## 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 source 300 0.010 training 0.005 training Value 700 -Value Value Value 8.0 Value source 200 × test test training training training 0.6 test 100 -100 0.000 0.0 0.0 1.5 0.0 1.5 1.5 0.0 1.0 0.5 1.0 1.5 0.5 1.0 0.5 1.0 0.5 1.5 1.0 1.5 1e6 1e6 1e6 1e6 1e6 1e6 Step Step Step Step Step Step Fire too Close to City **Extinguishing Trees** Fire Out Crash Count Episode Length Extrinsic Value Estimate 0.05 0.05 source source source source source \alpha \frac{1}{2} \text{Value} -- training training training — training value 10 -Value Value 9 100 -0.00 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 0.0 0.5 1.5 0.5 1.5 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 0.20 source 2000.0 Aalue value / 0.04 · , Value | 10000 training Value - 002 Value 700 -Nalue - 21.0 source source source --- training training training training test test test test 0.0000 0.0 0.5 1.5 1.5 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 1e6 1e6 1e6 1e6 Step Step Step Step 1e6 Step 1e6 Step Beta 0.004

source

training

0.5

1.0

Step

1.5

1e6

= 0.002

0.000 🕹

0.0