hazard Tree program from the existing tree vendor's annual books of work program and establish its own stand alone program.	VM-5	
	Total Costs				
DI 4	Distribution Pole	Summary	Risk/Action	DI 4	
PI-1	Pole Inspection / Replacement Program	Perform ground line inspection to identify pole deterioration	Identify and perform an inspection on all poles in the WFRZ. Replace or repair all poles with high risk of failure. This will reduce electrical line on ground failures.	PI-1	
Pi-4	Infrared Inspection Program	Infrared Inspection Program	Infrared Inspection Program	PI-4	

PI-3	Pole Repair/Replace (Infrared)	Pole Repair/Replace (Infrared)	Pole Repair/Replace (Infrared)	PI-3
PI-2	Above Ground Line Inspection Program	Review and Inspect all poles with above ground line issues.	Target poles with above ground line issues from the Pole Inspection program dataset. Verify if poles needs to be repaired or replaced to mitigate future failures	PI-2
	Total Costs			
	Inspection	Summary	Risk/Action	
IN-1	Infrared Inspection Program	Inspect all equipment in the WFRZ with thermo imaging technology	Program will identify any electrical component running above its recommended thermo limits. Replacement of these components will be necessary to mitigate equipment failure.	IN-1
IN-2	Open Wire Quantification	Field verification of all OH secondary data for system accuracy	Verify 71 feeders in the WFRZ.	IN-2
	Total Costs			
	Transmission Mitigation Plan	Summary	Risk/Action	
TR-1	Transmission Infrared Inspection Program	Increase transmission line assets' reliability by using thermal imagin technology to identify equipment thermal hot spots.	Inspect 300 circuit miles for hot spots. Replace or repair equipment with high potential risk.	TR-1
TR-2	Wind Strength Review (Transmission)	Evaluate and verify the capability of existing transmission lines to withstand winds up to 100 mph	Transmission system evaluated with the aid of computer software modeling and will identify weaknesses in the system.	TR-2
TR-3	Downed Conductor Tracking	Track downed conductor on transmission lines	Document all occurrences of down conductor and splice failures.	TR-3
			1	

	Total Costs			
TR-5	Wood Pole Coating For Transmission	Increase wood pole fire resistivity through the installation of fire resistive material on at-risk poles.	Develop standards and identify high risk zones. Install fire resistive material	TR-5
TR-8	Trans Visual Inspection	Trans Visual Inspection	Trans Visual Inspection	TR-8
TR-7	Transmission Wildfire Protection (TWP)	Reducing fuel load in radius around selected structures	Reducing fuel load in radius around selected structures	TR-7
TR-6	ROW Vegetation Conversion to Long Term Sustainability		Changing vegetation cover type from easements edge-to-edge to less woody vegetaion, and more prairie	TR-6
TR-4b	High Priority Pole and Component Replacement-2nd tier	Identify and address transmission line defects within the high wildfire risk areas.	Continue 12-year cycle pole inspection program and annual inspection program.	TR-4b

	WFR 1	WFR 2	WFR 3	WFR 4	WFR 5		
Weighting		4	15	56	218	840	1,133

PP-1 Review need for existing reclosers

	Assets in WFR		Percent of		Percent	Expected Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk Eff	fectiveness	Effective	Burned	Consequence
Animal						-	0%		0.09	6 14.76109964	\$ 183,241
Balloons						-	0%		0.09	6 0.117219095	\$ 1,455
Other						-	0%		0.09	6 1.262642842	\$ 15,674
Vegetation			6,634	2,433	3,587	8	67%	2	30.09	6 231.3084439	\$ 2,871,417
Vehicle						-	0%		0.09	1.654869799	\$ 20,543
SubTotal											
Equipment/Facility Failure											
Cap Bank						-	0%		0.09	6 0.026164785	\$ 325
Conductor and Conductor Splic	ce					-	0%		0.09	6.60266794	\$ 81,964
Crossarm						-	0%		0.09	6 0.660385321	\$ 8,198
Fuse						-	0%		0.09	6 0.409805505	\$ 5,087
Guy/Span Wire						-	0%		0.09	6 0.034059633	\$ 423
Insulator						-	0%		0.09	6 19.01768807	\$ 236,082
Lightning Arrestor						-	0%		0.09	3.03146762	\$ 37,632
Pole						-	0%		0.09	6 10.10245046	\$ 125,410
Recloser											
Sectionalizer											
Switch						-	0%		0.09	6 0.446499083	\$ 5,543
Transformer						-	0%		0.09	6 0.906338642	\$ 11,251
Voltage Regulator						-	0%		0.09	6 0	\$ -
Other						-	0%		0.09	6 3.156368807	\$ 39,183
SubTotal											,
Other Utility Caused issues (oth	ner 8%)										
Contact with 3rd Party	,										
Contamination						_	0%		0.09	6 0.760664994	\$ 9,443
Unknown						-	0%		0.09		
Vandalism/Theft						_	0%		0.09		
Wire-Wire Contact						_	0%		0.09		•
Subtotal											
Total Expected Consequence											\$ 7,417,568
, , , , , , , , , , , , , , , , , , , ,											\$10,211,438
Benefit (95th Percentile)											\$ 77,775,697



	Assets in W	FR Assets in WFF	Assets in WFR	Assets in WFR	Assets in WFR		Percent of		Percent	Expected Acres	Nev	w Expected
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned		sequence
Animal						-	0%			0.0% 14.7610		183,241
Balloons						-	0%			0.11721		1,455
Other						-	0%			0.0% 1.26264		15,674
Vegetation						-	0%			0.0% 288.982		3,587,377
Vehicle	451,	253 68,25	6 19,385	9,855	12,963	30	100%		5 90	0.1654	8698 \$	2,054
SubTotal												
Equipment/Facility Failure												
Cap Bank						-	0%			0.02616	4785 \$	325
Conductor and Conductor Splic	ce					-	0%				6794 \$	81,964
Crossarm						-	0%			0.66038	5321 \$	8,198
Fuse						-	0%		(0.40980	5505 \$	5,087
Guy/Span Wire						-	0%			0.03405	9633 \$	423
Insulator						-	0%		(0.0% 19.0176	8807 \$	236,082
Lightning Arrestor						-	0%		(0.0% 3.0314	6762 \$	37,632
Pole						-	0%		(0.0% 10.1024	5046 \$	125,410
Recloser												
Sectionalizer												
Switch						-	0%			0.44649	9083 \$	5,543
Transformer						-	0%		(0.90633	8642 \$	11,251
Voltage Regulator						-	0%			0.0%	0 \$	-
Other	451,	253 68,25	6 19,385	9,855	12,963	29.98	100%		2 30	0.0% 2.20945	8165 \$	27,428
SubTotal												
Ode and Helling Course discuss of the	h 00()											
Other Utility Caused issues (ot	ner 8%)											
Contact with 3rd Party Contamination							0%		,	0.76066	4004 ¢	0.442
Unknown	21	1712	1 4 2 2 1	1 604	745	33.84						9,443
	21,	984 17,23	2 4,221	1,604	745	33.84	100%			0.0% 211.187 0.0% 1.48660		2,621,638
Vandalism/Theft Wire-Wire Contact							0%			0.0% 1.48660 0.0% 0.08431		18,454
Subtotal							0%		'	0.06451	, 0100 ¢	1,047
Total Expected Consequence											\$	6,979,726
·												\$77,278,005
Benefit (95th Percentile)											\$	10,709,130



	Assets in WFR	Assets in WFR	Accets in MED	Accets in WED	Accets in WED		Percent of		Pero		Expected Acres	New Expected
Object Contact - Object Type		2	3	4	5	weighting	total risk	Effectiveness			Burned	Consequence
Animal	7,899		2,790	1,518		24	79%		2	30.0%	11.24699055	•
Balloons	38,979		6,103	2,238		8	65%		2	30.0%	0.094513783	
Other	41,515		17,834	9,067	11,926	24	79%		2	30.0%	0.963637303	
Vegetation	38,979		6,103	2,238	3,300	8			3	50.0%	195.6897363	
Vehicle	41,515	•	17,834	9,067	11,926	24	79%		2	30.0%	1.262981278	
SubTotal	41,313	3,413	17,834	3,007	11,920	24	7370		2	30.076	1.202301270	7 15,076
SubTotal												
Equipment/Facility Failure												
Cap Bank	125	5	4	2	2	1.92	34%	•	2	30.0%	0.023521522	\$ 292
Conductor and Conductor Splic	e 38,979	3,416	6,103	2,238	3,300	8.25	65%	•	2	30.0%	5.323732646	\$ 66,088
Crossarm	19,746	3,521	6,975	3,795	5,620	23.52	79%	•	2	30.0%	0.503170336	\$ 6,246
Fuse	3,041	559	1,070	517	938	24.62	80%	•	2	30.0%	0.311727507	\$ 3,870
Guy/Span Wire	5,924	1,056	2,093	1,139	1,686	23.52	79%	•	2	30.0%	0.025951208	\$ 322
Insulator	41,515	9,419	17,834	9,067	11,926	23.67	79%	•	2	30.0%	14.5141231	\$ 180,175
Lightning Arrestor	5,980	1,137	2,710	1,583	3,588	43.41	85%	•	2	30.0%	2.259702093	\$ 28,051
Pole	41,515	9,419	17,834	9,067	11,926	23.67	79%	•	2	30.0%	7.710096467	\$ 95,712
Recloser												
Sectionalizer												
Switch	68	27	8	2	-	1.61	23%	1	2	30.0%	0.415652526	\$ 5,160
Transformer	5,980	1,137	2,710	1,583	3,588	43.41	85%	1	2	30.0%	0.675598615	\$ 8,387
Voltage Regulator	68	27	8	2	-	1.61	23%		2	30.0%	0	\$ -
Other	41,515	9,419	17,834	9,067	11,926	23.67	79%	1	2	30.0%	2.408911391	\$ 29,904
SubTotal												
Other Utility Caused issues (oth	or 8%)											
Contact with 3rd Party	lei 670)											
Contamination	41,515	9,419	17,834	9,067	11,926	23.67	79%		2	30.0%	0.580532466	\$ 7,207
Unknown	2,023	2,378	3,883	1,476	685	25.31	75%		2	30.0%	233.9929858	
Vandalism/Theft	7,899		2,790	1,470	2,248	23.51	79%		2	30.0%	1.132694958	
Wire-Wire Contact	132	•	317	1,318	2,248	24.83	77%		2	30.0%	0.064898866	, , , , , , , , , , , , , , , , , , , ,
Subtotal	132	111	317	1/3	14	24.03	7776	•	_	30.070	0.004030000	000
Total Expected Consequence												\$ 5,948,707
Total Expected Consequence												5 5,348,707

Benefit (95th Percentile)

\$62,369,349 25,617,786 \$

Design/Construct new PP-4 protection schemes Yes

	Assets in WFR		Percent of		Pe	rcent	Expected Acres	New Expected					
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Eff	ective	Burned	Consequence	
Animal	7,899	1,408	2,790	1,518	2,248	24	79%	•	2	30.0%	11.24699055	\$	139,618
Balloons	38,979	3,416	6,103	2,238	3,300	8	65%	1	2	30.0%	0.094513783	\$	1,173
Other	41,515	9,419	17,834	9,067	11,926	24	79%	1	2	30.0%	0.963637303	\$	11,962
Vegetation	38,979	3,416	6,103	2,238	3,300	8	65%	•	3	50.0%	195.6897363	\$ 2	,429,253
Vehicle	41,515	9,419	17,834	9,067	11,926	24	79%	1	2	30.0%	1.262981278	\$	15,678
SubTotal													
Equipment/Facility Failure													
Cap Bank	125	5	4	2	2	1.92	34%	•	2	30.0%	0.023521522	\$	292
Conductor and Conductor Splic	e 38,979	3,416	6,103	2,238	3,300	8.25	65%	•	2	30.0%	5.323732646	\$	66,088
Crossarm	19,746	3,521	6,975	3,795	5,620	23.52	79%	•	2	30.0%	0.503170336	\$	6,246
Fuse	3,041	559	1,070	517	938	24.62	80%	•	2	30.0%	0.311727507	\$	3,870
Guy/Span Wire	5,924	1,056	2,093	1,139	1,686	23.52	79%	1	2	30.0%	0.025951208	\$	322
Insulator	41,515	9,419	17,834	9,067	11,926	23.67	79%	•	2	30.0%	14.5141231	\$	180,175
Lightning Arrestor	5,980	1,137	2,710	1,583	3,588	43.41	85%	1	2	30.0%	2.259702093	\$	28,051
Pole	41,515	9,419	17,834	9,067	11,926	23.67	79%	•	2	30.0%	7.710096467	\$	95,712
Recloser													
Sectionalizer													
Switch	68	27	8	2	-	1.61	23%	1	2	30.0%	0.415652526	\$	5,160
Transformer	5,980	1,137	2,710	1,583	3,588	43.41	85%		2	30.0%	0.675598615	\$	8,387
Voltage Regulator	68	27	8	2	-	1.61	23%	•	2	30.0%	0	\$	-
Other	41,515	9,419	17,834	9,067	11,926	23.67	79%	1	2	30.0%	2.408911391	\$	29,904
SubTotal													
Other Utility Caused issues (oth	er 8%)												
Contact with 3rd Party													
Contamination	41,515	9,419	17,834	9,067	11,926	23.67	79%	i	2	30.0%	0.580532466	\$	7,207
Unknown	2,023	2,378	3,883	1,476	685	25.31	75%	i	2	30.0%	233.9929858	\$ 2	,904,742
Vandalism/Theft	7,899	1,408	2,790	1,518	2,248	23.52	79%	i	2	30.0%	1.132694958	\$	14,061
Wire-Wire Contact	132	111	317	173	14	24.83	77%	i	2	30.0%	0.064898866	\$	806
Subtotal													
Total Expected Consequence												\$ 5	,948,707
												¢c	2 260 240

Benefit (95th Percentile)

\$62,369,349 25,617,786 \$

25,617,786

\$

PP-5 Dist. Sub Relay Upgrade Yes

Benefit (95th Percentile)

	Assets in WFR		Percent of		Percent	Expected Acres	New Expected	ı				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence	
Animal	7,899	1,408	2,790	1,518	2,248	24	79%		2 30.0	% 11.2469905	5 \$	139,618
Balloons	38,979	3,416	6,103	2,238	3,300	8	65%		2 30.0	% 0.09451378	3 \$	1,173
Other	41,515	9,419	17,834	9,067	11,926	24	79%		2 30.0	% 0.96363730	3 \$	11,962
Vegetation	38,979	3,416	6,103	2,238	3,300	8	65%		3 50.0	% 195.689736	3 \$	2,429,253
Vehicle	41,515	9,419	17,834	9,067	11,926	24	79%		2 30.0	% 1.26298127	8 \$	15,678
SubTotal												
Equipment/Facility Failure												
Cap Bank	125	5	4	2	2	1.92	34%	,	2 30.0	% 0.02352152	2 \$	292
Conductor and Conductor Splic				2,238	3,300	8.25	65%		2 30.0			66,088
Crossarm	19,746			3,795	5,620	23.52	79%		2 30.0		•	6,246
Fuse	3,041		,	517	938	24.62	80%		2 30.0			3,870
Guy/Span Wire	5,924		,	1,139	1,686	23.52	79%		2 30.0			322
Insulator	41,515			9,067	11,926	23.67	79%		2 30.0		•	180,175
Lightning Arrestor	5,980			1,583	3,588	43.41	85%		2 30.0			28,051
Pole	41,515			9,067	11,926	23.67	79%		2 30.0			95,712
Recloser	,	-,	,	-,	,-							,
Sectionalizer												
Switch	68	27	8	2	_	1.61	23%		2 30.0	% 0.41565252	6 \$	5,160
Transformer	5,980			1,583	3,588	43.41	85%		2 30.0			8,387
Voltage Regulator	68			. 2	-	1.61	23%		2 30.0		0 \$	· -
Other	41,515	9,419	17,834	9,067	11,926	23.67	79%		2 30.0		1 \$	29,904
SubTotal	,	-, -	,	-,	,							-,
Other Utility Caused issues (oth	ner 8%)											
Contact with 3rd Party	101 070)											
Contamination	41,515	9,419	17,834	9,067	11,926	23.67	79%		2 30.0	% 0.58053246	6 S	7,207
Unknown	2,023			1,476		25.31	75%		2 30.0			2,904,742
Vandalism/Theft	7,899			1,518	2,248	23.52	79%		2 30.0		•	14,061
Wire-Wire Contact	132			1,318	2,248	24.83	77%		2 30.0			806
Subtotal	132	111	517	1/3	14	24.03	7776	,	_ 30.0	0.00-03000	· ·	550
Total Expected Consequence											\$	5,948,707
												52,369,349
- 6: (:1)												



	Assets in WFF	Assets in WFR	Assets in WFR	Assets in WFR	Assets in WFR		Percent of		Percent	Expected Acres	New Expected
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence
Animal						-	0%			0.0% 14.7610996	
Balloons						-	0%			0.0% 0.11721909	
Other						-	0%			0.0% 1.26264284	
Vegetation						-	0%			0.0% 288.982960	
Vehicle	451,25	3 68,256	19,385	9,855	12,963	30	100%		2 3	0.0% 1.15840885	9 \$ 14,380
SubTotal											
Equipment/Facility Failure											
Cap Bank						_	0%			0.0% 0.02616478	35 \$ 325
Conductor and Conductor Splic	re					_	0%			0.0% 6.6026679	•
Crossarm						_	0%			0.0% 0.66038532	•
Fuse						_	0%			0.0% 0.40980550	
Guy/Span Wire						_	0%			0.0% 0.03405963	
Insulator						_	0%			0.0% 19.0176880	•
Lightning Arrestor						_	0%			0.0% 3.0314676	
Pole						_	0%			0.0% 10.1024504	
Recloser											•
Sectionalizer											
Switch						-	0%			0.0% 0.44649908	3 \$ 5,543
Transformer						-	0%			0.0% 0.90633864	
Voltage Regulator						-	0%			0.0%	0 \$ -
Other	451,25	3 68,256	19,385	9,855	12,963	29.98	100%		2 3	0.0% 2.20945816	5 \$ 27,428
SubTotal											
Other Utility Caused issues (oth	ner 8%)										
Contact with 3rd Party											
Contamination							0%			0.0% 0.76066499	
Unknown	21,98	17,232	4,221	1,604	745	33.84	100%			0.0% 211.187376	
Vandalism/Theft						-	0%			0.0% 1.48660417	
Wire-Wire Contact Subtotal						-	0%			0.08431618	6 \$ 1,047
Total Expected Consequence											\$ 6,992,051
, , , , , , , , , , , , , , , , , , , ,											\$77,278,005

Benefit (95th Percentile)

\$77,278,005 \$10,709,130



				Assets in WFR			Percent of		Percent	Expected Acres	New Expected
,	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence
Animal						-	0%		0.0		
Balloons						-	0%		0.0		
Other						-	0%		0.0		
Vegetation			6,634	2,433	3,587	8	67%		3 50.0		
Vehicle						-	0%		0.0	4 1.654869799	\$ 20,543
SubTotal											
Equipment/Facility Failure											
Cap Bank						-	0%		0.0	6 0.026164785	\$ 325
Conductor and Conductor Splice	e					-	0%		0.0	6.60266794	\$ 81,964
Crossarm						-	0%		0.0	6 0.660385321	\$ 8,198
Fuse						-	0%		0.0	6 0.409805505	\$ 5,087
Guy/Span Wire						-	0%		0.0	6 0.034059633	\$ 423
Insulator						-	0%		0.0	6 19.01768807	\$ 236,082
Lightning Arrestor						-	0%		0.0	6 3.03146762	
Pole						-	0%		0.0	6 10.10245046	\$ 125,410
Recloser											
Sectionalizer											
Switch						-	0%		0.0	6 0.446499083	\$ 5,543
Transformer						-	0%		0.0	6 0.906338642	\$ 11,251
Voltage Regulator						-	0%		0.0	6 C	\$ -
Other						-	0%		0.0	6 3.156368807	\$ 39,183
SubTotal											,
Other Utility Caused issues (oth	er 8%)										
Contact with 3rd Party	0,0,										
Contamination						_	0%		0.0	6 0.760664994	\$ 9,443
Unknown						_	0%		0.0		·
Vandalism/Theft						_	0%		0.0		
Wire-Wire Contact						_	0%		0.0		·
Subtotal							070		0.0	0.00-310100	7 1,047
Total Expected Consequence											\$ 6,940,262
. Sta. Expected consequence											\$68,363,558
Benefit (95th Percentile)											\$ 19,623,577

25,617,786

PP-8 Recloser Communications Yes

	Assets in WFR		Percent of		Percent	Expecte	ed Acres	New Expect	ed				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned		Consequen	
Animal	7,899	1,408	2,790	1,518	2,248	24	79%	,)	2	30.0%	11.24699055	•	139,618
Balloons	38,979	3,416	6,103	2,238	3,300	8	65%	,)	2	30.0%	0.094513783	3 \$	1,173
Other	41,515	9,419	17,834	9,067	11,926	24	79%	,)	2	30.0%	0.963637303	3 \$	11,962
Vegetation	38,979	3,416	6,103	2,238	3,300	8	65%	,)	3	50.0%	195.6897363	3 \$	2,429,253
Vehicle	41,515	9,419	17,834	9,067	11,926	24	79%)	2	30.0%	1.262981278	3 \$	15,678
SubTotal													
Equipment/Facility Failure													
Cap Bank	125	5	4	2	2	1.92	34%	,)	2	30.0%	0.023521522	2 \$	292
Conductor and Conductor Splic	€ 38,979	3,416	6,103	2,238	3,300	8.25	65%		2	30.0%	5.323732646	5 \$	66,088
Crossarm	19,746	3,521	6,975	3,795	5,620	23.52	79%	,)	2	30.0%	0.503170336	5 \$	6,240
Fuse	3,041	559	1,070	517	938	24.62	80%)	2	30.0%	0.311727507	7 \$	3,870
Guy/Span Wire	5,924	1,056	2,093	1,139	1,686	23.52	79%	,)	2	30.0%	0.025951208	3 \$	322
Insulator	41,515	9,419	17,834	9,067	11,926	23.67	79%	,)	2	30.0%	14.5141231	1 \$	180,175
Lightning Arrestor	5,980	1,137	2,710	1,583	3,588	43.41	85%	,)	2	30.0%	2.259702093	3 \$	28,053
Pole	41,515	9,419	17,834	9,067	11,926	23.67	79%	ò	2	30.0%	7.710096467	7 \$	95,712
Recloser													
Sectionalizer													
Switch	68	27	8	2	-	1.61	23%	ò	2	30.0%	0.415652526	5 \$	5,160
Transformer	5,980	1,137	2,710	1,583	3,588	43.41	85%		2	30.0%	0.675598615		8,387
Voltage Regulator	68	27	8	2	-	1.61	23%		2	30.0%	(\$	-
Other	41,515	9,419	17,834	9,067	11,926	23.67	79%		2	30.0%	2.408911391	l \$	29,904
SubTotal													
Other Utility Caused issues (otl	ner 8%)												
Contact with 3rd Party													
Contamination	41,515	9,419	17,834	9,067	11,926	23.67	79%	D	2	30.0%	0.580532466	5 \$	7,20
Unknown	2,023	2,378	3,883	1,476	685	25.31	75%	D	2	30.0%	233.9929858	3 \$	2,904,742
Vandalism/Theft	7,899	1,408	2,790	1,518	2,248	23.52	79%		2	30.0%	1.132694958	3 \$	14,06
Wire-Wire Contact	132	111	317	173	14	24.83	77%		2	30.0%	0.064898866	5 \$	80
Subtotal													
Total Expected Consequence												\$	5,948,70
													\$62,369,34
- 6: (:1 - :11)												_	

Benefit (95th Percentile) \$ PP-9 FLISR Yes

	Assets in WFR		Percent of		Percent	Exped	ted Acres	New Expected					
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burne	ed	Consequence	
Animal						-	0%			0.0%	14.76109964	\$	183,241
Balloons						-	0%			0.0%	0.117219095	\$	1,455
Other						-	0%			0.0%	1.262642842	\$	15,674
Vegetation	423,690	24,757	6,634	2,433	3,587	13	100%		3 5	0.0%	144.4914801	\$ 1	1,793,688
Vehicle						-	0%			0.0%	1.654869799	\$	20,543
SubTotal													
Equipment/Facility Failure													
Cap Bank						-	0%			0.0%	0.026164785	\$	325
Conductor and Conductor Splic	ce					-	0%			0.0%	6.60266794		81,964
Crossarm						-	0%			0.0%	0.660385321	\$	8,198
Fuse						-	0%			0.0%	0.409805505	\$	5,087
Guy/Span Wire						-	0%			0.0%	0.034059633	\$	423
Insulator						-	0%			0.0%	19.01768807	\$	236,082
Lightning Arrestor						-	0%			0.0%	3.03146762	\$	37,632
Pole						-	0%			0.0%	10.10245046	\$	125,410
Recloser													
Sectionalizer													
Switch						-	0%			0.0%	0.446499083	\$	5,543
Transformer						-	0%			0.0%	0.906338642	\$	11,251
Voltage Regulator						-	0%			0.0%	0	\$	-
Other						-	0%			0.0%	3.156368807	\$	39,183
SubTotal													
Other Utility Caused issues (oth	her 8%)												
Contact with 3rd Party	,												
Contamination						_	0%			0.0%	0.760664994	Ś	9,443
Unknown						_	0%			0.0%	301.6962519	•	3,745,197
Vandalism/Theft						_	0%			0.0%	1.486604177		18,454
Wire-Wire Contact						-	0%			0.0%	0.084316186	•	1,047
Subtotal													,
Total Expected Consequence												\$ 6	5,339,840
•												\$5	9,928,471
Benefit (95th Percentile)												\$ 28	3,058,664



				Assets in WFR			Percent of		Percent	Expected Acres	New Expected	
Object Contact - Object Type	1	2	3	4	5	weighting		Effectiveness	Effective	Burned	Consequence	
Animal						-	0%		0.0			183,241
Balloons						-	0%		0.0			1,455
Other						-	0%		0.0		•	15,674
Vegetation			6,634	2,433	3,587	8	67%	2	4 70.0			,916,804
Vehicle						-	0%		0.0	% 1.654869799	9 \$	20,543
SubTotal												
Equipment/Facility Failure												
Cap Bank						-	0%		0.0	% 0.02616478	5 \$	325
Conductor and Conductor Splic	e		6,634	2,433	3,587	8.50	67%	4	4 70.0	% 3.52793098	9 \$	43,795
Crossarm						-	0%		0.0	% 0.66038532	1 \$	8,198
Fuse						-	0%		0.0	% 0.40980550	5 \$	5,087
Guy/Span Wire						-	0%		0.0	% 0.03405963	3 \$	423
Insulator						-	0%		0.0	% 19.0176880	7 \$	236,082
Lightning Arrestor						-	0%		0.0	% 3.0314676	2 \$	37,632
Pole						-	0%		0.0	% 10.1024504	5 \$	125,410
Recloser												
Sectionalizer												
Switch						-	0%		0.0	% 0.44649908	3 \$	5,543
Transformer						-	0%		0.0	% 0.90633864	2 \$	11,251
Voltage Regulator						-	0%		0.0	%) \$	-
Other						-	0%		0.0	% 3.15636880	7 \$	39,183
SubTotal												
Other Utility Caused issues (oth	or 99/)											
Contact with 3rd Party	161 670)											
Contamination						_	0%		0.0	% 0.76066499	1 ¢	9,443
Unknown						-	0%		0.0			,745,197
Vandalism/Theft						-	0%		0.0			,743,197 18,454
Wire-Wire Contact						-	0%		0.0			18,454
Subtotal						-	0%		0.0	/0 U.U0431010	<i>پ</i>	1,047
Total Expected Consequence											\$ 6	,424,786
Total Expected Collsequence												0,039,181
Benefit (95th Percentile)												,947,954



		Assets in WFR					Percent of		Percent	Expected Acres		New Expected
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned		Consequence
Animal						-	0%			0.0% 14.761		
Balloons						-	0%			0.0% 0.1172		•
Other						-	0%			0.0% 1.2626		
Vegetation			84	13		1 (70.0% 288.69		
Vehicle						-	0%	b		0.0% 1.6548	69799	\$ -
SubTotal												
Equipment/Facility Failure												
Cap Bank							0%	, 0		0.0% 0.0261	64785	\$ 325
Conductor and Conductor Splid	ce					-	0%	6		0.0% 6.602	66794	\$ 81,964
Crossarm						-	0%	6		0.0% 0.6603	85321	\$ 8,198
Fuse						-	0%	, 0		0.0% 0.4098	05505	\$ 5,087
Guy/Span Wire						-	0%	6		0.0% 0.0340	59633	\$ 423
Insulator						-	0%	6		0.0% 19.017	68807	\$ 236,082
Lightning Arrestor						-	0%	, 0		0.0% 3.031	46762	\$ 37,632
Pole						-	0%	, 0		0.0% 10.102	45046	\$ 125,410
Recloser												
Sectionalizer												
Switch						-	0%	, 0		0.0% 0.4464	99083	\$ 5,543
Transformer						-	0%	ć		0.0% 0.9063	38642	\$ 11,251
Voltage Regulator						-	0%	, 0		0.0%	0	\$ -
Other						-	0%	, 0		0.0% 3.1563	68807	\$ 39,183
SubTotal												
Other Utility Caused issues (ot	ner 8%)											
Contact with 3rd Party							00	,				
Contamination						-	0%			0.0% 0.7606		
Unknown						-	0%			0.0% 301.69		•
Vandalism/Theft							0%			0.0% 1.4866		•
Wire-Wire Contact			84	13		1 3.01	9%	, D	5	0.0772	44614	\$ 959
Subtotal												ć 4.14F.207
Total Expected Consequence												\$ 4,145,287
Donafit (00th Donamtile)												\$4,919,570
Benefit (90th Percentile)												\$ 83,067,565



			Assets in WFR	Assets in WFR			Percent of		Percent	Expected A	cres	New Expected	
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned		Consequence	
Animal						-	0%				4.76109964		-
Balloons						-	0%				.117219095		-
Other						-	0%				.262642842	•	-
Vegetation			5,454	2,119	3,568	8					22.6279659	\$:	1,522,279
Vehicle						-	0%		(.0% 1	.654869799	\$	-
SubTotal													
Equipment/Facility Failure													
Cap Bank						-	0%			.0% 0	.026164785	\$	325
Conductor and Conductor Splice	ce					-	0%				6.60266794		81,964
Crossarm						-	0%				.660385321	\$	8,198
Fuse						-	0%				.409805505	•	5,087
Guy/Span Wire						-	0%				.034059633		423
Insulator						-	0%		(.0% 1	9.01768807	\$	236,082
Lightning Arrestor						-	0%		(.0%	3.03146762	\$	37,632
Pole			15,164	8,251	12,218	22.99	77%		3 50	.0% 6	.228763677	\$	77,323
Recloser													
Sectionalizer													
Switch						-	0%		(.0% 0	.446499083	\$	5,543
Transformer						-	0%		(.0% 0	.906338642	\$	11,251
Voltage Regulator						-	0%			.0%	0	\$	-
Other						-	0%		(.0% 3	.156368807	\$	39,183
SubTotal													
Other Utility Caused issues (ot	her 8%)												
Contact with 3rd Party													
Contamination						_	0%			.0% 0	.760664994	\$	9,443
Unknown						_	0%				01.6962519		-
Vandalism/Theft						_	0%				.486604177		_
Wire-Wire Contact						_	0%				.084316186	•	1,047
Subtotal							070		·			Ŧ	±,0 .7
Total Expected Consequence												\$	2,035,778
													4,297,875
Benefit (90th Percentile)													3,689,261



	Assets in WFR		Percent of		Percent	Expected Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence
Animal						-	0%		(0.0% 14.761099	54 \$ -
Balloons						-	0%		(0.0% 0.11721909	95 \$ -
Other						-	0%		(1.2626428	- 12 \$
Vegetation			6,634	2,433	3,587	8	67%		2 30	0.0% 231.30844	9 \$ 2,871,417
Vehicle						-	0%		(1.6548697	9 \$ -
SubTotal											
Equipment/Facility Failure											
Cap Bank						-	0%		(0.0261647	325
Conductor and Conductor Splic	ce					-	0%		(0.0% 6.6026679	
Crossarm						-	0%			0.6603853	
Fuse						-	0%		(0.4098055	
Guy/Span Wire						-	0%		(0.0340596	33 \$ 423
Insulator			19,385	9,855	12,963	25.15	84%		2 30	0.0% 14.231332	176,665
Lightning Arrestor						-	0%		(0.0% 3.031467	52 \$ 37,632
Pole						-	0%		(0.0% 10.1024504	16 \$ 125,410
Recloser											
Sectionalizer											
Switch						-	0%		(0.0% 0.4464990	33 \$ 5,543
Transformer						-	0%		(0.9063386	12 \$ 11,251
Voltage Regulator						-	0%		(0.0%	0 \$ -
Other						-	0%		(0.0% 3.15636880	7 \$ 39,183
SubTotal											
Other Utility Caused issues (oth	ner 8%)										
Contact with 3rd Party	161 670)										
Contamination						_	0%		,	0.7606649	9,443
Unknown						-	0%			0.0% 0.7000043	
Vandalism/Theft						-	0%			0.0% 0.09023	·
Wire-Wire Contact			345	188	15	26.16	81%			0.063859	•
Subtotal			343	100	15	20.10	01%		۷ 3۱	J.U/0 U.U03639	795 ډ د
Total Expected Consequence											\$ 3,373,332

Benefit (90th Percentile)

\$4,077,988 83,909,147 \$

83,374,381

\$





	Assets in WFR		Percent of		Percent	Expected Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence
Animal			394	215	318	3	11%		4 70	.0% 13.6266216	8 \$ -
Balloons						-	0%		(.0% 0.11721909	5 \$ -
Other						-	0%		(.0% 1.26264284	2 \$ -
Vegetation			862	316	466	1	9%		4 70	.0% 271.48835	7 \$ 3,370,202
Vehicle						-	0%		(.0% 1.65486979	9 \$ -
SubTotal											
Fauliana ant /Faulite - Failuna											
Equipment/Facility Failure			1	0	0	0.22	40/		4 70	00/ 0.0354604	T ¢ 316
Cap Bank			1	0			4%			.0% 0.0254694	•
Conductor and Conductor Splic	e		862	316	466	1.10				.0% 6.08874762	
Crossarm			986		794	3.25	11%			.0% 0.59512950	
Fuse			151	73	133	3.41	11%			.0% 0.37811871	
Guy/Span Wire			296		238	3.25	11%			.0% 0.03069403	
Insulator			2,520	1,281	1,685	3.27	11%			.0% 17.1510092	
Lightning Arrestor			383	224	507	6.07	12%			.0% 2.70793211	·
Pole			2,520	1,281	1,685	3.27	11%		5 90	.0% 9.11084570	2 \$ 113,100
Recloser											
Sectionalizer											
Switch			1	0	-	0.13	2%			.0% 0.4406896	
Transformer			383	224	507	6.07	12%			.0% 0.83110448	·
Voltage Regulator			1	0	-	0.13	2%				0 \$ -
Other							0%		(.0% 3.15636880	7 \$ 39,183
SubTotal											
Other Utility Caused issues (oth	ner 8%)										
Contact with 3rd Party	101 070)										
Contamination			2,520	1,281	1,685	3.27	11%		5 90	.0% 0.68600201	7 \$ 8,516
Unknown			549	209	97	3.45	10%			.0% 280.192421	
Vandalism/Theft			349	209	37	3.43	0%	•		.0% 280.192421	
Wire-Wire Contact							0%			.0% 1.48660417	•
Subtotal							U%		(.0/0 0.06451016	7,047 ډ ن
Total Expected Consequence											\$ 3,882,724
											\$4,612,754

Benefit (90th Percentile)



			Assets in WFR				Percent of		Percent	Expected Acres	New Expected	
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence	
Animal			129	15	5	0	0%		4 70.			-
Balloons						-	0%			0.11721909		-
Other						-	0%		0.			-
Vegetation			636	37	10	0	1%		4 70.			65,058
Vehicle						-	0%		0.	0% 1.65486979	9 \$	-
SubTotal												
Equipment/Facility Failure												
Cap Bank			2	0	0	0.09	2%		4 70.	0.02586397	8 \$	321
Conductor and Conductor Splic	ce		636	37	10	0.11	1%		5 90.	0% 6.54985352	1 \$ 8	81,309
Crossarm			322	38	11	0.14	0%		5 90.			8,163
Fuse			50	6	2	0.14	0%		4 70.			5,071
Guy/Span Wire			97	11	3	0.14	0%		5 90.			421
Insulator			677	102	29	0.15	1%		5 90.			35,010
Lightning Arrestor			98	12	4	0.15	0%		5 90.		•	37,536
Pole			677	102	29	0.15	1%		5 90.			24,841
Recloser												,-
Sectionalizer												
Switch			1	0	0	0.15	2%	,	4 70.	0.4399860	3 \$	5,462
Transformer			98	12	4	0.15	0%		4 70.			11,229
Voltage Regulator			1	0	0	0.15	2%		3 50.		0 \$	-
Other							0%		0.	0% 3.15636880	7 \$ 3	39,183
SubTotal												,
Other Utility Caused issues (oth	nor 99/)											
Contact with 3rd Party	161 670)											
Contamination			677	102	20	0.15	1%		5 90.	0.75721206	7 ¢	0.400
Unknown				26	29	0.13	1%					9,400
			33	26	6	0.28						-
Vandalism/Theft							0%		0.			1 047
Wire-Wire Contact Subtotal							0%		0.	0.08431618	υ >	1,047
Total Expected Consequence											\$ 4,12	24,049
Total Expected Consequence												908,085
Benefit (90th Percentile)												79,050

0.15%



	Assets in WFR		Percent of	Percent	Expected Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk Effective	veness Effective	Burned	Consequence
Animal						-	0%		0.0% 14.7610996	
Balloons						-	0%		0.0% 0.11721909	- 5
Other						-	0%		0.0% 1.26264284	- 2 \$
Vegetation			5,454	2,119	3,568	8	64%	4	70.0% 159.595742	4 \$ 1,415,135
Vehicle						-	0%		0.0% 1.65486979	9 \$ -
SubTotal										
Equipment/Facility Failure										
Cap Bank						-	0%		0.0% 0.02616478	5 \$ 232
Conductor and Conductor Splic	e					-	0%		0.0% 6.6026679	4 \$ 58,546
Crossarm						-	0%		0.0% 0.66038532	1 \$ 5,856
Fuse						-	0%		0.0% 0.40980550	5 \$ 3,634
Guy/Span Wire						-	0%		0.0% 0.03405963	3 \$ 302
Insulator						-	0%		0.0% 19.0176880	7 \$ 168,630
Lightning Arrestor						-	0%		0.0% 3.0314676	26,880
Pole						-	0%		0.0% 10.1024504	6 \$ 89,578
Recloser										
Sectionalizer										
Switch						-	0%		0.0% 0.44649908	3,959
Transformer						-	0%		0.0% 0.90633864	2 \$ 8,037
Voltage Regulator						-	0%		0.0%	0 \$ -
Other						-	0%		0.0% 3.15636880	7 \$ 27,988
SubTotal										
Other Utility Caused issues (oth	ner 8%)									
Contact with 3rd Party										
Contamination						-	0%		0.0% 0.76066499	4 \$ 6,745
Unknown						-	0%		0.0% 301.696251	.9 \$ -
Vandalism/Theft						-	0%		0.0% 1.48660417	
Wire-Wire Contact						-	0%		0.0% 0.08431618	6 \$ 748
Subtotal										
Total Expected Consequence										\$ 1,816,269
										\$3,741,241
Benefit (95th Percentile)										\$ 84,245,894



	Assets in WFR		Percent of		Percent	Expected Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence
Animal						-	0	%	0.0	% 14.76109964	
Balloons						-	0	%	0.0	% 0.117219095	; \$ -
Other						-	0	%	0.0	% 1.262642842	. \$ -
Vegetation			345	188	15		1	%	4 70.0	% 286.4742892	2,540,168
Vehicle						-	0	%	0.0	% 1.654869799	- \$
SubTotal											
Equipment/Facility Failure											
Cap Bank						_	0	%	0.0	% 0.026164785	5 \$ 232
Conductor and Conductor Splic	e					_	0		0.0		
Crossarm	C					_	0		0.0		
Fuse						_	0		0.0		
Guy/Span Wire						_	0		0.0		
Insulator						_	0		0.0		
Lightning Arrestor						_	0		0.0		
Pole						_	0		0.0		
Recloser											
Sectionalizer											
Switch						_	0	%	0.0	% 0.446499083	3,959
Transformer						_	0	%	0.0	% 0.906338642	
Voltage Regulator						-	0	%	0.0) \$ -
Other						-	0	%	0.0		27,988
SubTotal											,
Other Utility Caused issues (oth	or 99/\										
Contact with 3rd Party	iei 6/0j										
Contamination						_	0	V_	0.0	% 0.760664994	\$ 6,745
Unknown						-	0		0.0		
Vandalism/Theft						-	0		0.0		
Wire-Wire Contact						-	0		0.0		•
Subtotal						-	U	, u	0.0	70 0.004310100	740
Total Expected Consequence											\$ 2,941,301
Total Expected Consequence											\$3,878,441
Benefit (95th Percentile)											\$ 84,108,694

Pole Brushing
(10' radius on base of equipment pole)

Yes

	Assets in WFR		Percent of		Percent	Expected	Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned		Consequence
Animal						-	0%		C	.0%	14.76109964	\$ -
Balloons						-	0%		C	.0%	0.117219095	\$ -
Other						-	0%		C	.0%	1.262642842	\$ -
Vegetation						-	0%		C	.0%	288.9829602	\$ 2,562,412
Vehicle						-	0%		C	.0%	1.654869799	\$ -
SubTotal												
Equipment/Facility Failure												
Cap Bank			4	2	2	1.67	29%	4	1 70	.0%	0.020816058	\$ 185
Conductor and Conductor Splice	ce					-	0%		C	.0%	6.60266794	\$ 58,546
Crossarm						-	0%		C	.0%	0.660385321	\$ 5,856
Fuse			1,163	562	1,020	26.22	85%	4	1 70	.0%	0.166060964	\$ 1,472
Guy/Span Wire						-	0%		C	.0%	0.034059633	\$ 302
Insulator			6,106	3,104	4,083	7.92	26%	4	1 70	.0%	15.49971652	\$ 137,436
Lightning Arrestor						-	0%		C	.0%	3.03146762	\$ 26,880
Pole						-	0%		C	.0%	10.10245046	\$ 89,578
Recloser												
Sectionalizer												
Switch						-	0%		C	.0%	0.446499083	\$ 3,959
Transformer						-	0%		C	.0%	0.906338642	\$ 8,037
Voltage Regulator			9	2	-	1.00	14%	2	1 70	.0%	0	\$ -
Other							0%		C	.0%	3.156368807	\$ 27,988
SubTotal												
Other Utility Caused issues (ot	her 8%)											
Contact with 3rd Party												
Contamination							0%				0.760664994	
Unknown							0%			.0%	301.6962519	•
Vandalism/Theft							0%				1.486604177	
Wire-Wire Contact							0%		C	.0%	0.084316186	\$ 748
Subtotal												
Total Expected Consequence												\$ 2,930,142
												\$3,343,862
Benefit (95th Percentile)												\$ 84,643,273

VM-2b Pole Brushing
(10' radius on base of transformer poles) Yes

Object Contact - Object Type	Assets in WFR	Assets in WFR 2	Assets in WFR	Assets in WFR	Assets in WF	R weighting	Percent of total risk	Effectiveness	Percent Effective	Expe Burn	ected Acres	New Expected Consequence	
Animal	-	-	3	•	,	- weighting	0%			0.0%	14.76109964	•	_
Balloons						_	0%			0.0%	0.117219095	•	_
Other						_	0%			0.0%	1.262642842	•	_
Vegetation						_	0%			0.0%	288.9829602	•	412
Vehicle						_	0%			0.0%	1.654869799		-
SubTotal							0,	•		0.070	2.00 .003,33	¥	
Equipment/Facility Failure													
Cap Bank						_	0%	,)		0.0%	0.026164785	\$ 2	232
Conductor and Conductor Splic	e					_	0%			0.0%	6.60266794		546
Crossarm						_	0%			0.0%	0.660385321		856
Fuse						_	0%			0.0%	0.409805505		634
Guy/Span Wire						_	0%			0.0%	0.034059633		302
Insulator						-	0%			0.0%	19.01768807		630
Lightning Arrestor						-	0%	,		0.0%	3.03146762	\$ 26,8	880
Pole						-	0%	,		0.0%	10.10245046		
Recloser													
Sectionalizer													
Switch						-	0%	,		0.0%	0.446499083	\$ 3,9	959
Transformer			2,946	1,721	3,90	00 46.66	91%	,	4 7	0.0%	0.327614388	\$ 2,9	905
Voltage Regulator						-	0%	,		0.0%	0	\$ -	-
Other							0%	,		0.0%	3.156368807	\$ 27,9	988
SubTotal													
Other Utility Caused issues (oth	ner 8%)												
Contact with 3rd Party													
Contamination							0%			0.0%	0.760664994		745
Unknown							0%			0.0%	301.6962519		-
Vandalism/Theft							0%			0.0%	1.486604177	•	-
Wire-Wire Contact							0%			0.0%	0.084316186	\$ 7	748
Subtotal													
Total Expected Consequence												\$ 2,958,4	
												\$3,741,	
Benefit (95th Percentile)												\$ 84,245,8	894



Object Contact - Object Type		Assets in WFR	Assets in WFR	Assets in WFR	Assets in WFR	woighting	Percent of total risk	Effectiveness	Percent Effective	Expected Acres Burned	New Expected Consequence
Animal	1	2	3	4	3	weighting	0%			0% 14.7610996	•
Balloons						-	0%			0% 14.7610996 0% 0.11721909	•
Other						-	0%			0% 0.11721303 0% 1.26264284	•
Vegetation			315	115	170		3%			0% 1.20204284 0% 280.778903	
Vehicle			212	113	170	0.40	0%			0% 280.778903 0% 1.65486979	
SubTotal						-	0/0		0.	0/0 1.034609/9	- ډ و
SubTotal											
Equipment/Facility Failure											
Cap Bank						_	0%		0	0.02616478	5 \$ 232
Conductor and Conductor Splic	e e					_	0%			0% 6.6026679	•
Crossarm						_	0%			0% 0.66038532	
Fuse						_	0%			0% 0.40980550	
Guy/Span Wire						_	0%			0% 0.03405963	
Insulator						_	0%			0% 19.0176880	
Lightning Arrestor						_	0%			0% 3.0314676	
Pole						-	0%			0% 10.1024504	
Recloser											- +
Sectionalizer											
Switch						-	0%		0.	0.44649908	3 \$ 3,959
Transformer						-	0%		0.	0% 0.90633864	
Voltage Regulator						-	0%		0.	0%	0 \$ -
Other						-	0%		0.	0% 3.15636880	7 \$ 27,988
SubTotal											
Other Utility Caused issues (oth	ner 8%)										
Contact with 3rd Party											
Contamination						-	0%		0.	0% 0.76066499	4 \$ 6,745
Unknown						-	0%		0.	0% 301.696251	9 \$ -
Vandalism/Theft						-	0%		0.	0% 1.48660417	7 \$ -
Wire-Wire Contact						-	0%		0.	0.08431618	6 \$ 748
Subtotal											
Total Expected Consequence											\$ 2,890,800
											\$3,878,441
Benefit (95th Percentile)											\$ 84,108,694



Object Contact - Object Type	Assets in WFR	Assets in WFR 2	Assets in WFR	Assets in WFR	Assets in WFR	weighting	Percent of total risk	Effectiveness	Percent Effective	Expected Acres Burned	New Expected Consequence
Animal	1	2	3	4	3	weighting	0%		0.09		•
Balloons						_	0%		0.09		
Other						_	0%		0.09		•
Vegetation			1,049	385	567	1.3	11%		5 90.09		
Vehicle			1,043	303	307	1.5	0%		0.09		
SubTotal							070	•	0.0	1.054005755	· •
340.014.											
Equipment/Facility Failure											
Cap Bank						_	0%		2 30.09	6 0.026164785	\$ 232
Conductor and Conductor Splic	ce					-	0%		2 30.09		
Crossarm						-	0%		2 30.09		
Fuse						-	0%		2 30.09	6 0.409805505	
Guy/Span Wire						-	0%		2 30.09	6 0.034059633	
Insulator						-	0%		2 30.09	6 19.01768807	\$ 168,630
Lightning Arrestor						-	0%		2 30.09	6 3.03146762	\$ 26,880
Pole						-	0%	•	2 30.09	6 10.10245046	\$ \$ 89,578
Recloser											
Sectionalizer											
Switch						-	0%	•	2 30.09	6 0.446499083	\$ \$ 3,959
Transformer						-	0%	1	2 30.09	6 0.906338642	\$ 8,037
Voltage Regulator						-	0%	•	2 30.09	6 (
Other						-	0%	•	2 30.09	6 3.156368807	\$ 27,988
SubTotal											
Other Utility Caused issues (oth	ner 8%)										
Contact with 3rd Party											
Contamination						-	0%		2 30.09		•
Unknown						-	0%		2 30.09		
Vandalism/Theft						-	0%		2 30.09		•
Wire-Wire Contact						-	0%	•	2 30.09	6 0.084316186	5 \$ 748
Subtotal											A 0.704.000
Total Expected Consequence											\$ 2,721,060
Daniella (OEA)											\$3,878,441
Benefit (95th Percentile)											\$ 84,108,694



				Assets in WFR			Percent of		Percent	Expected Acres	New Expected
	1	2	3	4	5	weighting		Effectiveness	Effective		Consequence
Animal						-	0%	-	0.0%		•
Balloons						-	0%	-	0.0%		
Other						-	0%	-	0.0%	1.262642842	\$ -
Vegetation			6,634	2,433	3,587	8		4			\$ 1,369,145
Vehicle						-	0%	-	0.0%	1.654869799	\$ -
SubTotal											
Equipment/Facility Failure											
Cap Bank						-	0%	2	30.0%	0.026164785	\$ 232
Conductor and Conductor Splic	e					-	0%	2			
Crossarm						-	0%	2			
Fuse						-	0%	2			
Guy/Span Wire						-	0%	2			
Insulator						-	0%	2			
Lightning Arrestor						-	0%	2			
Pole						-	0%	2			
Recloser											,
Sectionalizer											
Switch						-	0%	2	30.0%	0.446499083	\$ 3,959
Transformer						-	0%	2		0.906338642	
Voltage Regulator						-	0%	2			\$ -
Other						-	0%	2			
SubTotal											, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Other Utility Caused issues (oth	or 99/\										
Contact with 3rd Party	101 070)										
Contamination						_	0%	2	30.0%	0.760664994	\$ 6,745
Unknown						-	0%	2			
Vandalism/Theft						-	0%	2			
Wire-Wire Contact						-	0%	2	30.0%	0.084316186	ş /48
Subtotal											ć 4.770.070
Total Expected Consequence											\$ 1,770,279
Donafit (OFth Donasatile)											\$3,741,241
Benefit (95th Percentile)											\$ 84,245,894



	Assets in WFR		Percent of		Percent	Ex	pected Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Вι	urned	Consequence
Animal						-	0%			0.0%	14.76109964	\$ -
Balloons						-	0%			0.0%	0.117219095	\$ -
Other						-	0%			0.0%	1.262642842	\$ -
Vegetation			42,369	2,476	663	8	59%		4	70.0%	169.1242627	\$ 1,499,625
Vehicle						-	0%			0.0%	1.654869799	\$ -
SubTotal												
Equipment/Facility Failure												
Cap Bank						-	0%			0.0%	0.026164785	\$ 232
Conductor and Conductor Splid	ce					_	0%			0.0%	6.60266794	
Crossarm			21,463	2,551	758	9.32	31%		3	50.0%	0.55654969	
Fuse			,	,		-	0%			0.0%	0.409805505	
Guy/Span Wire						-	0%			0.0%	0.034059633	
Insulator						-	0%			0.0%	19.01768807	\$ 168,630
Lightning Arrestor			6,500	824	295	9.71	19%		3	50.0%	2.743858805	·
Pole			45,125	6,826	1,939	10.08	34%		5	90.0%	7.045211534	\$ 62,470
Recloser												
Sectionalizer												
Switch						-	0%			0.0%	0.446499083	\$ 3,959
Transformer						-	0%			0.0%	0.906338642	\$ 8,037
Voltage Regulator						-	0%			0.0%	0	\$ -
Other						-	0%			0.0%	3.156368807	\$ 27,988
SubTotal												
Other Utility Caused issues (otl	her 8%)											
Contact with 3rd Party	,											
Contamination			45,125	6,826	1,939	10.08	34%		3	50.0%	0.632778825	\$ 5,611
Unknown			,	, -		-	0%			0.0%	301.6962519	
Vandalism/Theft						-	0%			0.0%	1.486604177	
Wire-Wire Contact						-	0%			0.0%	0.084316186	\$ 748
Subtotal												
Total Expected Consequence												\$ 1,869,045
•												\$3,741,241
Benefit (95th Percentile)												\$ 84,245,894



	Assets in WFR		Percent of		Percent	Expected Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence
Animal						-	0%	-	0.0	% 14.7610996	1\$ -
Balloons						-	0%	-	0.0	% 0.11721909	5 \$ -
Other						-	0%	-	0.0	% 1.26264284	2 \$ -
Vegetation			42,369	2,476	663	8	59%)	4 70.0	% 169.124262	7 \$ 1,499,6
Vehicle						-	0%	-	0.0	% 1.65486979	9 \$ -
SubTotal											
Equipment/Facility Failure											
Cap Bank			136	4	0	6.26	109%	,	2 30.0	% 0.01757030	l \$ 1
Conductor and Conductor Splice	re		42,369	2,476	663	7.57	59%		2 30.0		•
Crossarm			21,463	2,551	758	9.32	31%		5 90.0		
Fuse			3,306	405	116	9.35	30%		2 30.0		
Guy/Span Wire			6,439	765	227	9.32	31%		2 30.0		
Insulator			45,125	6,826	1,939	10.08	34%		5 90.0		
Lightning Arrestor			6,500	824	295	9.71	19%		2 30.0		
Pole			45,125	6,826	1,939	10.08	34%		2 30.0		
Recloser			.5,125	0,020	2,555	20.00	3.7			7.00007.001	00,0
Sectionalizer											
Switch			74	20	1	9.71	139%)	2 30.0	% 0.26041187	3 \$ 2,3
Transformer			6,500	824		9.71	19%		2 30.0		· ·
Voltage Regulator			74	20	1	9.71	139%	,)	2 30.0	%) \$ -
Other			45,125	6,826	1,939	10.08	34%	,)	2 30.0	% 2.83797168	1 \$ 25,1
SubTotal											
Other Utility Caused issues (ot	her 8%)										
Contact with 3rd Party	1101 070)										
Contamination			45,125	6,826	1,939	10.08	34%	,	2 30.0	% 0.68393329	3 \$ 6,0
Unknown			2,198	1,723	422	18.65	55%		2 30.0		
Vandalism/Theft			8,585	1,020	303	9.32	31%		2 30.0		
Wire-Wire Contact			317	173	14	24.06	74%		2 30.0		•
Subtotal			31,	1,3		24.00	7470	•	_ 50.0	,5 0.00545020	, ,
Total Expected Consequence											\$ 1,820,8
. I I I I I I I I I I I I I I I I I I I											\$2,889,
Benefit (95th Percentile)											\$ 85,098,1



	Assets in WFR		Percent of		Percent	Expected Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk E	ffectiveness	Effective	Burned	Consequence
Animal			32	4	1	0	0%	2	30.0%	14.75587747	\$ -
Balloons						-	0%	-	0.0%	0.117219095	\$ -
Other						-	0%	-	0.0%	1.262642842	\$ -
Vegetation			159	9	2	0	0%	2	30.0%	288.7903302	\$ 2,560,704
Vehicle						-	0%	-	0.0%	1.654869799	\$ -
SubTotal											
Equipment/Facility Failure											
Cap Bank			1	0	0	0.02	0%	2	30.0%	0.026132555	\$ 232
Conductor and Conductor Splic	ce		159				0%	2	30.0%		•
Crossarm			80				0%	2	30.0%		
Fuse			12				0%	2	30.0%		
Guy/Span Wire			24		1	0.03	0%	2	30.0%	0.034047583	
Insulator			169	26	7	0.04	0%	2	30.0%	19.01049407	\$ 168,566
Lightning Arrestor			24		1	0.04	0%	2	30.0%		
Pole			169	26	7	0.04	0%	2	30.0%	10.09862891	\$ 89,545
Recloser											
Sectionalizer											
Switch			0	0	0	0.04	1%	2	30.0%	0.445801256	\$ 3,953
Transformer			24	3	1	0.04	0%	2	30.0%	0.906145168	\$ 8,035
Voltage Regulator			0	0	0	0.04	1%	2	30.0%	0	\$ -
Other						-	0%	2	30.0%	3.156368807	\$ 27,988
SubTotal											
Other Utility Caused issues (otl	ner 8%)										
Contact with 3rd Party	,										
Contamination			169	26	7	0.04	0%	2	30.0%	0.76037725	\$ 6,742
Unknown			8	6			0%	2	30.0%	301.5091616	
Vandalism/Theft						-	0%	2	30.0%		\$ -
Wire-Wire Contact						-	0%	2	30.0%		•
Subtotal											
Total Expected Consequence											\$ 2,961,680
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											\$3,876,701

Benefit (95th Percentile)

\$3,876,701 \$84,110,434

84,195,521

\$



Benefit (95th Percentile)

	Assets in WFR		Percent of		Percent	Expected Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence
Animal			485	264	391	4	14%	. 1	. 10.0%	14.56163098	\$ -
Balloons						-	0%	-	0.0%	0.117219095	\$ -
Other						-	0%	-	0.0%	1.262642842	\$ -
Vegetation			1,061	389	574	1	11%	. 1	. 10.0%	285.906986	\$ 2,535,137
Vehicle						-	0%	-	0.0%	1.654869799	\$ -
SubTotal											
Equipment/Facility Failure											
Cap Bank			1	0	0	0.27	5%	. 1	. 10.0%	0.026042528	\$ 231
Conductor and Conductor Splic	ce		1,061	389	574	1.36	11%	1	10.0%	6.532388238	\$ 57,923
Crossarm			1,213	660	977	4.01	14%	. 1	. 10.0%	0.651461449	\$ 5,777
Fuse			186	90	163	4.19	14%	. 1	. 10.0%	0.404234201	\$ 3,584
Guy/Span Wire			364	198	293	4.01	14%	. 1	10.0%	0.033599381	\$ 298
Insulator			3,102	1,577	2,074	4.02	13%	. 1	. 10.0%	18.76241576	\$ 166,366
Lightning Arrestor			471	275	624	7.47	15%	. 1	. 10.0%	2.987223449	\$ 26,488
Pole			3,102	1,577	2,074	4.02	13%	. 1	. 10.0%	9.966846389	\$ 88,376
Recloser											
Sectionalizer											
Switch			1	0	-	0.16	2%	. 1	. 10.0%	0.445477637	\$ 3,950
Transformer			471	275	624	7.47	15%	. 1	10.0%	0.893110659	\$ 7,919
Voltage Regulator			1	0	-	0.16	2%	. 1	10.0%	C	\$ -
Other						-	0%	. 1	. 10.0%	3.156368807	\$ 27,988
SubTotal											
Other Utility Caused issues (oth	her 8%)										
Contact with 3rd Party											
Contamination			3,102	1,577	2,074	4.02	13%	. 1	. 10.0%	0.750454672	\$ 6,654
Unknown			675	257	119	4.24	13%	1	10.0%	297.9153586	\$ -
Vandalism/Theft						-	0%		0.0%	1.486604177	\$ -
Wire-Wire Contact						-	0%		0.0%	0.084316186	\$ 748
Subtotal											
Total Expected Consequence											\$ 2,931,438
											\$3,791,614
D (1) (05) D (1) \											

IN-1 Infrared Inspection Program

	Assets in WFR		Percent of		Percent	Expected Acres	New Expected					
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence	
Animal						-	0%		0	0% 14.7610996	54 \$	-
Balloons						-	0%		0	0% 0.11721909	95 \$	-
Other						-	0%		0	0% 1.26264284	12 \$	-
Vegetation						-	0%		0	0% 288.982960)2 \$ 3,587	7,377
Vehicle						-	0%		0	0% 1.65486979	99 \$	-
SubTotal												
Equipment/Facility Failure												
Cap Bank			4	2	2	1.67	29%	3	50	0.02234426	55 \$	277
Conductor and Conductor Splid	ce		6,634	2,433	3,587	8.50	67%	3	50	0% 4.4064272	26 \$ 54	4,701
Crossarm						-	0%		0	0.66038532	21 \$ 8	8,198
Fuse						-	0%		0	0% 0.40980550)5 \$ 5	5,087
Guy/Span Wire						-	0%		0	0% 0.03405963	33 \$	423
Insulator						-	0%		0	0% 19.0176880	7 \$ 236	6,082
Lightning Arrestor			2,946	1,721	3,900	46.66	91%	3	50	0% 1.64883727	72 \$ 20	0,468
Pole						-	0%		0	0% 10.1024504	16 \$ 125	5,410
Recloser												
Sectionalizer												
Switch			9	2	-	1.00	14%	3	50	0% 0.41457890)5 \$ 5	5,146
Transformer			2,946	1,721	3,900	46.66	91%	3	50	0% 0.49296417	75 \$ 6	6,120
Voltage Regulator			9	2	-	1.00	14%	3	50	0%	0 \$	-
Other						-	0%		0	0% 3.15636880	7 \$ 39	9,183
SubTotal												
Other Utility Caused issues (otl	her 8%)											
Contact with 3rd Party												
Contamination						-	0%		0	0% 0.76066499	94 \$ 9	9,443
Unknown						-	0%		0	0% 301.696251	19 \$	-
Vandalism/Theft						-	0%		0	0% 1.48660417	77 \$	-
Wire-Wire Contact						-	0%		0	0.08431618	36 \$ 1	1,047
Subtotal												
Total Expected Consequence											\$ 4,098	8,960
•											\$44,62	20,472
Benefit (95th Percentile)											\$ 43,366	6,663



		Assets in WFR		Assets in WFR			Percent of		Percent	Expected Acres	New Expected
Object Contact - Object Type	1	2	3	4	5	weighting		fectiveness	Effective	Burned	Consequence
Animal						-	0%		0.0%		•
Balloons						-	0%		0.0%		
Other						-	0%		0.0%		•
Vegetation						-	0%		0.0%		
Vehicle						-	0%		0.0%	1.654869799	\$ -
SubTotal											
Equipment/Facility Failure											
Cap Bank						_	0%		0.0%	0.026164785	\$ 325
Conductor and Conductor Splic	e		663	243	359	0.85	7%	3	50.0%		
Crossarm						_	0%		0.0%		
Fuse						_	0%		0.0%		
Guy/Span Wire						_	0%		0.0%		
Insulator						_	0%		0.0%		
Lightning Arrestor						_	0%		0.0%		
Pole						_	0%		0.0%		
Recloser											, , ,
Sectionalizer											
Switch						_	0%		0.0%	0.446499083	\$ 5,543
Transformer						_	0%		0.0%		
Voltage Regulator						_	0%		0.0%		\$ -
Other						_	0%		0.0%		
SubTotal											7 337-33
Other Utility Caused issues (oth	ner 8%)										
Contact with 3rd Party	,										
Contamination						-	0%		0.0%	0.760664994	\$ 9,443
Unknown						-	0%		0.0%		
Vandalism/Theft						-	0%		0.0%		•
Wire-Wire Contact						-	0%		0.0%		
Subtotal											•
Total Expected Consequence											\$ 4,146,237
,											\$44,620,472
Benefit (95th Percentile)											\$ 43,366,663



	Assets in WFR			Assets in WFR				Percent of		Percent		•	New Expected
Object Contact - Object Type	1	2	3	4	5	weightin	ıg		Effectiveness	Effective			Consequence
Animal							-	0%			0.0%	14.76109964	
Balloons							-	0%			0.0%	0.117219095	
Other							-	0%			0.0%	1.262642842	
Vegetation							-	0%			0.0%	288.9829602	
Vehicle							-	0%			0.0%	1.654869799	\$ -
SubTotal													
Equipment/Facility Failure													
Cap Bank							-	0%			0.0%	0.026164785	\$ 325
Conductor and Conductor Splice	ce		345	188		15	0.16	1%		2 3	30.0%	6.578103088	\$ 81,659
Crossarm							-	0%			0.0%	0.660385321	\$ 8,198
Fuse							-	0%			0.0%	0.409805505	\$ 5,087
Guy/Span Wire							-	0%			0.0%	0.034059633	\$ 423
Insulator							-	0%			0.0%	19.01768807	\$ 236,082
Lightning Arrestor							-	0%			0.0%	3.03146762	\$ 37,632
Pole							-	0%			0.0%	10.10245046	\$ 125,410
Recloser													
Sectionalizer													
Switch							-	0%			0.0%	0.446499083	\$ 5,543
Transformer							-	0%			0.0%	0.906338642	\$ 11,251
Voltage Regulator							-	0%			0.0%	0	\$ -
Other							-	0%			0.0%	3.156368807	\$ 39,183
SubTotal													
Other Utility Caused issues (other	ner 8%)												
Contact with 3rd Party								00/				0.700004004	
Contamination							-	0%			0.0%	0.760664994	
Unknown							-	0%			0.0%	301.6962519	•
Vandalism/Theft							-	0%			0.0%	1.486604177	
Wire-Wire Contact							-	0%			0.0%	0.084316186	\$ 1,047
Subtotal													ć 4440.050
Total Expected Consequence													\$ 4,148,658
Daniella (OEth Daniella)													\$4,919,570
Benefit (95th Percentile)													\$ 83,067,565

83,067,565

\$



Benefit (95th Percentile)

	Assets in WFR		Assets in WFR	Assets in WFR			Percent of		Percent	Expected Acres	New Expected	
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence	
Animal						-		%	0.	0% 14.7610996	4 \$	-
Balloons						-	0	%	0.	0.11721909	5 \$	-
Other						-	0	1%	0.	0% 1.26264284	2 \$	-
Vegetation						-	0	%	0.	0% 288.982960	2 \$ 3,	,587,377
Vehicle						-	0	%	0.	0% 1.65486979	9 \$	-
SubTotal												
Equipment/Facility Failure												
Cap Bank						_	0	%	0	0.02616478	5 ¢	325
Conductor and Conductor Splic	`A							%	0.			81,964
Crossarm	,							%	0.			8,198
Fuse								%	0.			5,087
Guy/Span Wire								%	0.			423
Insulator						_		%	0.			236,082
Lightning Arrestor						_		%	0.			37,632
Pole			4,221	1,604	745				3 50.			120,892
Recloser			7,221	1,004	743	2.10	,	70	3 30.	3.73031007	<i>5</i>	120,032
Sectionalizer												
Switch							0	%	0	0.44649908	2 ¢	5,543
Transformer								%	0.			11,251
Voltage Regulator						_		%	0.		0 \$	-
Other								%	0.			39,183
SubTotal								70	0.	3.13030000	, ,	33,103
SubTotal												
Other Utility Caused issues (oth	ner 8%)											
Contact with 3rd Party	,											
Contamination						_	0	%	0.	0.76066499	4 \$	9,443
Unknown			2,111	802	373	13.25			4 70.			-
Vandalism/Theft			,			_		%	0.			_
Wire-Wire Contact						_		%	0.			1,047
Subtotal									0.		- •	-,,
Total Expected Consequence											\$ 4,	,144,445
												1,919,570
- 6: (:1)												, ,



Object Contact Object Ture		Assets in WFR	Assets in WFR	Assets in WFR	Assets in WFR		Percent of total risk	Effectiveness	Percent Effective	Expected Acres Burned	New Expected
Object Contact - Object Type Animal	1	2	3	4	5	weighting -	total risk		0.0		Consequence
Balloons						-	0%		0.0		
Other						-	0%		0.0		
Vegetation			531	195	287	1	5%		2 30.0		•
Vehicle			1,551		1,037	2	7%		2 30.0 2 30.0		
SubTotal			1,551	700	1,037	2	/ 70		2 30.0	70 1.021550095	-
SubTotal											
Equipment/Facility Failure											
Cap Bank						_	0%		0.0	% 0.026164785	\$ \$ 325
Conductor and Conductor Splic	e		531	195	287	0.68	5%		3 50.0		
Crossarm	Č		607			2.00	7%		2 30.0		
Fuse			007	330	405	-	0%		0.0		
Guy/Span Wire			182	99	147	2.00	7%		2 30.0		
Insulator			1,551		1,037	2.01	7%		2 30.0		
Lightning Arrestor			1,331	700	1,037	-	0%		0.0		
Pole			1,551	788	1,037	2.01	7%		2 30.0		
Recloser			1,331	700	1,037	2.01	770		2 30.0	7.055044555	122,003
Sectionalizer											
Switch						_	0%		0.0	% 0.446499083	\$ \$ 5,543
Transformer						_	0%		0.0		
Voltage Regulator						_	0%		0.0) \$ -
Other						_	0%		0.0		
SubTotal							070		0.0	3.130300007	ÿ 33,103
34510441											
Other Utility Caused issues (oth	ner 8%)										
Contact with 3rd Party	,										
Contamination			1,551	788	1,037	2.01	7%		2 30.0	% 0.745349511	. \$ 9,253
Unknown						-	0%		0.0	% 301.6962519	
Vandalism/Theft						-	0%		0.0	% 1.486604177	· \$ -
Wire-Wire Contact						-	0%		0.0	% 0.084316186	1,047
Subtotal											,
Total Expected Consequence											\$ 4,081,862
											\$4,882,643
Benefit (95th Percentile)											\$ 83,104,492

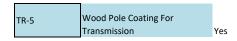


	Assets in WFR		Percent of		Percent	Expected Acres	New Expected				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence
Animal						-	09			14.7610996	
Balloons						-	09		(0.11721909	
Other						-	09	6	(1.26264284	2 \$ -
Vegetation				188	15	0	19	6	3 50	287.669113	3 \$ 3,571,067
Vehicle						-	09	6	(1.65486979	9 \$ -
SubTotal											
Equipment/Facility Failure											
Cap Bank						_	09	6	(0.02616478	5 \$ 325
Conductor and Conductor Splic	e					_	09			6.6026679	
Crossarm						_	09			0.0% 0.66038532	
Fuse						_	09			0.40980550	· ·
Guy/Span Wire						-	09			0.03405963	
Insulator						-	09	6		19.0176880	7 \$ 236,082
Lightning Arrestor						-	09			3.0314676	· ·
Pole				1,604	745	1.74	69			9.69302072	· ·
Recloser											
Sectionalizer											
Switch						-	09	6	(0.0% 0.44649908	3 \$ 5,543
Transformer						-	09	6	(0.90633864	2 \$ 11,251
Voltage Regulator						-	09	6	(0.0%	0 \$ -
Other						-	09	6	(3.15636880	7 \$ 39,183
SubTotal											
Other Utility Caused issues (oth	ner 8%)										
Contact with 3rd Party	101 070)										
Contamination						_	09	6	(0.76066499	4 \$ 9,443
Unknown			2,111	802	373	13.25	399			0.0% 0.70000433	
Vandalism/Theft			2,111	802	3/3	15.25	09			0.0% 218.383211 0.0% 1.48660417	·
Wire-Wire Contact						-	09			0.0% 0.08431618	•
Subtotal						-	07	U	,	0.00431016	U 7 1,047
Total Expected Consequence											\$ 4,127,571
Total Expected Consequence											4,127,371

Benefit (95th Percentile)

\$4,919,570 \$ 83,067,565 High Priority Pole and
Component Replacement-2nd
tier Yes

		Assets in WFR					Percent of			Percent	Expected Acres	New Expected
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness		Effective	Burned	Consequence
Animal						-		0%		0.0		•
Balloons						-		0%		0.0		
Other			245			-		0%	•	0.09		•
Vegetation			345			0		0%	3	50.09		
Vehicle						-		0%		0.0	% 1.654869799	-
SubTotal												
Equipment/Facility Failure												
Cap Bank						_		0%		0.09	% 0.026164785	5 \$ 325
Conductor and Conductor Splic	ce					_		0%		0.09		
Crossarm						_		0%		0.09		•
Fuse						-		0%		0.09		
Guy/Span Wire						-		0%		0.09		· ·
Insulator						-		0%		0.0		
Lightning Arrestor						-		0%		0.09	% 3.03146762	2 \$ 37,632
Pole			4,221			0.42		1%	4	70.09	% 10.00236365	5 \$ 124,167
Recloser												
Sectionalizer												
Switch						-		0%		0.09	% 0.446499083	3 \$ 5,543
Transformer						-		0%		0.09	% 0.906338642	2 \$ 11,251
Voltage Regulator						-		0%		0.09	%) \$ -
Other						-		0%		0.09	% 3.156368807	7 \$ 39,183
SubTotal												
Other Utility Caused issues (oth	her 8%)											
Contact with 3rd Party												
Contamination						-		0%		0.0		
Unknown						-		0%		0.0		•
Vandalism/Theft						-		0%		0.09		•
Wire-Wire Contact						-		0%		0.09	% 0.084316186	5 \$ 1,047
Subtotal												\$ 4,141,786
Total Expected Consequence												\$ 4,141,786 \$4,919,570
Benefit (95th Percentile)												\$4,919,570
benefit (33til Feltelitile)												65,007,505



	Assets in WFR		Percent of		Percent	Expected Acres	New Expected	ł				
Object Contact - Object Type	1	2	3	4	5	weighting	total risk	Effectiveness	Effective	Burned	Consequence	
Animal						-	0	%	0.0	% 14.7610996	4 \$	-
Balloons						-		%	0.0			-
Other						-	0	%	0.0	% 1.26264284	2 \$	-
Vegetation						-	0	%	0.0	% 288.982960	2 \$	3,587,377
Vehicle						-	0	%	0.0	% 1.65486979	9 \$	-
SubTotal												
Equipment/Facility Failure												
Cap Bank						_	0	%	0.0	% 0.02616478	5 \$	325
Conductor and Conductor Splid	ce					_		%	0.0			81,964
Crossarm						_		%	0.0			8,198
Fuse						_		%	0.0			5,087
Guy/Span Wire						_		%	0.0			423
Insulator						_		%	0.0			236,082
Lightning Arrestor						-		%	0.0		•	37,632
Pole			2,533	962	447	1.30		%	2 30.0			123,783
Recloser												,
Sectionalizer												
Switch						-	0	%	0.0	% 0.44649908	3 \$	5,543
Transformer						-	0	%	0.0	% 0.90633864	2 \$	11,251
Voltage Regulator						-	0	%	0.0	%	0 \$	-
Other						-	0	%	0.0	% 3.15636880	7 \$	39,183
SubTotal												
Other Utility Caused issues (otl	hor 90/)											
Contact with 3rd Party	iei 670)											
Contamination							0	%	0.0	% 0.76066499	1 ¢	9,443
Unknown								%	0.0			3,443
Vandalism/Theft						-		%	0.0			-
Wire-Wire Contact								%	0.0			1,047
Subtotal							U	,,	0.0	70 0.00-31010	-	1,047
Total Expected Consequence											\$	4,147,337
. Sta. Expedied Consequence												4,919,570
Benefit (95th Percentile)												3,067,565



				Assets in WFR				ercent of		Percent	Expected Acres	New Expected
Object Contact - Object Type	1	2	3	4	5	weighting	to	tal risk Effectiver	iess	Effective	Burned	Consequence
Animal						-		0%			0% 14.7610996	•
Balloons						-		0%			0.11721909	•
Other						<u>-</u>		0%			0% 1.26264284	•
Vegetation			345	188	1	5	0	1%	4			
Vehicle						-		0%		0.	0% 1.65486979	9 \$ -
SubTotal												
Equipment/Facility Failure												
Cap Bank						-		0%		0.	0.02616478	5 \$ 325
Conductor and Conductor Splic	ce					-		0%		0.	0% 6.6026679	4 \$ 81,964
Crossarm						-		0%		0.	0.66038532	1 \$ 8,198
Fuse						-		0%		0.	0.40980550	5 \$ 5,087
Guy/Span Wire						-		0%		0.	0.03405963	3 \$ 423
Insulator						-		0%		0.	0% 19.0176880	7 \$ 236,082
Lightning Arrestor						-		0%		0.	0% 3.0314676	2 \$ 37,632
Pole						-		0%		0.	0% 10.1024504	5 \$ 125,410
Recloser												
Sectionalizer												
Switch						-		0%		0.	0.44649908	3 \$ 5,543
Transformer						-		0%		0.	0.90633864	2 \$ 11,251
Voltage Regulator						-		0%		0.	0%) \$ -
Other						-		0%		0.	0% 3.15636880	7 \$ 39,183
SubTotal												
Other Utility Caused issues (otl	hor 90/)											
Contact with 3rd Party	iei 670)											
Contamination						_		0%		0	0.76066499	4 \$ 9,443
Unknown								0%			0% 301.696251	•
Vandalism/Theft								0%			0% 301.090231 0% 1.48660417	•
Wire-Wire Contact						-		0%			0% 1.48660417 0% 0.08431618	•
Subtotal						-		U/0		0.	0.00431016	1,047 ب
Total Expected Consequence												\$ 4,117,821
Total Expected consequence												\$4,919,570
Benefit (95th Percentile)												\$ 83,067,565
,												



Object Contact - Object Type	Assets in WFR	Assets in WFR 2	Assets in WFR	Assets in WFR	Assets in WFR 5	weighting	Percent of total risk	Effectiveness	Percent Effective	Expe Burn	cted Acres	New Expected Consequence	
Animal	1	2	3	•	5	weighting		0%		0.0%	14.76109964	-	
Balloons						-		0%		0.0%	0.117219095		-
Other						-		0%		0.0%	1.262642842		-
			345	188	15			1%		0.0%	287.9078155		-
Vegetation Vehicle			345	188	15			0%					574,030
						-		0%		0.0%	1.654869799	Ş	-
SubTotal													
Equipment/Facility Failure													
Cap Bank						-		0%		0.0%	0.026164785	\$	325
Conductor and Conductor Splic	ce					-		0%		0.0%	6.60266794	\$	81,964
Crossarm						-		0%		0.0%	0.660385321		8,198
Fuse						-		0%		0.0%	0.409805505	\$	5,087
Guy/Span Wire						-		0%		0.0%	0.034059633		423
Insulator						_		0%		0.0%	19.01768807		236,082
Lightning Arrestor						-		0%		0.0%	3.03146762	•	37,632
Pole						-		0%		0.0%	10.10245046		125,410
Recloser												•	-,
Sectionalizer													
Switch						_		0%		0.0%	0.446499083	Ś	5,543
Transformer						_		0%		0.0%	0.906338642		11,251
Voltage Regulator						-		0%		0.0%		\$	· -
Other						_		0%		0.0%	3.156368807	\$	39,183
SubTotal												*	,
Other Utility Caused issues (oth	ner 8%)												
Contact with 3rd Party													
Contamination						-		0%		0.0%	0.760664994	\$	9,443
Unknown						-		0%		0.0%	301.6962519	\$	-
Vandalism/Theft						-		0%		0.0%	1.486604177	\$	-
Wire-Wire Contact						-		0%		0.0%	0.084316186	\$	1,047
Subtotal													
Total Expected Consequence												\$ 4,1	135,616
												\$4,	919,570
Benefit (95th Percentile)												\$ 83,0	067,565



Object Contact - Object Type	Assets in WFR	weighting	Percent of total risk	Effectiveness	Percent Effective	Expected Acres Burned	New Expected Consequence				
Animal	1	2	3	4	3		O9			0% 14.7610996	•
Balloons							09			0% 14.7610996 0% 0.11721909	•
Other						-	09			0% 0.11721909 0% 1.26264284	•
	4 427		245	400	4.5						
Vegetation	1,437	807	345	188	15					0% 285.880930	
Vehicle						-	09	o	Ü	0% 1.65486979	-
SubTotal											
Equipment/Facility Failure											
Cap Bank						-	09	6	0	0.02616478	5 \$ 325
Conductor and Conductor Splic	e					-	09	6	0	0% 6.6026679	
Crossarm						_	09	6		0% 0.66038532	
Fuse						_	09			0% 0.40980550	
Guy/Span Wire						-	09	6	0	0% 0.03405963	
Insulator						_	09			0% 19.0176880	
Lightning Arrestor						_	09			0% 3.0314676	
Pole			2,533	962	447	1.30				0% 9.88408622	
Recloser			,								,
Sectionalizer											
Switch						_	09	6	0	0.44649908	3 \$ 5,543
Transformer						_	09			0% 0.90633864	
Voltage Regulator						_	09) \$ -
Other						_	09			0% 3.15636880	•
SubTotal							0,		· ·	5,12555555	, y 33,133
Other Utility Caused issues (oth	ner 8%)										
Contact with 3rd Party											
Contamination						-	09			0.76066499	
Unknown						-	09	6		0% 301.696251	- \$
Vandalism/Theft						-	09	6		0% 1.48660417	7 \$ -
Wire-Wire Contact						-	09	6	0	0.08431618	5 \$ 1,047
Subtotal											
Total Expected Consequence											\$ 4,107,744
											\$4,919,570
Benefit (95th Percentile)											\$ 83,067,565

Mitigation Effectiveness Scale

	Percent Effective-Min	Percent Effective - Max	Average
0	0%	0%	0%
1	0%	20%	10.0% 10.0%
2	20%	40%	30.0% 30.0%
3	40%	60%	50.0% 50.0%
4	60%	80%	70.0% 70.0%
5	80%	100%	90.0% 90.0%

Wildfires By State, 2017

Wildfires By State, 2016

State	Number of fires	Number of acres burned	State	Number of fires	Number of acres burned	State	Number of fires	Number of acres burned	State	Number of fires	Number of acres burned
Alabama	970	15,464	Alabama	1,254	20,192	Alaska	572	496,467	Alabama	3,198	47,380
Alaska	367	410,683	Alaska	364	653,023	Alabama	3923	59,030	Alaska	768	5,111,404
Arizona	2,000	165,356	Arizona	2,321	429,564	Arizona	2,288	308,245	Arizona	1,662	160,152
Arkansas	1,119	24,071	Arkansas	1,706	34,624	Arkansas	1,513	33,371	Arkansas	1,837	26,630
California	8,054	1,823,153	California	9,560	1,266,224	California	7,349	560,815	California	8,745	893,362
Colorado	1328	475,803	Colorado	967	111,667	Colorado	1190	129,495	Colorado	709	22,602
Connecticut	52	40	Connecticut	97	243	Connecticut	268	778	Connecticut	76	159
Delaware	0	0	Delaware	5	6	Delaware	(1)	(1)	Delaware	-1	-1
Florida	2,249	138,820	Florida	3,280	298,831	Florida	3,067	74,416	Florida	2,422	73,432
Georgia	2,572	14,236	Georgia	3,929	200,785	Georgia	5,086	52,119	Georgia	2,331	10,556
Hawaii	3	21,979	Hawaii	3	2,098	Hawaii	10	15,098	Hawaii	17	5,611
Idaho	1,132	604,481	Idaho	1,598	686,262	Idaho	630	361,649	Idaho	1,324	804,094
Illinois	6	120	Illinois	13	98	Illinois	12	133	Illinois	18	806
Indiana	26	115	Indiana	22	553	Indiana	27	620	Indiana	16	868
Iowa	386	8,014	Iowa	427	7,216	Iowa	465	21,371	Iowa	533	14,945
Kansas	71	59,234	Kansas	71	476,306	Kansas	75	349,829	Kansas	154	53,936
Kentucky	376	8,417	Kentucky	892	28,927	Kentucky	1220	73,864	Kentucky	774	19,207
Louisiana	647	10,742	Louisiana	1,064	11,356	Louisiana	508	7,799	Louisiana	1,172	21,036
Maine	542	678	Maine	489	369	Maine	796	946	Maine	375	574
Maryland	76	359	Maryland	108	2,178	Maryland	120	242	Maryland	158	1,078
Massachusetts	320	210	Massachusetts	1,216	844	Massachusetts	1,526	1381	Massachusetts	1,525	1763
Michigan	431	3786	Michigan	270	736	Michigan	389	3666	Michigan	526	3806
Minnesota	1,344	17,005	Minnesota	1,036	5,553	Minnesota	1,422	12,268	Minnesota	1,849	30,563
Mississiani	•	·	Mississiani		•	Mississiani	•		Mississiani		
Mississippi	1,168	21,194	Mississippi	2,775	40,595	Mississippi	94	8,128	Mississippi	2,294	34,769

State	Number of fires	Number of acres burned	State	Number of fires	Number of acres burned	Average Number	Average Size	Stand Dev	Total Number (2014- 2017	Total Acres (2014- 2017	Average Size (2014- 2017)	Percenta ge
Alabama	2,093	40,527	Alabama	1,284	25,623							
Alaska	384	233,561	Alaska	603	1,316,876							
Arizona	1,543	205,199	Arizona	1,756	105,281							
Arkansas	1,302	20,164	Arkansas	881	14,733							
California	7,865	555,044	California	9,907	577,675	8,580		-	-	3,275,445		
Colorado	830	24,949	Colorado	1176	195,145	1,033	159,944	238	3,696	288,713	78.11499	80%
Connecticut	28	69	Connecticut	76	238							
Delaware	-1	-1	Delaware	4	17							
Florida	2,436	101,599	Florida	101	7,660							
Georgia	3,562	19,199	Georgia	2,942	6,736							
Hawaii	-1	-1	Hawaii	-1	-1							
Idaho	1,180	189,430	Idaho	1,471	722,204							
Illinois	36	727	Illinois	24	55							
Indiana	54	276	Indiana	19	806							
Iowa	577	11,347	lowa	436	14,704							
Kansas	68	31,261	Kansas	16	7,137							
Kentucky	1466	43,199	Kentucky	1030	25,084							
Louisiana	1,005	25,337	Louisiana	1,027	17,883							
Maine	282	158	Maine	426	743							
Maryland	125	1,802	Maryland	126	182							
Massachusetts	1,169	1197	Massachusetts	1,132	879							
Michigan	268	716	Michigan	436	940							
Minnesota	990	4,367	Minnesota	1,115	22,107							
Mississippi	97	10,053	Mississippi	5	33							

Wildfires By State, 2017

Wildfires By State, 2016

State	Number of fires	Number of acres burned	State	Number of fires	Number of acres burned	State		Number of fires	20106	Number acres State	Number acres State Number of fires
Missouri	103	6,025	Missouri	3,398	8,459	Missouri		2,610	2,610 32,134	2,610 32,134 Missouri	2,610 32,134 Missouri 3,161
Montana	1,342	97,814	Montana	2,422	1,366,498	Montana		2,026	2,026 114,594	2,026 114,594 Montana	2,026 114,594 Montana 2,432
Nebraska	35	122	Nebraska	49	3,160	Nebraska		45	45 24,498	45 24,498 Nebraska	45 24,498 Nebraska 51
Nevada	649	1,001,966	Nevada	768	1,329,289	Nevada		467	467 265,156	467 265,156 Nevada	467 265,156 Nevada 551
New Hampshire	145	61	New Hampshire	36	123	New Hampshire		148	148 880	148 880 New Hampshire	148 880 New Hampshire 114
New Jersey	625	1,347	New Jersey	735	5,144	New Jersey	1050		4,445	4,445 New Jersey	4,445 New Jersey 1013
New Mexico	1334	382,345	New Mexico	813	141,663	New Mexico	1240		212,425	212,425 New Mexico	212,425 New Mexico 696
New York	109	848	New York	57	191	New York	196		4236	4236 New York	4236 New York 186
North Carolina	3,625	18,058	North Carolina	5,125	46,507	North Carolina	4,007		88,109	88,109 North Carolina	88,109 North Carolina 3,828
North Dakota	1,026	19,557	North Dakota	1,086	19,841	North Dakota	563		4,657	4,657 North Dakota	4,657 North Dakota 726
Ohio	67	337	Ohio	68	733	Ohio	410		1116	1116 Ohio	1116 Ohio 69
Oklahoma	1,707	745,097	Oklahoma	1,906	502,625	Oklahoma	1,938		767,780	767,780 Oklahoma	767,780 Oklahoma 1,309
Oregon	2,019	897,263	Oregon	2,049	714,520	Oregon	1,245		219,509	219,509 Oregon	219,509 Oregon 2,588
Pennsylvania	1276	3,614	Pennsylvania	537	1,652	Pennsylvania	871		12,245	12,245 Pennsylvania	12,245 Pennsylvania 831
Rhode Island	32	14	Rhode Island	31	30	Rhode Island	79		57	57 Rhode Island	57 Rhode Island 86
South Carolina	1,136	9,939	South Carolina	1,092	11,041	South Carolina	982		3,804	3,804 South Carolina	3,804 South Carolina 976
South Dakota	433	5,027	South Dakota	1,420	77,386	South Dakota	1,216		81,561	81,561 South Dakota	81,561 South Dakota 1,032
Tennessee	341	3,763	Tennessee	593	6,949	Tennessee	2165		88,038	88,038 Tennessee	88,038 Tennessee 611
Texas	10,541	569,811	Texas	9,827	734,682	Texas	9,300		356,680	356,680 Texas	356,680 Texas 9,272

State	Number of fires	Number of acres burned	State	Number of fires	Number of acres burned	Average Average Number Size	Stand Dev	Total Number (2014- 2017	Total Acres (2014- 2017	Average Size (2014- 2017)	Percenta ge
Missouri	105	5,607	Missouri	51	1,660						
Montana	1,646	38,118	Montana	1,723	124,209						
Nebraska	38	992	Nebraska	10	63						
Nevada	531	59,252	Nevada	763	162,907						
New Hampshire	62	45	New Hampshire	85	137						
New Jersey	962	10,400	New Jersey	1013	1,430						
New Mexico	728	23,440	New Mexico	1064	221,951						
New York	94	582	New York	138	1073						
North Carolina	4,625	15,601	North Carolina	3,514	24,547						
North Dakota	567	4,069	North Dakota	515	16,116						
Ohio	63	684	Ohio	31	152						
Oklahoma	1,007	157,080	Oklahoma	610	26,490						
Oregon	3,087	984,629	Oregon	2,848	350,786						
Pennsylvania	877	4,519	Pennsylvania	639	1,788						
Rhode Island	1	0	Rhode Island	7	27						
South Carolina	1,374	8,312	South Carolina	1,337	7,082						
South Dakota	918	13,127	South Dakota	889	4,475						
Tennessee	1249	156,391	Tennessee	424	7,080						
Texas	9,677	131,138	Texas	70	10,743						

Wildfires By State, 2017

Wildfires By State, 2016

Wildfires By State, 2015

State	Number of fires	Number of acres burned	State	Number of fires	Number of acres burned	State	е	Number of fires	Number of acres burned	State	Number of fires	Number of acres burned
Utah	1,333	438,983	Utah	1,166	249,829	U	tah	1,078	101,096	Utah	930	10,203
Vermont	59	113	Vermont	55	50	V	ermont	150	386	Vermont	102	346
Virginia	1,266	15,224	Virginia	1,522	20,194	V	irginia	580	41,441	Virginia	631	6,574
Washington	1,743	438,834	Washington	1,346	404,223	W	/ashington	1,272	293,717	Washington	2,013	1,137,664
West Virginia	467	6,370	West Virginia	520	6,866	W	est Virginia/	18	443	West Virginia	8	219
Wisconsin	825	1678	Wisconsin	696	661	W	/isconsin	713	695	Wisconsin	993	2970
Wyoming	611	279,243	Wyoming	599	90,115	W	/yoming	711	218,077	Wyoming	512	35,652
United States (1)	58,083	8,767,492	United States (1)	71,499	10,024,086	U	nited States (2)	67,743	5,509,995	United States	s (2) 68,151	10,125,149

⁽¹⁾ Includes Puerto Rico which had 25 fires t (1) Includes Puerto Rico which had 116 fires t (1) Delaware had no wildfires in 2016.

View Archived Tables

Source: National Interagency Fire Center. Source: National Interagency Fire Center. **View Archived Tables**

(2) Includes Puerto Rico which had 113 fires t (2) Includes Puerto Rico which had 947 fire Source: National Interagency Fire Center. Source: National Interagency Fire Center.

⁽¹⁾ Delaware had no wildfires in 2015.

Wildfires By State, 2013

State	Number of fires	Number of acres burned	State	Number of fires	Number of acres burned	Average Number	Average Size	Stand Dev	Total Number (2014- 2017	Total Acres (2014- 2017	Average Size (2014- 2017)	Percenta ge
Utah	1,035	28,255	Utah	1,276	70,282							
Vermont	53	91	Vermont	124	281							
Virginia	736	10,446	Virginia	482	4,418							
Washington	1,480	386,972	Washington	1,527	152,603							
West Virginia	671	8,286	West Virginia	557	8,577							
Wisconsin	613	3268	Wisconsin	671	9196							
Wyoming	403	7,836	Wyoming	468	44,016							
United States (2)	63,612	3,595,613	United States (2)	47,579	4,319,546							

⁽¹⁾ Delaware and Hawaii had no wildfires in 2(1) Hawaii had no wildfires in 2013.

es t (2) Includes Puerto Rico which had 3,647 fire (2) Includes Puerto Rico which had 750 fires that burned 4,716 acres.

Source: National Interagency Fire Center.

Source: National Interagency Fire Center.