## Budworm trials Trial 1, $x_0 = 0.76$ , k = 5.85Trial 0, $x_0 = 1.00$ , k = 5.35Trial 2, $x_0 = 0.78$ , k = 7.181.00 -0.85 trajectory 0.780 $--- x_{\text{steady}} = 0.76$ 0.84 -0.95 -0.775 t=36.000.83 -0.90 -0.770 -0.82 -0.81 -0.85 0.765 -0.80 trajectory trajectory 0.760 -0.80 $x_{\text{steady}} = 0.78$ $-x_{\text{steady}} = 0.85$ 0.79 t = 26.86t=42.290.755 0.78 20 10 30 10 15 10 20 30 25 Trial 4, $x_0 = 0.96$ , k = 10.31Trial 5, $x_0 = 8.06$ , k = 11.01Trial 3, $x_0 = 0.85$ , k = 8.860.94 8.6 -0.92 trajectory - $x_{\text{steady}}$ =8.06 0.90 -8.4 t=152.000.88 trajectory trajectory 8.2 -- $x_{\text{steady}} = 0.96$ $--- x_{\text{steady}} = 8.81$ 2 -0.86 t=84.57t=24.0040 60 50 10 20 20 25 75 100 125 15 Trial 6, $x_0 = 8.81$ , k = 10.72Trial 7, $x_0 = 8.49$ , k = 9.53Trial 8, $x_0 = 7.22$ , k = 7.878.80 trajectory trajectory trajectory 8.4 7.0 $x_{\text{steady}} = 7.21$ - $x_{\text{steady}}$ =8.49 $-- x_{\text{steady}} = 5.32$ 8.75 -8.2 t = 26.29t=28.57t=38.298.70 -6.5 -8.0 -8.65 7.8 -6.0 -8.60 7.6 -8.55 7.4 -5.5 8.50 7.2 10 15 20 25 15 20 10 20 30 30 Trial 10, $x_0 = 0.81$ , k = 5.44Trial 9, $x_0 = 5.32$ , k = 6.32Trial 11, $x_0 = 0.76$ , k = 5.520.764 trajectory trajectory 5 -0.80 - $--- x_{\text{steady}} = 0.76$ $--- x_{\text{steady}} = 0.81$ t=156.57t=32.000.763 -4 -0.79 -0.762 -3 -0.78 -2 trajectory 0.761 -0.77 $-- x_{\text{steady}} = 0.76$ t=21.140.760 0.76 100 25 50 75 125 10 20 30 10 15 20 Trial 12, $x_0 = 0.76$ , k = 6.55Trial 13, $x_0 = 0.82$ , k = 8.15Trial 14, $x_0 = 0.91$ , k = 9.770.90 1.050 0.81 -1.025 0.88 0.80 1.000 -0.79 0.86 0.975 -0.78 -0.950 trajectory trajectory trajectory 0.84 - $--- x_{\text{steady}} = 0.82$ $--- x_{\text{steady}} = 0.91$ $--- x_{\text{steady}} = 1.06$ 0.77 -0.925 t=37.71t = 66.86t=225.710.82 0.900 -20 10 20 50 30 40 100 150 200 Trial 15, $x_0 = 1.06$ , k = 10.83Trial 16, $x_0 = 8.62$ , k = 10.96Trial 17, $x_0 = 8.75$ , k = 10.118.76 trajectory 8 -8.74 $--- x_{\text{steady}} = 7.85$ 8.6 t=26.868.72 trajectory 8.4 -8.70 - $--- x_{\text{steady}} = 8.62$ 8.68 t=88.578.2 -8.66 trajectory 8.0 $x_{\text{steady}} = 8.75$ 8.64 -2 t=18.298.62 20 40 10 10 60 80 15 15 20 Trial 18, $x_0 = 7.85$ , k = 8.58Trial 19, $x_0 = 6.16$ , k = 6.91Trial 20, $x_0 = 4.03$ , k = 5.704.0 - trajectory trajectory trajectory 7.75 -6.0 - $--- x_{\text{steady}} = 0.77$ $--- x_{\text{steady}} = 6.16$ $--- x_{\text{steady}} = 4.03$ 3.5 -7.50 t=34.29t=66.86t=74.295.5 -3.0 -7.25 -2.5 -7.00 -5.0 -2.0 -6.75 4.5 -1.5 -6.50 -1.0 6.25 4.0 0 10 20 20 0 20 60 30 0 40 60 40