# Color Me a Watershed: Burned Watershed

## How might fire affect the hydrology of a watershed?

1.	Looking at the post-fire map, what questions would you have, or information would you need to even begin to assess how fire may affect the hydrology of a watershed?
2.	Each land use sheds water at a different rate. How might fire change the estimates of runoff to calculate the amount of water that will runoff into the stream?
3.	What values would you suggest to estimate post-fire runoff for each land use? Why did you choose these values?
4.	Besides changes in runoff, what other changes or effects might fire have on the watershed?

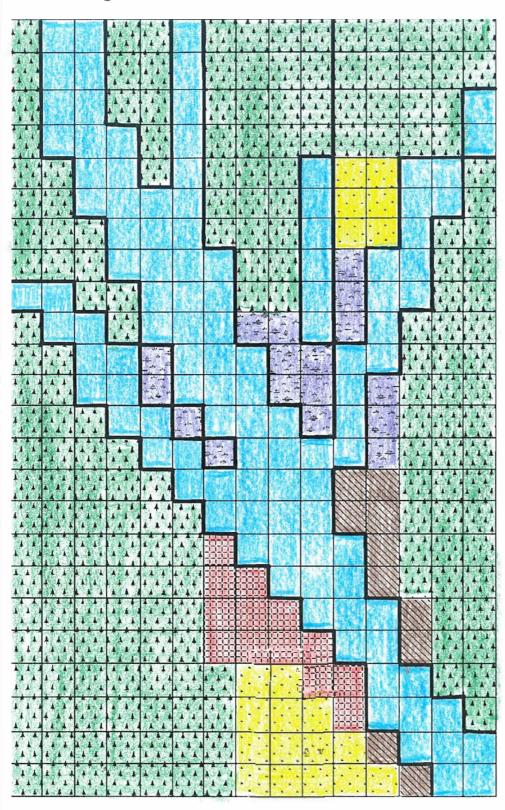
= Please complete questions on the other side =

5.	Could fire provide any beneficial changes in the watershed – and what might those benefits be?
6.	If you were starting with the post-fire map, what would your team suggest to help protect the watershed communities from any negative post-fire impacts? Would any of your suggestions help the watershed communities better resist a future fire event or other impacts of a changing climate?
7.	What other longer-term actions would you suggest to help the natural and human communities better
	resist climate change and better protect the water resources? How might historical maps and knowledge help inform your suggested actions?

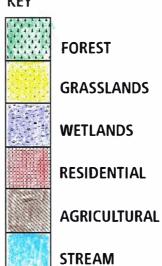


### Map A:

100 Years Ago



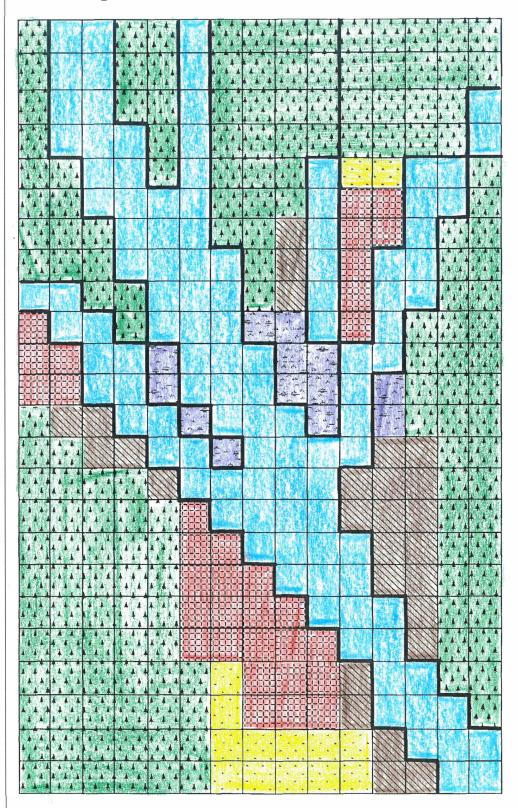
**KEY** 



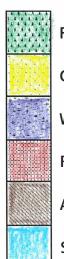


### Map B:

50 Years Ago



**KEY** 



**FOREST** 

**GRASSLANDS** 

**WETLANDS** 

**RESIDENTIAL** 

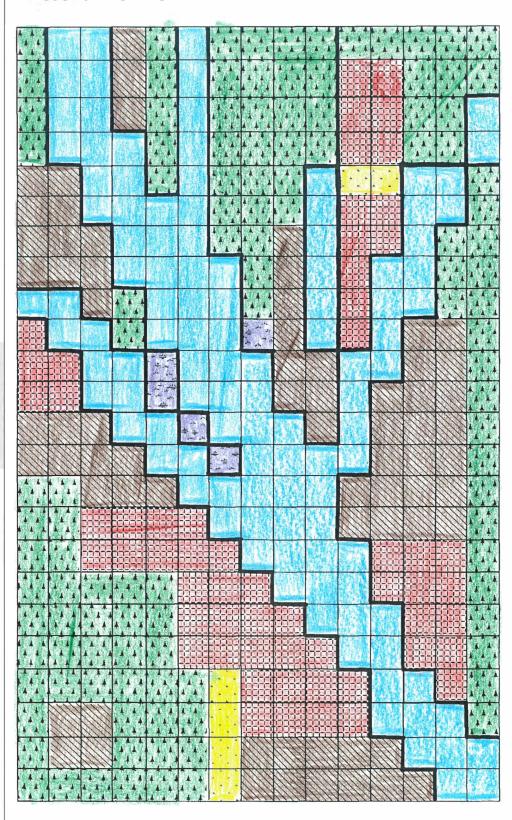
**AGRICULTURAL** 

**STREAM** 

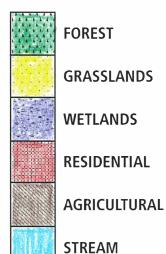


### Map C:

Present: Pre-Fire



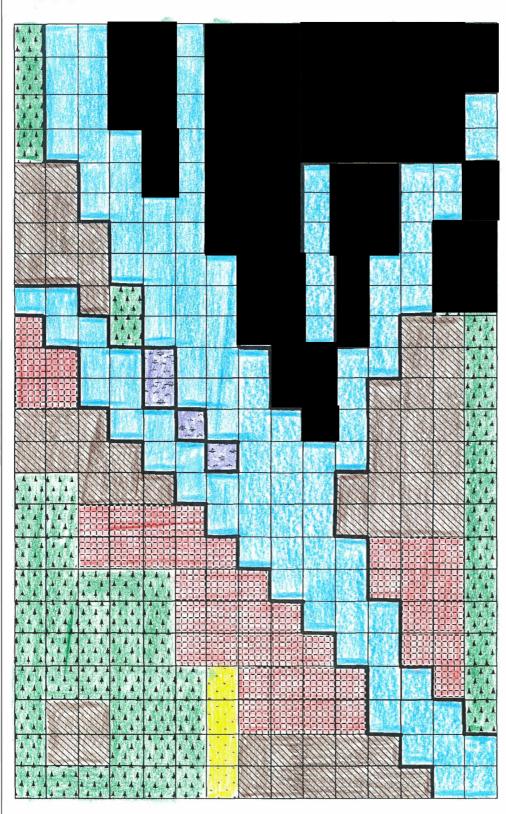
#### **KEY**





#### Map C:

Present: Post-Fire



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