What characteristics drive fire managers to make a decision

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Intro

- Information has value
- 2200 wildfires and burned 36524 acres each year
- Survey only includes fire management relative people
- Endogenous and exogenous factors for decision

Hypothesis

- People have different education level may use different level information
- People may use less information during wildfire happening

Literature

- Idea is based on David R. Just(2002)
- Just(2002) collected data in four different commodity systems
- Frisvold(2013) examined that producers' characteristic
- Freebairn(2002) estimated mainly the benefits

- We only chosen fire managers this job
- Introduce community may affected people

Data

- Reached 477, 206 valid. Response rate is 43.2%
- Websites, education, job, experience
- Using dummy Variables for each category

					Dispatch
Agency	Age	Experience	Role	Education	center
	C3_less		C5_Agency	C6_High schoo	I
C1_Forest service	than 30	C4_0-4 years	administrator	graduate	AZ-ADC
			C5_Fire		
			Manager(Fuels and	C6_Some	
C1_BLM	C3_30-39	C4_5-9 years	fire)	college	AZ-FDC
			C5_Fire Manager,	C6_College	
C1_Bureau of Indian Affairs	C3_40-49	C4_10-14 years	Suppression	Graduate	AZ-PHC
				C6_Masters/Pr	
				ofessional	
C1_National Park Service	C3_50-59	C4_15-19 years	C5_Other	degree	AZ-PDC
C1_Arizona Department of					
Forestry and Fire	C3_60 and			C6_Doctoral	
Management	more	C4_20-29 years		degree	AZ-SDC
C1_New Mexico Forestry		C4_30 and more			
Division		years			AZ-TDC
C1_Other					AZ-WDC
C1_NOAA					NM-ADC
C1_Arizona Department of					
Environmental Qualiity					NM-ABC
					NM-SFC
					NM-SDC
					NM-TDC
					Other

Model

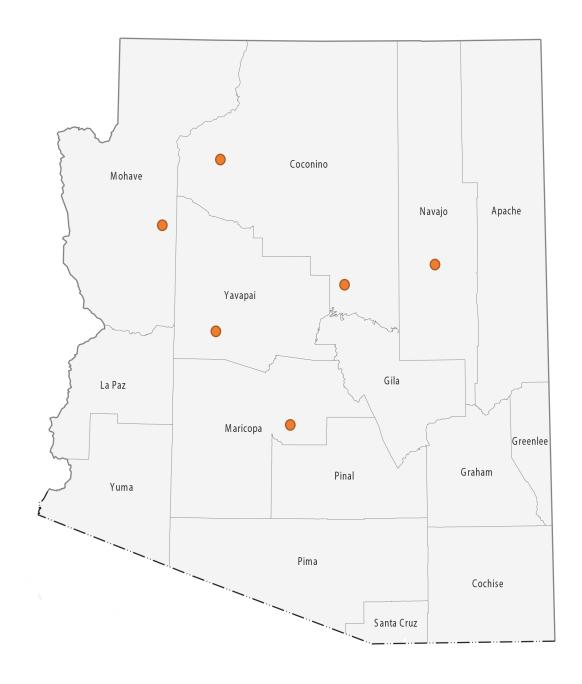
TotalSources

- = $\beta_0 + \beta_1$ During + β_2 TotalDecisions + β_3 Agency
- $+\beta_4$ Age $+\beta_5$ Experience $+\beta_6$ Role
- + β_7 Education + β_8 Dispatch + error

TotalSource: how much sources they use when firing

During: during fire is 1, prior fire is 0

TotalDecisions: how to control fire



Results

Conclusion