Emergency Evacuation



Issue

- Evacuation is a challenge and the most significant source of life loss during wildfires
- Wildfire regulations do not address "how"
- Need for consistency in development approval process
- Desire for a standard model universally used



Problem USDA Forest Service 2020

Casualties are record-breaking with climate change and development & populations in high fire prone environments as key drivers Wildfire regulations do not address "how"

Civilian fatalities in US and Europe dominated by those trapped by fire as they tried to evacuate

29 million live with significant potential for extreme wildfires; 12 million are "socially vulnerable" and an extreme event could be devestating

Wildfires & WUI Civilian Fatalities

	1901-1964	1965–2011	1901–2011 (total)
Late evacuation	111 (37.2%)	93 (24.8%)	204 (30.4%)
Defending property outside	90 (30.2%)	61 (16.3%)	151 (22.4%)
Inside property	18 (6.0%)	152 (40.2%)	168 (24.8%)
Travelling through the area unaware	22 (7.4%)	44 (11.8%)	66 (9.8%)
Waiting rescue	1 (0.3%)	6 (1.6%)	7 (1%)
Assisting firefighting operations	6 (2%)	2 (0.5%)	8 (1.2%)
Returned into burning building	2 (0.7%)	6 (1.6%)	8 (1.2%)
In an undefendable shelter (dugout, shed)	8 (2.7%)	3 (0.8%)	11 (1.6%)
Activity unknown at time of fatality	42 (14.1%)	9 (0.8%)	51 (7.6%)
Total	298 (100%)	376 (100%)	674 (100%)

Blanchi et al, 2012



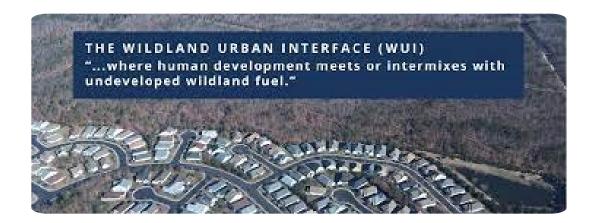
SB 571 1/10/24

- Fire safety regulations;
 Development projects,
 Ingress and egress route standards
- Senator Allen with Stern
- Introduced 2/15/23 and amended 3 times
- Ordered to 3rd reading 2/22/24



Scope & Content

- All development in SRA
- Very High and High FHSZs of LRA
- Impact to existing communities
- Safety needs of vulnerable populations
- Population density
- Motor vehicle volume



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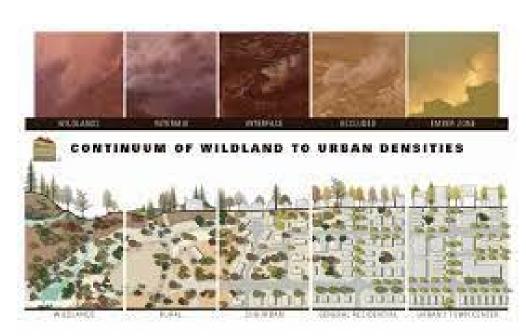


Figure 1. Communities in the wildfand-urban interface can be affected by wildfine in different ways, depanding on their development patterns and other factors of wildfine susceptibility.

Considerations

- Developments of various sizes and locations
- Criteria for two or more ingress and egress routes
- Existing regulations avoid duplication



Process & Timeframe

- BOF report to Legislature by January 1, 2027
- Regulations added to minimum fire safe standards (CCR Title 14, Divi 1.4, Chpt 7)
- Public input opportunities
- Response to public comment in final report
- Include enforcement standards for board
- State board reg adoption after July 1, 2024





Concerns & Challenges



- No standards
- Limited studies
- Wildfire behavior & time constraints
- Risk assessment, including 1st Responders
- Wildfire behavior models average/extreme
- Traffic Engineering Studies models limited
- Vulnerable populations
- Entrapment/Safe Refuge
- Plans and Communications