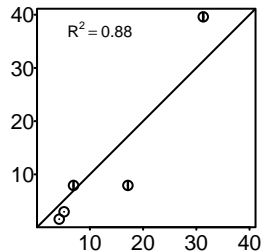


**Holling.Type.I**

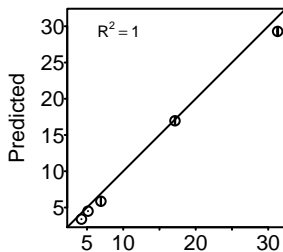


Observed

LL = -191.4

AIC = 384.8

**Holling.Type.II**

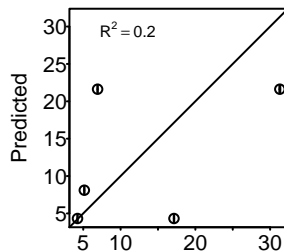


Observed

LL = -122.5

AIC = 249

**Salt\_1974  
Ratio**

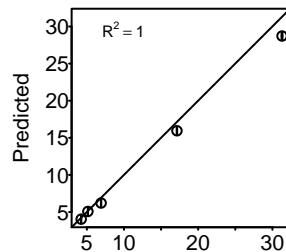


Observed

LL = -303.5

AIC = 608.9

**Arditi.Akcakaya**

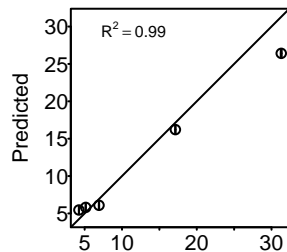


Observed

LL = -121

AIC = 248.1

**Beddington.DeAngel**



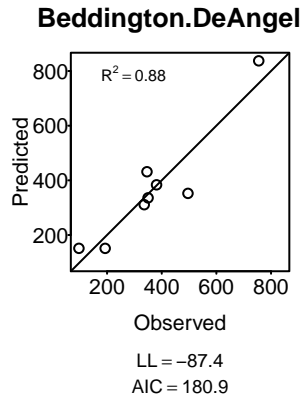
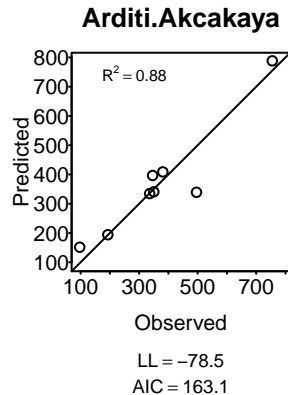
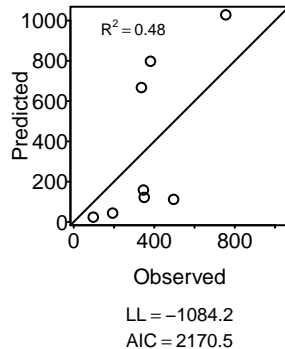
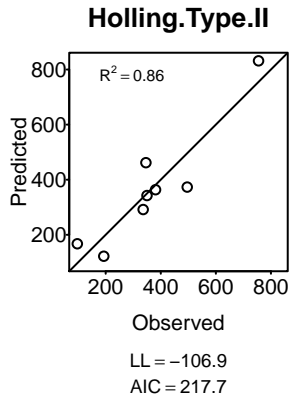
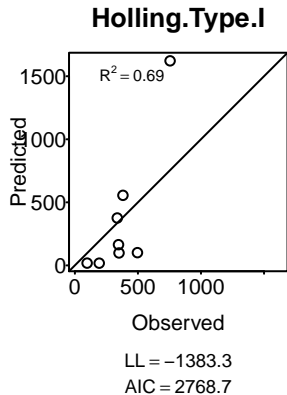
Observed

LL = -124.7

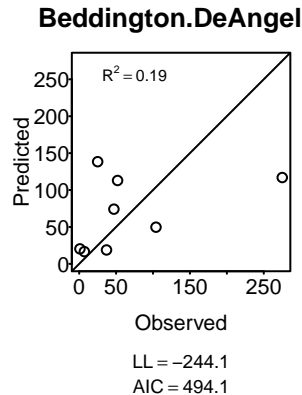
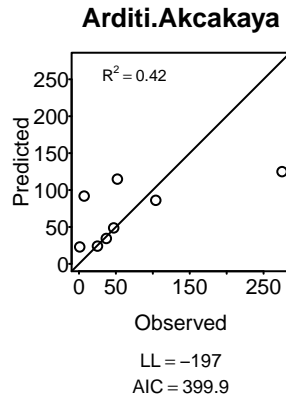
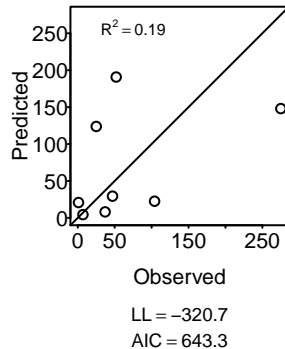
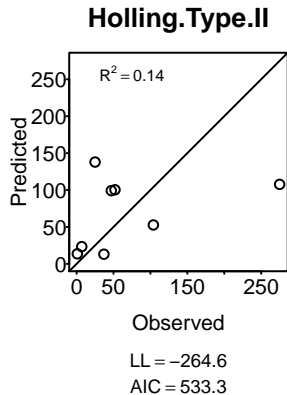
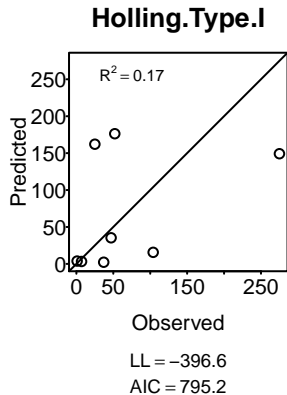
AIC = 255.4



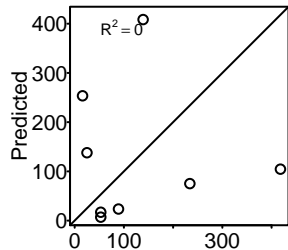
## Blowes\_2017 Ratio



## Blowes\_2017 Ratio



**Holling.Type.I**

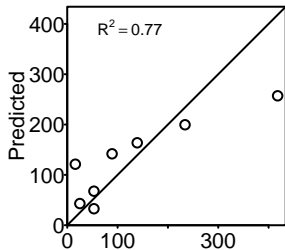


Observed

LL = -919.3

AIC = 1840.5

**Holling.Type.II**

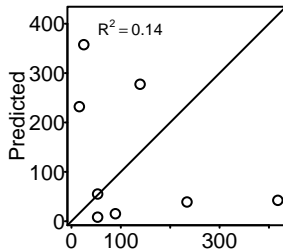


Observed

LL = -167.4

AIC = 338.9

**Blowes\_2017  
Ratio**

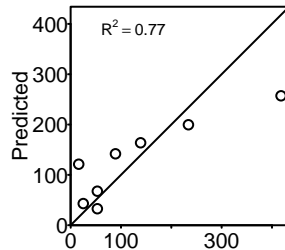


Observed

LL = -1449.3

AIC = 2900.6

**Arditi.Akcakaya**

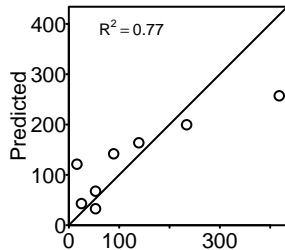


Observed

LL = -167.4

AIC = 340.9

**Beddington.DeAngel**



Observed

LL = -167.4

AIC = 340.9

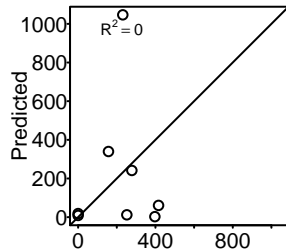
## Blowes\_2017 Ratio

### Holling.Type.I

### Holling.Type.II

### Arditi.Akcakaya

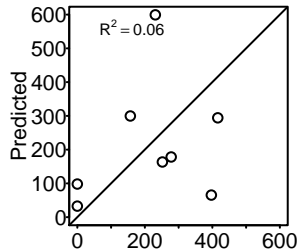
### Beddington.DeAngel



Observed

LL = -3145

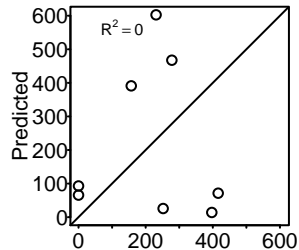
AIC = 6291.9



Observed

LL = -793.5

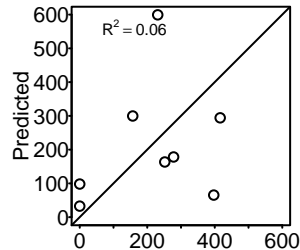
AIC = 1590.9



Observed

LL = -2151.6

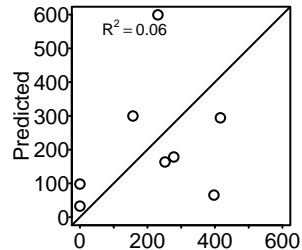
AIC = 4305.1



Observed

LL = -793.5

AIC = 1592.9

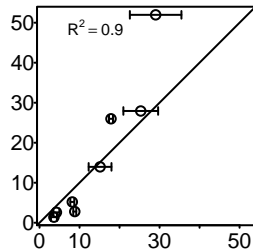


Observed

LL = -793.5

AIC = 1592.9

**Holling.Type.I**

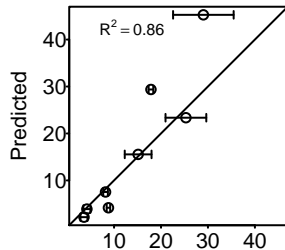


Observed

LL = -138.8

AIC = 279.6

**Holling.Type.II**

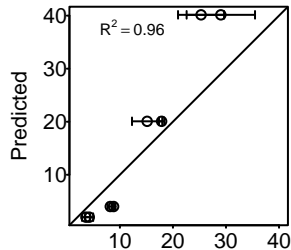


Observed

LL = -129.2

AIC = 262.5

**Griffen\_2007  
Ratio**

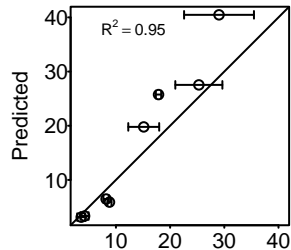


Observed

LL = -140.9

AIC = 283.7

**Arditi.Akcakaya**

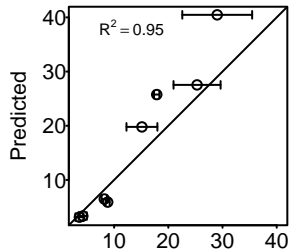


Observed

LL = -119.3

AIC = 244.5

**Beddington.DeAngel**

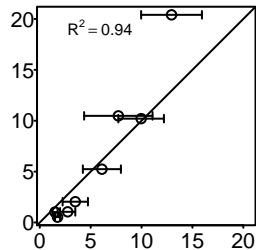


Observed

LL = -119.3

AIC = 244.5

**Holling.Type.I**

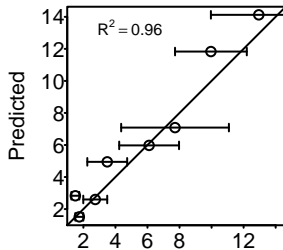


Observed

LL = -114.5

AIC = 231

**Holling.Type.II**

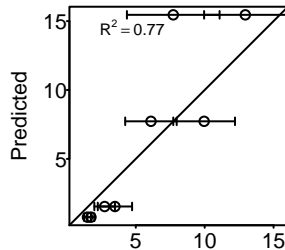


Observed

LL = -84.5

AIC = 173

**Griffen\_2007  
Ratio**

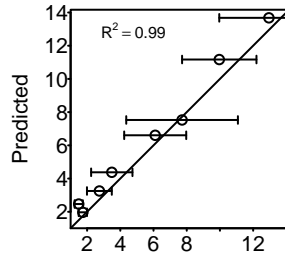


Observed

LL = -121.9

AIC = 245.9

**Arditi.Akcakaya**

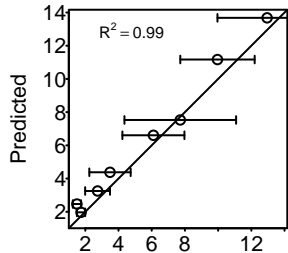


Observed

LL = -83.2

AIC = 172.4

**Beddington.DeAngel**



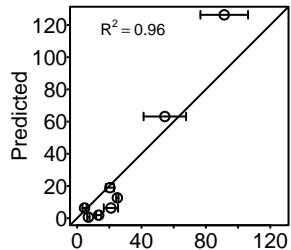
Observed

LL = -83.2

AIC = 172.4



**Holling.Type.I**

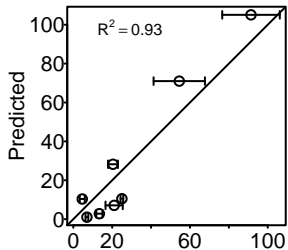


Observed

LL = -367.1

AIC = 736.2

**Holling.Type.II**

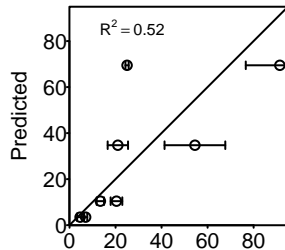


Observed

LL = -337.3

AIC = 678.7

**Huffaker\_1982  
Ratio**

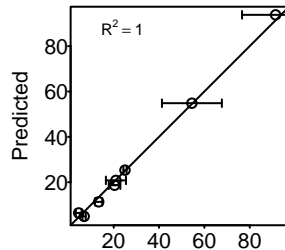


Observed

LL = -343.2

AIC = 688.4

**Arditi.Akcakaya**

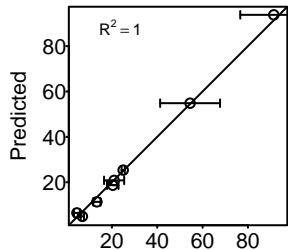


Observed

LL = -175.5

AIC = 357.1

**Beddington.DeAngel**

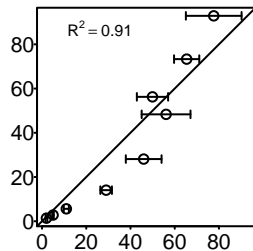


Observed

LL = -175.5

AIC = 357.1

**Holling.Type.I**

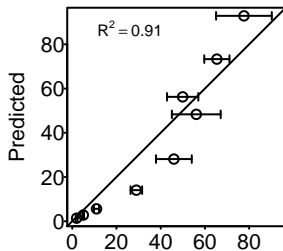


Observed

LL = -1223.6

AIC = 2449.1

**Holling.Type.II**

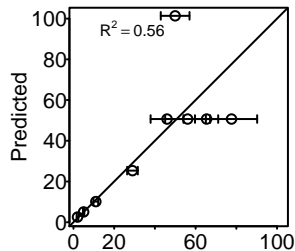


Observed

LL = -1223.6

AIC = 2451.1

**Kumar\_1985  
Ratio**

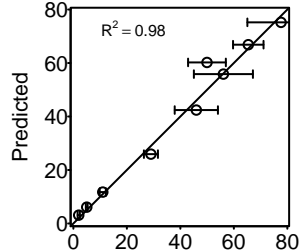


Observed

LL = -1253.3

AIC = 2508.6

**Arditi.Akcakaya**

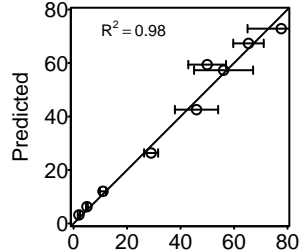


Observed

LL = -864.9

AIC = 1735.8

**Beddington.DeAngel**

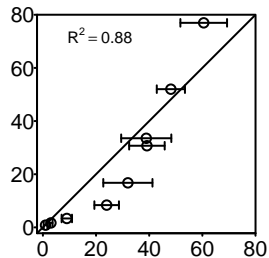


Observed

LL = -874.2

AIC = 1754.4

**Holling.Type.I**

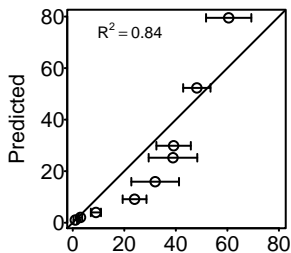


Observed

LL = -1110.8

AIC = 2223.5

**Holling.Type.II**

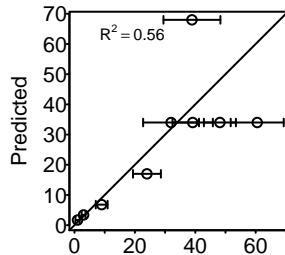


Observed

LL = -1092.8

AIC = 2189.7

**Kumar\_1985  
Ratio**

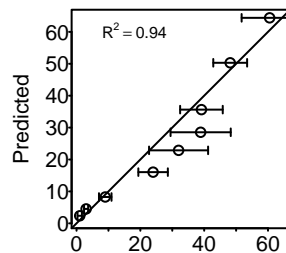


Observed

LL = -1414.6

AIC = 2831.3

**Arditi.Akcakaya**

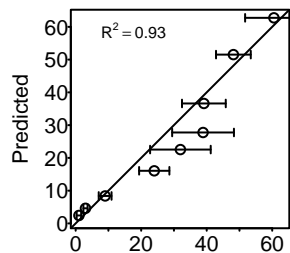


Observed

LL = -923.9

AIC = 1853.7

**Beddington.DeAngel**

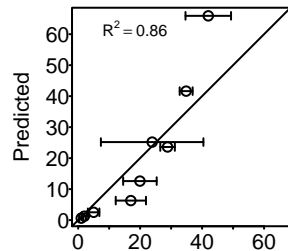


Observed

LL = -931.5

AIC = 1868.9

**Holling.Type.I**

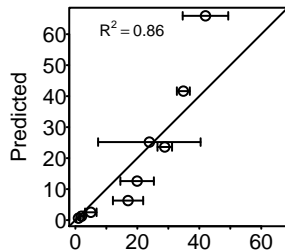


Observed

LL = -1289.9

AIC = 2581.8

**Holling.Type.II**

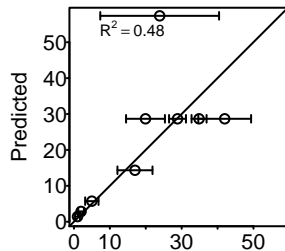


Observed

LL = -1289.9

AIC = 2583.8

**Kumar\_1985  
Ratio**

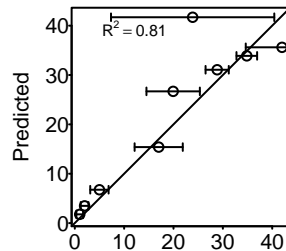


Observed

LL = -888.7

AIC = 1779.3

**Arditi.Akcakaya**

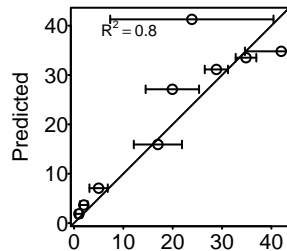


Observed

LL = -835.7

AIC = 1677.5

**Beddington.DeAngel**

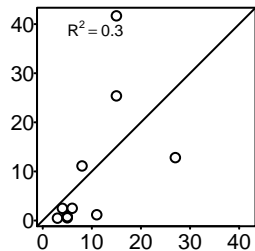


Observed

LL = -835.6

AIC = 1677.2

**Holling.Type.I**

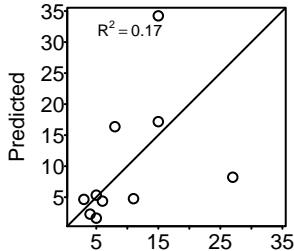


Observed

LL = -71.2

AIC = 144.5

**Holling.Type.II**

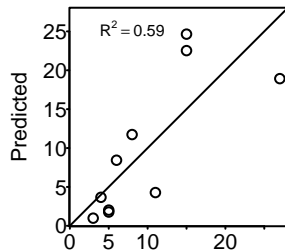


Observed

LL = -49

AIC = 102

**Chan\_2017  
Ratio**

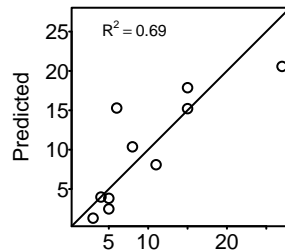


Observed

LL = -34.4

AIC = 70.8

**Arditi.Akcakaya**

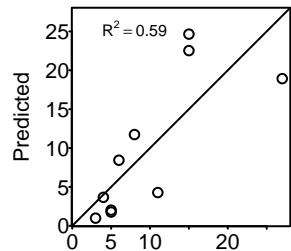


Observed

LL = -27.2

AIC = 60.4

**Beddington.DeAngel**

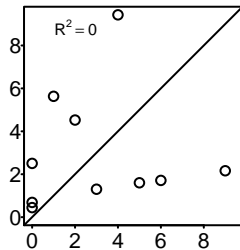


Observed

LL = -34.4

AIC = 74.8

**Holling.Type.I**

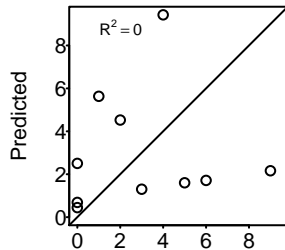


Observed

LL = -32.8

AIC = 67.6

**Holling.Type.II**

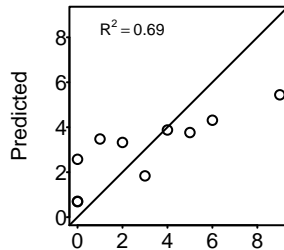


Observed

LL = -32.8

AIC = 69.6

**Chan\_2017  
Ratio**

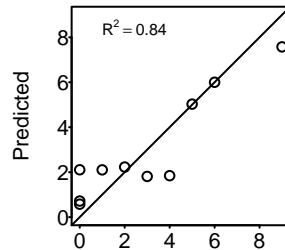


Observed

LL = -18.3

AIC = 38.6

**Arditi.Akcakaya**

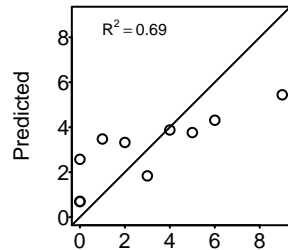


Observed

LL = -16.2

AIC = 38.4

**Beddington.DeAngel**

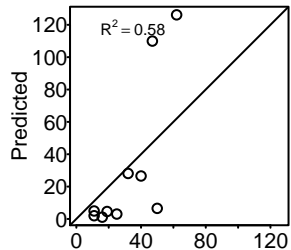


Observed

LL = -18.3

AIC = 42.6

**Holling.Type.I**

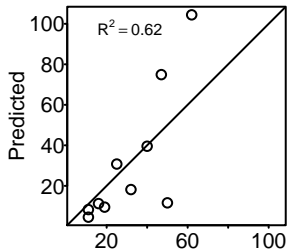


Observed

LL = -213.9

AIC = 429.7

**Holling.Type.II**

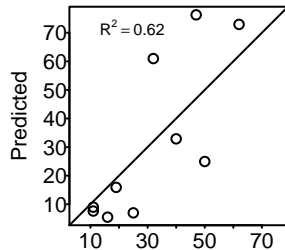


Observed

LL = -89.4

AIC = 182.8

**Chan\_2017  
Ratio**

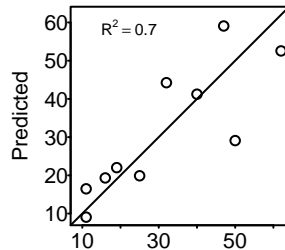


Observed

LL = -73.4

AIC = 148.7

**Arditi.Akcakaya**

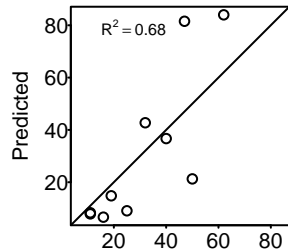


Observed

LL = -38.2

AIC = 82.3

**Beddington.DeAngel**

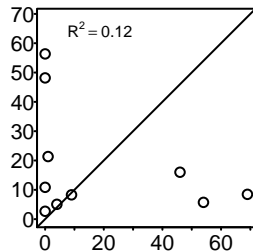


Observed

LL = -68.6

AIC = 143.2

**Holling.Type.I**

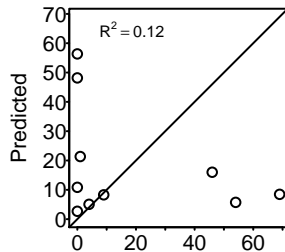


Observed

LL = -324.7

AIC = 651.4

**Holling.Type.II**

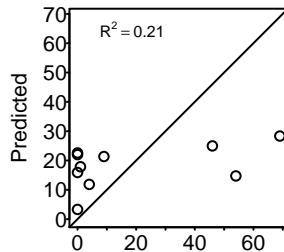


Observed

LL = -324.7

AIC = 653.4

**Chan\_2017  
Ratio**

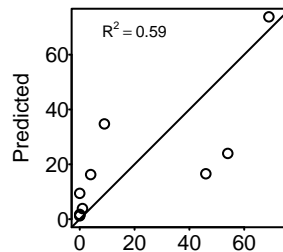


Observed

LL = -158

AIC = 318

**Arditi.Akcakaya**

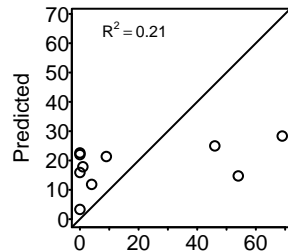


Observed

LL = -80.6

AIC = 167.1

**Beddington.DeAngel**



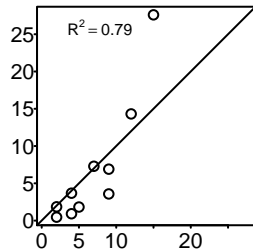
Observed

LL = -158

AIC = 322



**Holling.Type.I**

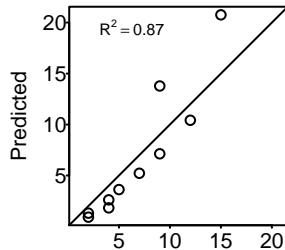


Observed

LL = -31.6

AIC = 65.2

**Holling.Type.II**

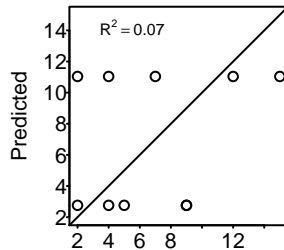


Observed

LL = -22.7

AIC = 49.5

**Vahl\_2005  
Ratio**

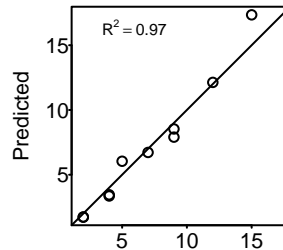


Observed

LL = -39

AIC = 80

**Arditi.Akcakaya**

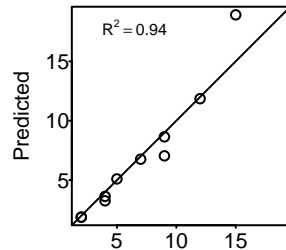


Observed

LL = -18.2

AIC = 42.3

**Beddington.DeAngel**

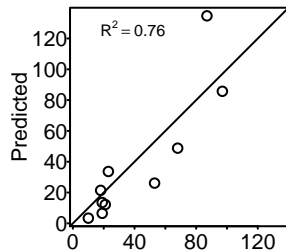


Observed

LL = -18.5

AIC = 43

**Holling.Type.I**

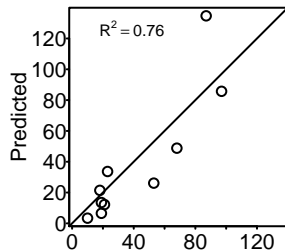


Observed

LL = -91.6

AIC = 185.2

**Holling.Type.II**

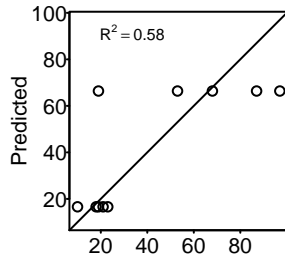


Observed

LL = -91.6

AIC = 187.2

**Vahl\_2005  
Ratio**

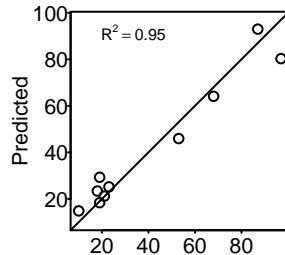


Observed

LL = -77.3

AIC = 156.5

**Arditi.Akcakaya**

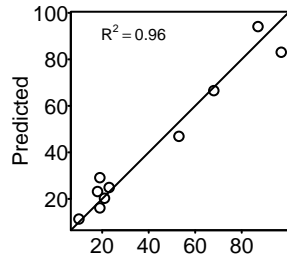


Observed

LL = -33.3

AIC = 72.7

**Beddington.DeAngel**

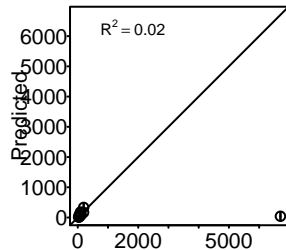


Observed

LL = -31.3

AIC = 68.7

**Holling.Type.I**

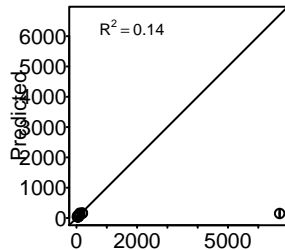


Observed

LL = -3947.9

AIC = 7897.8

**Holling.Type.II**

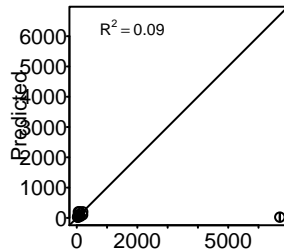


Observed

LL = -1016.3

AIC = 2036.6

**Kfir\_1983  
Ratio**

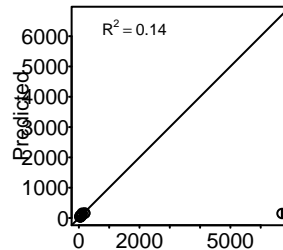


Observed

LL = -6036.5

AIC = 12075.1

**Arditi.Akcakaya**

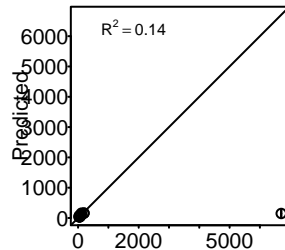


Observed

LL = -1016.3

AIC = 2038.6

**Beddington.DeAngel**

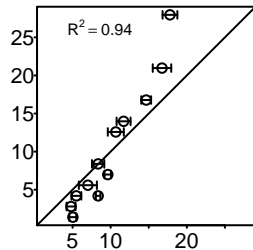


Observed

LL = -1016.3

AIC = 2038.6

**Holling.Type.I**

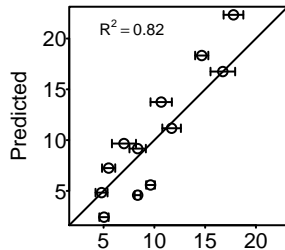


Observed

LL = -194.3

AIC = 390.7

**Holling.Type.II**

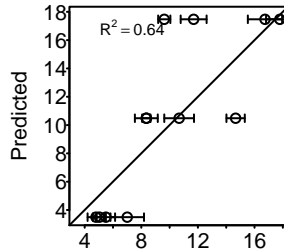


Observed

LL = -172.5

AIC = 349

**Walde\_1984  
Ratio**

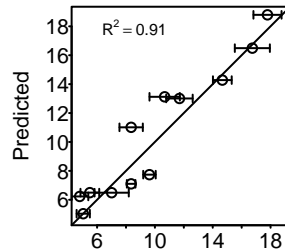


Observed

LL = -197.1

AIC = 396.2

**Arditi.Akcakaya**

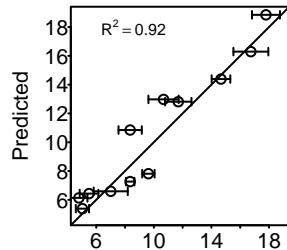


Observed

LL = -152.4

AIC = 310.7

**Beddington.DeAngel**

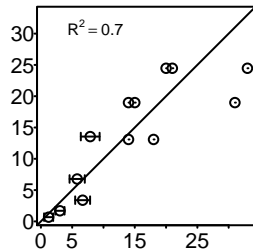


Observed

LL = -152.2

AIC = 310.3

**Holling.Type.I**

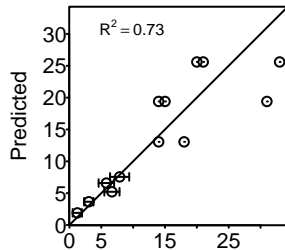


Observed

LL = -97.2

AIC = 196.4

**Holling.Type.II**

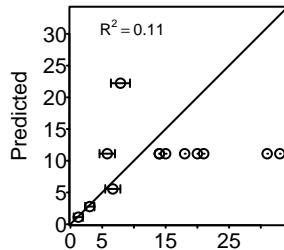


Observed

LL = -78.9

AIC = 161.7

**Krylov\_1992i  
Ratio**

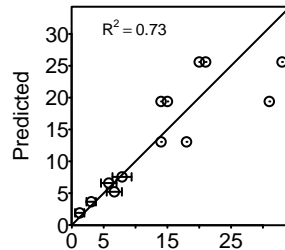


Observed

LL = -156.6

AIC = 315.3

**Arditi.Akcakaya**

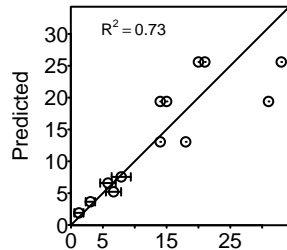


Observed

LL = -78.9

AIC = 163.7

**Beddington.DeAngel**

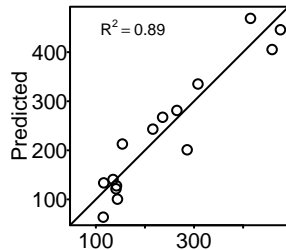


Observed

LL = -78.9

AIC = 163.7

**Holling.Type.I**

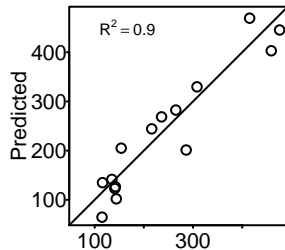


Observed

LL = -324.3

AIC = 650.7

**Holling.Type.II**

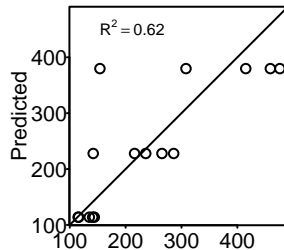


Observed

LL = -323.4

AIC = 650.9

**Chant\_1966  
Ratio**

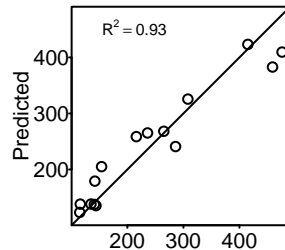


Observed

LL = -576.6

AIC = 1155.2

**Arditi.Akcakaya**

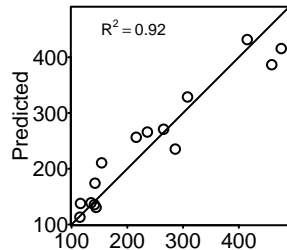


Observed

LL = -225.1

AIC = 456.2

**Beddington.DeAngel**

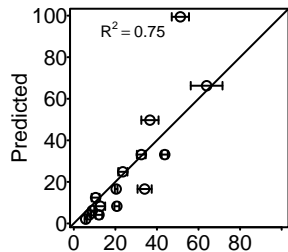


Observed

LL = -225.1

AIC = 456.2

**Holling.Type.I**

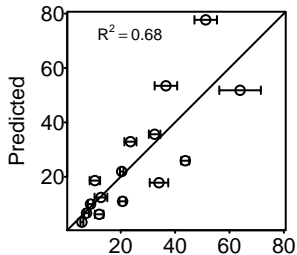


Observed

LL = -380.1

AIC = 762.2

**Holling.Type.II**

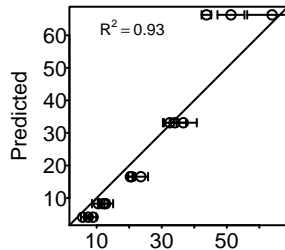


Observed

LL = -331.6

AIC = 667.2

**Crowley\_1989  
Ratio**

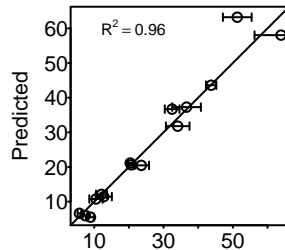


Observed

LL = -268.7

AIC = 539.3

**Arditi.Akcakaya**

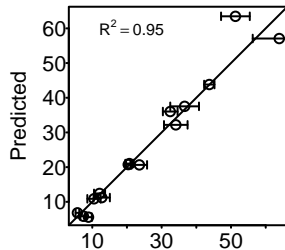


Observed

LL = -229.9

AIC = 465.7

**Beddington.DeAngel**

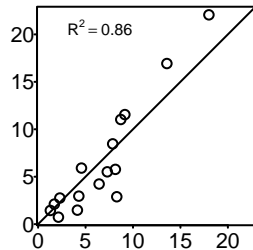


Observed

LL = -229.3

AIC = 464.6

**Holling.Type.I**

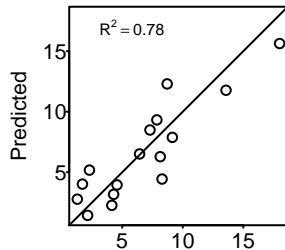


Observed

LL = -46.5

AIC = 94.9

**Holling.Type.II**

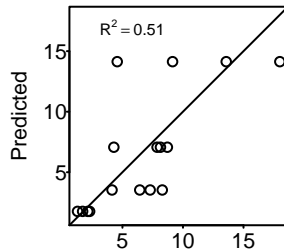


Observed

LL = -37.6

AIC = 79.2

**Katz\_1985  
Ratio**

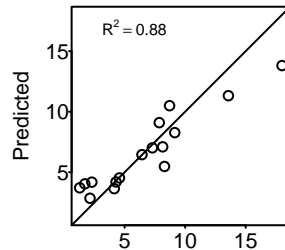


Observed

LL = -56

AIC = 114

**Arditi.Akcakaya**

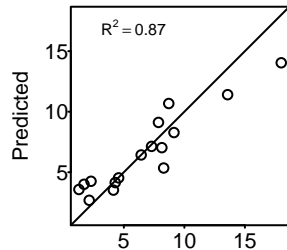


Observed

LL = -35.9

AIC = 77.7

**Beddington.DeAngel**



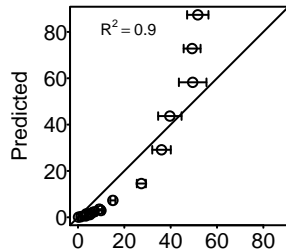
Observed

LL = -35.9

AIC = 77.8



**Holling.Type.I**

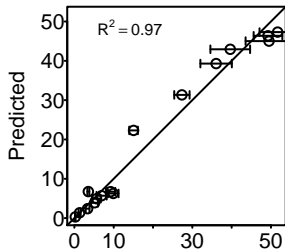


Observed

LL = -4321.5

AIC = 8645.1

**Holling.Type.II**

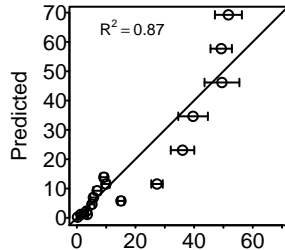


Observed

LL = -2822.7

AIC = 5649.4

**Montoya\_2000  
Ratio**

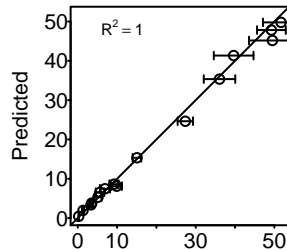


Observed

LL = -3232.8

AIC = 6467.6

**Arditi.Akcakaya**

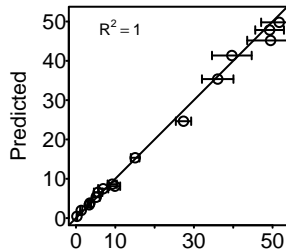


Observed

LL = -2687.9

AIC = 5381.9

**Beddington.DeAngel**

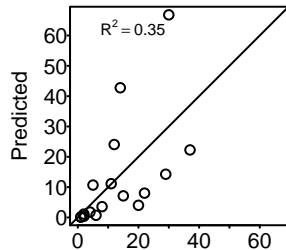


Observed

LL = -2687.9

AIC = 5381.9

**Holling.Type.I**

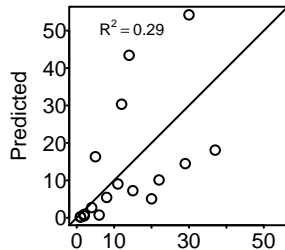


Observed

LL = -117.3

AIC = 236.6

**Holling.Type.II**

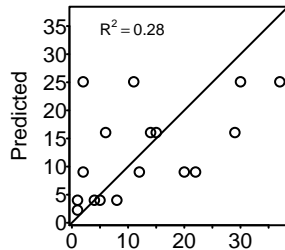


Observed

LL = -111.9

AIC = 227.9

**Edwards\_1961  
Ratio**

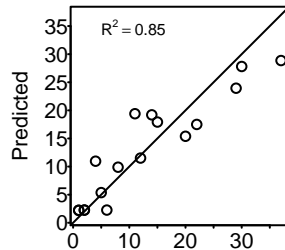


Observed

LL = -87.7

AIC = 177.3

**Arditi.Akcakaya**

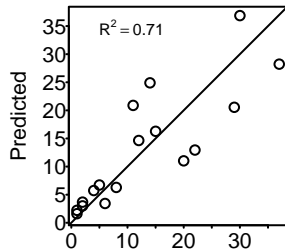


Observed

LL = -45.6

AIC = 97.1

**Beddington.DeAngel**

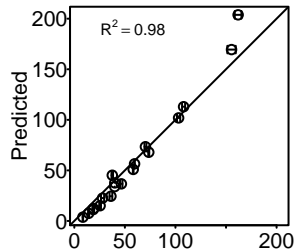


Observed

LL = -51.2

AIC = 108.4

**Holling.Type.I**

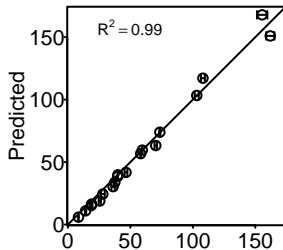


Observed

LL = -688.5

AIC = 1379.1

**Holling.Type.II**

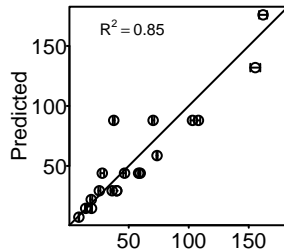


Observed

LL = -406.7

AIC = 817.4

**Eveleigh\_1982  
Ratio**

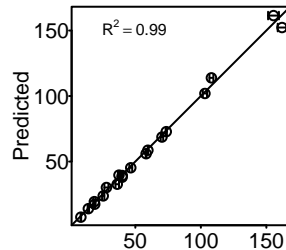


Observed

LL = -1195.6

AIC = 2393.2

**Arditi.Akcakaya**

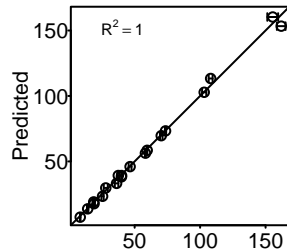


Observed

LL = -330

AIC = 666

**Beddington.DeAngel**

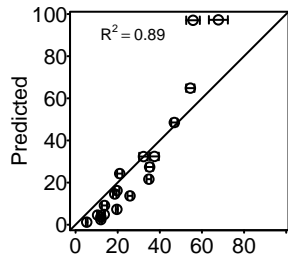


Observed

LL = -321.7

AIC = 649.5

**Holling.Type.I**

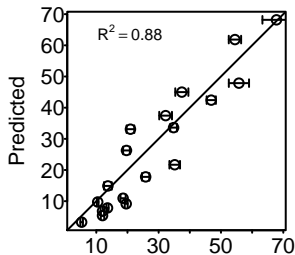


Observed

LL = -982.5

AIC = 1966.9

**Holling.Type.II**

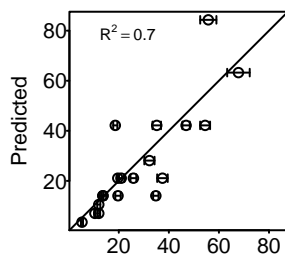


Observed

LL = -606.1

AIC = 1216.2

**Eveleigh\_1982  
Ratio**

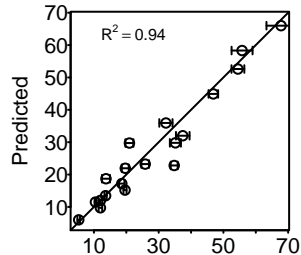


Observed

LL = -687.3

AIC = 1376.6

**Arditi.Akcakaya**

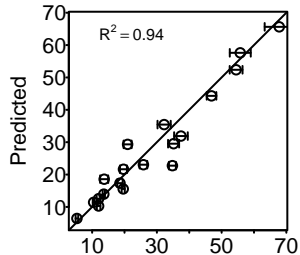


Observed

LL = -427.4

AIC = 860.7

**Beddington.DeAngel**

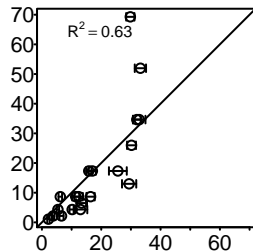


Observed

LL = -424

AIC = 854.1

**Holling.Type.I**

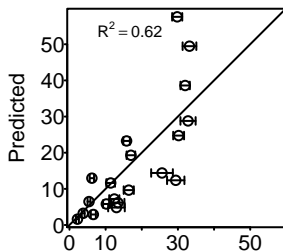


Observed

LL = -518.1

AIC = 1038.2

**Holling.Type.II**

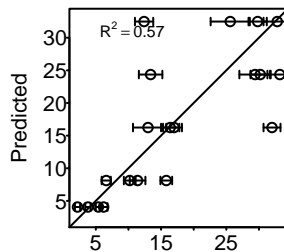


Observed

LL = -485.2

AIC = 974.3

**Hassan\_1976  
Ratio**

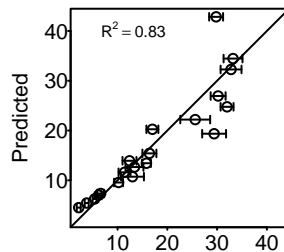


Observed

LL = -457.6

AIC = 917.2

**Arditi.Akcakaya**

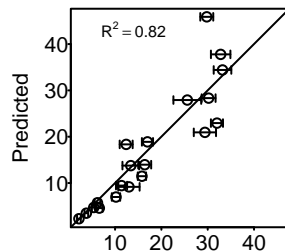


Observed

LL = -340.4

AIC = 686.7

**Beddington.DeAngel**

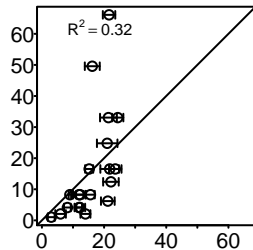


Observed

LL = -363.2

AIC = 732.3

**Holling.Type.I**

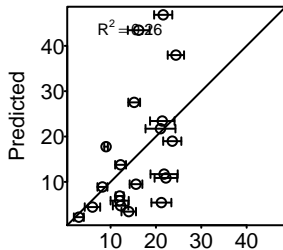


Observed

LL = -835.4

AIC = 1672.8

**Holling.Type.II**

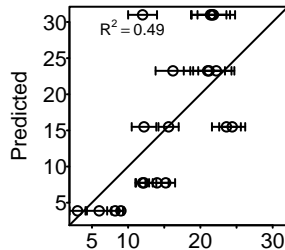


Observed

LL = -726.9

AIC = 1457.9

**Hassan\_1976  
Ratio**

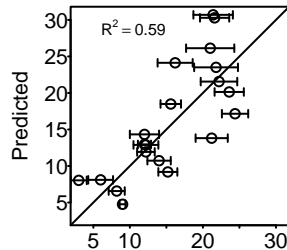


Observed

LL = -482.2

AIC = 966.5

**Arditi.Akcakaya**

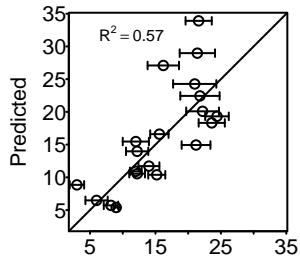


Observed

LL = -397.4

AIC = 800.8

**Beddington.DeAngel**

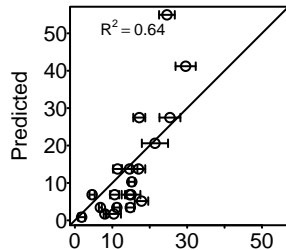


Observed

LL = -405.4

AIC = 816.7

**Holling.Type.I**

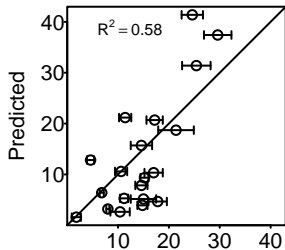


Observed

LL = -679.5

AIC = 1361

**Holling.Type.II**

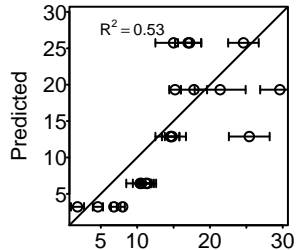


Observed

LL = -618.1

AIC = 1240.2

**Hassan\_1976  
Ratio**

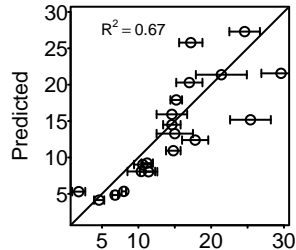


Observed

LL = -409.1

AIC = 820.2

**Arditi.Akcakaya**

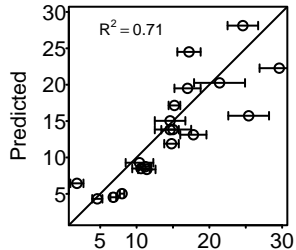


Observed

LL = -360.8

AIC = 727.5

**Beddington.DeAngel**



Observed

LL = -356.8

AIC = 719.6

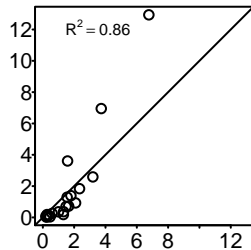
**vonWesternhagen\_19**  
**Ratio**

**Holling.Type.I**

**Holling.Type.II**

**Arditi.Akcakaya**

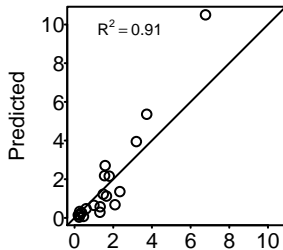
**Beddington.DeAngel**



Observed

LL = -31.1

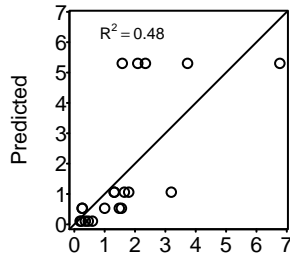
AIC = 64.3



Observed

LL = -28.2

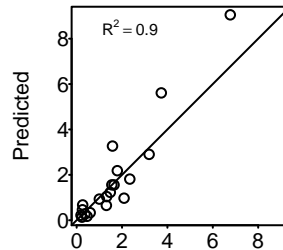
AIC = 60.3



Observed

LL = -35.7

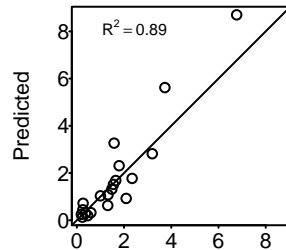
AIC = 73.3



Observed

LL = -26

AIC = 58



Observed

LL = -26.2

AIC = 58.4



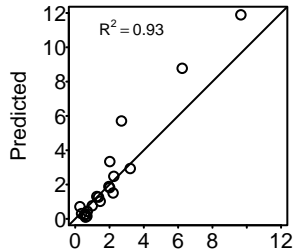
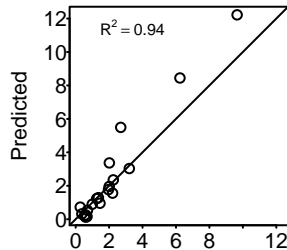
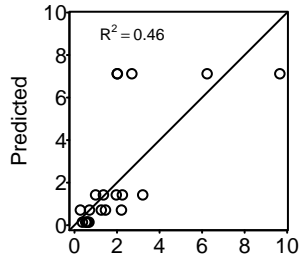
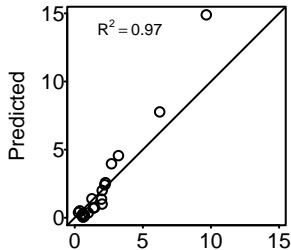
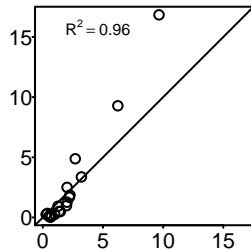
**vonWesternhagen\_19**  
**Ratio**

**Holling.Type.I**

**Holling.Type.II**

**Arditi.Akcakaya**

**Beddington.DeAngel**



Observed

Observed

Observed

Observed

Observed

LL = -30.9

LL = -29.3

LL = -34.1

LL = -26.3

LL = -26.1

AIC = 63.9

AIC = 62.6

AIC = 70.1

AIC = 58.5

AIC = 58.3

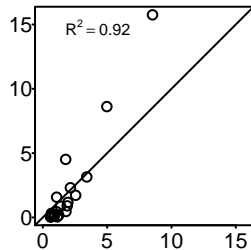
**vonWesternhagen\_19**  
**Ratio**

**Holling.Type.I**

**Holling.Type.II**

**Arditi.Akcakaya**

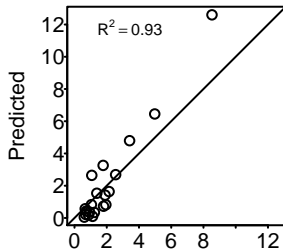
**Beddington.DeAngel**



Observed

LL = -42.9

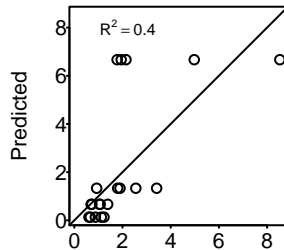
AIC = 87.7



Observed

LL = -39

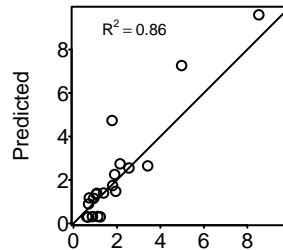
AIC = 81.9



Observed

LL = -38.4

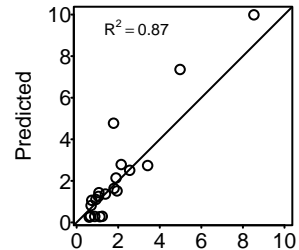
AIC = 78.9



Observed

LL = -32.2

AIC = 70.4

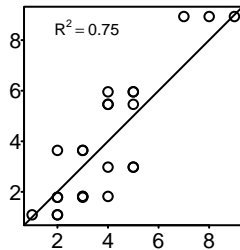


Observed

LL = -32.3

AIC = 70.5

**Holling.Type.I**

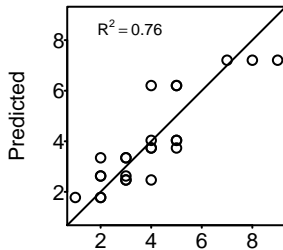


Observed

LL = -40.1

AIC = 82.1

**Holling.Type.II**

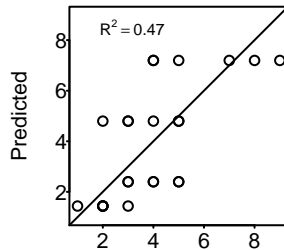


Observed

LL = -33.3

AIC = 70.6

**Stier\_2013  
Ratio**

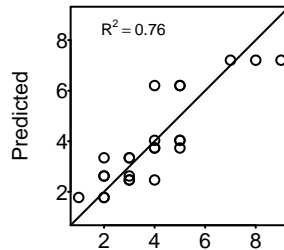


Observed

LL = -45.5

AIC = 92.9

**Arditi.Akcakaya**

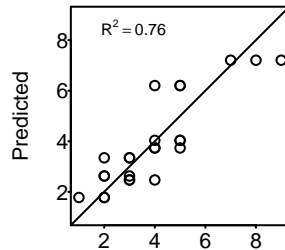


Observed

LL = -33.3

AIC = 72.6

**Beddington.DeAngel**

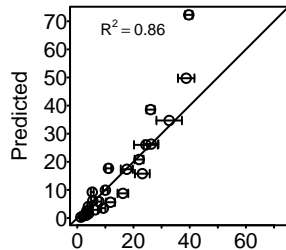


Observed

LL = -33.3

AIC = 72.6

**Holling.Type.I**

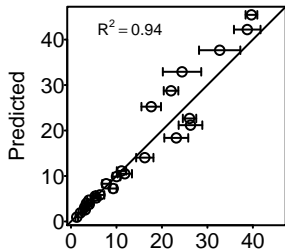


Observed

LL = -1068.8

AIC = 2139.7

**Holling.Type.II**

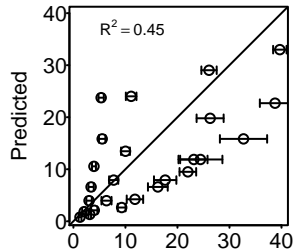


Observed

LL = -741.4

AIC = 1486.9

**Uttley\_1980  
Ratio**

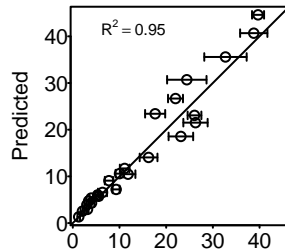


Observed

LL = -1596.5

AIC = 3195

**Arditi.Akcakaya**

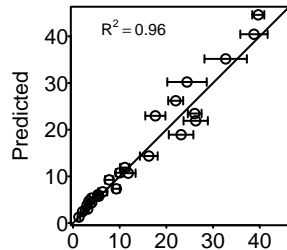


Observed

LL = -726.4

AIC = 1458.9

**Beddington.DeAngel**

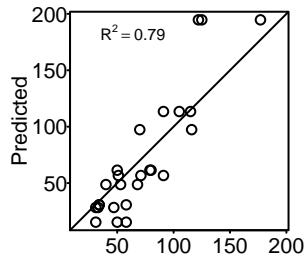


Observed

LL = -717.5

AIC = 1441

**Holling.Type.I**

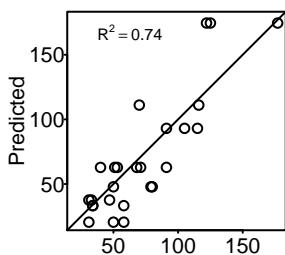


Observed

LL = -282.2

AIC = 566.4

**Holling.Type.II**

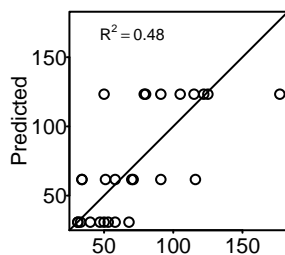


Observed

LL = -236.4

AIC = 476.7

**Reeve\_1997  
Ratio**

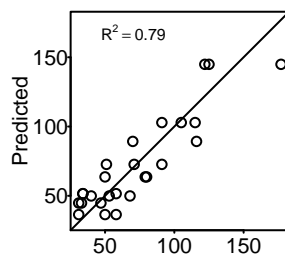


Observed

LL = -293.7

AIC = 589.5

**Arditi.Akcakaya**

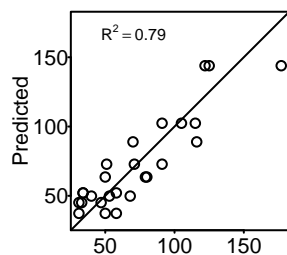


Observed

LL = -149.9

AIC = 305.9

**Beddington.DeAngel**

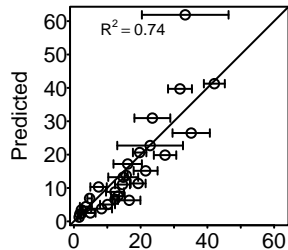


Observed

LL = -149.7

AIC = 305.3

**Holling.Type.I**

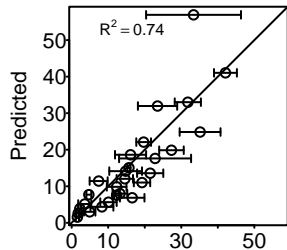


Observed

LL = -767.3

AIC = 1536.7

**Holling.Type.II**

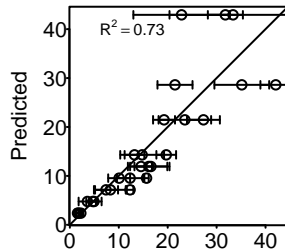


Observed

LL = -746.1

AIC = 1496.1

**Griffen\_2007  
Ratio**

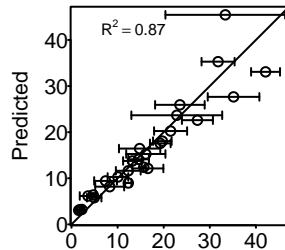


Observed

LL = -713.9

AIC = 1429.8

**Arditi.Akcakaya**

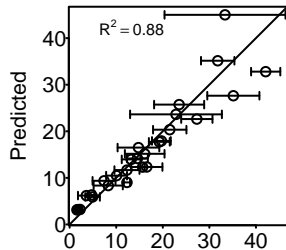


Observed

LL = -617.8

AIC = 1241.7

**Beddington.DeAngel**

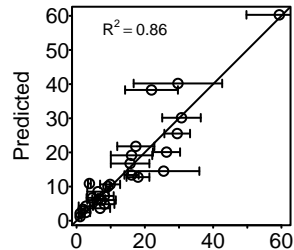


Observed

LL = -617.8

AIC = 1241.6

**Holling.Type.I**

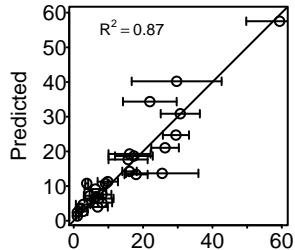


Observed

LL = -809.6

AIC = 1621.2

**Holling.Type.II**

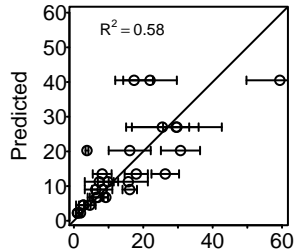


Observed

LL = -802.6

AIC = 1609.3

**Griffen\_2007  
Ratio**

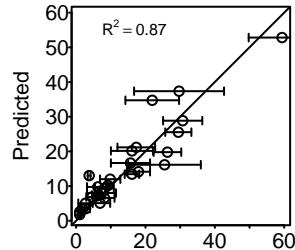


Observed

LL = -949.5

AIC = 1900.9

**Arditi.Akcakaya**

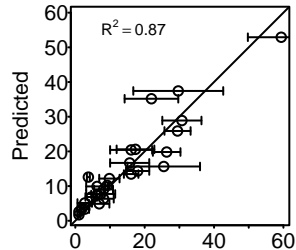


Observed

LL = -788.2

AIC = 1582.4

**Beddington.DeAngel**

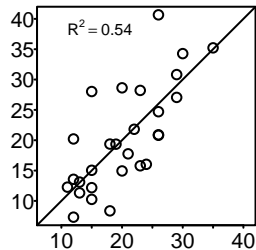


Observed

LL = -791.8

AIC = 1589.5

**Holling.Type.I**

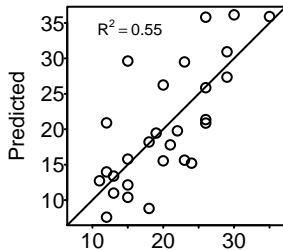


Observed

LL = -90.7

AIC = 183.4

**Holling.Type.II**

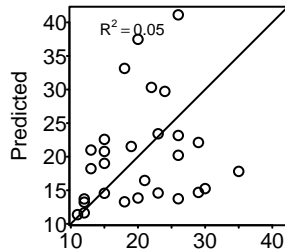


Observed

LL = -89.8

AIC = 183.6

**Vucetich\_2002  
Ratio**

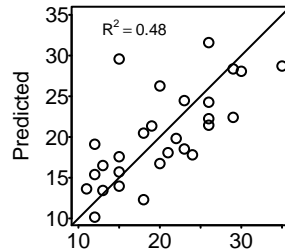


Observed

LL = -115.4

AIC = 232.7

**Arditi.Akcakaya**

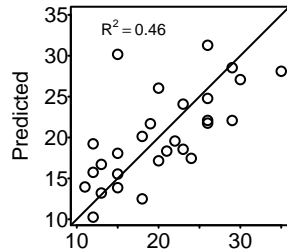


Observed

LL = -82

AIC = 170.1

**Beddington.DeAngel**



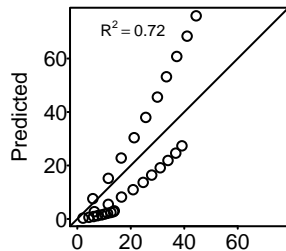
Observed

LL = -82.7

AIC = 171.4



**Holling.Type.I**

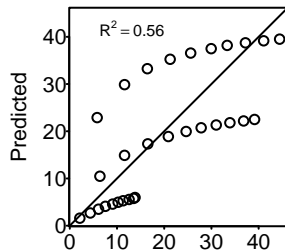


Observed

LL = -221.3

AIC = 444.6

**Holling.Type.II**

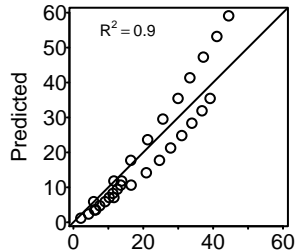


Observed

LL = -144.3

AIC = 292.6

**Elliot\_2003  
Ratio**

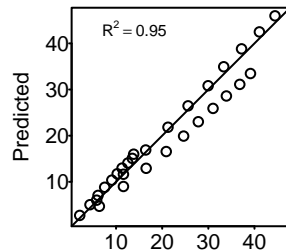


Observed

LL = -98.3

AIC = 198.5

**Arditi.Akcakaya**

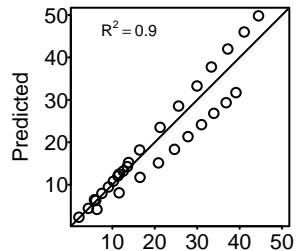


Observed

LL = -82.6

AIC = 171.3

**Beddington.DeAngel**

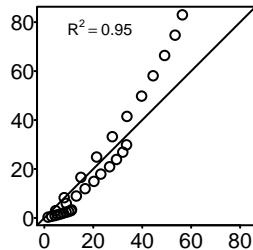


Observed

LL = -87.8

AIC = 181.7

**Holling.Type.I**

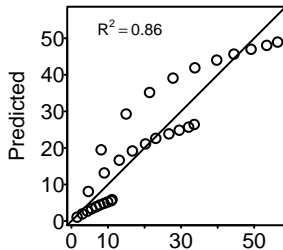


Observed

LL = -148.1

AIC = 298.3

**Holling.Type.II**

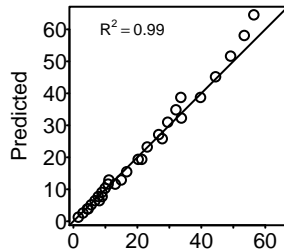


Observed

LL = -100.5

AIC = 205.1

**Elliot\_2003  
Ratio**

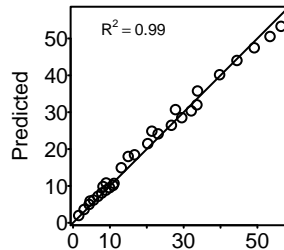


Observed

LL = -86.7

AIC = 175.3

**Arditi.Akcakaya**

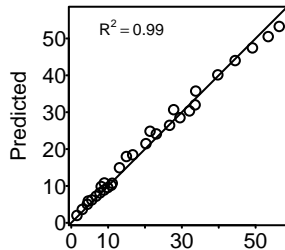


Observed

LL = -78.1

AIC = 162.2

**Beddington.DeAngel**

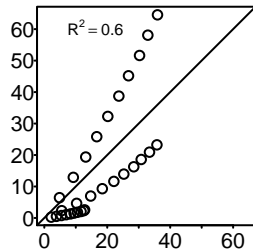


Observed

LL = -78.1

AIC = 162.2

**Holling.Type.I**

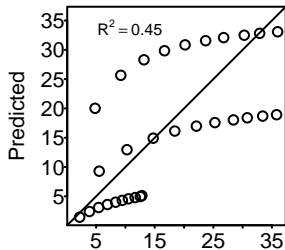


Observed

LL = -210.4

AIC = 422.9

**Holling.Type.II**

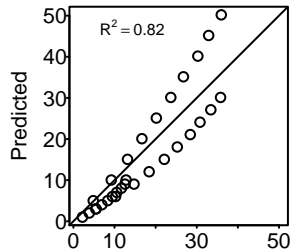


Observed

LL = -136.1

AIC = 276.2

**Elliot\_2003  
Ratio**

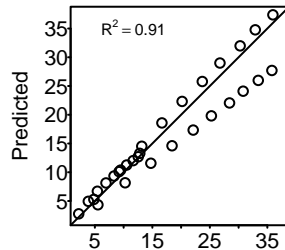


Observed

LL = -99.7

AIC = 201.5

**Arditi.Akcakaya**

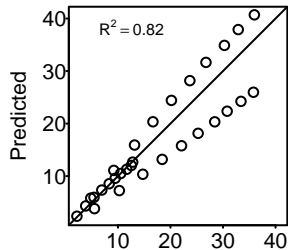


Observed

LL = -82.2

AIC = 170.4

**Beddington.DeAngel**

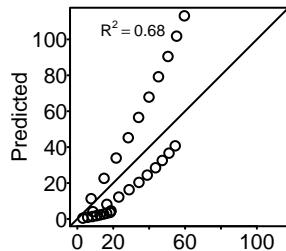


Observed

LL = -87.3

AIC = 180.6

**Holling.Type.I**

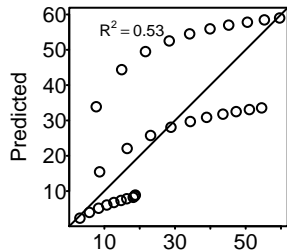


Observed

LL = -298.1

AIC = 598.2

**Holling.Type.II**

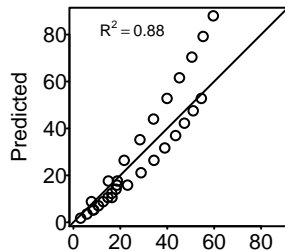


Observed

LL = -185.7

AIC = 375.3

**Elliot\_2003  
Ratio**

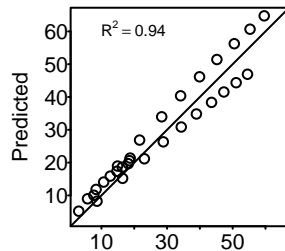


Observed

LL = -125.4

AIC = 252.9

**Arditi.Akcakaya**

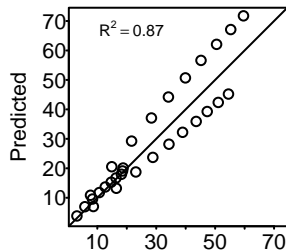


Observed

LL = -100.6

AIC = 207.3

**Beddington.DeAngel**

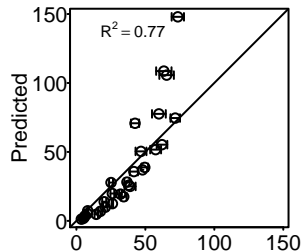


Observed

LL = -110.4

AIC = 226.8

**Holling.Type.I**

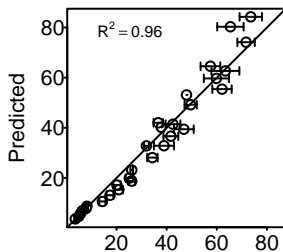


Observed

LL = -1295.8

AIC = 2593.5

**Holling.Type.II**

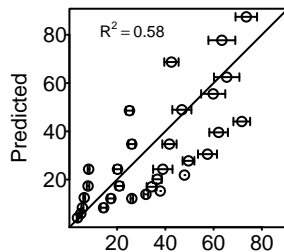


Observed

LL = -622.8

AIC = 1249.7

**Uttley\_1980  
Ratio**

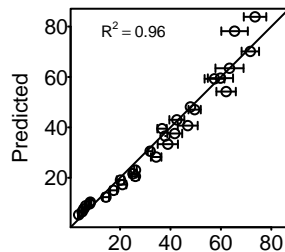


Observed

LL = -1327.6

AIC = 2657.1

**Arditi.Akcakaya**

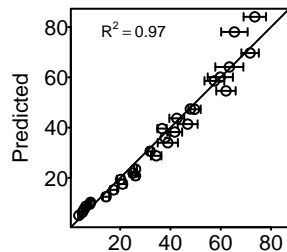


Observed

LL = -581.9

AIC = 1169.8

**Beddington.DeAngel**

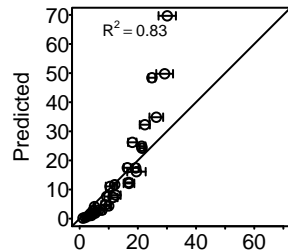


Observed

LL = -568.3

AIC = 1142.5

**Holling.Type.I**

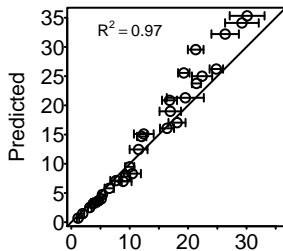


Observed

LL = -919

AIC = 1839.9

**Holling.Type.II**

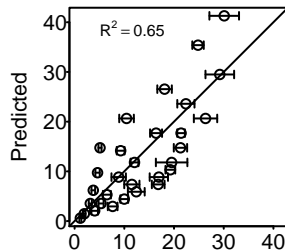


Observed

LL = -556.2

AIC = 1116.3

**Uttley\_1980  
Ratio**

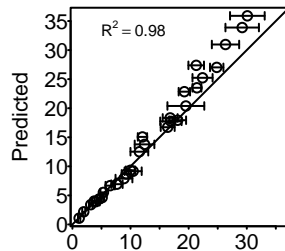


Observed

LL = -977.9

AIC = 1957.8

**Arditi.Akcakaya**

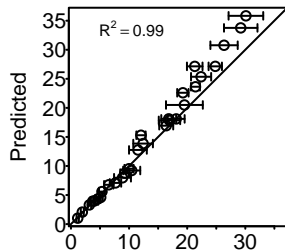


Observed

LL = -533.6

AIC = 1073.3

**Beddington.DeAngel**

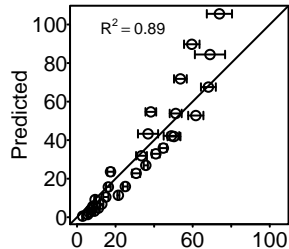


Observed

LL = -531.4

AIC = 1068.8

**Holling.Type.I**

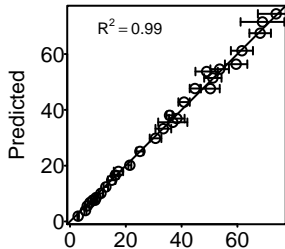


Observed

LL = -2198.6

AIC = 4399.3

**Holling.Type.II**

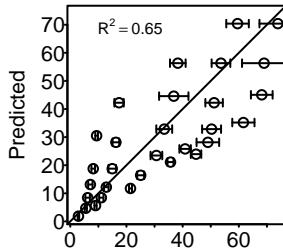


Observed

LL = -1212

AIC = 2428.1

**Uttley\_1980  
Ratio**

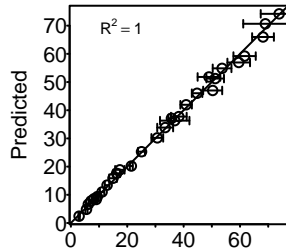


Observed

LL = -2812.9

AIC = 5627.7

**Arditi.Akcakaya**

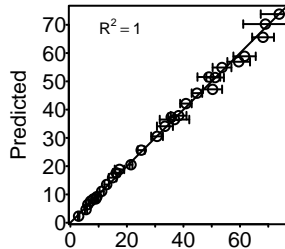


Observed

LL = -1188.1

AIC = 2382.2

**Beddington.DeAngel**

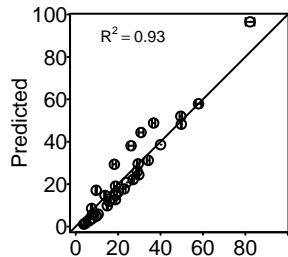


Observed

LL = -1190.1

AIC = 2386.2

**Holling.Type.I**

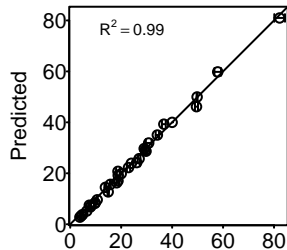


Observed

LL = -1339.9

AIC = 2681.9

**Holling.Type.II**

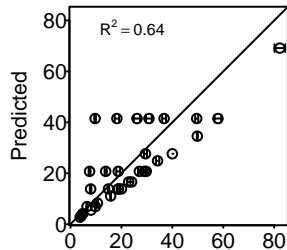


Observed

LL = -628

AIC = 1260

**Eveleigh\_1982  
Ratio**

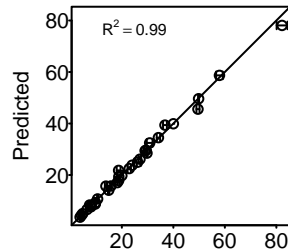


Observed

LL = -2230.1

AIC = 4462.2

**Arditi.Akcakaya**

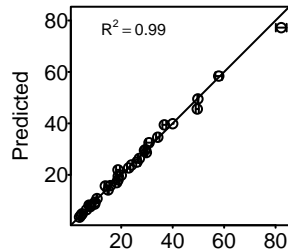


Observed

LL = -564.9

AIC = 1135.9

**Beddington.DeAngel**



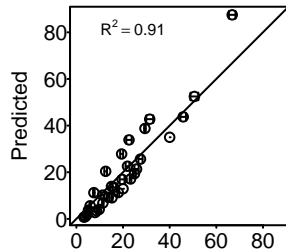
Observed

LL = -565.5

AIC = 1137



**Holling.Type.I**

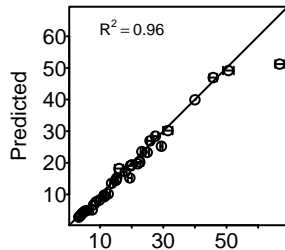


Observed

LL = -1593.9

AIC = 3189.9

**Holling.Type.II**

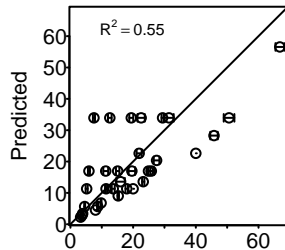


Observed

LL = -775.2

AIC = 1554.4

**Eveleigh\_1982  
Ratio**

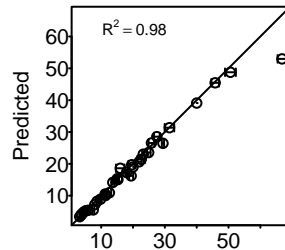


Observed

LL = -2085

AIC = 4172.1

**Arditi.Akcakaya**

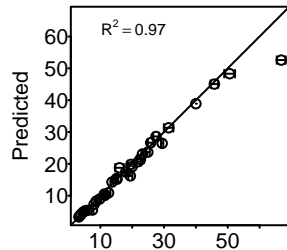


Observed

LL = -748.4

AIC = 1502.8

**Beddington.DeAngel**

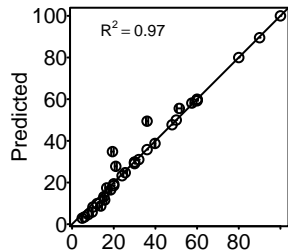


Observed

LL = -750.3

AIC = 1506.6

**Holling.Type.I**

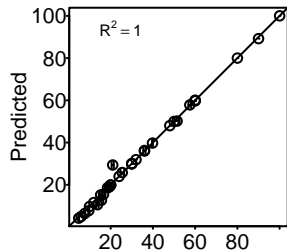


Observed

LL = -619.5

AIC = 1241

**Holling.Type.II**

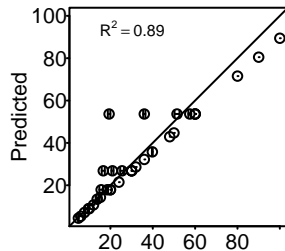


Observed

LL = -368

AIC = 740.1

**Eveleigh\_1982  
Ratio**

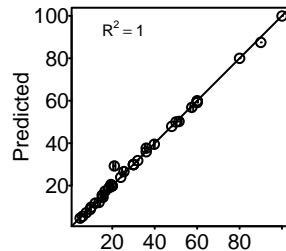


Observed

LL = -1429.7

AIC = 2861.5

**Arditi.Akcakaya**

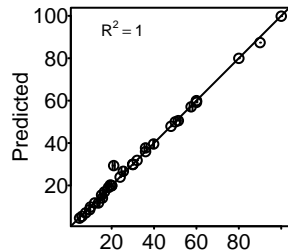


Observed

LL = -338.6

AIC = 683.2

**Beddington.DeAngel**

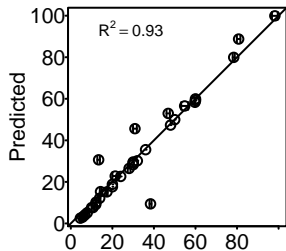


Observed

LL = -351.5

AIC = 709.1

**Holling.Type.I**

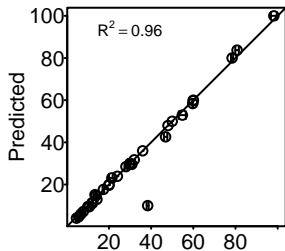


Observed

LL = -822.8

AIC = 1647.6

**Holling.Type.II**

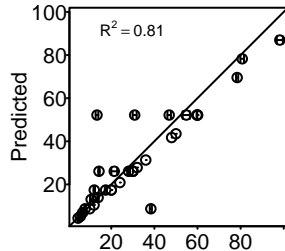


Observed

LL = -465.6

AIC = 935.2

**Eveleigh\_1982  
Ratio**

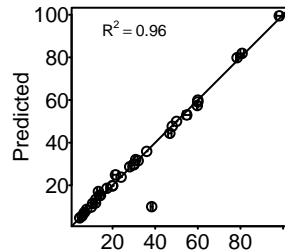


Observed

LL = -1716.8

AIC = 3435.5

**Arditi.Akcakaya**

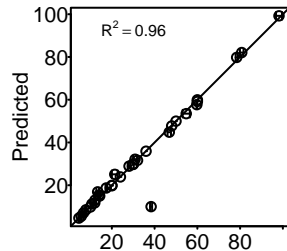


Observed

LL = -372.7

AIC = 751.4

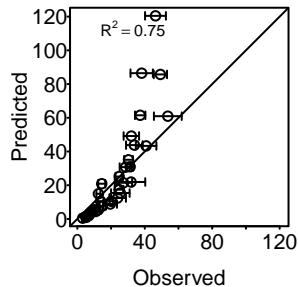
**Beddington.DeAngel**



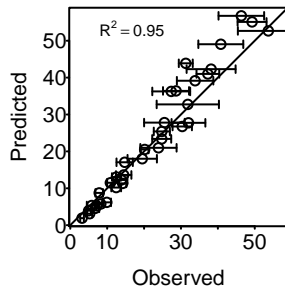
Observed

LL = -358.3

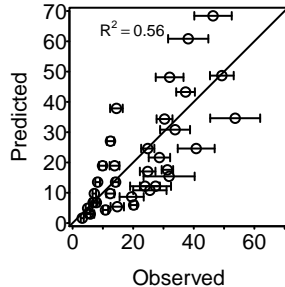
AIC = 722.7

**Holling.Type.I**

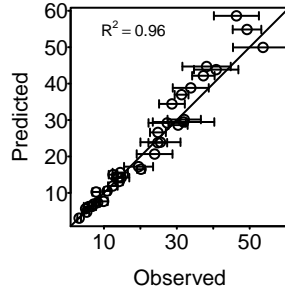
LL = -2124.4  
AIC = 4250.8

**Holling.Type.II**

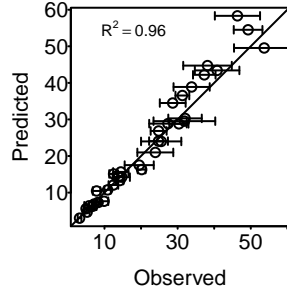
LL = -1207.6  
AIC = 2419.2

**Uttley\_1980  
Ratio**

LL = -1824.3  
AIC = 3650.6

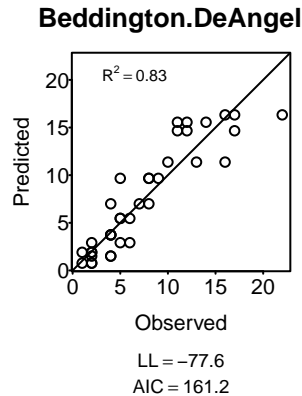
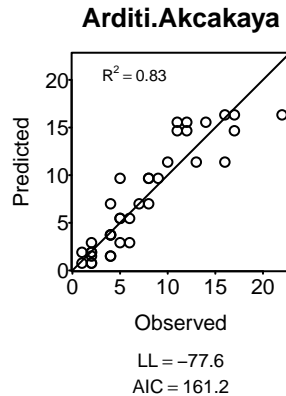
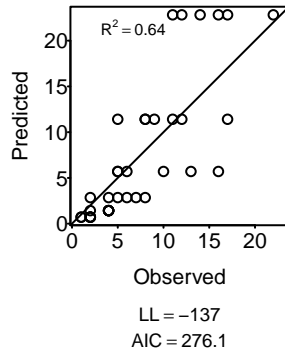
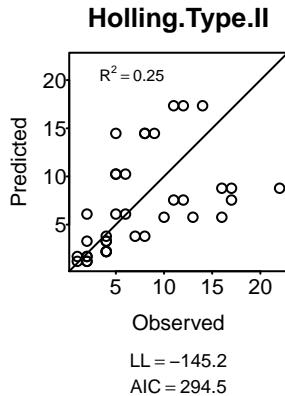
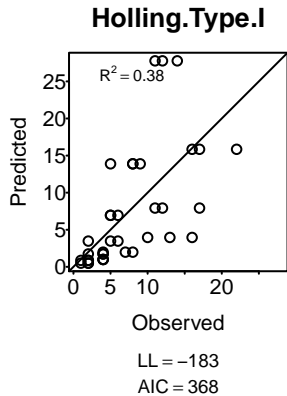
**Arditi.Akcakaya**

LL = -1111.9  
AIC = 2229.8

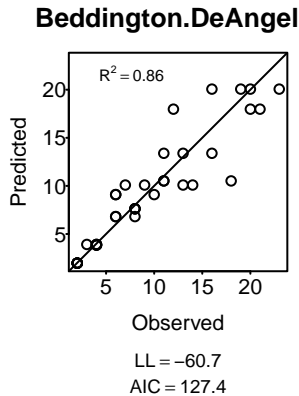
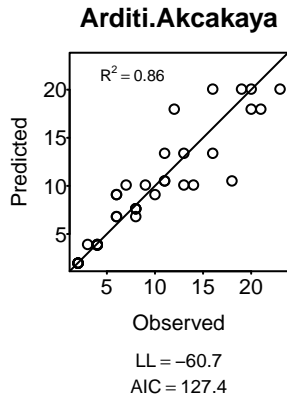
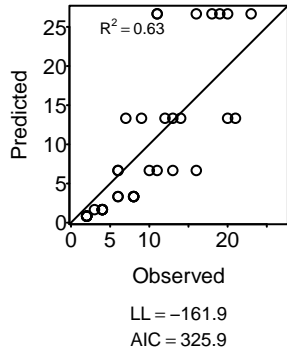
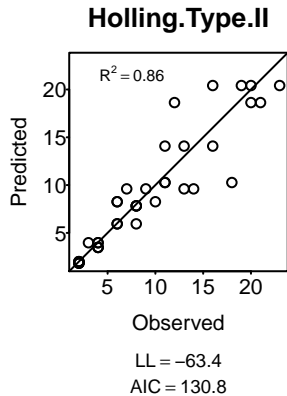
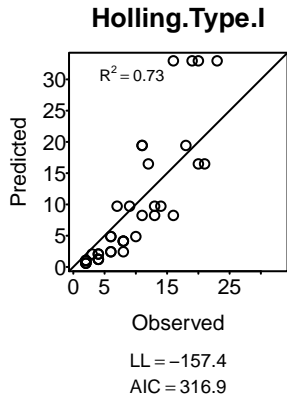
**Beddington.DeAngel**

LL = -1112.3  
AIC = 2230.6

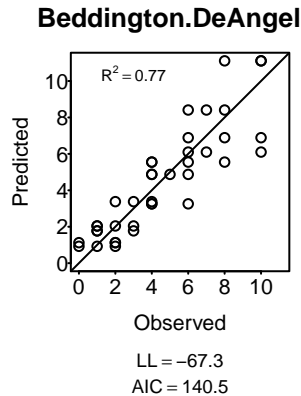
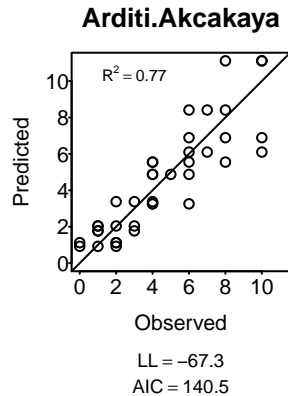
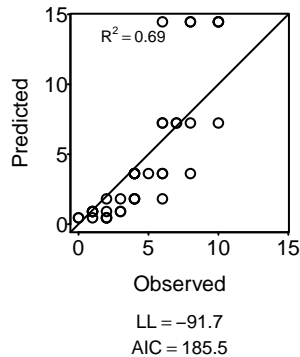
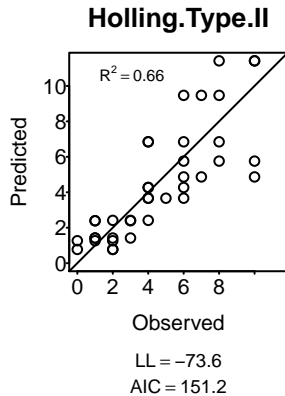
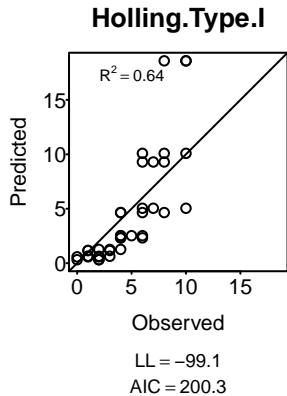
## Wasserman\_2016 Ratio



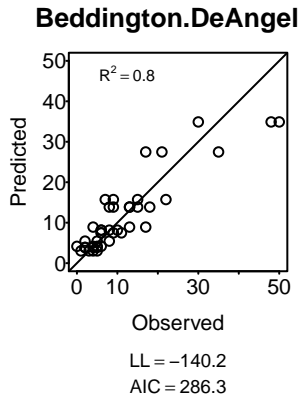
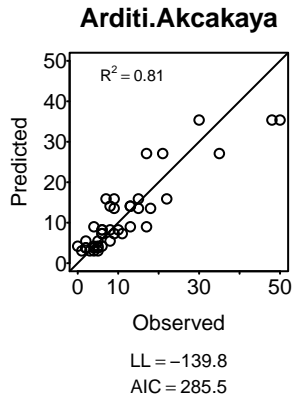
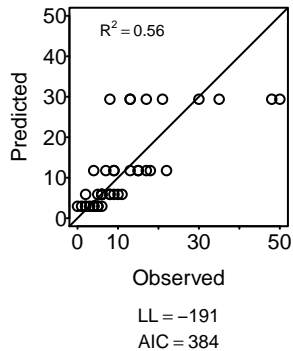
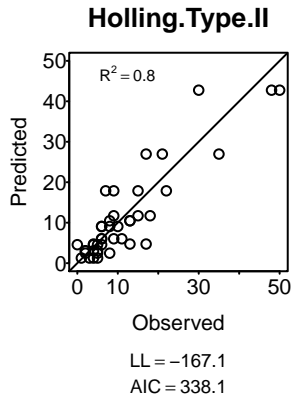
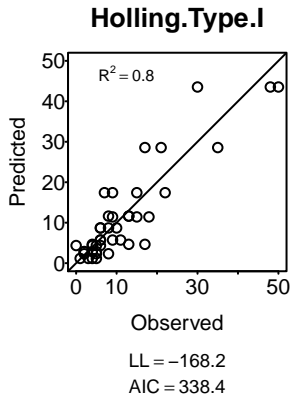
## Wasserman\_2016 Ratio



## Wasserman\_2016 Ratio

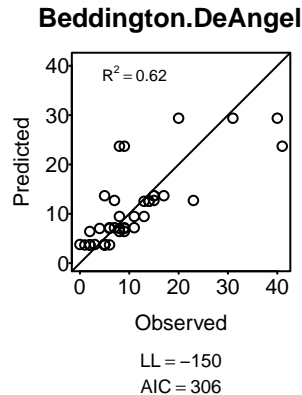
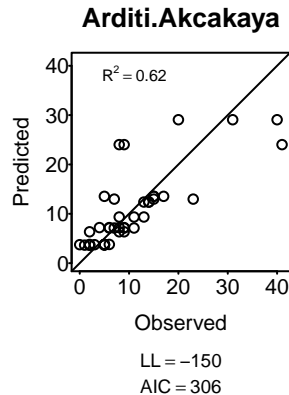
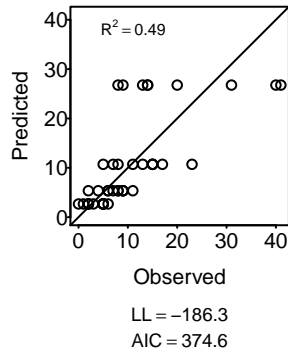
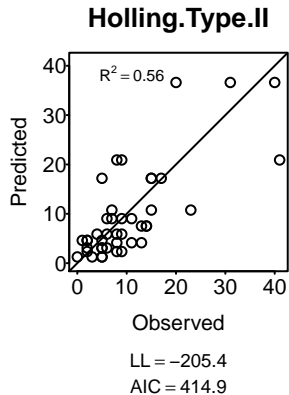
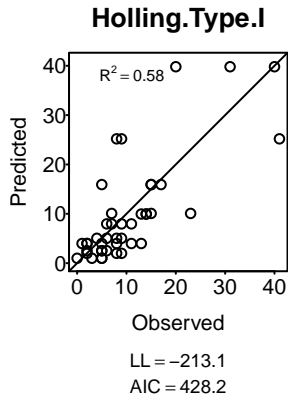


## Hossie\_2016 Ratio

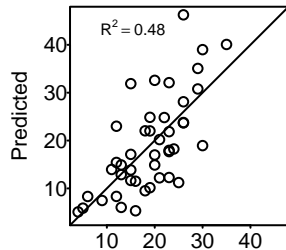




## Hossie\_2016 Ratio



**Holling.Type.I**

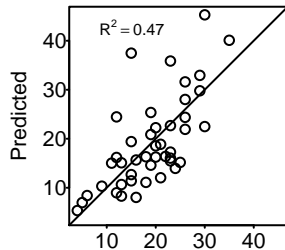


Observed

LL = -164.1

AIC = 330.1

**Holling.Type.II**

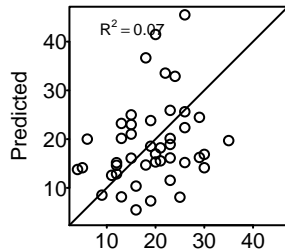


Observed

LL = -150.2

AIC = 304.4

**Vucetich\_2002  
Ratio**

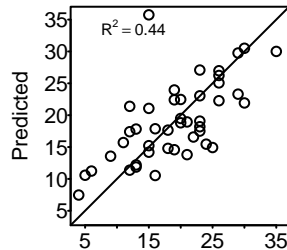


Observed

LL = -210

AIC = 421.9

**Arditi.Akcakaya**

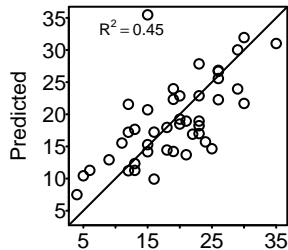


Observed

LL = -137.9

AIC = 281.8

**Beddington.DeAngel**

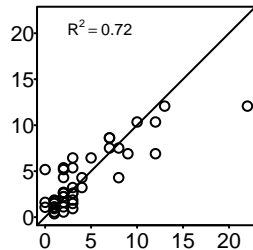


Observed

LL = -138.1

AIC = 282.2

**Holling.Type.I**

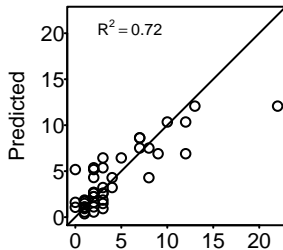


Observed

LL = -89.6

AIC = 181.3

**Holling.Type.II**

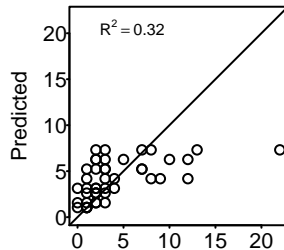


Observed

LL = -89.6

AIC = 183.3

**Johnson\_2006  
Ratio**

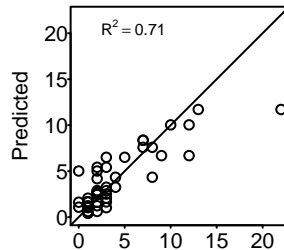


Observed

LL = -115.5

AIC = 233.1

**Arditi.Akcakaya**

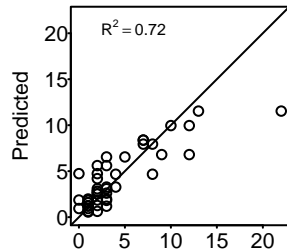


Observed

LL = -89.5

AIC = 184.9

**Beddington.DeAngel**

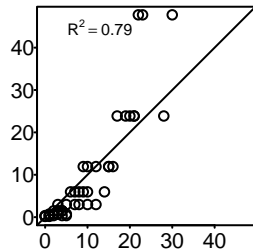


Observed

LL = -88.6

AIC = 183.2

**Holling.Type.I**

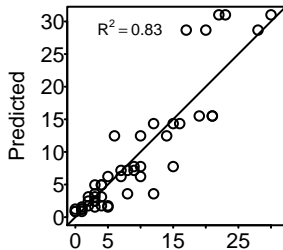


Observed

LL = -169.1

AIC = 340.1

**Holling.Type.II**

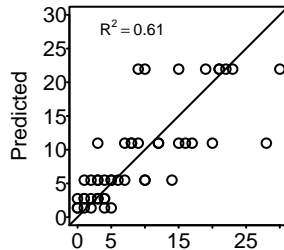


Observed

LL = -118.8

AIC = 241.6

**Medoc\_2013  
Ratio**

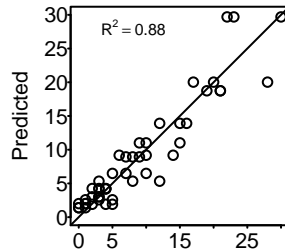


Observed

LL = -143.3

AIC = 288.6

**Arditi.Akcakaya**

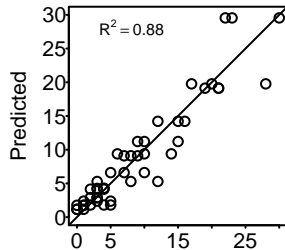


Observed

LL = -107.5

AIC = 221

**Beddington.DeAngel**

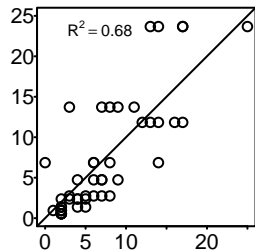


Observed

LL = -106.8

AIC = 219.5

**Holling.Type.I**

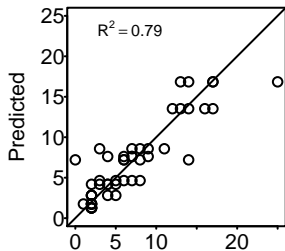


Observed

LL = -155.5

AIC = 313.1

**Holling.Type.II**

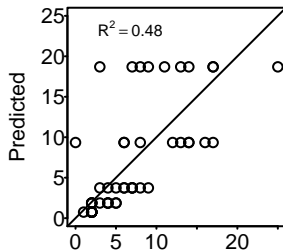


Observed

LL = -103.2

AIC = 210.4

**Long\_2012a  
Ratio**

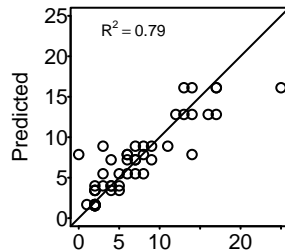


Observed

LL = -175.4

AIC = 352.7

**Arditi.Akcakaya**

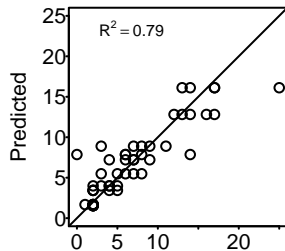


Observed

LL = -100.5

AIC = 207

**Beddington.DeAngel**

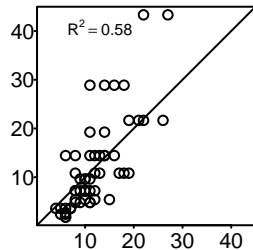


Observed

LL = -100.5

AIC = 207

**Holling.Type.I**

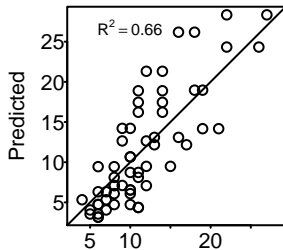


Observed

LL = -210.4

AIC = 422.9

**Holling.Type.II**

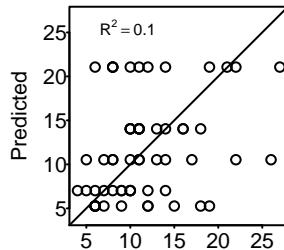


Observed

LL = -169.2

AIC = 342.4

**Pusack\_2018  
Ratio**

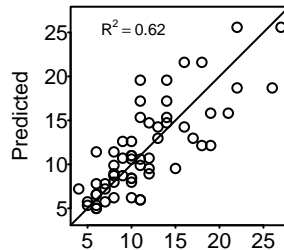


Observed

LL = -225

AIC = 451.9

**Arditi.Akcakaya**

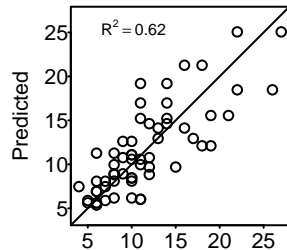


Observed

LL = -152.2

AIC = 310.5

**Beddington.DeAngel**

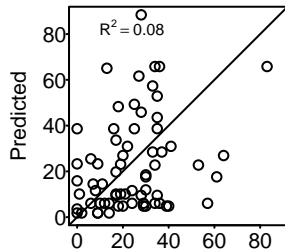


Observed

LL = -151.8

AIC = 309.6

**Holling.Type.I**

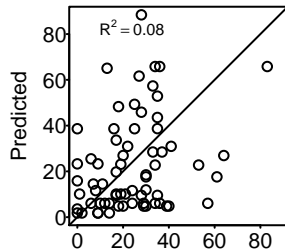


Observed

LL = -1063.4

AIC = 2128.8

**Holling.Type.II**

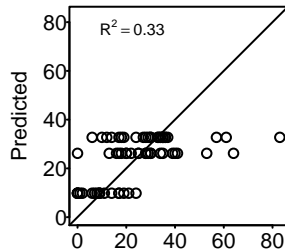


Observed

LL = -1063.4

AIC = 2130.8

**Kratina\_2009  
Ratio**

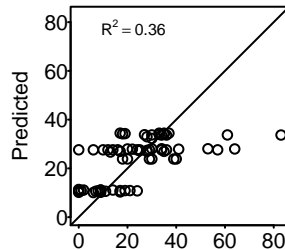


Observed

LL = -449.1

AIC = 900.2

**Arditi.Akcakaya**

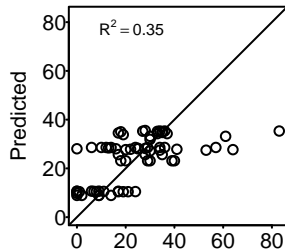


Observed

LL = -441.3

AIC = 888.6

**Beddington.DeAngel**

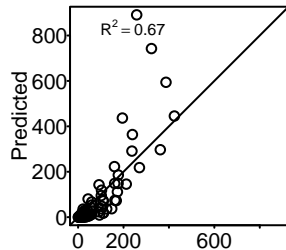


Observed

LL = -441.8

AIC = 889.7

**Holling.Type.I**

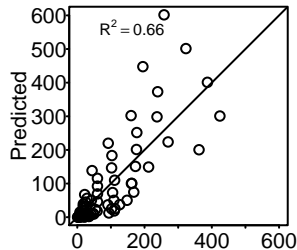


Observed

LL = -2558.2

AIC = 5118.4

**Holling.Type.II**

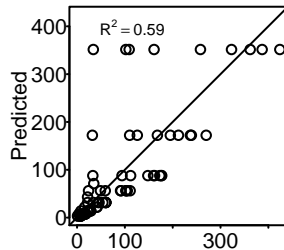


Observed

LL = -2098.7

AIC = 4201.4

**Edwards\_1961  
Ratio**

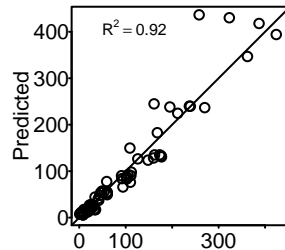


Observed

LL = -1382.9

AIC = 2767.8

**Arditi.Akcakaya**

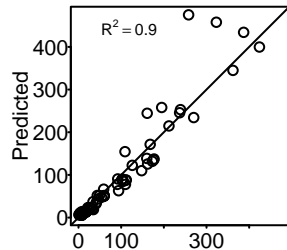


Observed

LL = -407

AIC = 819.9

**Beddington.DeAngel**



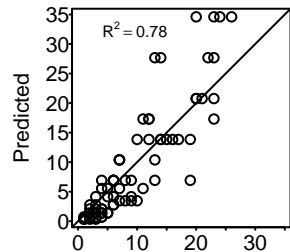
Observed

LL = -430

AIC = 866



**Holling.Type.I**

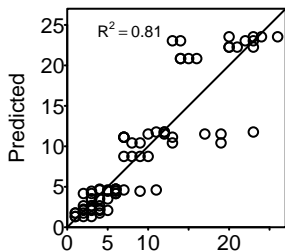


Observed

LL = -232.3

AIC = 466.6

**Holling.Type.II**

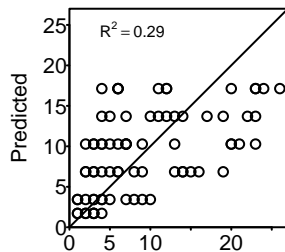


Observed

LL = -181.7

AIC = 367.5

**Medoc\_2015  
Ratio**

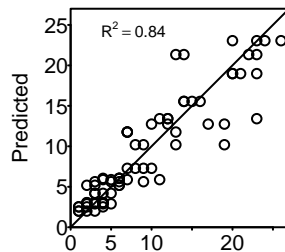


Observed

LL = -278.8

AIC = 559.6

**Arditi.Akcakaya**

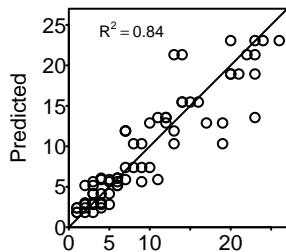


Observed

LL = -171.9

AIC = 349.8

**Beddington.DeAngel**

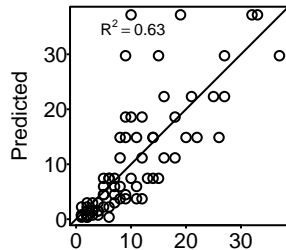


Observed

LL = -171.7

AIC = 349.3

**Holling.Type.I**

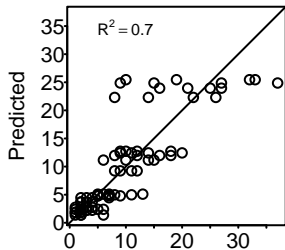


Observed

LL = -261.8

AIC = 525.6

**Holling.Type.II**

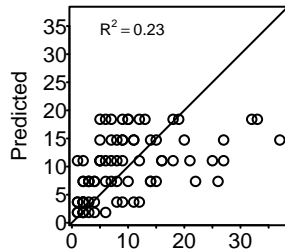


Observed

LL = -208.2

AIC = 420.4

**Medoc\_2015  
Ratio**

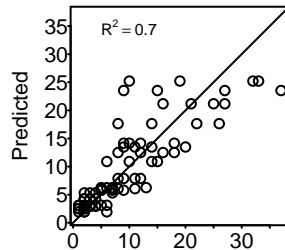


Observed

LL = -321.8

AIC = 645.7

**Arditi.Akcakaya**

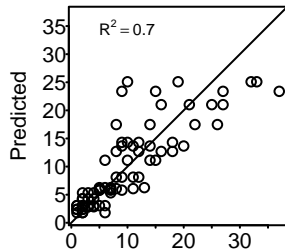


Observed

LL = -201.4

AIC = 408.8

**Beddington.DeAngel**

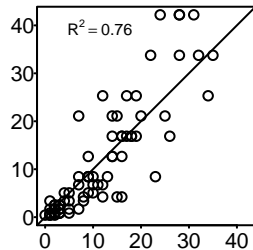


Observed

LL = -201.3

AIC = 408.5

**Holling.Type.I**

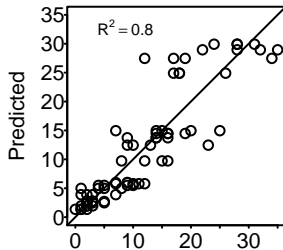


Observed

LL = -248.5

AIC = 498.9

**Holling.Type.II**

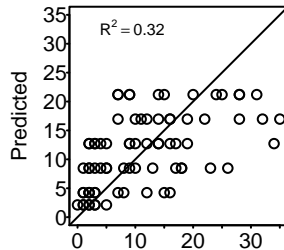


Observed

LL = -199.2

AIC = 402.3

**Medoc\_2015  
Ratio**

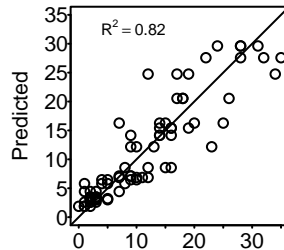


Observed

LL = -333.6

AIC = 669.2

**Arditi.Akcakaya**

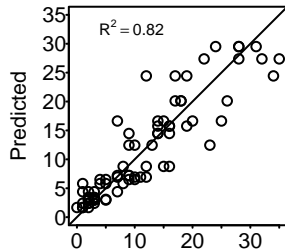


Observed

LL = -194.4

AIC = 394.8

**Beddington.DeAngel**

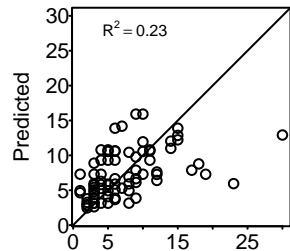


Observed

LL = -192.9

AIC = 391.8

**Holling.Type.I**

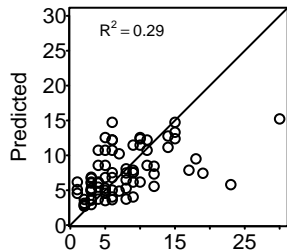


Observed

LL = -232.8

AIC = 467.7

**Holling.Type.II**

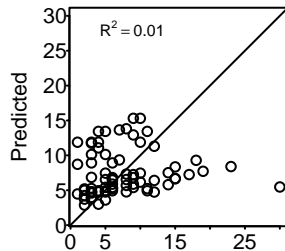


Observed

LL = -225.2

AIC = 454.5

**Vucetich\_2002  
Ratio**

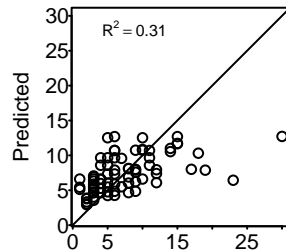


Observed

LL = -285.8

AIC = 573.5

**Arditi.Akcakaya**

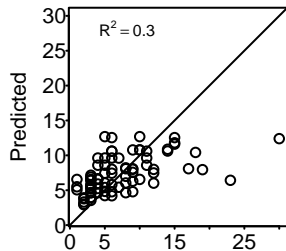


Observed

LL = -221.9

AIC = 449.7

**Beddington.DeAngel**

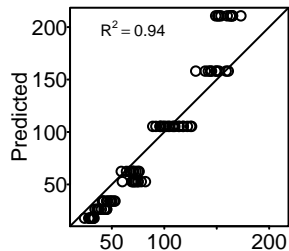


Observed

LL = -222.2

AIC = 450.3

**Holling.Type.I**

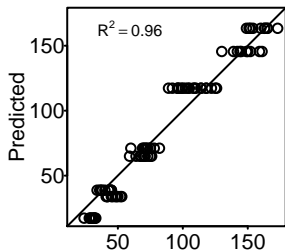


Observed

LL = -678.8

AIC = 1359.6

**Holling.Type.II**

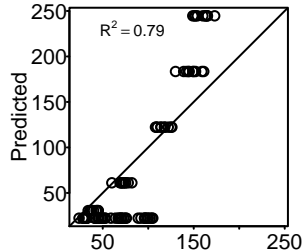


Observed

LL = -395.1

AIC = 794.2

**Omkar\_2004  
Ratio**

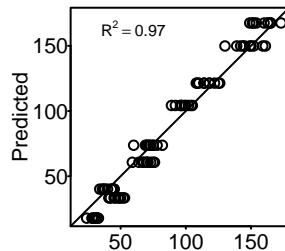


Observed

LL = -2220.8

AIC = 4443.7

**Arditi.Akcakaya**

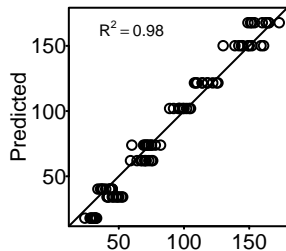


Observed

LL = -368.5

AIC = 743

**Beddington.DeAngel**

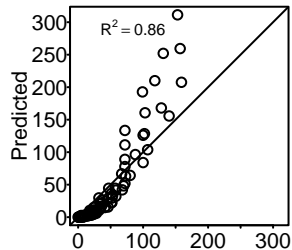


Observed

LL = -360.5

AIC = 727.1

**Holling.Type.I**

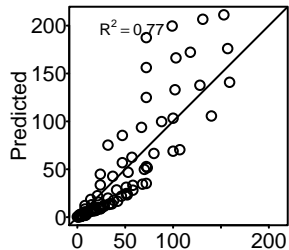


Observed

LL = -1050.1

AIC = 2102.2

**Holling.Type.II**

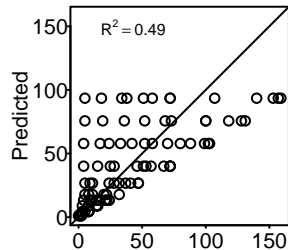


Observed

LL = -784.6

AIC = 1573.2

**Edwards\_1961  
Ratio**

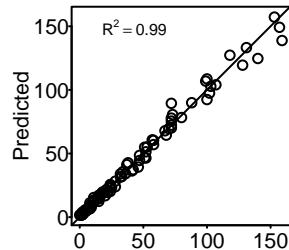


Observed

LL = -962.1

AIC = 1926.1

**Arditi.Akcakaya**

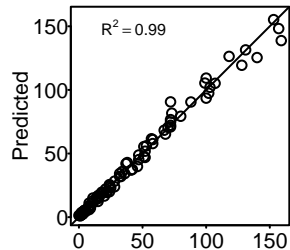


Observed

LL = -253.4

AIC = 512.7

**Beddington.DeAngel**

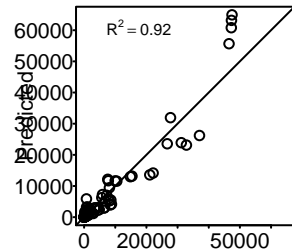


Observed

LL = -252.3

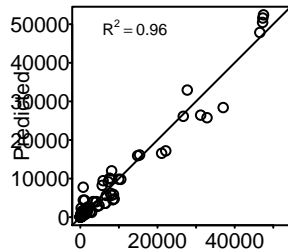
AIC = 510.6

**Holling.Type.I**



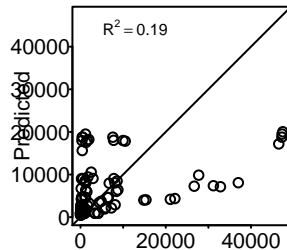
LL = -41936.1  
AIC = 83874.2

**Holling.Type.II**



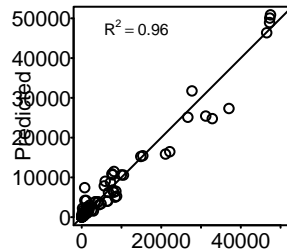
LL = -30418.8  
AIC = 60841.7

**Fussmann\_2005  
Ratio**



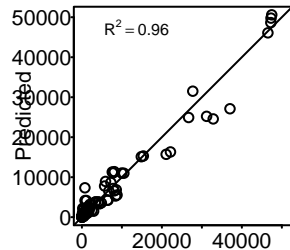
LL = -469882.6  
AIC = 939767.2

**Arditi.Akcakaya**



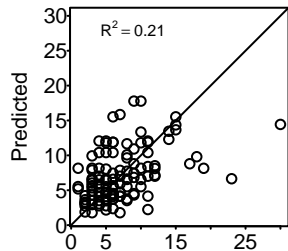
LL = -28605.8  
AIC = 57217.7

**Beddington.DeAngel**



LL = -28190.9  
AIC = 56387.8

**Holling.Type.I**

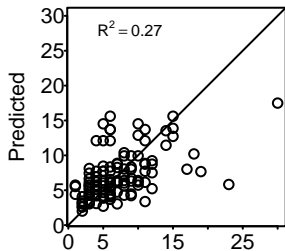


Observed

LL = -350.4

AIC = 702.8

**Holling.Type.II**

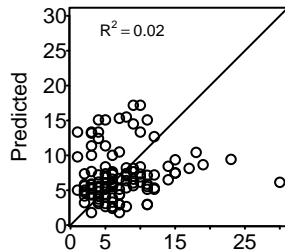


Observed

LL = -325.1

AIC = 654.2

**Vucetich\_2002  
Ratio**

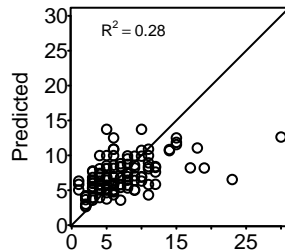


Observed

LL = -413.5

AIC = 829

**Arditi.Akcakaya**

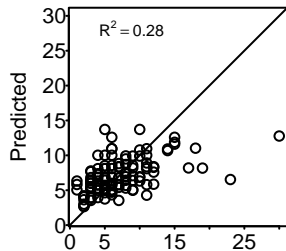


Observed

LL = -317

AIC = 640.1

**Beddington.DeAngel**



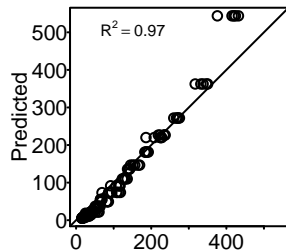
Observed

LL = -317

AIC = 640



**Holling.Type.I**

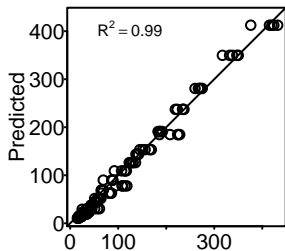


Observed

LL = -2430.9

AIC = 4863.8

**Holling.Type.II**

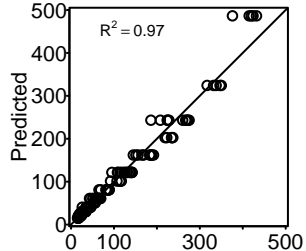


Observed

LL = -918.5

AIC = 1841

**Mertz\_1968  
Ratio**

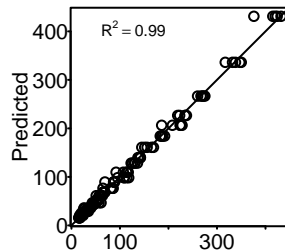


Observed

LL = -988.7

AIC = 1979.4

**Arditi.Akcakaya**

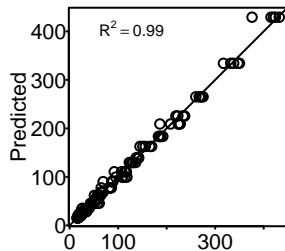


Observed

LL = -449.3

AIC = 904.5

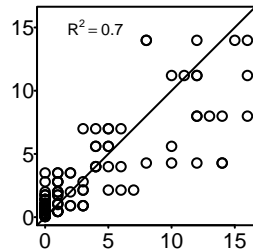
**Beddington.DeAngel**



Observed

LL = -457.2

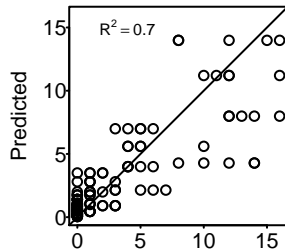
AIC = 920.5

**Holling.Type.I**

Observed

LL = -232.6

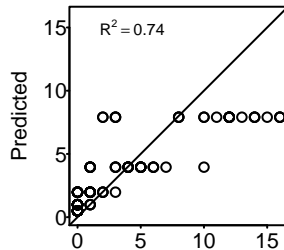
AIC = 467.1

**Holling.Type.II**

Observed

LL = -232.6

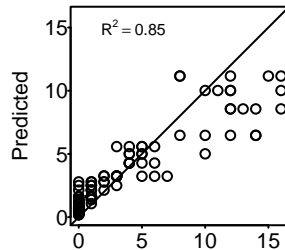
AIC = 469.1

**Jones\_1988  
Ratio**

Observed

LL = -237.3

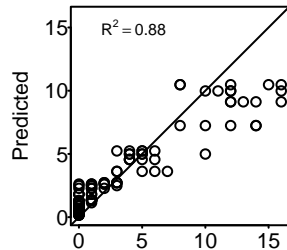
AIC = 476.6

**Arditi.Akcakaya**

Observed

LL = -201.9

AIC = 409.8

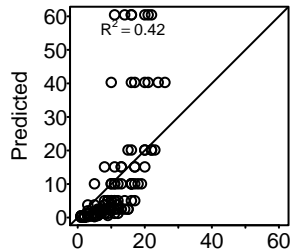
**Beddington.DeAngel**

Observed

LL = -194.9

AIC = 395.8

**Holling.Type.I**

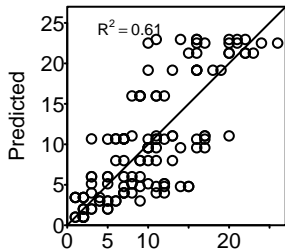


Observed

LL = -868.2

AIC = 1738.4

**Holling.Type.II**

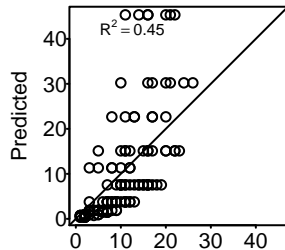


Observed

LL = -380.7

AIC = 765.5

**Chong\_2006  
Ratio**

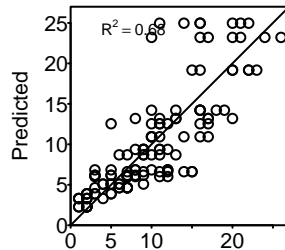


Observed

LL = -591.8

AIC = 1185.7

**Arditi.Akcakaya**

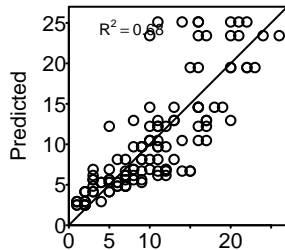


Observed

LL = -325.7

AIC = 657.5

**Beddington.DeAngel**

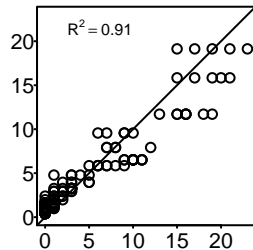


Observed

LL = -325.4

AIC = 656.7

**Holling.Type.I**

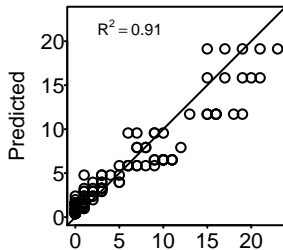


Observed

LL = -244.1

AIC = 490.1

**Holling.Type.II**

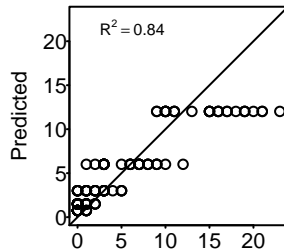


Observed

LL = -244.1

AIC = 492.1

**Jones\_1988  
Ratio**

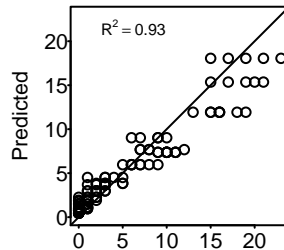


Observed

LL = -302.4

AIC = 606.8

**Arditi.Akcakaya**

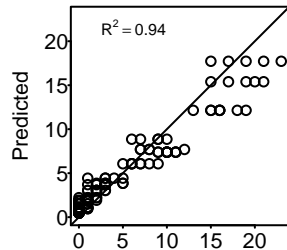


Observed

LL = -241.8

AIC = 489.6

**Beddington.DeAngel**

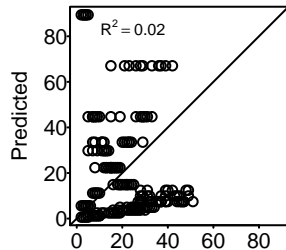


Observed

LL = -240.9

AIC = 487.7

**Holling.Type.I**

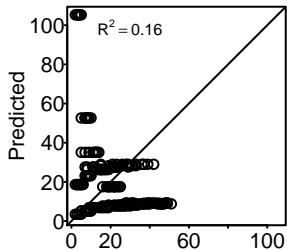


Observed

LL = -3256.3

AIC = 6514.5

**Holling.Type.II**

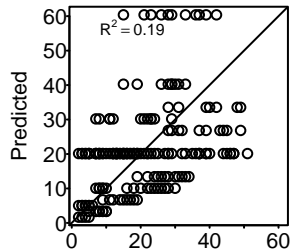


Observed

LL = -2861.7

AIC = 5727.4

**Mills\_2004  
Ratio**

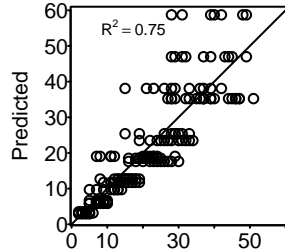


Observed

LL = -1159.5

AIC = 2321

**Arditi.Akcakaya**

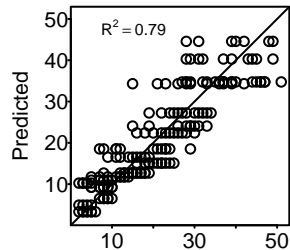


Observed

LL = -582.7

AIC = 1171.5

**Beddington.DeAngel**

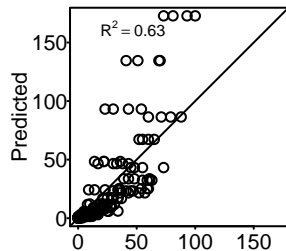


Observed

LL = -558.9

AIC = 1123.8

**Holling.Type.I**

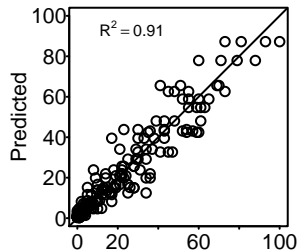


Observed

LL = -1618.9

AIC = 3239.8

**Holling.Type.II**

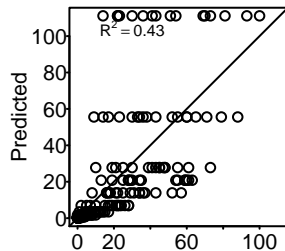


Observed

LL = -592

AIC = 1188.1

**Lang\_2012  
Ratio**

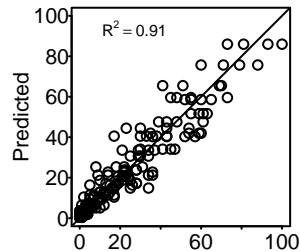


Observed

LL = -1954.2

AIC = 3910.4

**Arditi.Akcakaya**

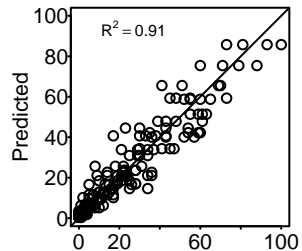


Observed

LL = -578.1

AIC = 1162.2

**Beddington.DeAngel**

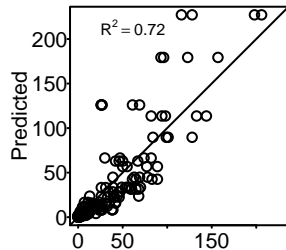


Observed

LL = -579.4

AIC = 1164.8

**Holling.Type.I**

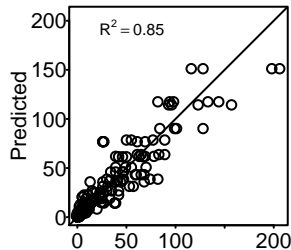


Observed

LL = -1646.2

AIC = 3294.4

**Holling.Type.II**

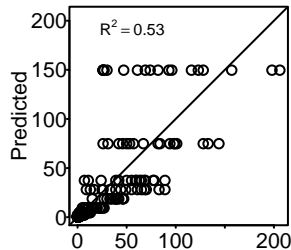


Observed

LL = -951.9

AIC = 1907.9

**Lang\_2012  
Ratio**

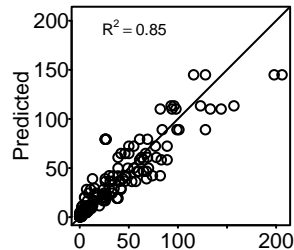


Observed

LL = -2092.7

AIC = 4187.4

**Arditi.Akcakaya**

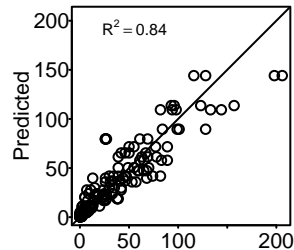


Observed

LL = -914.7

AIC = 1835.5

**Beddington.DeAngel**

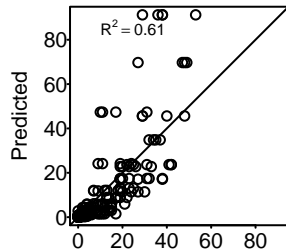


Observed

LL = -918.7

AIC = 1843.3

**Holling.Type.I**

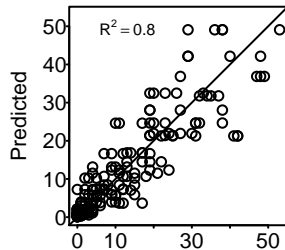


Observed

LL = -949.4

AIC = 1900.8

**Holling.Type.II**

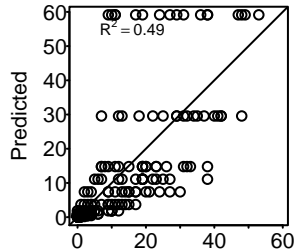


Observed

LL = -559.7

AIC = 1123.4

**Lang\_2012  
Ratio**

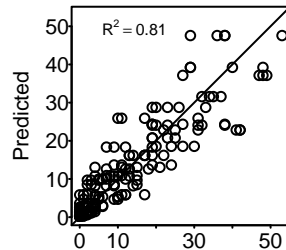


Observed

LL = -1033.3

AIC = 2068.5

**Arditi.Akcakaya**

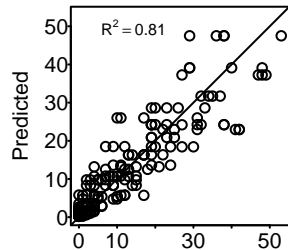


Observed

LL = -534.6

AIC = 1075.2

**Beddington.DeAngel**



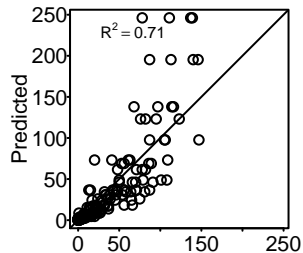
Observed

LL = -534

AIC = 1074



**Holling.Type.I**

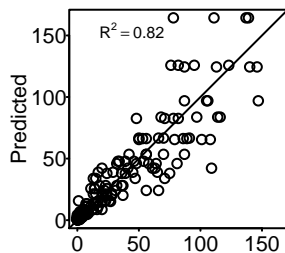


Observed

LL = -1689.4

AIC = 3380.7

**Holling.Type.II**

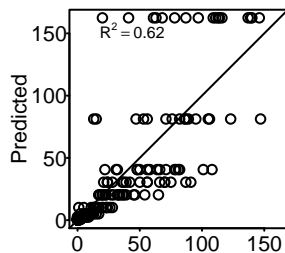


Observed

LL = -1011.9

AIC = 2027.7

**Lang\_2012  
Ratio**

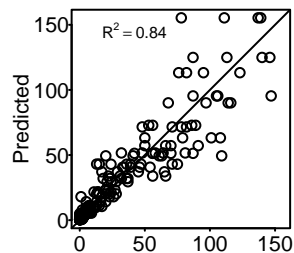


Observed

LL = -1918.9

AIC = 3839.8

**Arditi.Akcakaya**

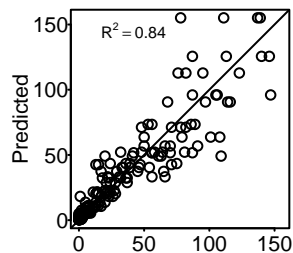


Observed

LL = -912.5

AIC = 1831.1

**Beddington.DeAngel**

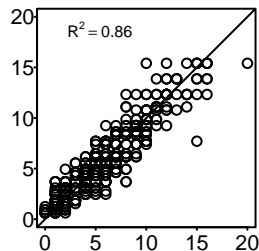


Observed

LL = -909.4

AIC = 1824.7

**Holling.Type.I**

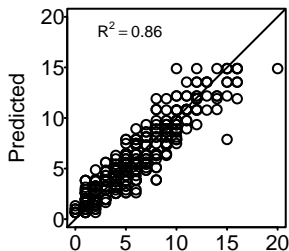


Observed

LL = -759.7

AIC = 1521.4

**Holling.Type.II**

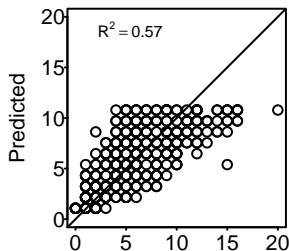


Observed

LL = -758.7

AIC = 1521.5

**Elliot\_2005  
Ratio**

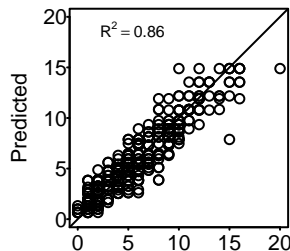


Observed

LL = -885.2

AIC = 1772.4

**Arditi.Akcakaya**

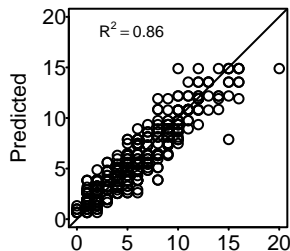


Observed

LL = -758.7

AIC = 1523.5

**Beddington.DeAngel**

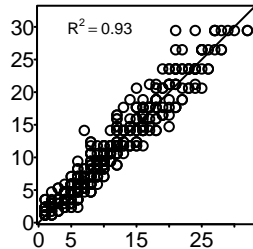


Observed

LL = -758.7

AIC = 1523.5

**Holling.Type.I**

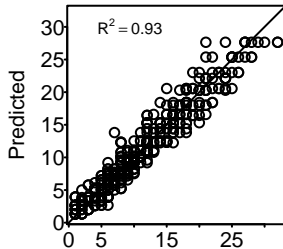


Observed

LL = -884.1

AIC = 1770.3

**Holling.Type.II**

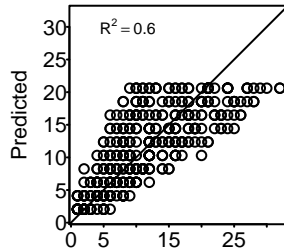


Observed

LL = -877.9

AIC = 1759.9

**Elliot\_2005  
Ratio**

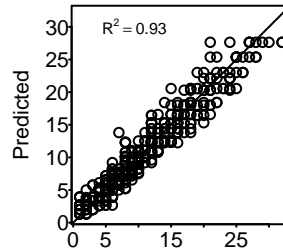


Observed

LL = -1123.8

AIC = 2249.5

**Arditi.Akcakaya**

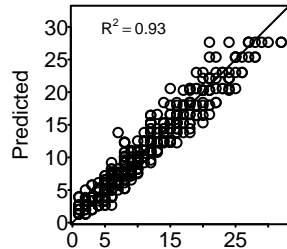


Observed

LL = -877.9

AIC = 1761.9

**Beddington.DeAngel**

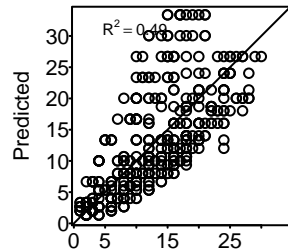


Observed

LL = -877.9

AIC = 1761.9

**Holling.Type.I**

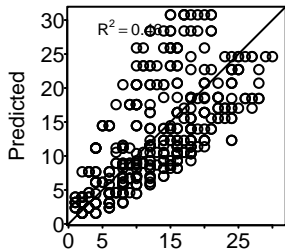


Observed

LL = -1317.3

AIC = 2636.6

**Holling.Type.II**

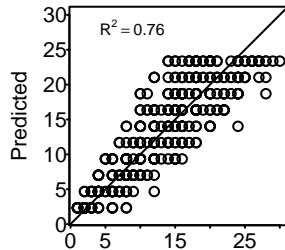


Observed

LL = -1305.4

AIC = 2614.9

**Elliot\_2005  
Ratio**

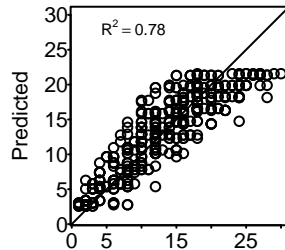


Observed

LL = -1025.4

AIC = 2052.8

**Arditi.Akcakaya**

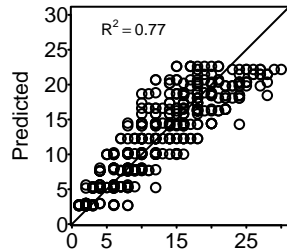


Observed

LL = -1003.8

AIC = 2013.7

**Beddington.DeAngel**

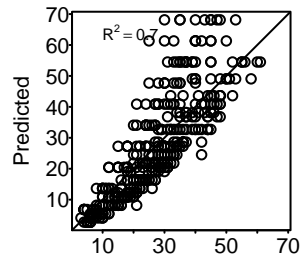


Observed

LL = -1012.2

AIC = 2030.4

**Holling.Type.I**

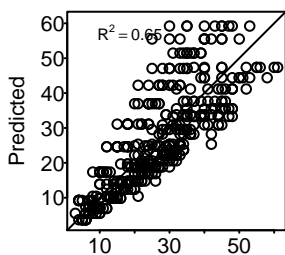


Observed

LL = -1535.7

AIC = 3073.4

**Holling.Type.II**

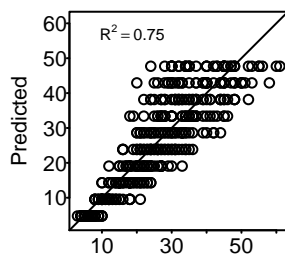


Observed

LL = -1461.8

AIC = 2927.6

**Elliot\_2005  
Ratio**

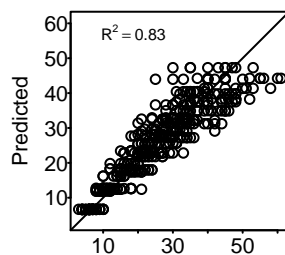


Observed

LL = -1317.2

AIC = 2636.4

**Arditi.Akcakaya**

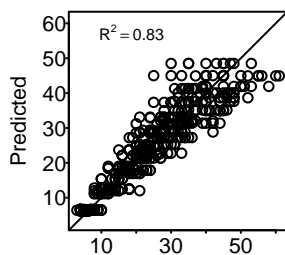


Observed

LL = -1173.1

AIC = 2352.1

**Beddington.DeAngel**

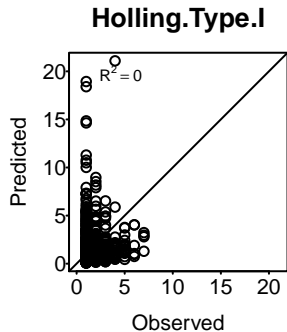


Observed

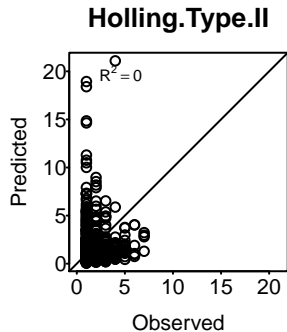
LL = -1173.7

AIC = 2353.5

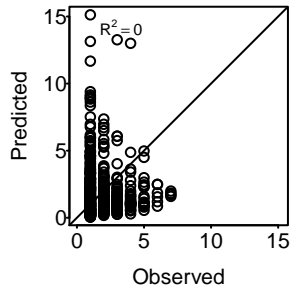
# Prokopenko\_2017 Ratio



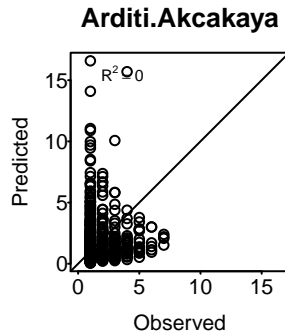
LL = -1371.2  
AIC = 2744.5



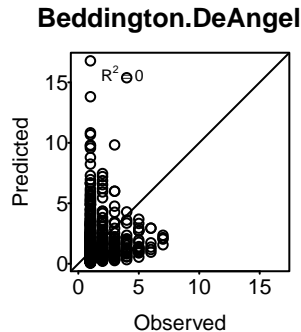
LL = -1371.2  
AIC = 2746.5



LL = -1331.5  
AIC = 2665.1



LL = -1315.6  
AIC = 2637.2



LL = -1314.6  
AIC = 2635.2