

# 1 TorchHydroNODES

## 1.1 Single-basin models

### 1.1.1 MLP – Euler / different time steps

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Table 1: Euler method with different time steps (*NSE* value).

Basin	Period	Time step (days)						RK23
		0.1	0.5	1.0	2.0	3.0	5.0	
01013500	train	0.949	0.946	0.948	0.929	0.802	0.632	0.934
	test	0.899	0.897	0.897	0.872	0.722	0.630	0.872
06431500	train	-0.164	0.061	0.549	-0.089	0.3745	0.200	0.248
	test	-4.192	0.338	-0.135	-3.156	-0.001	-0.135	-0.460

**params:**  $mlp=32 \times 5$ ,  $lr=1e^{-4}$ ,  $epochs=100$ ,  $batch=256$ .