

Total Pump Time	Soil Moisture	Decrease
0s	650	0
1s	628	22
2s	606	22
3s	585	21
4s	563	22
5s	542	21
6s	520	22

- Decreases: 22, 22, 21, 22, 21, 22
- Total decrease: $22 + 22 + 21 + 22 + 21 + 22 = 130$
- Number of intervals: 6
- Average decrease per second: $130 / 6 \approx 21.67$

Thus, each second of pump runtime reduces the soil moisture reading by approximately 21.67 units.