









- Benefits as avoided loss of assets
- ✤ Costs of the management regime
- Behaviour change and strategy risk

















School of Agricultural & Resource Economics

## **Selected results**

urrent loss per year		
Town		
Fire Severity	Number of fires/year	Loss/year
Low	1.41	\$38,810
Medium	0.21	\$28,686
High	0.05	\$33,102
Very high	0.02	\$191,649
Extreme	0.01	\$947,971
Total	1.71	\$1,240,217
Forest		
Fire Severity	Number of fires/year	Loss/year
Low	0.16	\$7,382
Medium	0.08	\$18,194
High	0.02	\$29,548
Very high	0.01	\$60,969
Extreme	0.00	\$40,039
Total	0.26	\$156,131



#### **Town: regulation**

- Escape effectiveness = 90%
- Project risk = 10%
- Compliance = 90%
- Benefit = \$791,000/yr
- Cost = \$201,000/yr
- Benefit: Cost Ratio = 3.54

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# Agricultural: payments • Escape effectiveness = 90% • Payments = \$200/ha for land area burnt per year • Adoption = 80% • Project risk = 19% • Benefit = \$17,000/yr • Cost = \$4,220,000/yr • Benefit: Cost Ratio = 0.0015

### **Agricultural: regulation**

- Escape effectiveness = 90%
- Compliance = \$200/ha for land area burnt per year
- Adoption = 90%
- Project risk = 36%
- Benefit = \$17,000/yr
- Cost = \$4,580,000/yr
- Benefit: Cost Ratio = 0.001









- Cost-effective to focus management close to the asset (within the town and forest)
- Payments and regulation have low BCRs as farmers bear high opportunity or compliance cost
- Low cost strategies were more likely to be costeffective
- Findings are robust to variation in key parameters
- Process highlighted information gaps

