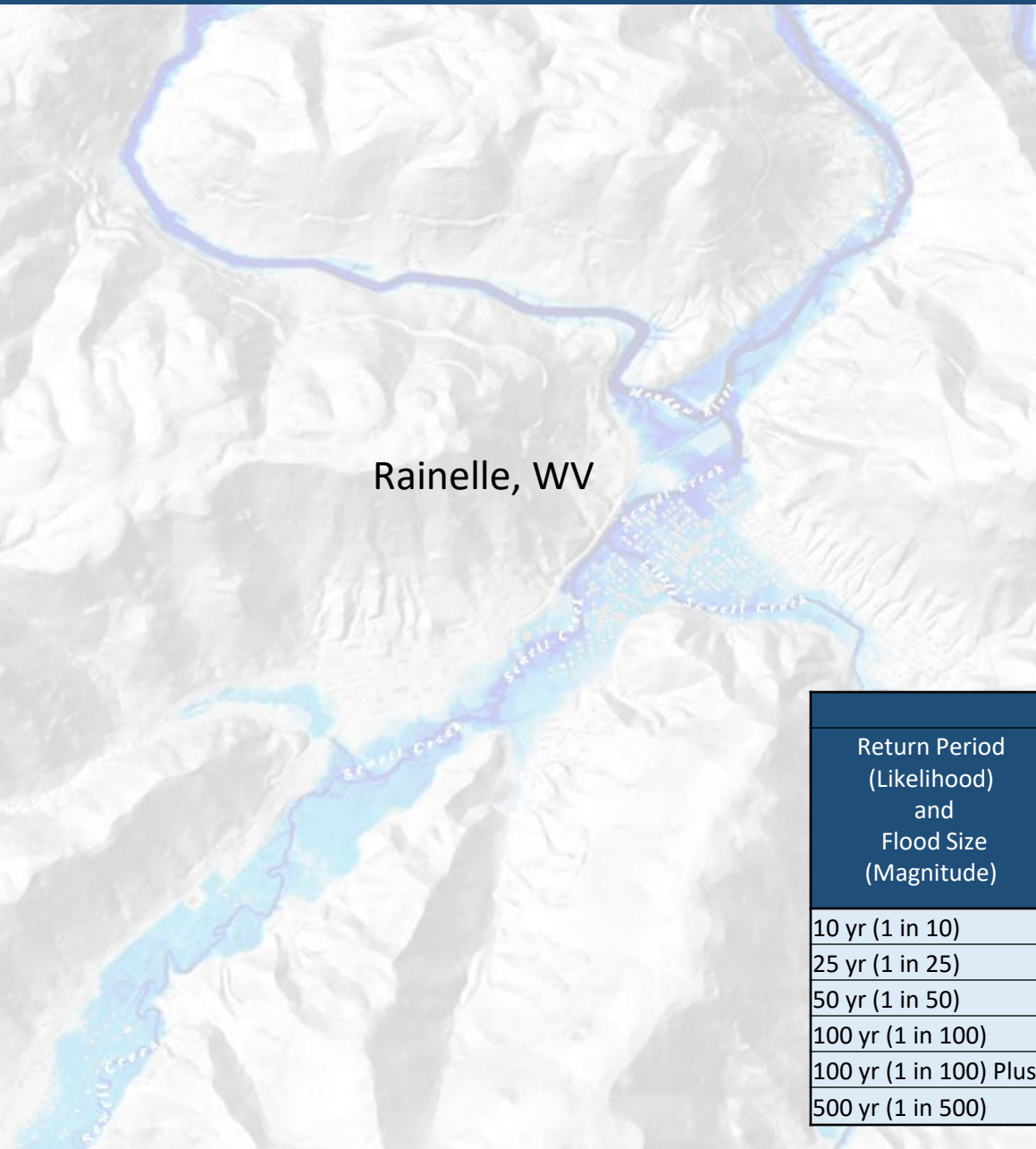
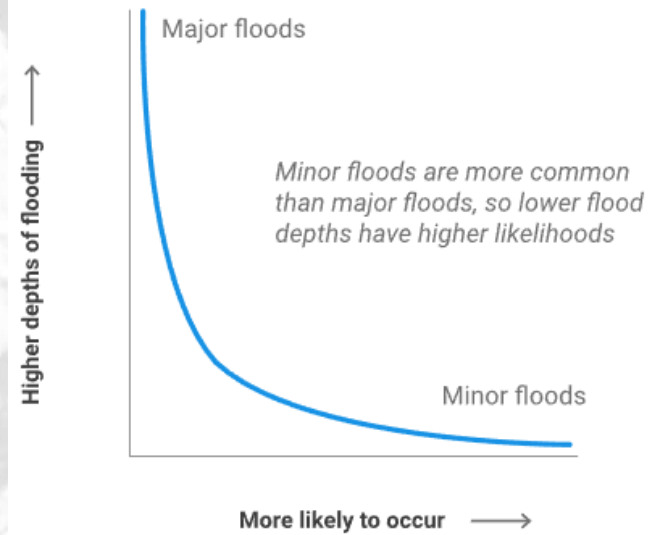


FEMA Flood Models: Likelihood and Magnitude



Relationship between flood depth and likelihood



FEMA				
Return Period (Likelihood) and Flood Size (Magnitude)	Annual Probability	Cumulative Probability - Flooding at least once over 30 years	FEMA Risk Description	Climate Model
10 yr (1 in 10)	10%	96%	High Risk	
25 yr (1 in 25)	4%	71%	High Risk	
50 yr (1 in 50)	2%	45%	High Risk	
100 yr (1 in 100)	1%	26%	High Risk	
100 yr (1 in 100) Plus	1%+	26%	High Risk	Yes
500 yr (1 in 500)	0.2%	6%	Moderate Risk	

FEMA 10% Annual Chance (10-year)

Rainelle, WV



FEMA 4% Annual Chance (25-year)

Rainelle, WV







FEMA 1%+ Annual Chance (100-year)

Rainelle, WV



FEMA 0.2% Annual Chance (500-year)

Rainelle, WV























