## AerialWildfireSuppression Train & Test Metrics: Difficulty: 9, Task: 6 Entropy Water Drop Water Pickup **Extinguishing Trees Reward Preparing Trees Reward Preparing Trees** 100 + source source 300 300 source 0.010 training 0.005 training Value 700 training 7.5 Value Value 8.0 source source source 200 × test test training training training 0.6 test test 100 -100 0.000 0.0 0.0 1.5 0.0 1.5 0.0 1.0 1.0 1.5 1.0 1.5 0.5 1.0 1.5 0.5 1.0 0.5 1.5 0.5 1e6 1e6 1e6 1e6 1e6 1e6 Step Step Step Step Step Step Fire too Close to City **Extinguishing Trees** Fire Out Episode Length Extrinsic Value Estimate Crash Count 0.05 0.05 source source source source source 200 \alpha \frac{1}{2} \text{Value} training training training — training value 10 -9 100 source 0.00 test test test test test training test -0.05 · -0.05 -0.0 0.0 1.0 0.0 0.5 1.5 0.0 1.5 0.0 0.5 1.5 0.0 0.5 1.0 1.5 0.0 0.5 1.5 0.5 1.0 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Cumulative Reward Extrinsic Reward Policy Loss Value Loss Learning Rate Epsilon 400 -400 source source 2000.0 Aalue Value | 10000 training training Value - 002 Value 700 -Nalue - 21.0 source source source test training training training test test test 0.0000 0.0 1.5 1.5 0.5 0.0 0.5 0.0 1.5 0.0 0.5 1.0 1.5 0.5 1.0 1.5 1.0 1.0 0.5 1.0 0.0 1.5 0.0 1e6 1e6 1e6 1e6 1e6 Step Step Step Step 1e6 Step Step Beta source 0.004 Value 0.002 training

0.000 4

0.0

0.5

1.0

Step

1.5

1e6