

# AFD Presentation to Arcata Planning Commission

Arcata Fire: Your First Responders for All-Risk Emergencies



### Arcata General Plan 2045 & Gateway Area Plan

AFD anticipates population growth in our service area

AFD is empathetic of housing challenges in our community

AFD wishes to be a partner in seeking resilient solutions



### Arcata General Plan 2045 & Gateway Area Plan

#### **AFD Concerns**

- Staffing
- Access
- Water Supply



#### **About Arcata Fire District**

#### Independent Special District

- Governed by 5 Elected Board members
- 3 Staffed Fire Stations
- Jurisdiction 62 sq mi
  - City of Arcata, Bayside, Manila, McKinleyville, Jacoby Creek
- Population 36,000+
- Incidents: 3300+ (8% Fire 50% EMS)



### NFPA 1710 Recommended Deployment

First unit arrive in 4 minutes

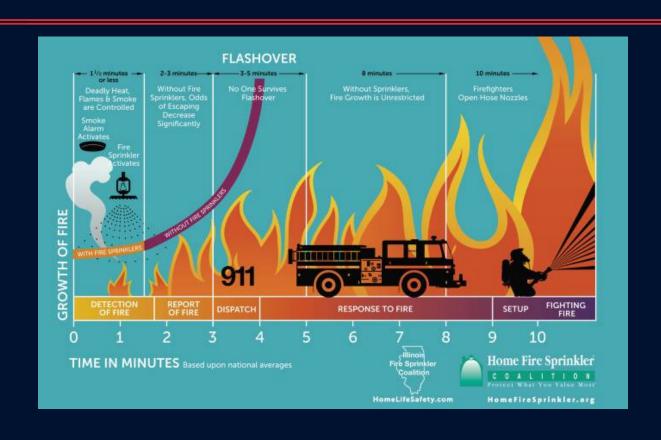
All units arrive within 8 – 10 minutes...

- Firefighters required for a residential structure fire 14
- Firefighters required for commercial, multi family, or 3 story 25
- Firefighters required for high-rise building 38

AFD cannot meet these fire response deployment even with Mutual-aid



### Response Times and Adequate Staffing





# Initial Response for a Working Fire Downtown Arcata

Critical Task	Needed Personnel	Responding Units	Staffing	Response Time (minutes)		
Command	1	ARF Chief	1	8		
Fire Attack	2	Arcata Engine	2	2		
Water Supply/Backup	2	Mad River Engine	2	7		
Pump Operator	1	McKinleyville Engine	2	11		
Search	2	AFD Uses Automatic Mutual Aid to Respond to Structure Fires				
Ventilation	2					
Rapid Intervention Crew	3					
Safety Officer	1					
Total	14					



# Fire Response Worst Case Scenario

Responding Units	Average Staffing	Response Time (minutes)	Responding Units	Average Staffing	Response Time (minutes)
ARF Chief	1	8	CDF Chief	1	19
Arcata Engine	2	2	CDF Chief  CDF Firefighters  NFPA = 25 Firefighters  mercial, or Multi	3	19
Mad River Engine	2	7	NFPA = 25 1 Multi	1	23*
McKinleyville Engine	2	11	NFPA = 25 Firefigite  Commercial, or Multi  Commercial, or 3-Story  Family, or 3-Story  (IVIUTUAL Aid)	2	23*
BLU Engine	3	12*	Family, Justual Aid)	3	32*
HBF Chief	1	13	FRT Truck (Mutual Aid)	3	39*
HBF Truck	4	13	CDF Engine (Mutual Aid	3	39
WVF Engine	2	16*	FEN Engine (Mutars	3	42*
SAM Engine	2	17*	FEN Engine (Mutters  RIO FPA = 38 Firefighters  NFPA = 10 minutes	3	43*
FBR Engine	2	18*	NFPA = 38 Firefighter  NFPA = 38 Firefighter  High Rise in 10 minutes  High Rise in 10 minutes  12	1	43*
		TOTAL	43		



# What is a High-Rise Building?



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# **Proposed Gateway Building Type**

#### Mid-Rise buildings - 4 to 8 Stories

- Fire fighting in mid-rise buildings present the same operational challenges as high-rise buildings.
- While there are no explicit NFPA response standards for midrise buildings, Arcata Fire Protection District will treat the Gateway mid-rise buildings equivalent to high-rise buildings for response staffing.



### How Many Firefighters Does it Take?

Each Community is different – population size, area served, building height and mass variation, capacity of regional aid.

Formal method to establish staffing would be a Standard of Coverage. An independent assessment.



# **How Many Firefighters?**

Humboldt Bay Fire JPA Staff: 51 suppression – 17 On-duty Budget: \$9.98 mil

Chico Fire Department Staff: 57 suppression – 14 On-duty Budget: \$17mil

San Luis Obispo FD Staff: 49 suppression – 14 On-duty Budget: \$13.9 mil

Arcata Fire District Staff: 18 Suppression— 7 On-duty Budget: \$6.4 mil



# **How Many Firefighters?**

At minimum AFD would need an additional 24 suppression staff to have staffing similar to other comparable towns in California to respond to mid-rise building emergencies.

Because of the distribution fire stations and volunteer status of aid partners, more AFD staff might be required to meet response standards.



#### What Would it Cost?

Current Revenue: \$6,473,000

Increased suppression staff cost: \$4,868,600

Required Revenue w/increased staff: \$11,341,600



# **How many Firefighters?**

- Staff: 42 Suppression 14 On-Duty Budget: \$ 11.3 Mil
- Three engine stations with a staff of 9: 27 suppression staff.
- One ladder truck with a staff of 4: 12 suppression staff.
- Shift duty officer, typically a Battalion Chief: 3 suppression staff.
- 24 more than AFPD's current staffing.



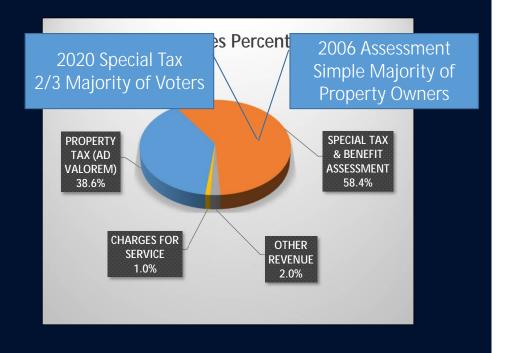
### **Arcata Fire District Budget**

#### FISCAL YEAR 2022/23 Preliminary Budget Projections

#### REVENUES

PROPERTY TAX (AD VALOREM) \$2,499,000 SPECIAL TAX & BENEFIT ASSESMENTS \$3,781,000 OTHER REVENUE \$131,000 CHARGES FOR SERVICE \$62,000

Total Revenues \$6,473,000





### **Budget Modeling**

FISCAL YEAR 2022/23 District Population 36022

#### REVENUES

PROPERTY TAX (AD VALOREM) \$2,499,000 SPECIAL TAX & BENEFIT ASSESSMENTS \$3,781,000 OTHER REVENUE \$131,000 CHARGES FOR SERVICE \$62,000 Total Revenues \$6,473,000 FISCAL YEAR 2044/45 District Population 48384

#### REVENUES

PROPERTY TAX (AD VALOREM) \$6,659,207
SPECIAL TAX & BENEFIT ASSESSMENTS \$4,423,770
OTHER REVENUE \$175,540
CHARGES FOR SERVICE \$83,080

Total Revenues \$11,341,597

48,384 District population estimate 2045, Arcata Growth 38%, Unincorporated Growth 31%, District 34%

Revenue Increases: Other Revenue and Services 34%, Assessments 17%, Property Tax, Remainder (166%)



## **Budget Modeling**

#### Fiscal Year 2044/45

36,022 Initial Population Component

#### REVENUES

PROPERTY TAX (AD VALOREM) \$3,106,257 SPECIAL TAX & BENEFIT ASSESSMENTS \$3,781,000 OTHER REVENUE \$131,000 CHARGES FOR SERVICE \$62,000

Total Revenues \$7,080,257

#### Fiscal Year 2044/45

12,362 Additional Population Component

#### REVENUES

PROPERTY TAX (AD VALOREM) \$3,552,950 SPECIAL TAX & BENEFIT ASSESSMENTS \$642,770 OTHER REVENUE \$44,540 CHARGES FOR SERVICE \$21,080 Total Revenues \$4,868,597

The assessed value of new construction would need to be \$6,344,553,571 to generate the required Ad Valorem revenue.



# **Budget Modeling**

- \$6,344,553,571 Assessed Value (2022 dollars)
- 12,362 Population Increase
- @ 2.3/ Household, 5,374 Units Required
- \$1,180,602 per Unit
- @ 949 sqft Gateway Unit \$1244/sqft
- 1500 sqft home: \$1,866,072



#### **AFD's Conclusions**

- Aid partner response and enhanced fire code elements are not adequate mitigation for 4 to 8 story residential buildings
- Feasibility of increased revenue for staffing mid-rise residential building response is unrealistic



#### AFD's Recommendations

- Height and Mass Codes commensurate with Fire District Capacity.
- Limit building to < 40 ft height (Garden Apartments) until funding is established for mid-rise residential response staffing.
- Require enhanced fire code elements in residential buildings over 2 stories.



# **QUESTIONS**