## AerialWildfireSuppression Train & Test Metrics: Difficulty: 7, Task: 5 Entropy Water Drop Water Pickup **Preparing Trees Extinguishing Trees Reward Preparing Trees Reward** 1.000 -0.05 0.05 -0.05 0.05 source source source source source — training training training training training Value Value -Value Value source 0.00 0.00 0.00 — test test — test — test training 0.950 test -0.05-0.05-0.051.5 0.0 0.5 1.5 1.0 1.5 0.0 0.0 0.5 1.5 0.5 1.5 0.5 1.0 1.5 1.0 1.0 0.0 0.5 1.0 0.0 0.5 0.0 1.0 1e6 1e6 1e6 1e6 1e6 1e6 Step Step Step Step Step Step **Extinguishing Trees** Fire Out Fire too Close to City Episode Length Crash Count Extrinsic Value Estimate 0.05 0.05 0.05 deministration of the second o source source source source training training training 0.00 $\frac{9}{8}$ 0.01 training Value on 200 source source 0.00 0.00 test test test training training test test -0.05 --0.05 0.00 -0.051.5 1.5 1.0 1.5 0.0 1.5 0.0 0.5 1.5 0.0 0.5 1.0 0.0 1.0 1.5 0.0 0.5 0.0 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** 0.20 0.06 95.0 95.0 source source source 400 <u>v</u> 0.0002 training training 9 200 -Value 92.5 92.5 -Nalue - 0.15 source source source 0.05 test test training training training - test test 0.04 90.0 90.0 0.0000 0.5 1.0 1.5 0.0 0.5 1.5 0.0 0.5 1.5 0.5 1.0 1.5 0.5 1.0 1.5 0.0 1.0 1.0 1.5 1.0 0.0 0.0 1e6 1e6 1e6 1e6 1e6 Step 1e6 Step Step Step Step Step Beta source 0.004 8 0.002 · training test 0.000

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