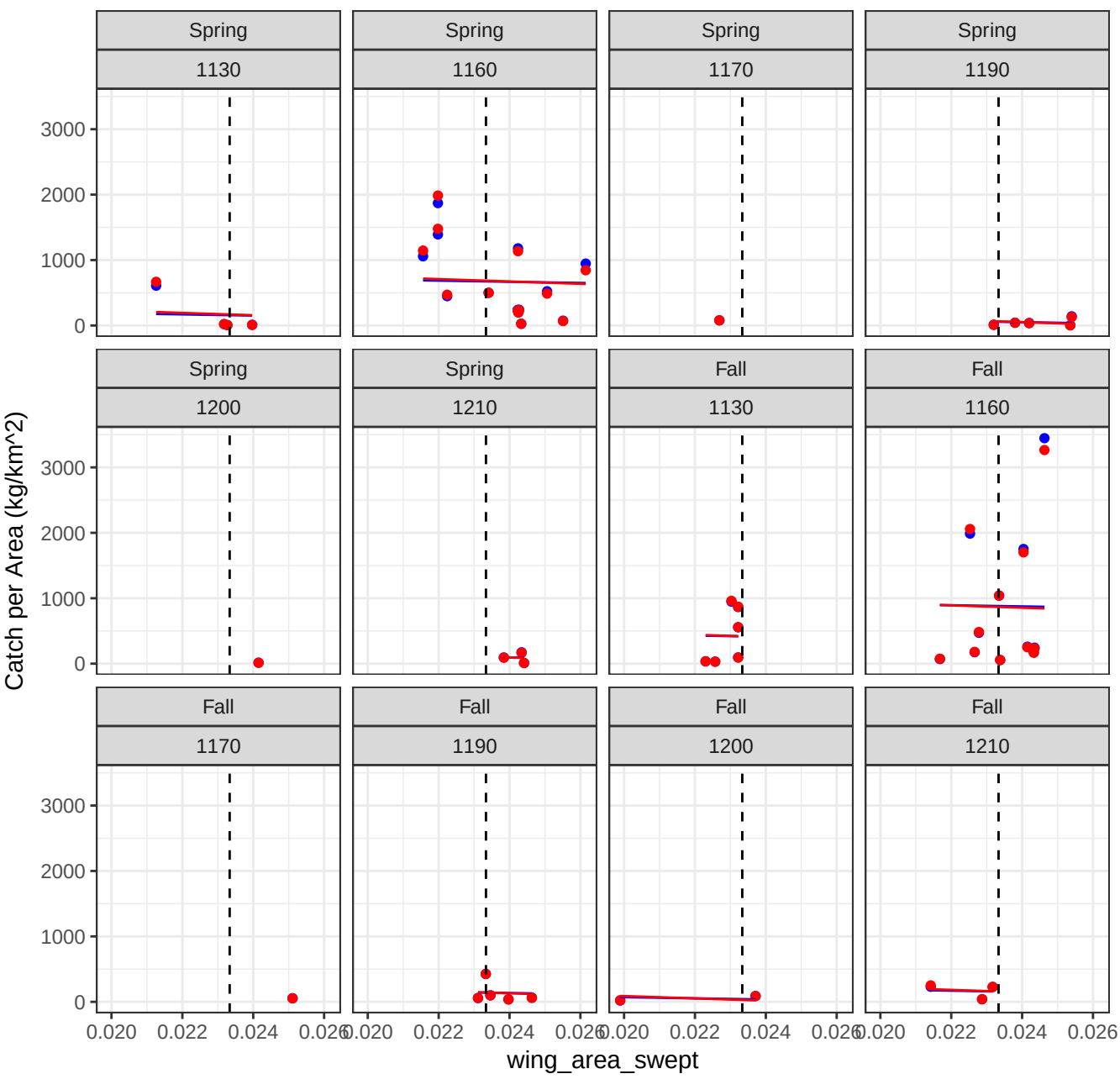
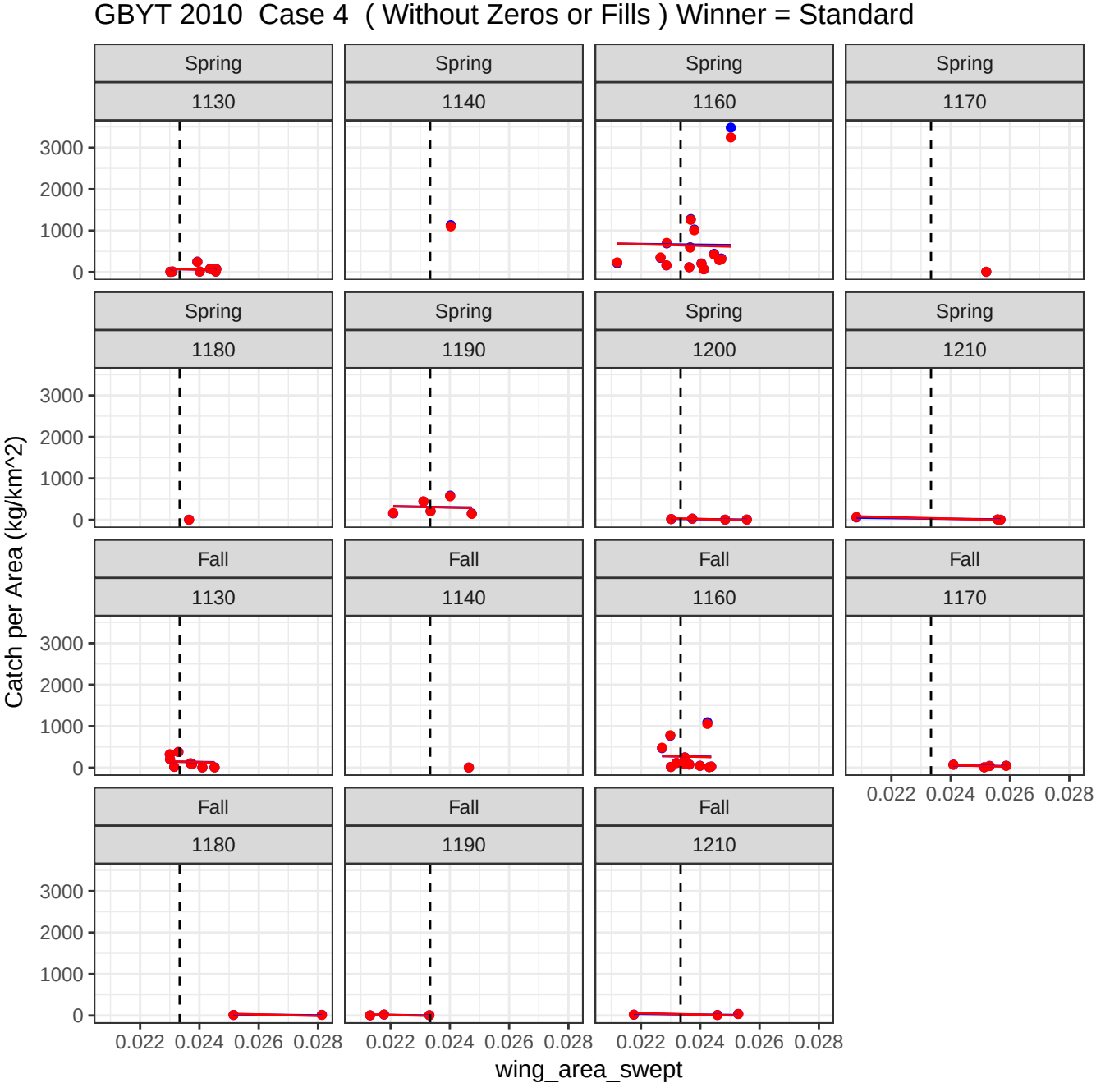
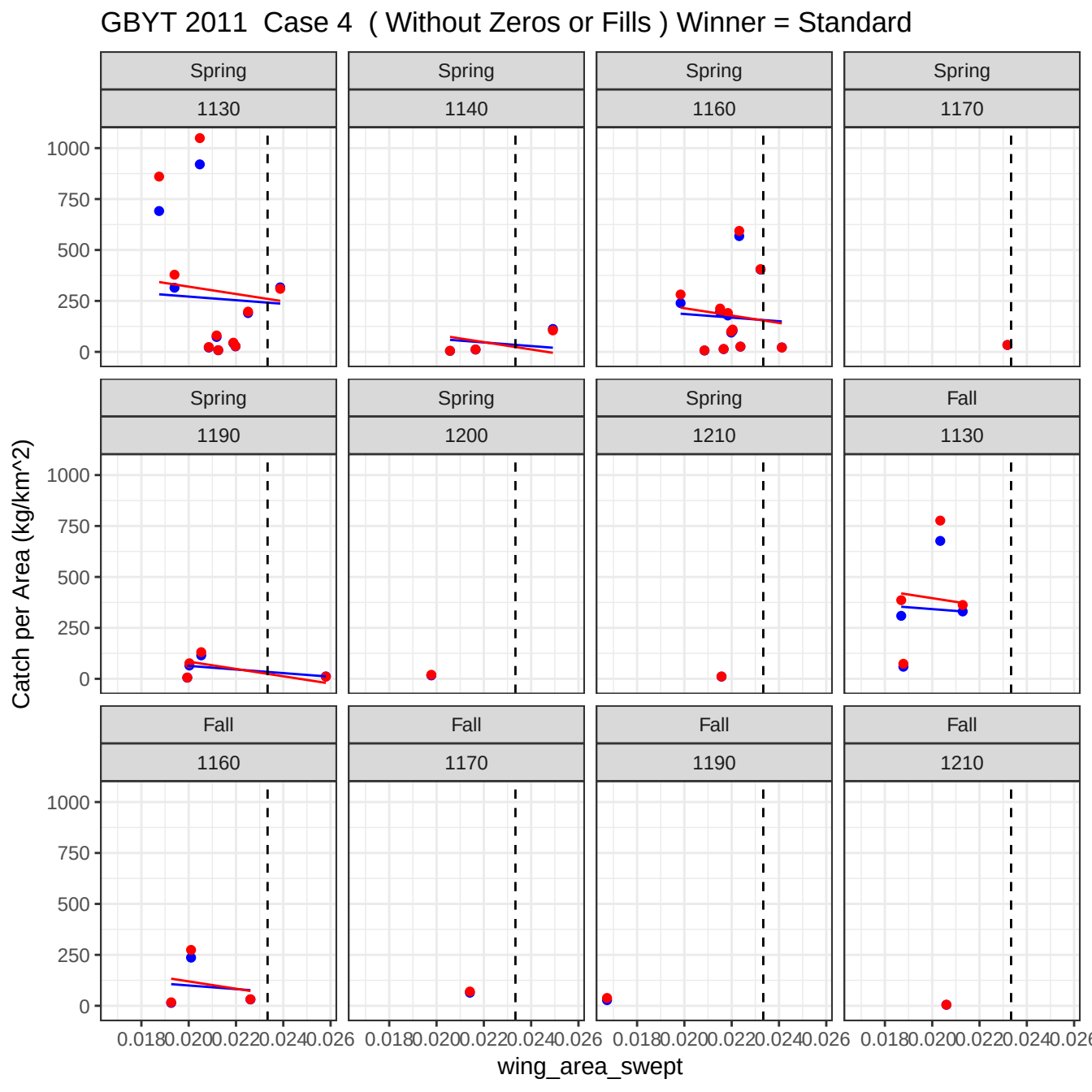
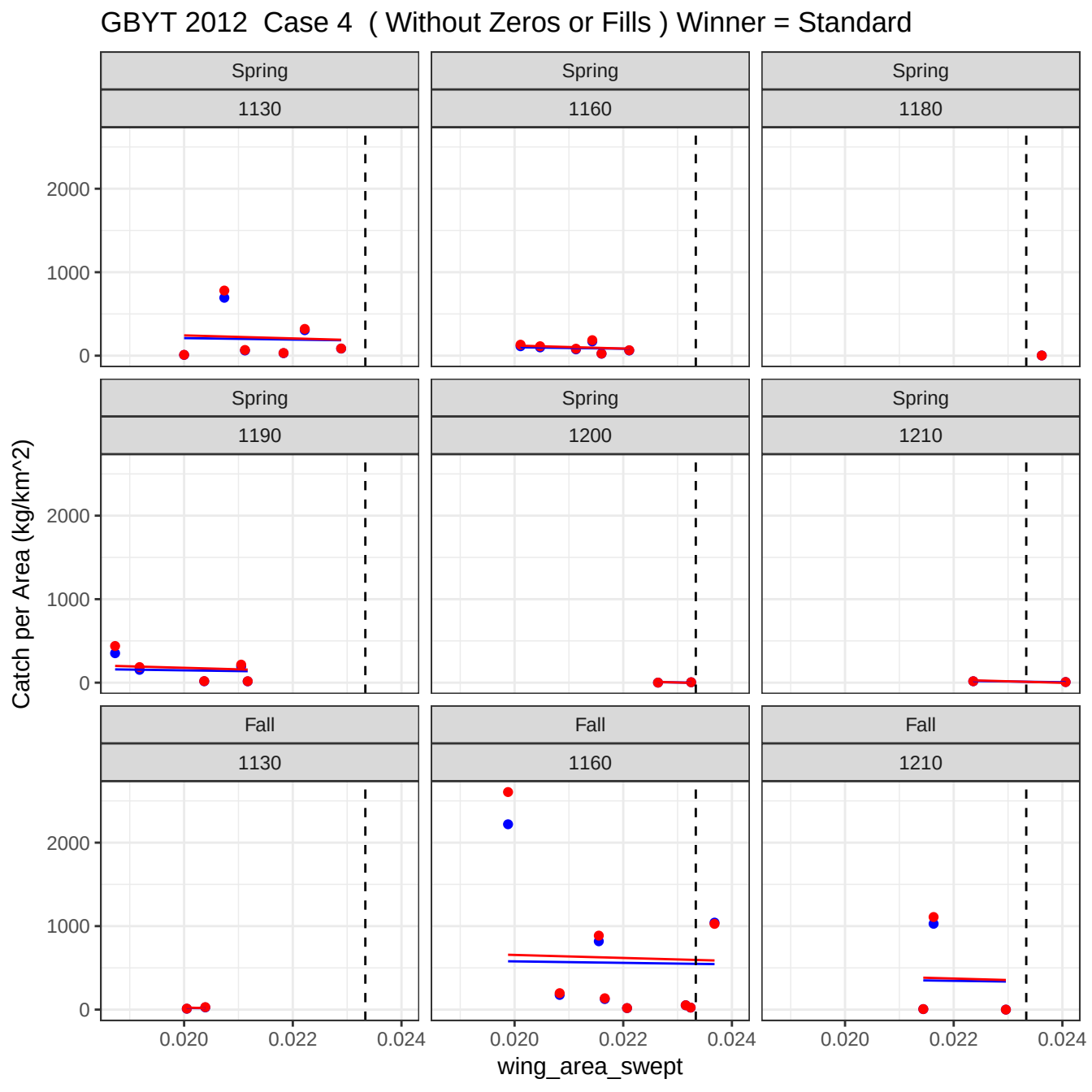
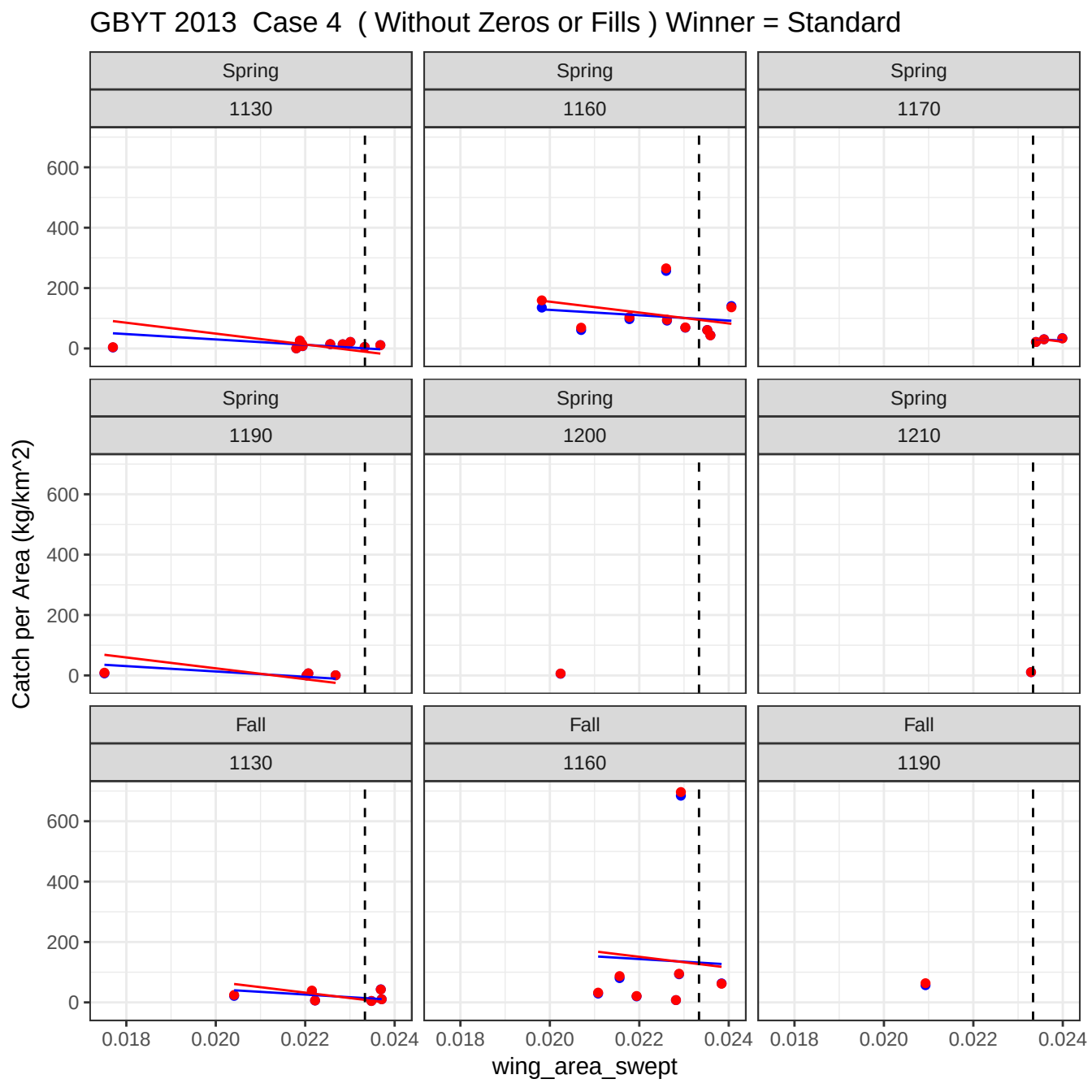
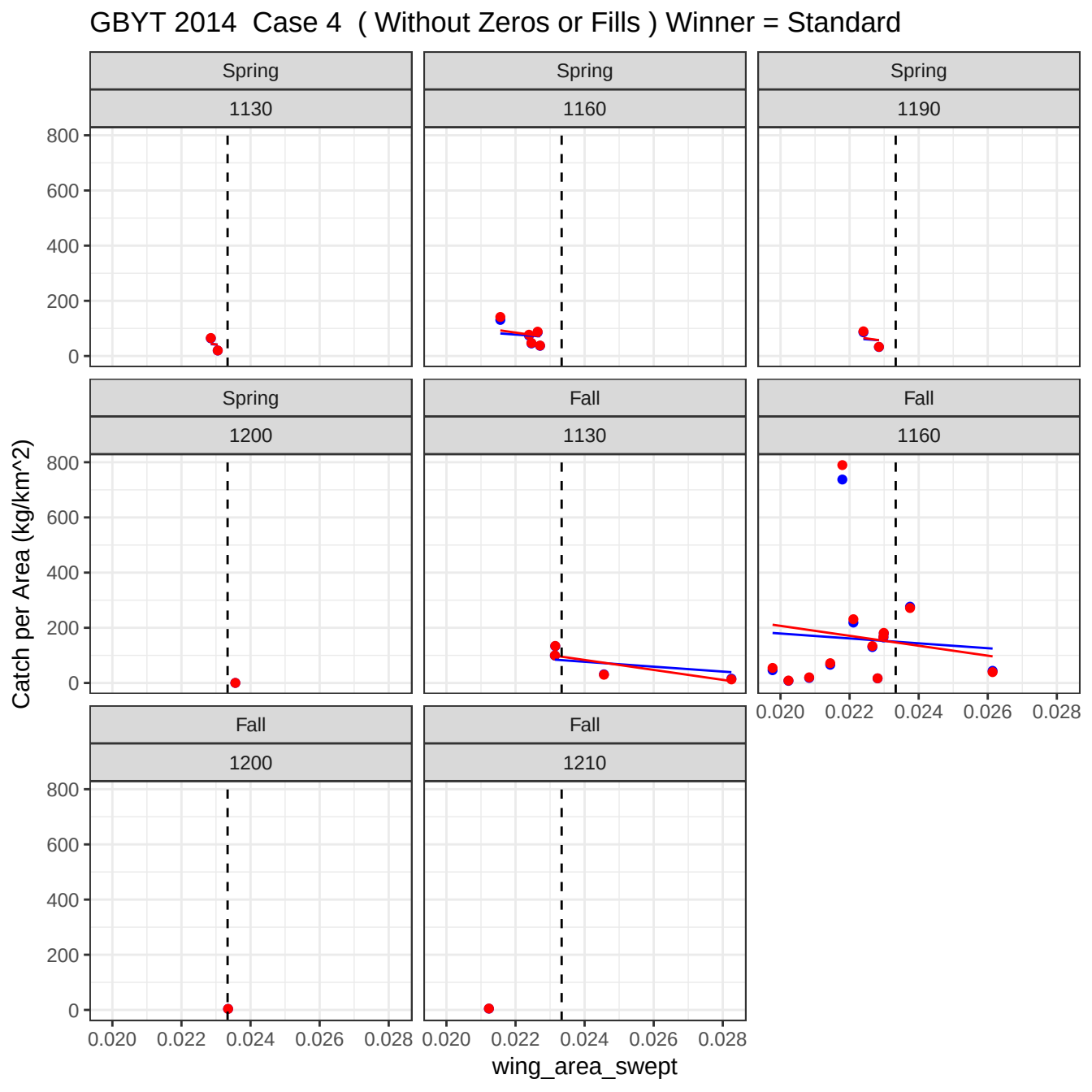

GBYT 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1170
Spring
1190
Spring
1200
Spring
1210
Fall
1130
Fall
1160
Fall
1170
Fall
1190
Fall
1200
Fall
1210
Catch per Area (kg/km^2)
wing_area_swept
0
1000
2000
3000
0.020
0.022
0.024
0.026

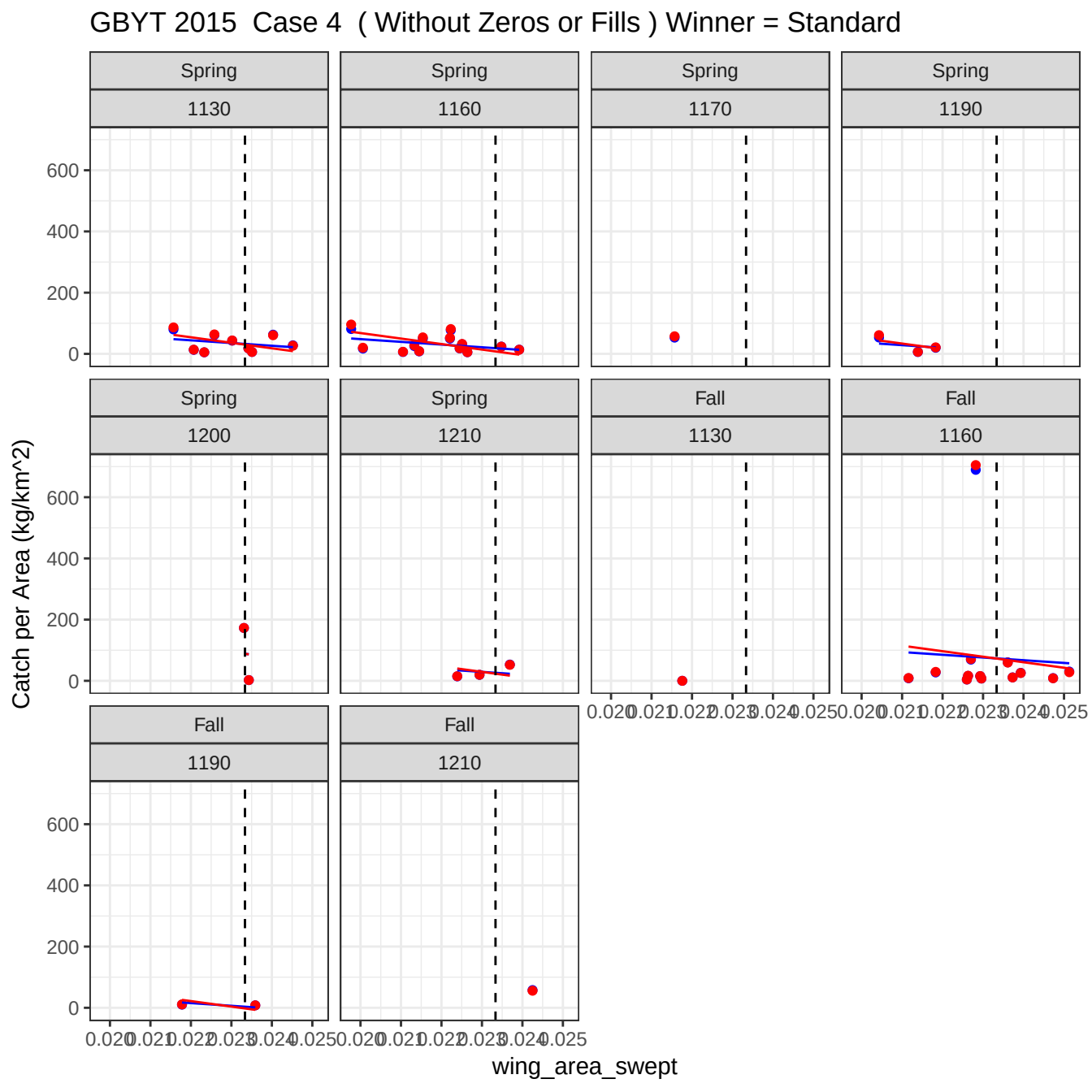

GBYT 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
1140
1160
1170
1180
1190
1200
1210
Fall
Catch per Area (kg/km^2)
0
1000
2000
3000
0.022
0.024
0.026
0.028
wing_area_swept

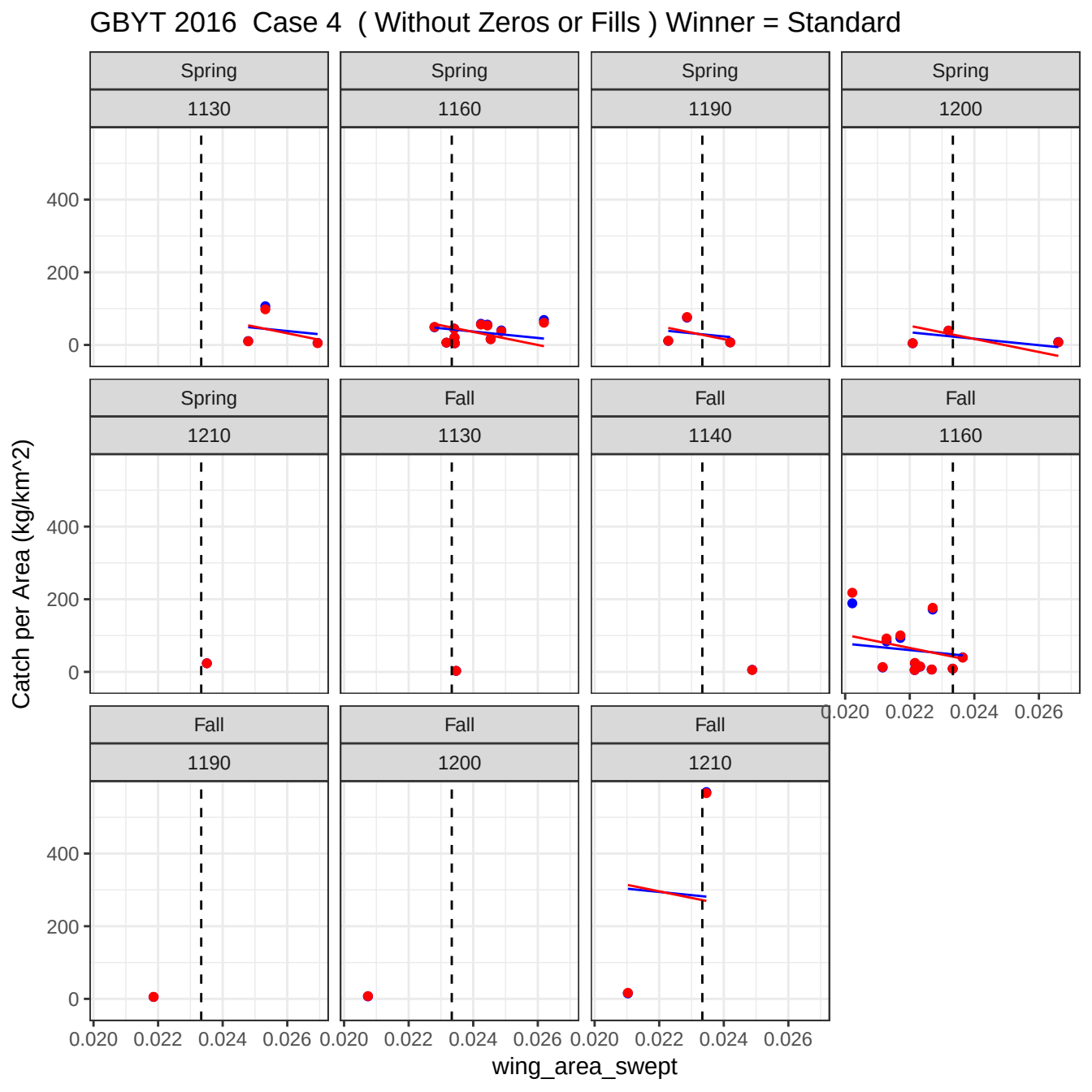

GBYT 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1140
Spring
1160
Spring
1170
Spring
1190
Spring
1200
Spring
1210
Fall
1130
Fall
1160
Fall
1170
Fall
1190
Fall
1210
Catch per Area (kg/km^2)
wing_area_swept
0
250
500
750
1000
0.018
0.020
0.022
0.024
0.026

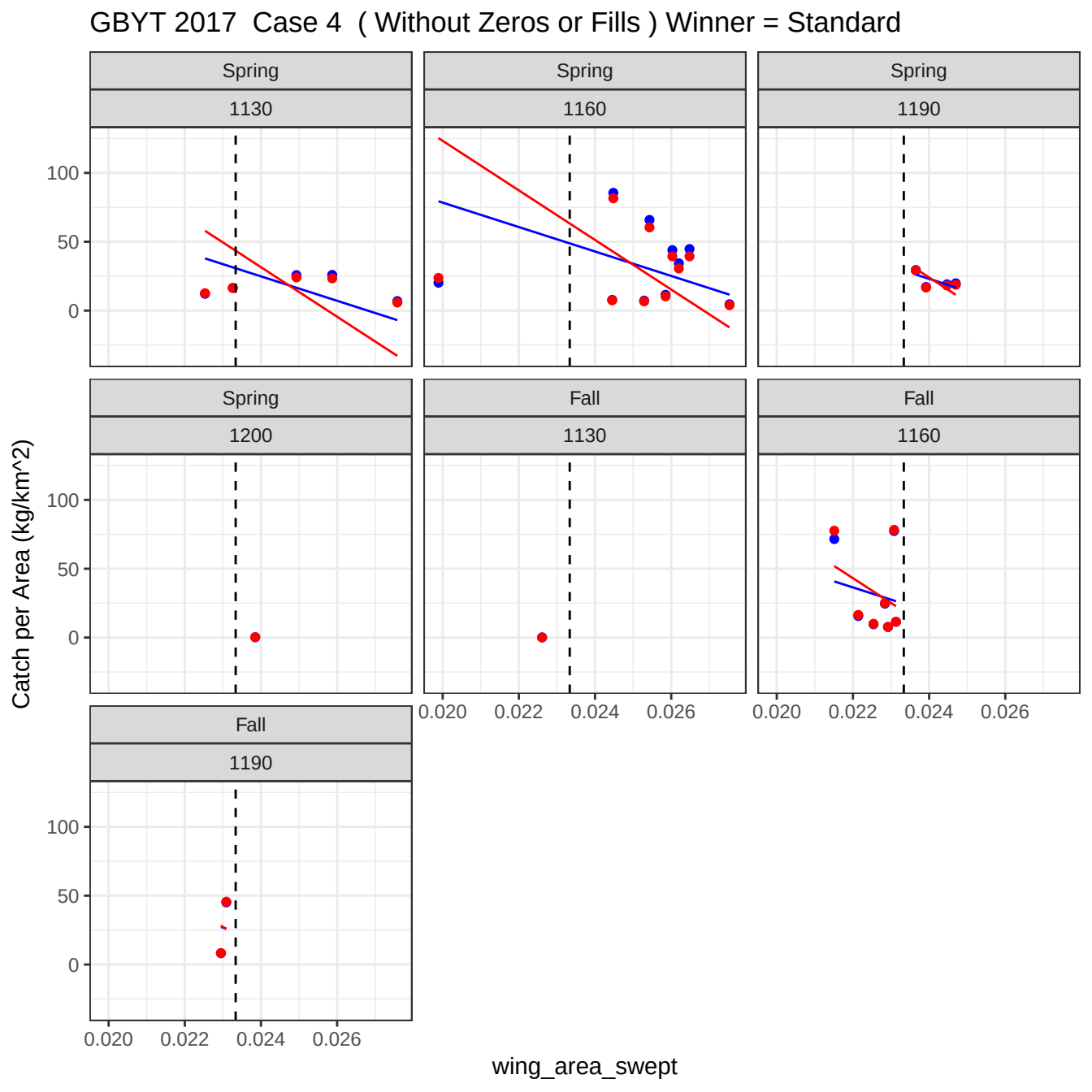

GBYT 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1180
Spring
1190
Spring
1200
Spring
1210
Fall
1130
Fall
1160
Fall
1210
Catch per Area (kg/km^2)
0
1000
2000
0.020
0.022
0.024
wing_area_swept

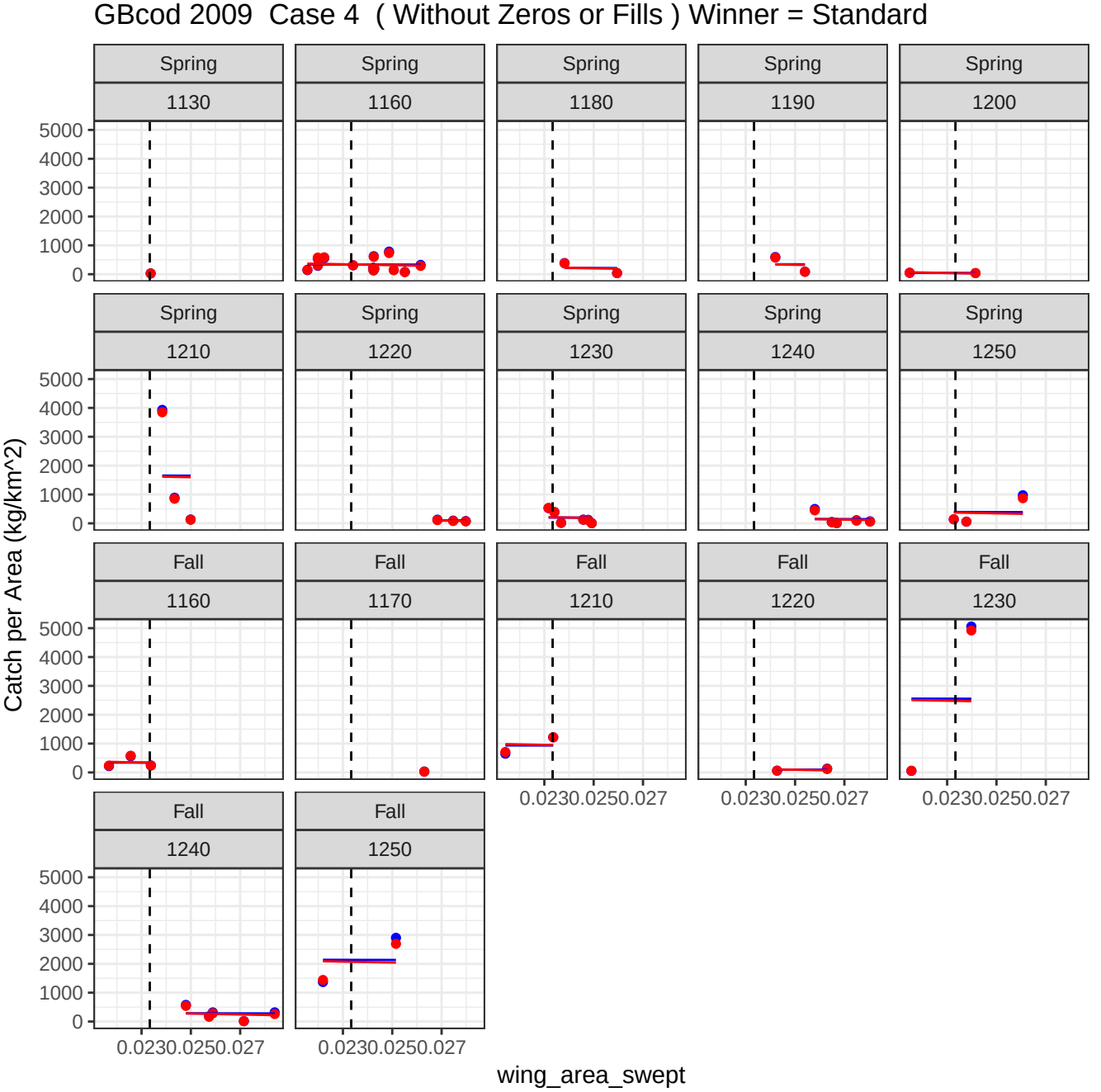

GBYT 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1170
Spring
1190
Spring
1200
Spring
1210
Fall
1130
Fall
1160
Fall
1190
Catch per Area (kg/km^2)
0
200
400
600
0.018
0.020
0.022
0.024
wing_area_swept

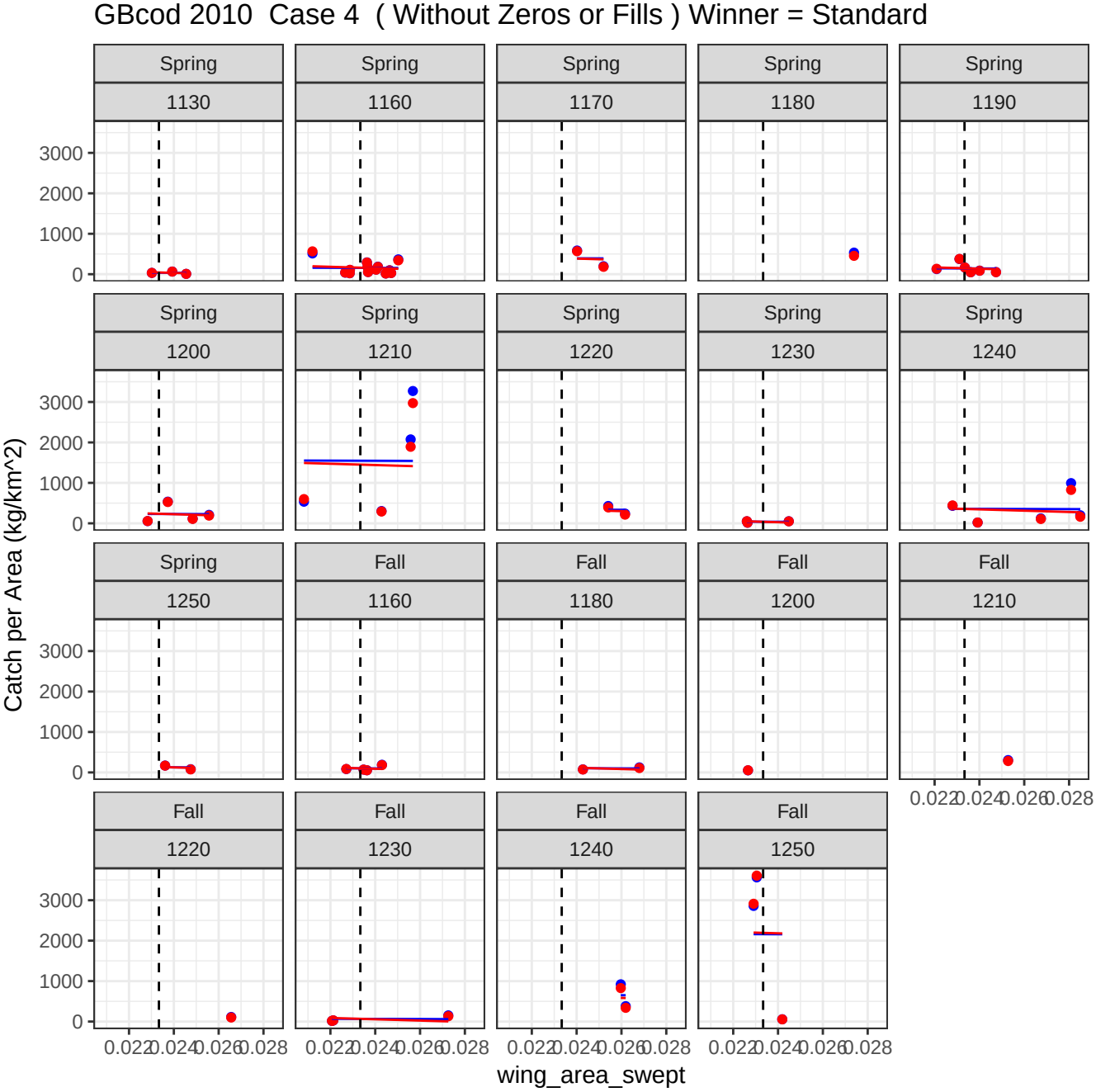

GBYT 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Fall
1130
Fall
1160
Fall
1200
Fall
1210
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
800
0.020
0.022
0.024
0.026
0.028

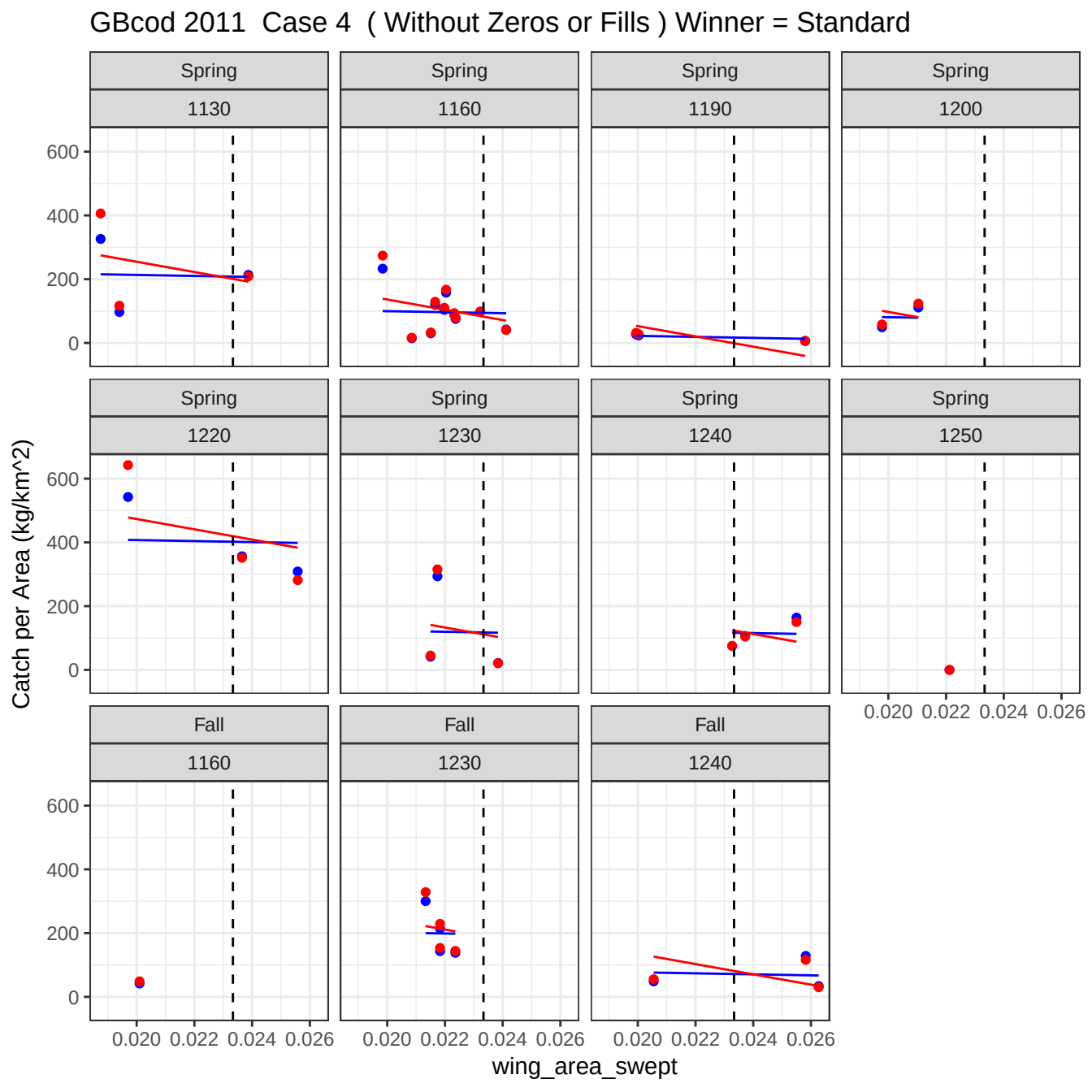

GBYT 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1170
Spring
1190
Spring
1200
Spring
1210
Fall
1130
Fall
1160
Fall
1190
Fall
1210
Catch per Area (kg/km^2)
0
200
400
600
0.020
0.021
0.022
0.023
0.024
0.025
wing_area_swept

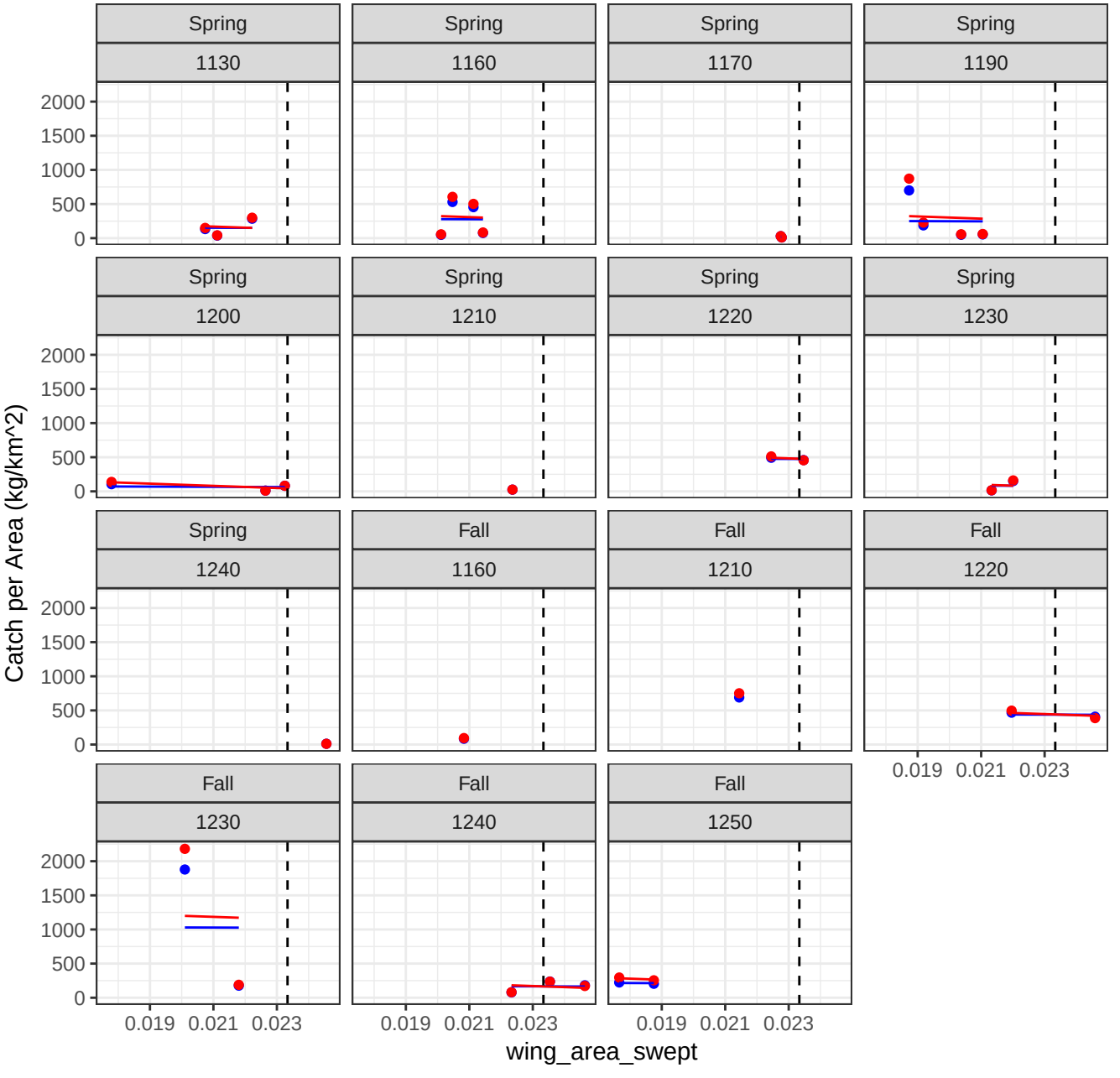

GBYT 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Spring
1210
Fall
1130
Fall
1140
Fall
1160
Fall
1190
Fall
1200
Fall
1210
Catch per Area (kg/km^2)
0
200
400
0.020
0.022
0.024
0.026
wing_area_swept

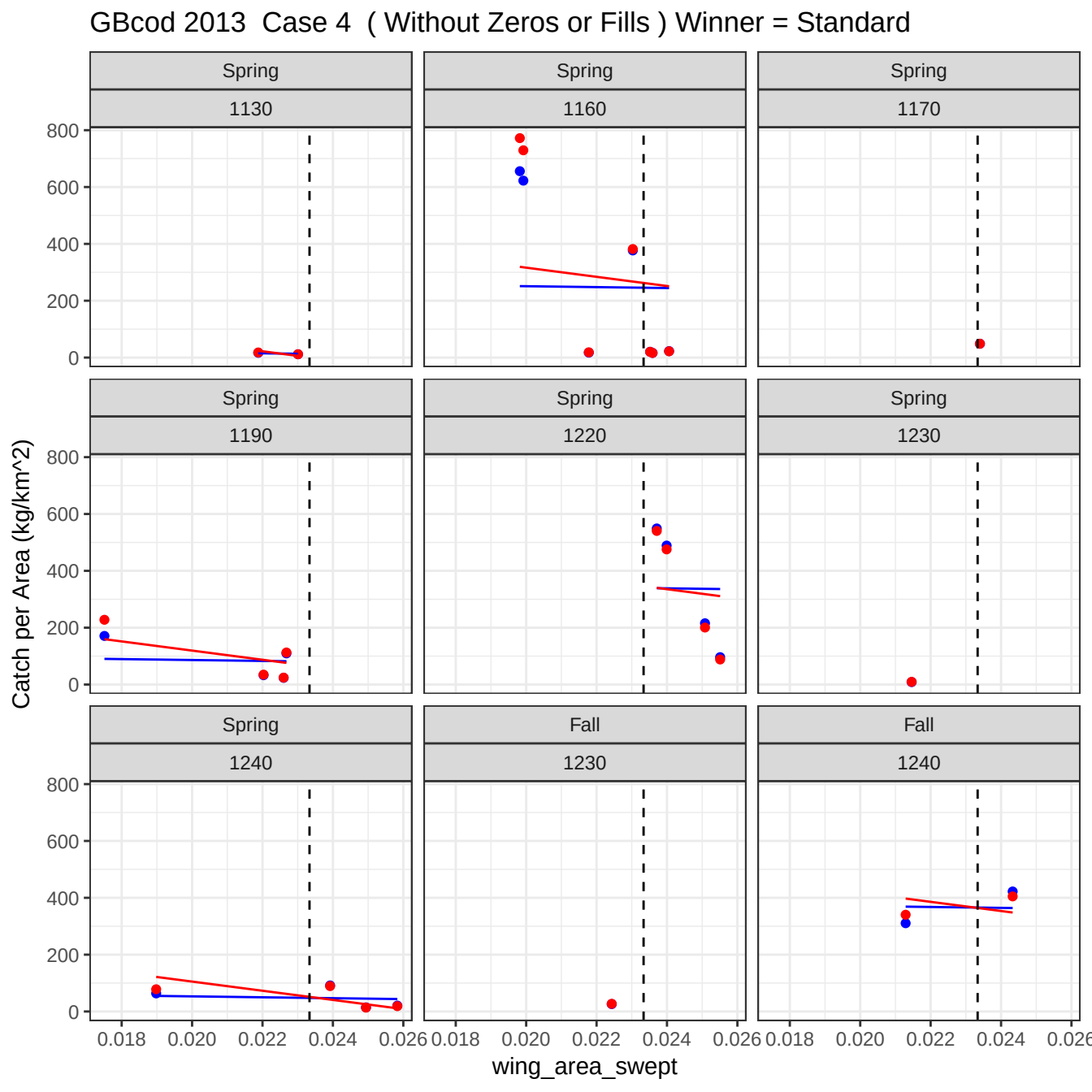

GBYT 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Fall
1130
Fall
1160
Fall
1190
100
50
0
0.020
0.022
0.024
0.026
Catch per Area (kg/km^2)
wing_area_swept

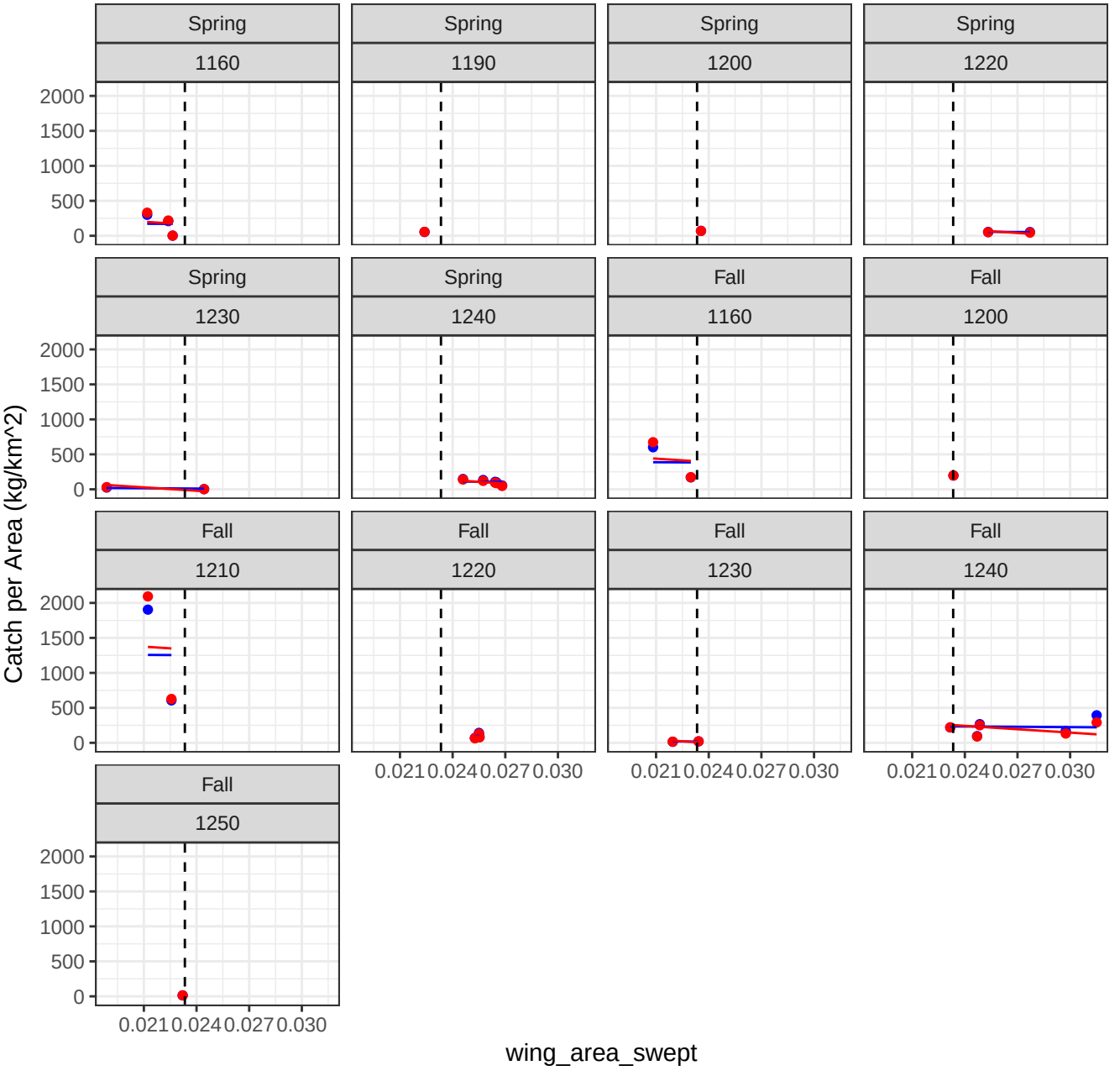

GBcod 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
1160
1180
1190
1200
1210
1220
1230
1240
1250
Fall
1160
1170
1210
1220
1230
1240
1250
5000
4000
3000
2000
1000
0
0.0230.0250.027
Catch per Area (kg/km^2)
wing_area_swept

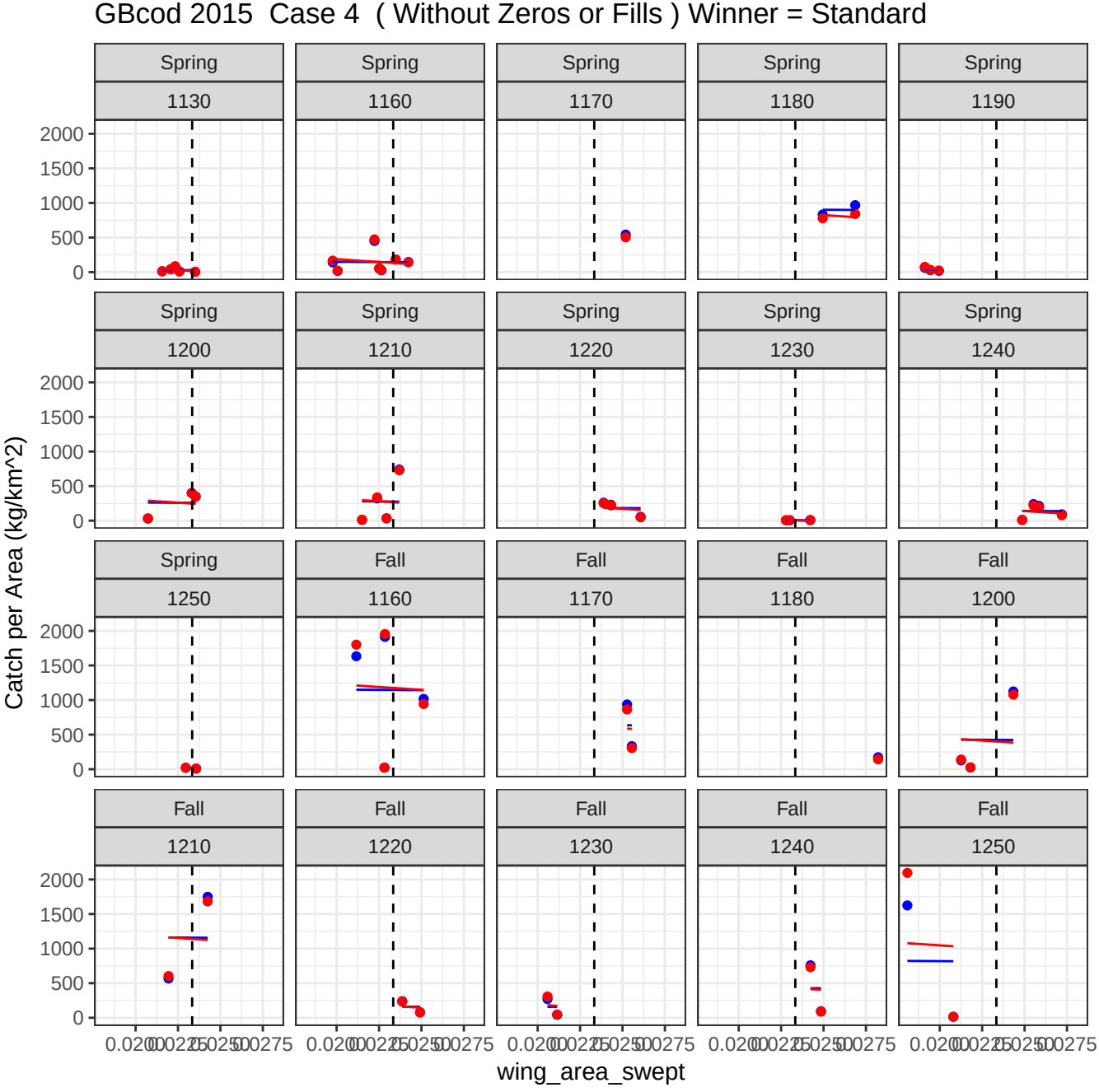

GBcod 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
Fall
1160
1180
1200
1210
1220
1230
1240
1250
Catch per Area (kg/km^2)
wing_area_swept
0
1000
2000
3000
0.022
0.024
0.026
0.028

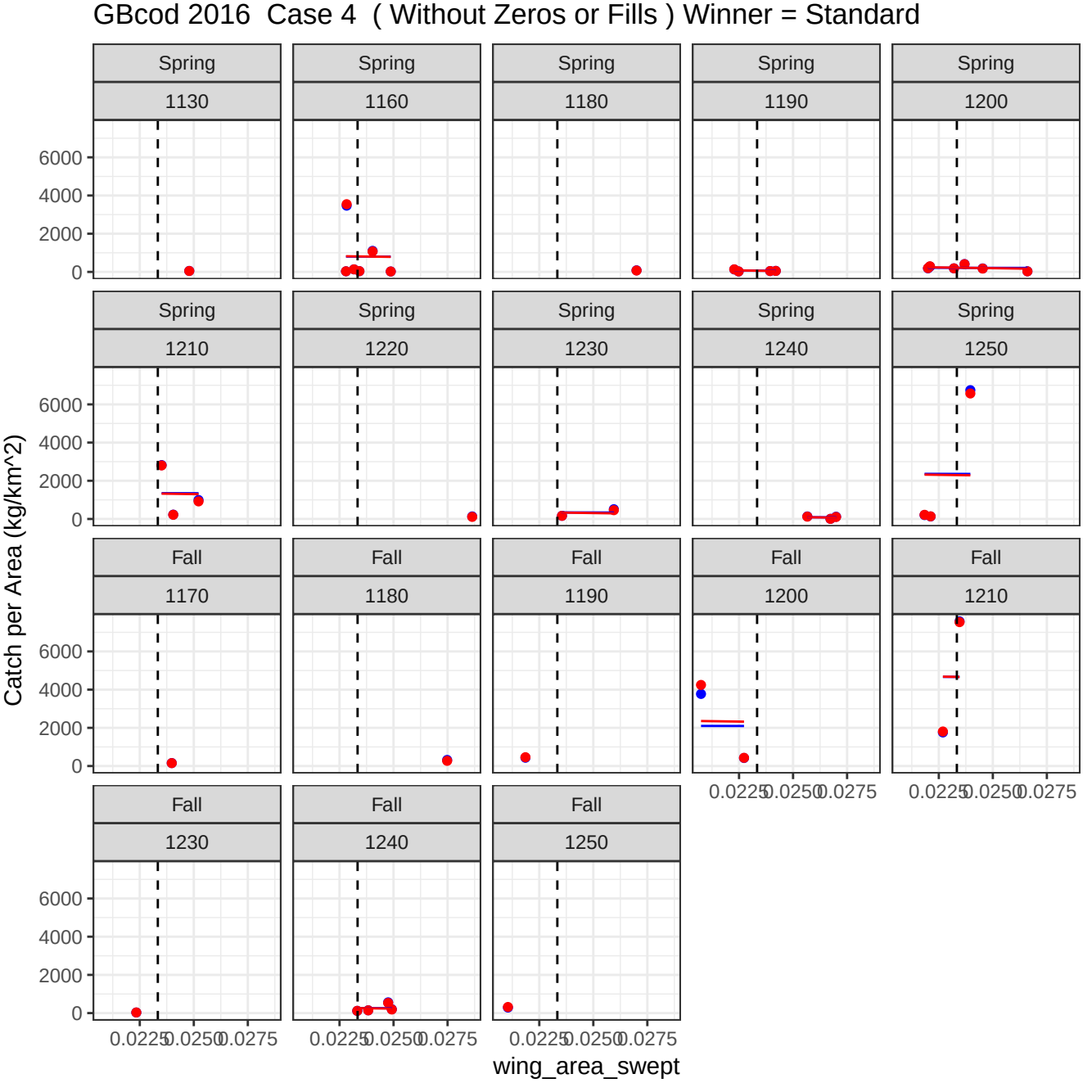

GBcod 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Spring
1220
Spring
1230
Spring
1240
Spring
1250
Fall
1160
Fall
1230
Fall
1240
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
0.020
0.022
0.024
0.026

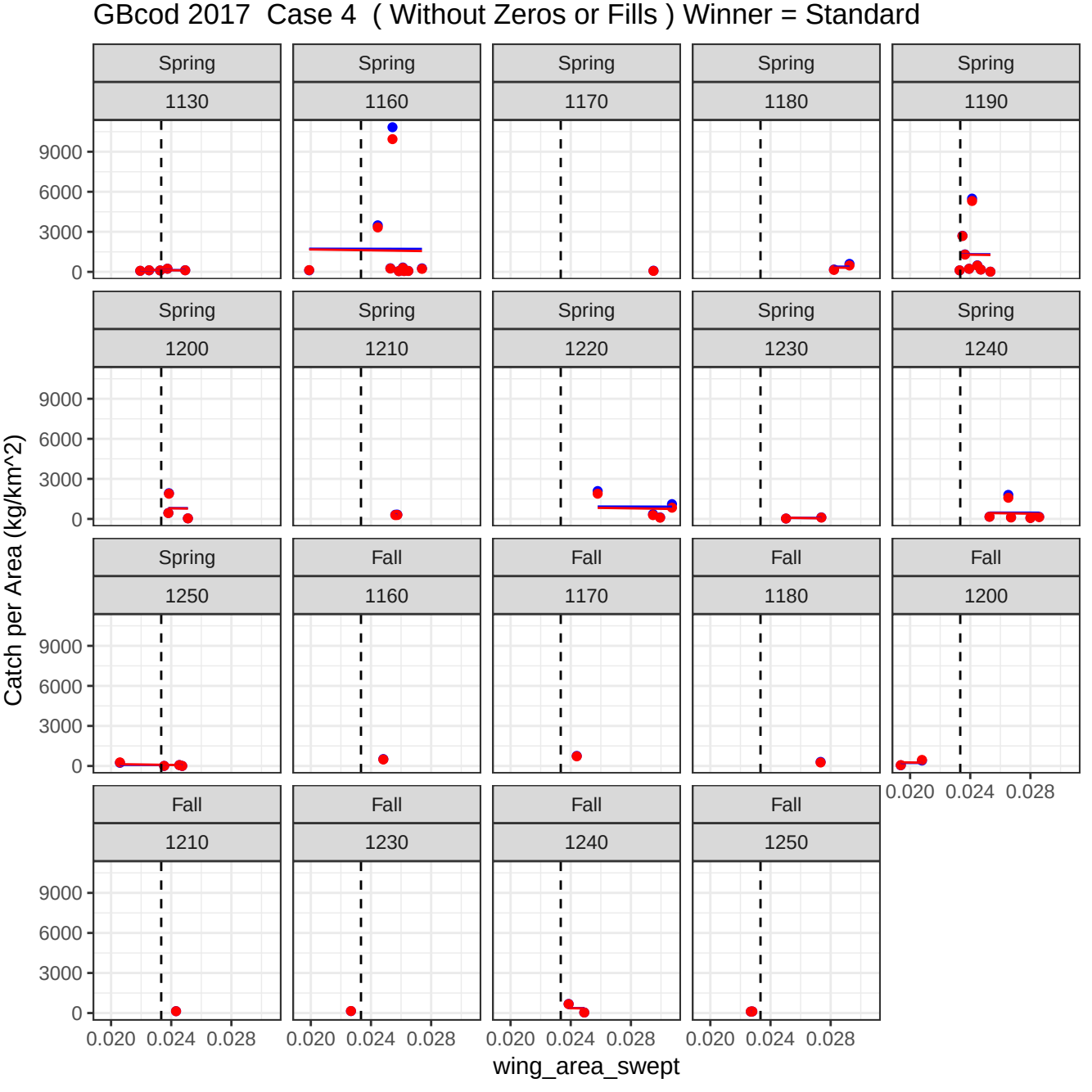

GBcod 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1170
Spring
1190
Spring
1200
Spring
1210
Spring
1220
Spring
1230
Spring
1240
Fall
1160
Fall
1210
Fall
1220
Fall
1230
Fall
1240
Fall
1250
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
2000
0.019
0.021
0.023

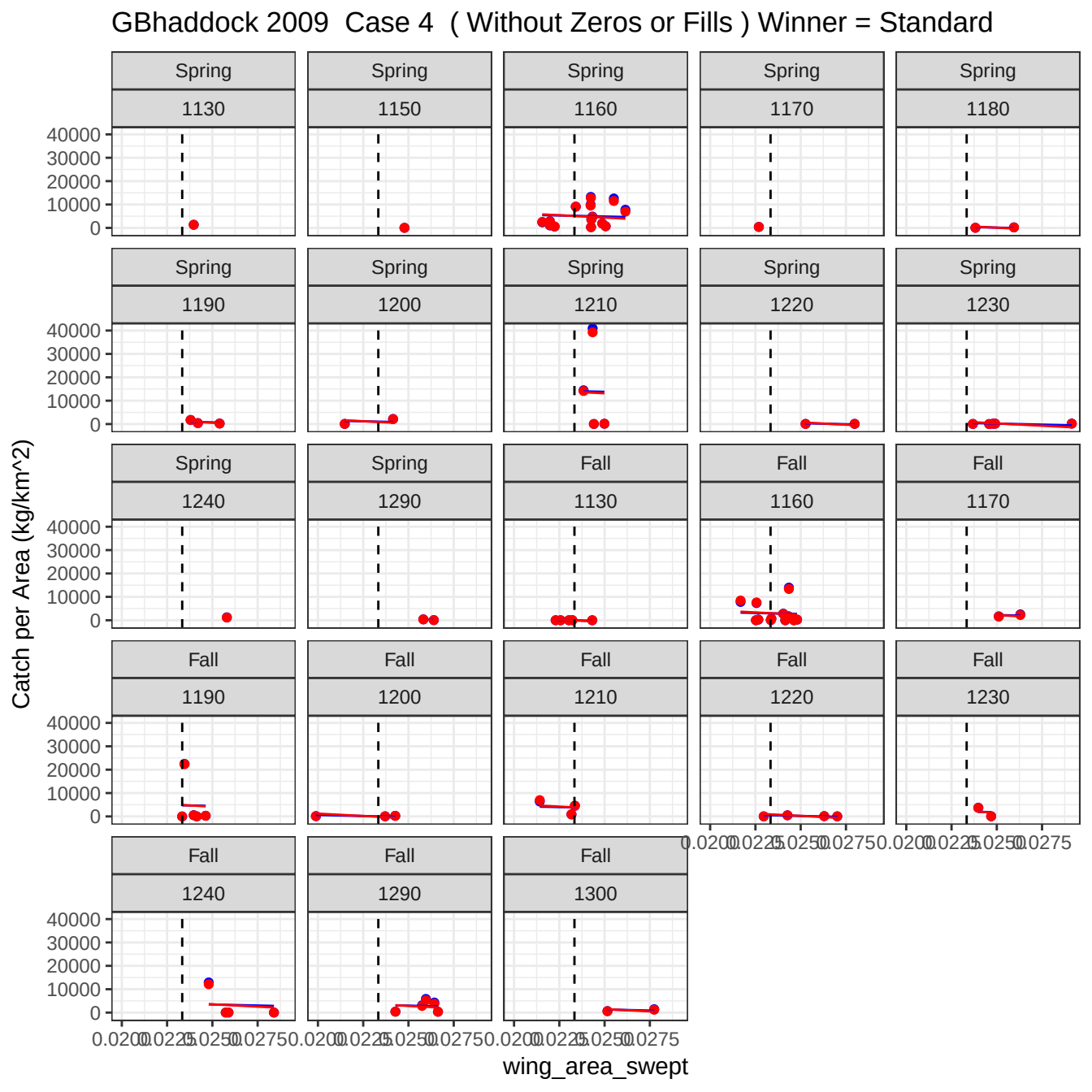

GBcod 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1170
Spring
1190
Spring
1220
Spring
1230
Spring
1240
Fall
1230
Fall
1240
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
800
0.018
0.020
0.022
0.024
0.026

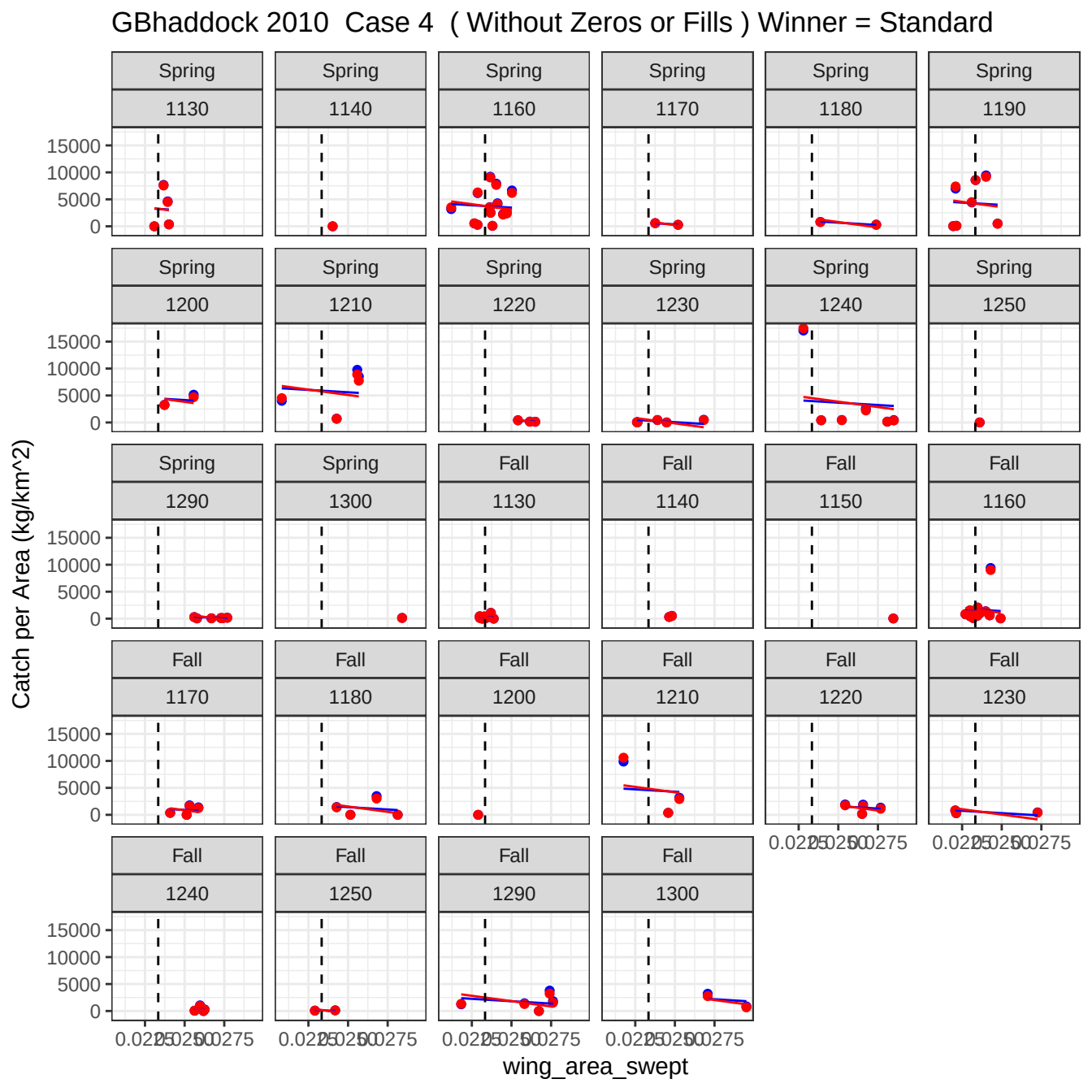

GBcod 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1160
Spring
1190
Spring
1200
Spring
1220
Spring
1230
Spring
1240
Fall
1160
Fall
1200
Fall
1210
Fall
1220
Fall
1230
Fall
1240
Fall
1250
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
2000
0.021
0.024
0.027
0.030

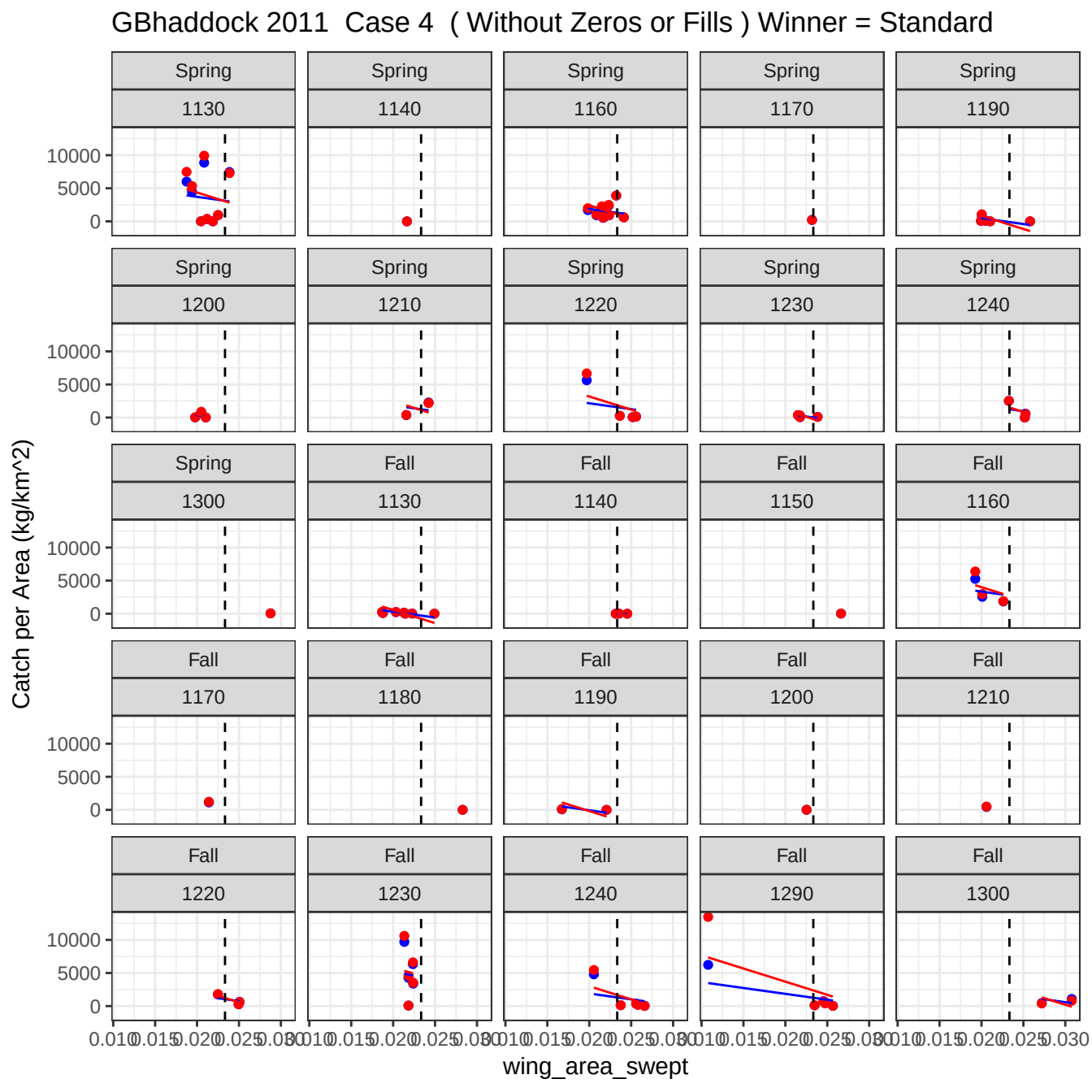

GBcod 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1170
Spring
1180
Spring
1190
Spring
1200
Spring
1210
Spring
1220
Spring
1230
Spring
1240
Spring
1250
Fall
1160
Fall
1170
Fall
1180
Fall
1200
Fall
1210
Fall
1220
Fall
1230
Fall
1240
Fall
1250
Catch per Area (kg/km^2)
0
500
1000
1500
2000
wing_area_swept

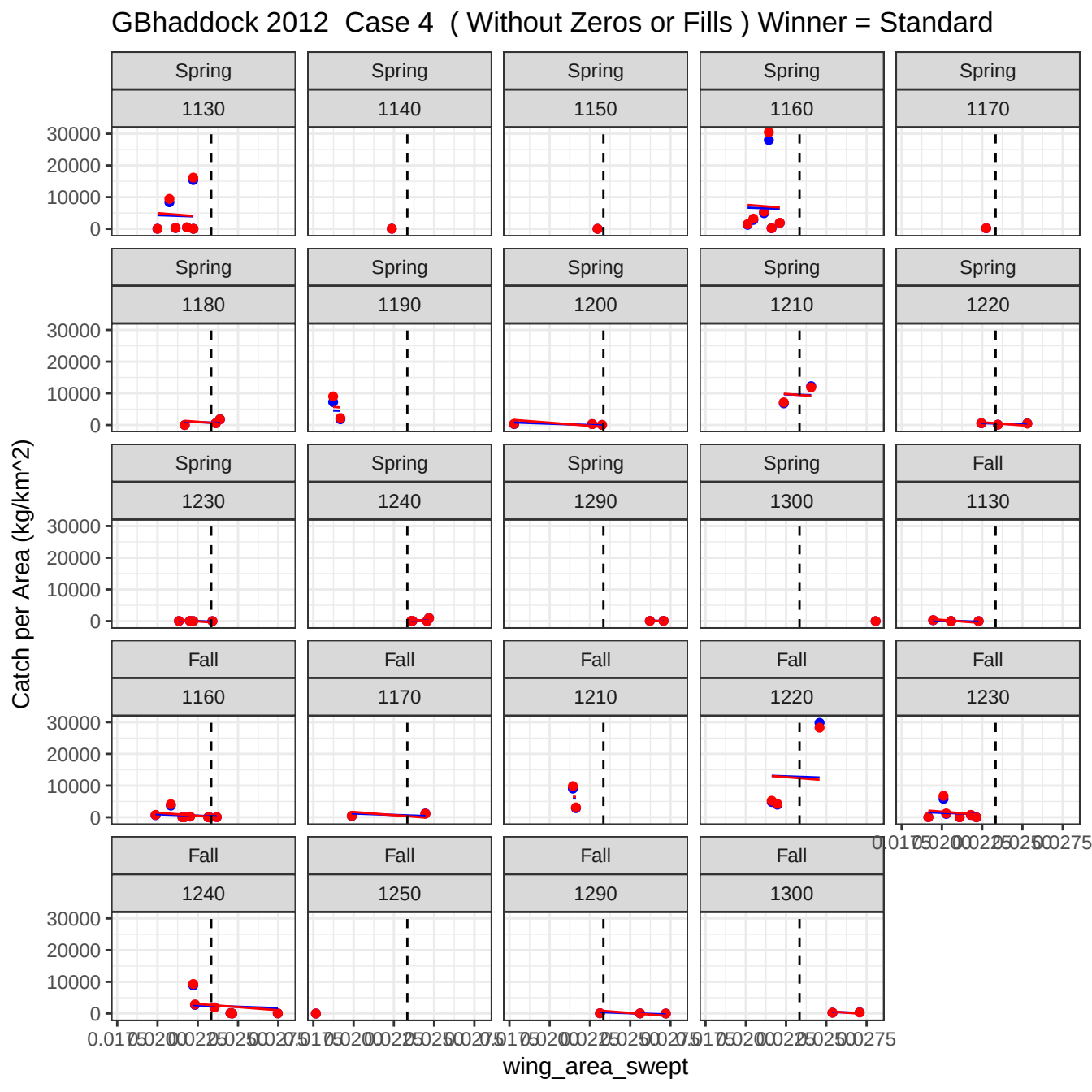

GBcod 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
1160
1180
1190
1200
1210
1220
1230
1240
1250
Fall
1170
1180
1190
1200
1210
1230
1240
1250
Catch per Area (kg/km^2)
wing_area_swept
0
2000
4000
6000
0.0225
0.0250
0.0275

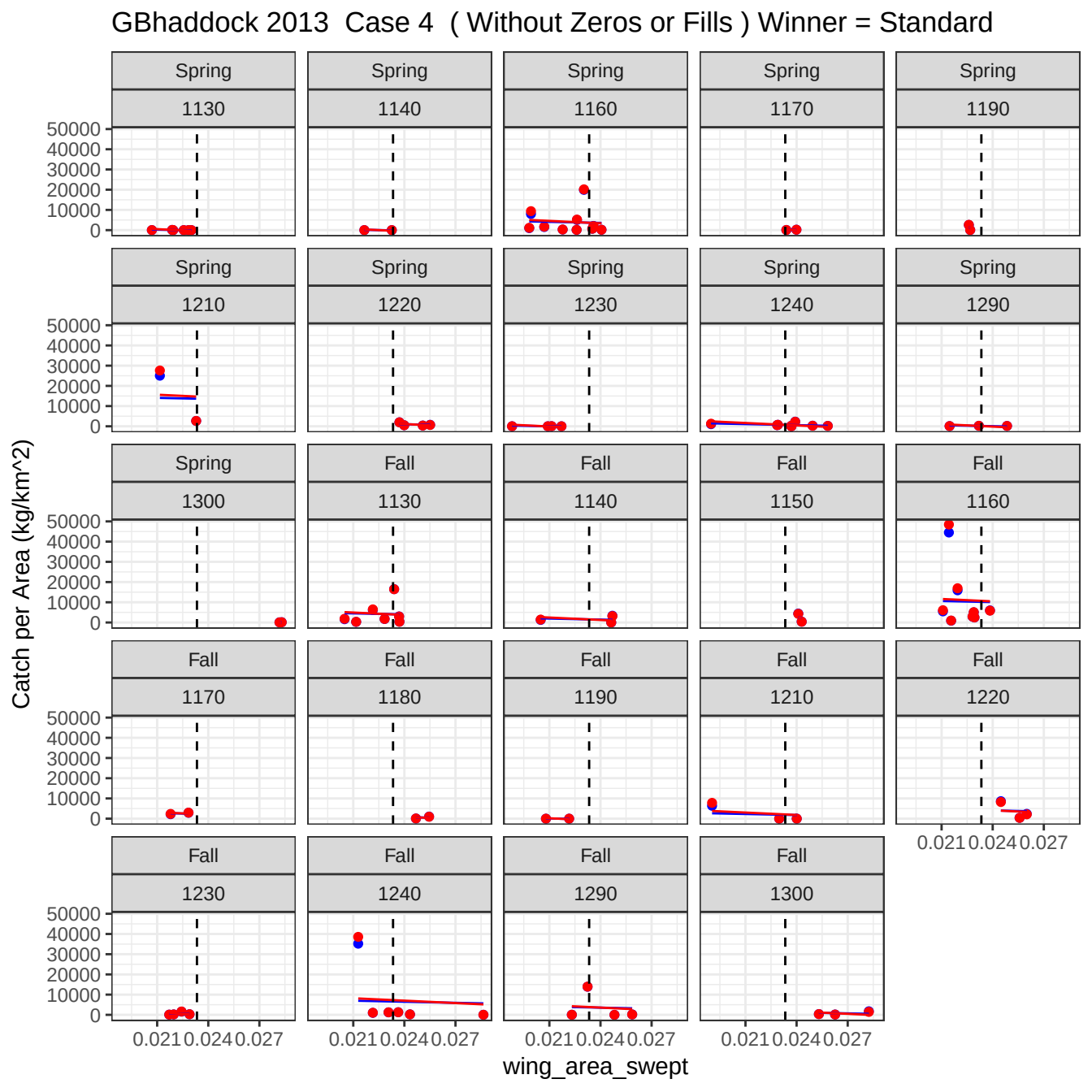

GBcod 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1130
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Fall 1160
Fall 1170
Fall 1180
Fall 1200
Fall 1210
Fall 1230
Fall 1240
Fall 1250
Catch per Area (kg/km^2)
0
3000
6000
9000
0.020
0.024
0.028
wing_area_swept

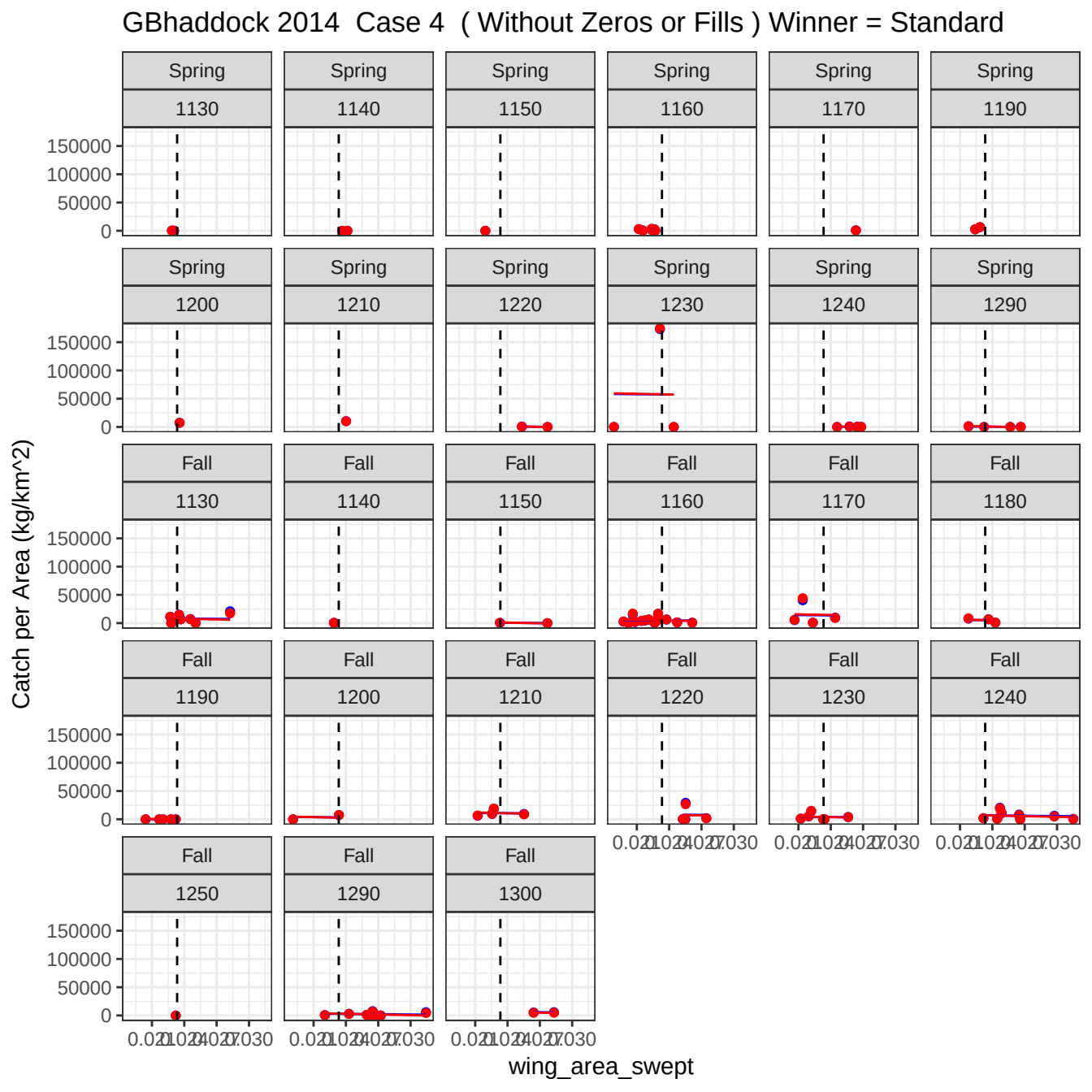

GBhaddock 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1130
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1290
Fall 1130
Fall 1160
Fall 1170
Fall 1190
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1290
Fall 1300
Catch per Area (kg/km^2)
wing_area_swept

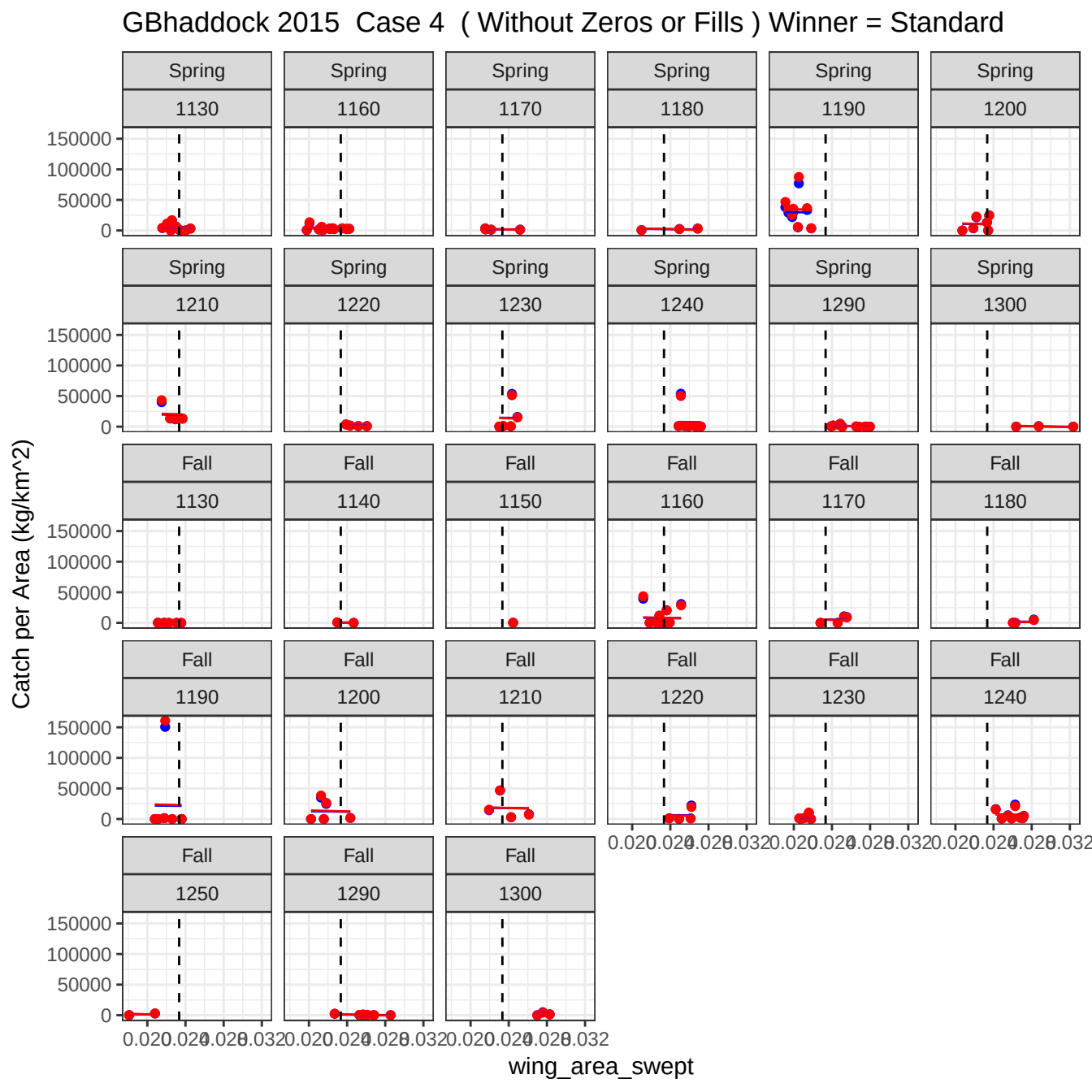

GBhaddock 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1130
Spring 1140
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1290
Spring 1300
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1290
Fall 1300
15000
10000
5000
0
0.0225
0.0250
0.0275
Catch per Area (kg/km^2)
wing_area_swept

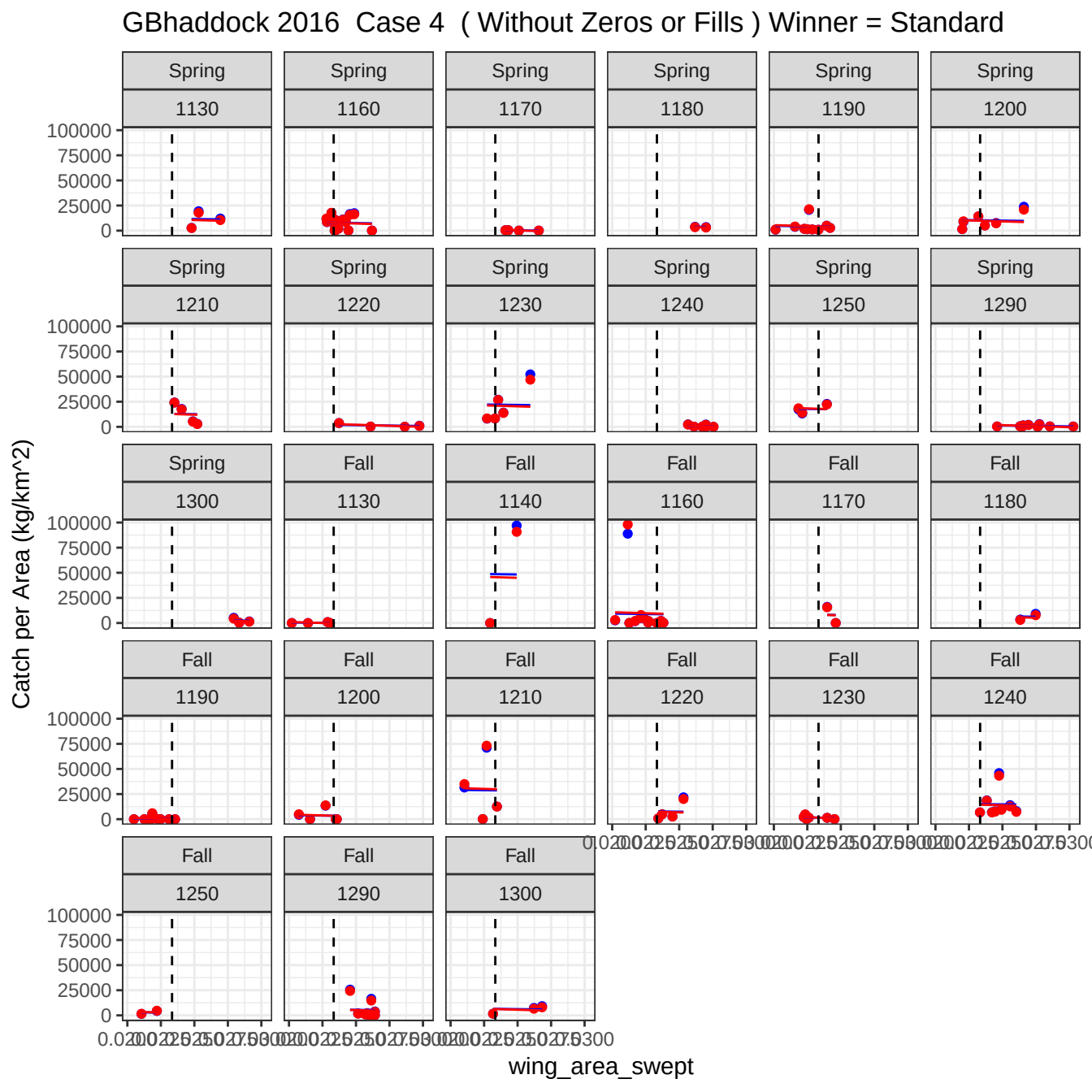

GBhaddock 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1130
Spring 1140
Spring 1160
Spring 1170
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1300
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1290
Fall 1300
Catch per Area (kg/km^2)
10000
5000
0
0.010
0.015
0.020
0.025
0.030
wing_area_swept

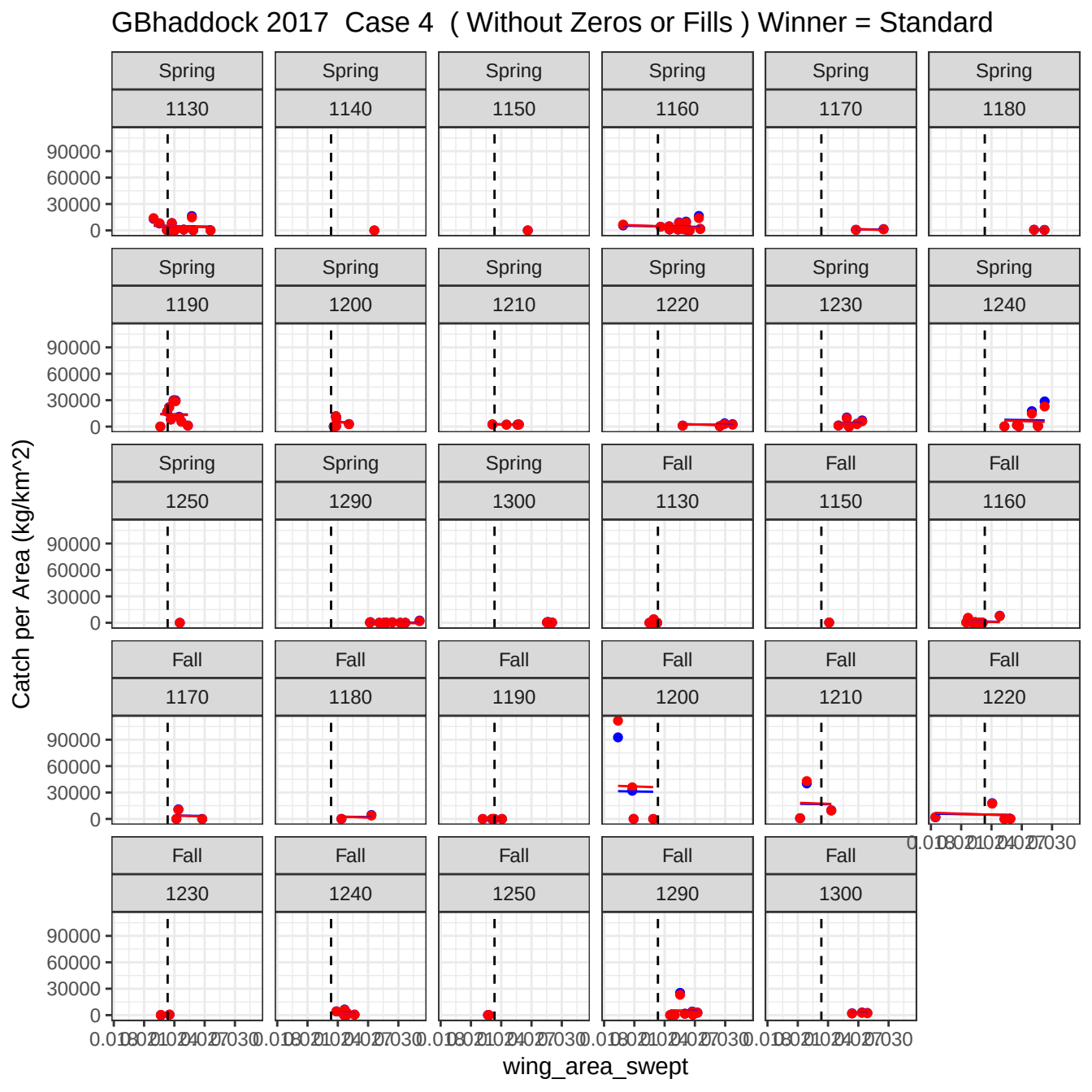

GBhaddock 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1290
Spring 1300
Fall 1130
Fall 1160
Fall 1170
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1290
Fall 1300
Catch per Area (kg/km^2)
wing_area_swept


GBhaddock 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1130
Spring 1140
Spring 1160
Spring 1170
Spring 1190
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1290
Spring 1300
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1290
Fall 1300
Catch per Area (kg/km^2)
0
10000
20000
30000
40000
50000
0.021
0.024
0.027
wing_area_swept

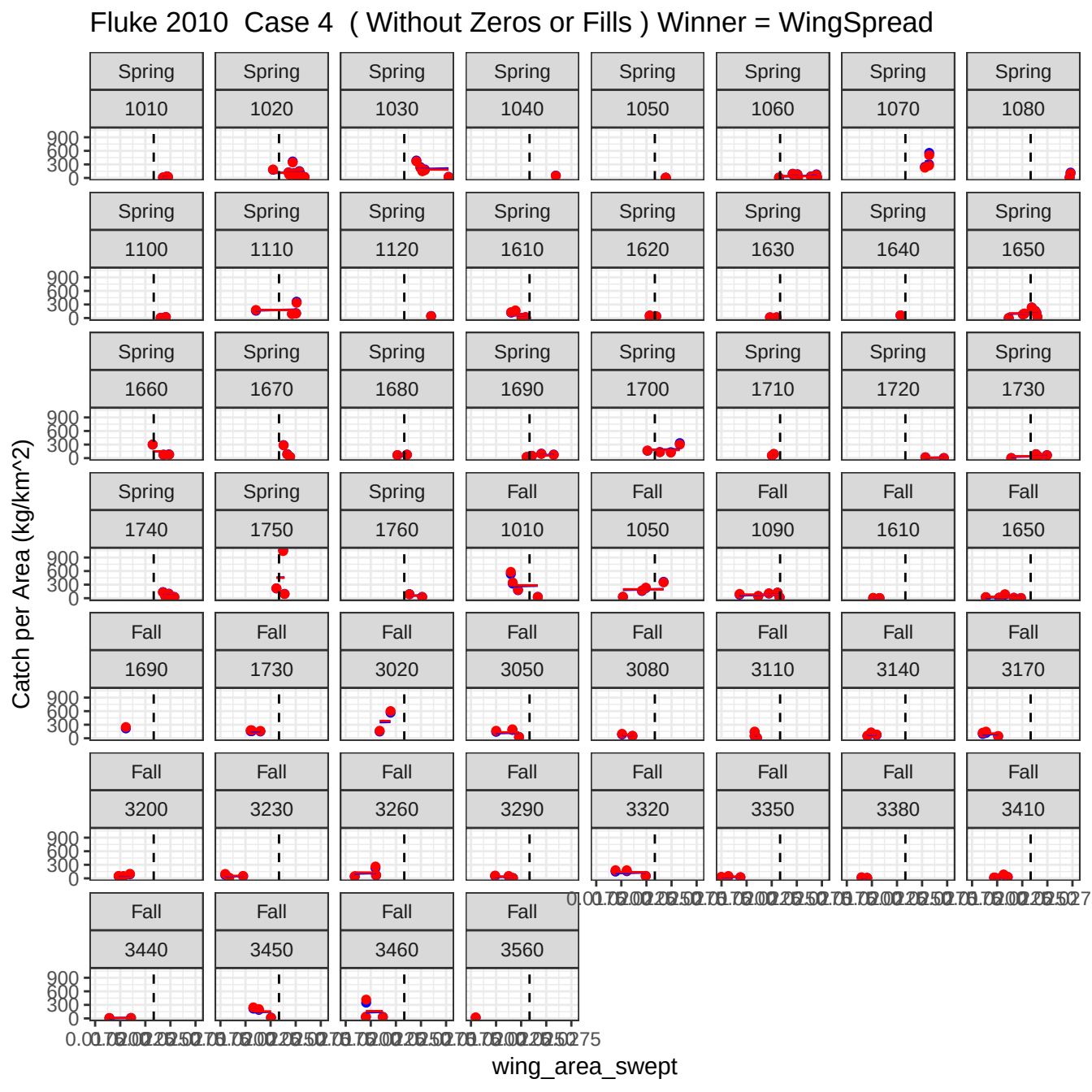

GBhaddock 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
1140
1150
1160
1170
1190
1200
1210
1220
1230
1240
1290
Fall
1130
1140
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1290
1300
150000
100000
50000
0
0.021
1.024
2.027
3.030
Catch per Area (kg/km^2)
wing_area_swept


GBhaddock 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1130
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1290
Spring 1300
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1290
Fall 1300
150000
100000
50000
0
0.020
0.024
0.028
0.032
Catch per Area (kg/km^2)
wing_area_swept


GBhaddock 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1130
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1290
Spring 1300
Fall 1130
Fall 1140
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1290
Fall 1300
100000
75000
50000
25000
0
Catch per Area (kg/km^2)
wing_area_swept


GBhaddock 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1290
Spring 1300
Fall 1130
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1290
Fall 1300
Catch per Area (kg/km^2)
0
30000
60000
90000
wing_area_swept

Fluke 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
Spring 1050
Spring 1060
Spring 1070
Spring 1090
Spring 1100
Spring 1110
Spring 1610
Spring 1620
Spring 1650
Spring 1660
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1730
Spring 1740
Spring 1750
Fall 1010
Fall 1050
Fall 1090
Fall 1610
Fall 1650
Fall 1690
Fall 1730
Fall 3020
Fall 3050
Fall 3080
Fall 3110
Fall 3140
Fall 3170
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3560
Fall 3600
Fall 3610
1000
500
0
Catch per Area (kg/km^2)
wing_area_swept


Fluke 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1100
Spring 1110
Spring 1120
Spring 1610
Spring 1620
Spring 1630
Spring 1640
Spring 1650
Spring 1660
Spring 1670
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1720
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1050
Fall 1090
Fall 1610
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Fall 1690
Fall 1730
Fall 3020
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Fall 3140
Fall 3170
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
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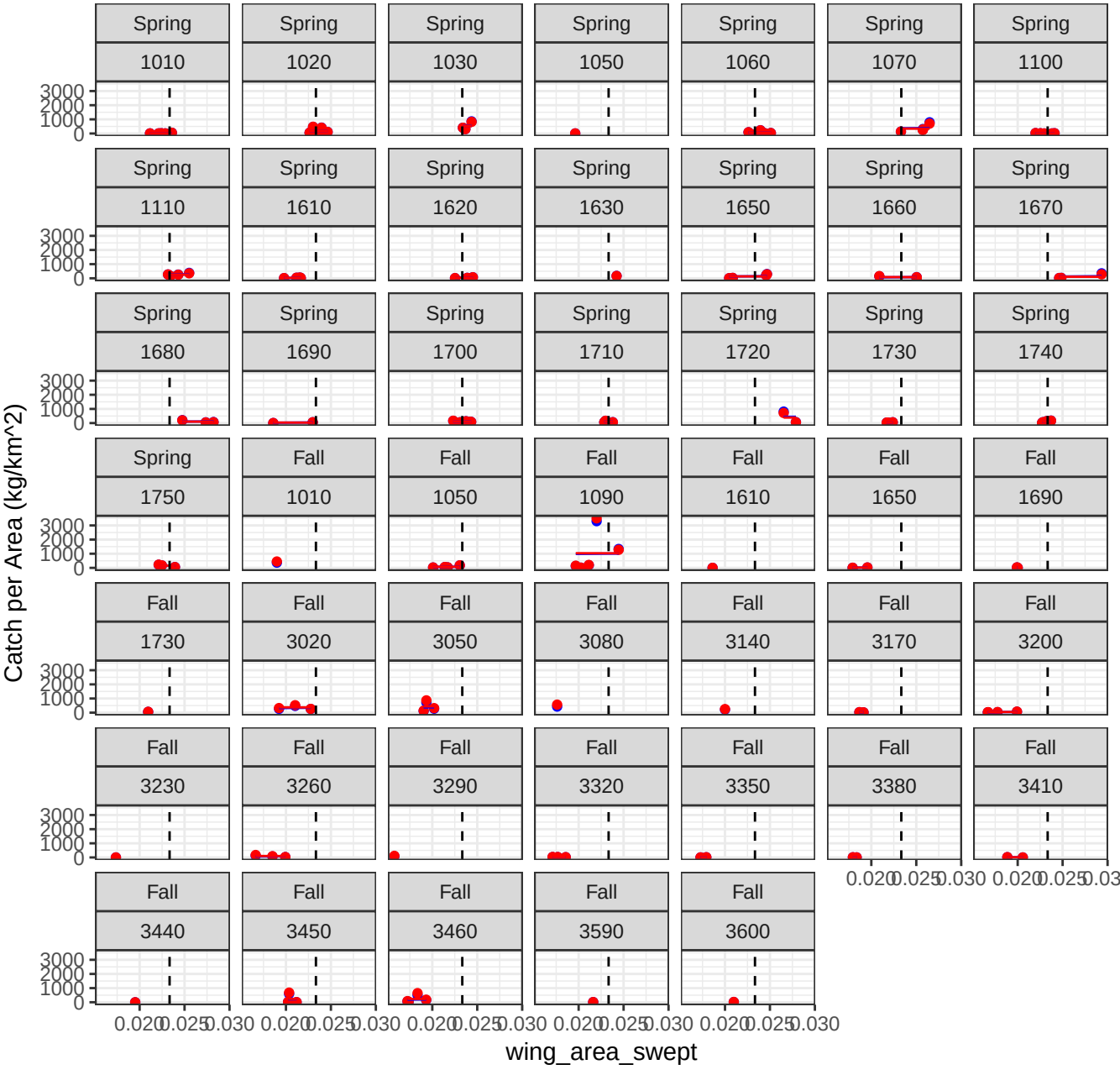
Fall 3450
Fall 3460
Fall 3560
Catch per Area (kg/km^2)
0
300
600
900
wing_area_swept


Fluke 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
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Spring 1070
Spring 1100
Spring 1110
Spring 1610
Spring 1620
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Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1720
Spring 1730
Spring 1740
Spring 1750
Fall 1010
Fall 1050
Fall 1090
Fall 1610
Fall 1650
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Fall 1730
Fall 3020
Fall 3050
Fall 3080
Fall 3140
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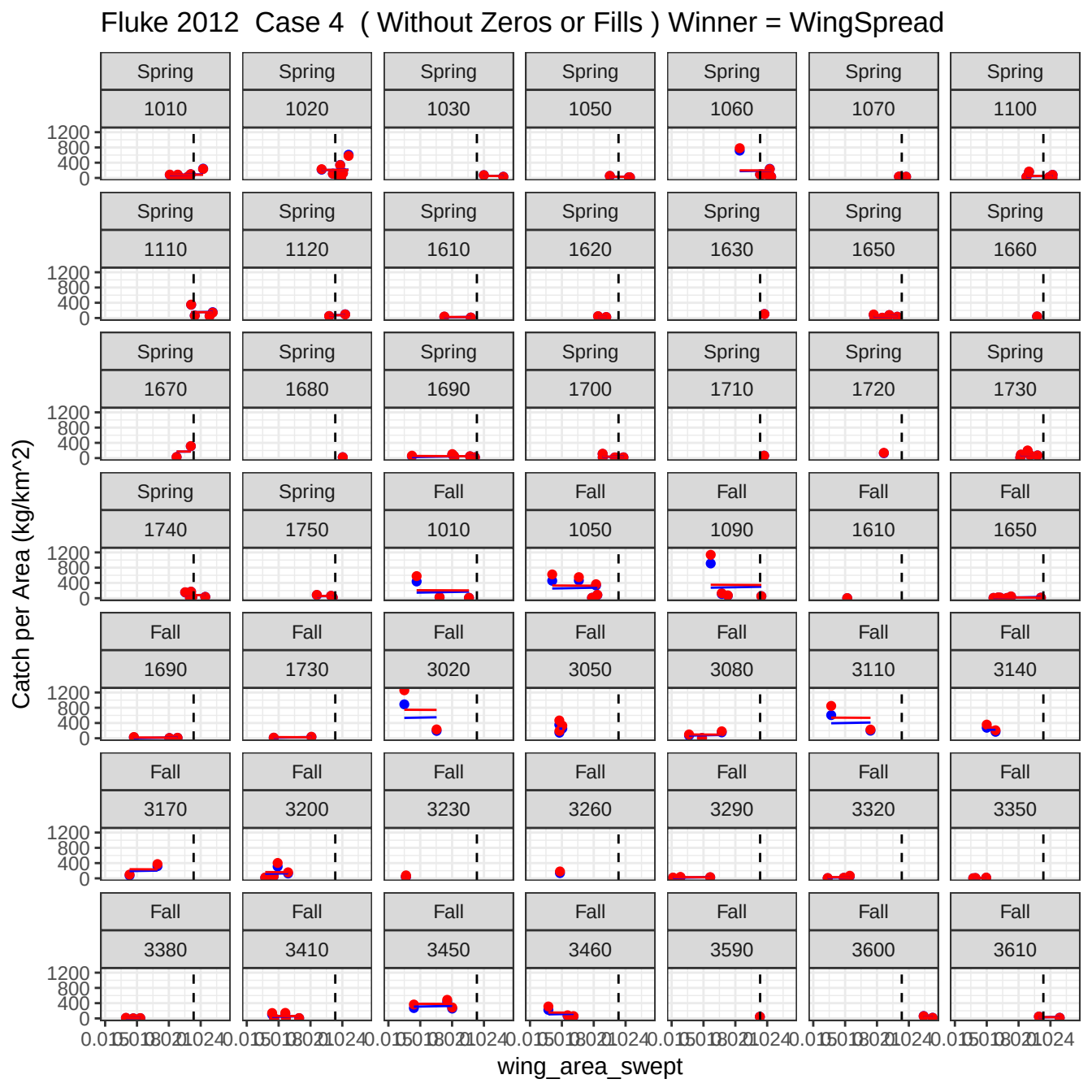
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3590
Fall 3600
Catch per Area (kg/km^2)
0
1000
2000
3000
0.020
0.025
0.030
wing_area_swept


Fluke 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
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Spring 1100
Spring 1110
Spring 1120
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Spring 1740
Spring 1750
Fall 1010
Fall 1050
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Fall 3020
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Fall 3140
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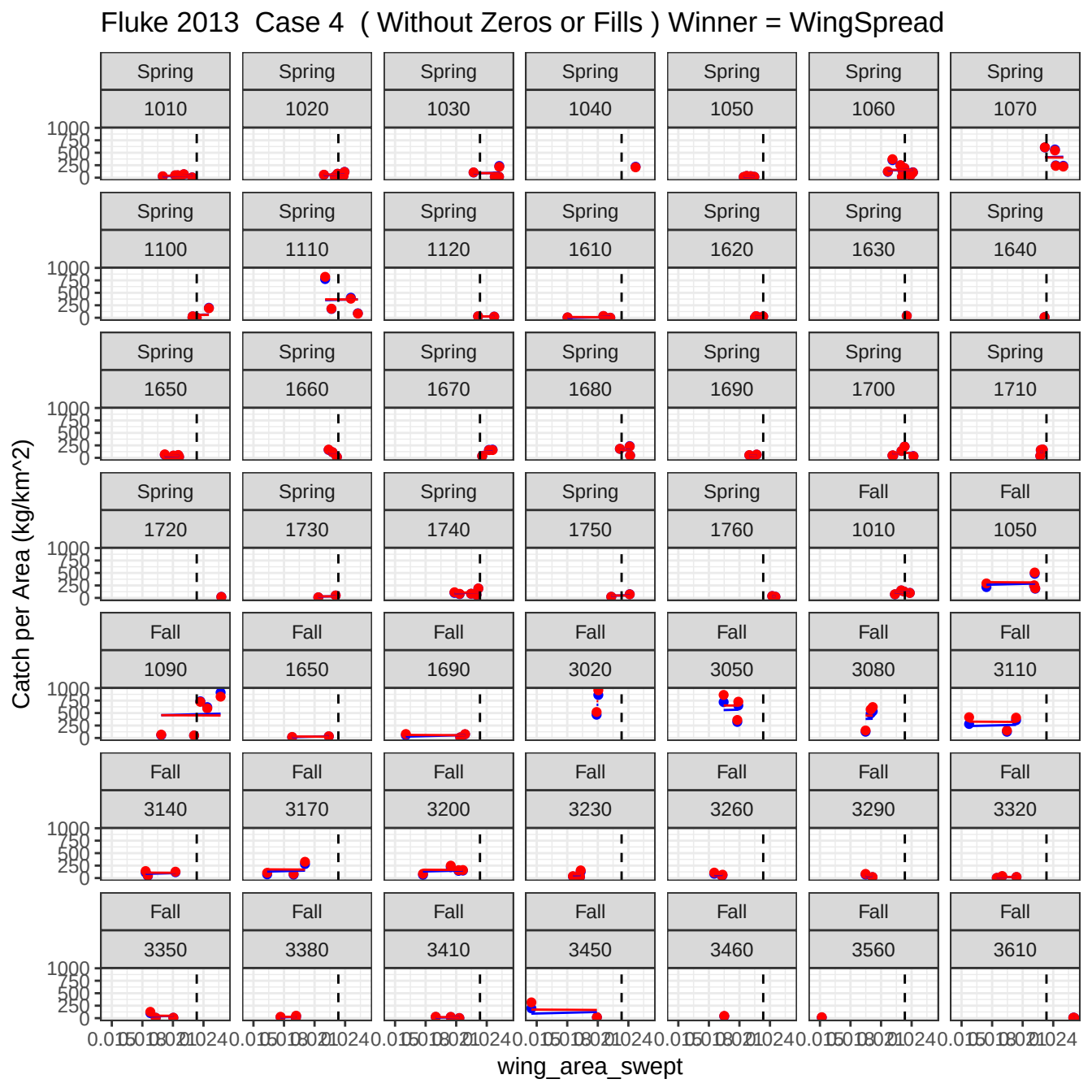
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3450
Fall 3460
Fall 3590
Fall 3600
Fall 3610
Catch per Area (kg/km^2)
0
400
800
1200
wing_area_swept


Fluke 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
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Spring 1070
Spring 1100
Spring 1110
Spring 1120
Spring 1610
Spring 1620
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Fall 1010
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Fall 1690
Fall 3020
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Fall 3140
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Fall 3200
Fall 3230
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Fall 3290
Fall 3320
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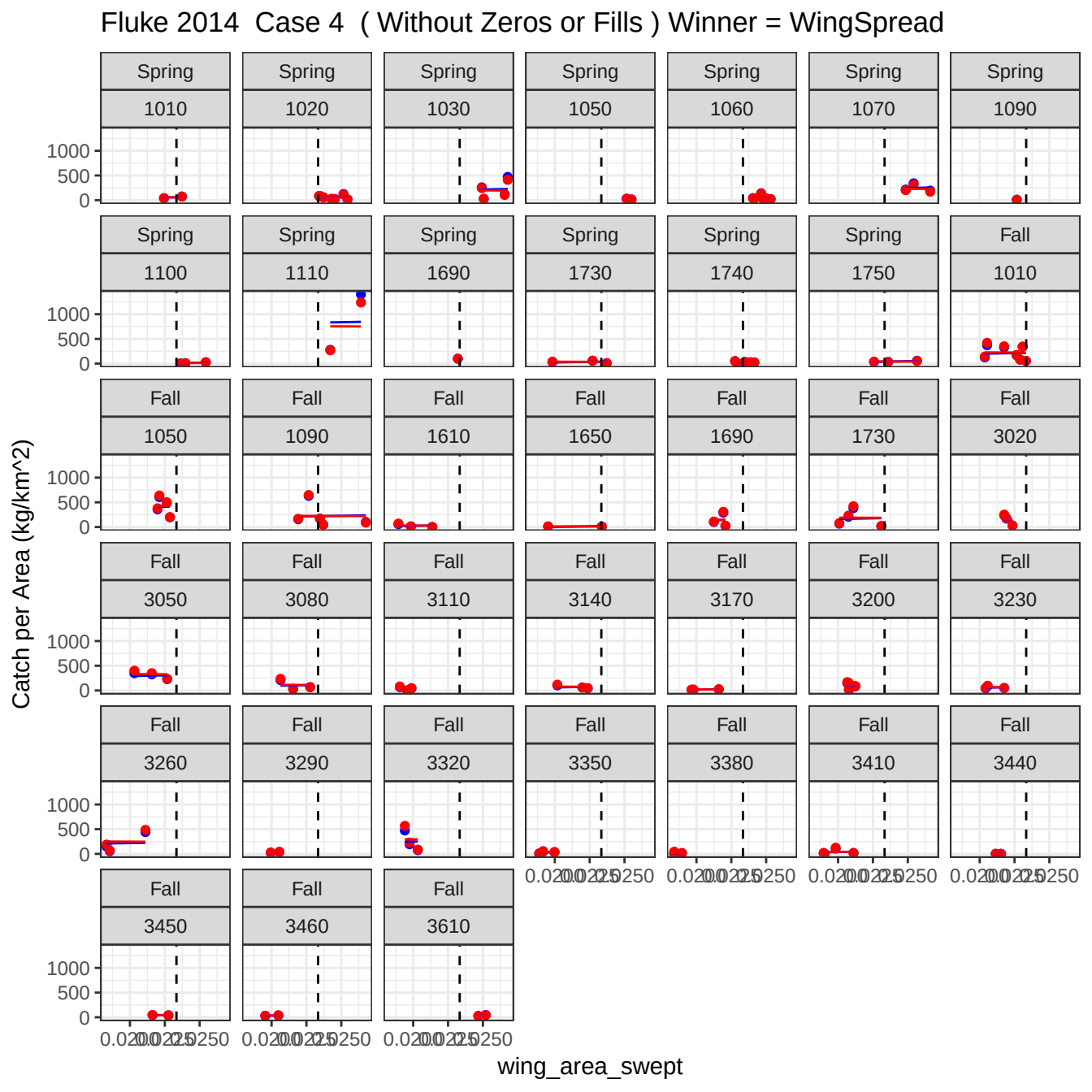
Fall 3460
Fall 3560
Fall 3610
Catch per Area (kg/km^2)
wing_area_swept


Fluke 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
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Spring 1070
Spring 1090
Spring 1100
Spring 1110
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Spring 1730
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Fall 1010
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Fall 1730
Fall 3020
Fall 3050
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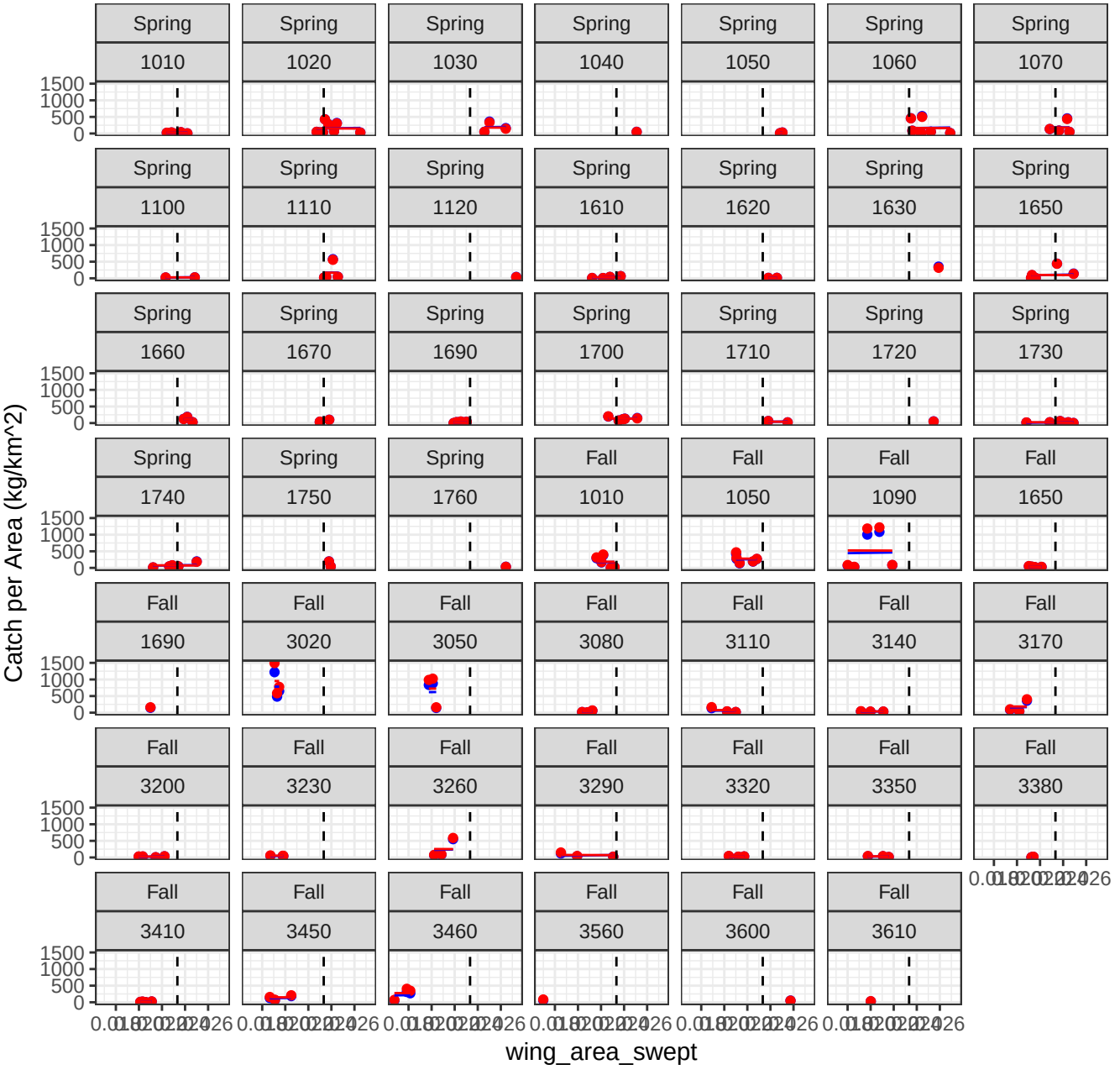
Fall 3140
Fall 3170
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3610
Catch per Area (kg/km^2)
0
500
1000
wing_area_swept


Fluke 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
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Spring 1070
Spring 1100
Spring 1110
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Spring 1610
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Spring 1670
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Spring 1760
Fall 1010
Fall 1050
Fall 1090
Fall 1650
Fall 1690
Fall 3020
Fall 3050
Fall 3080
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Fall 3140
Fall 3170
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3450
Fall 3460
Fall 3560
Fall 3600
Fall 3610
0
500
1000
1500
Catch per Area (kg/km^2)
wing_area_swept

Fluke 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
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Fall 1010
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Fall 3200
Fall 3230
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Fall 3290
Fall 3320
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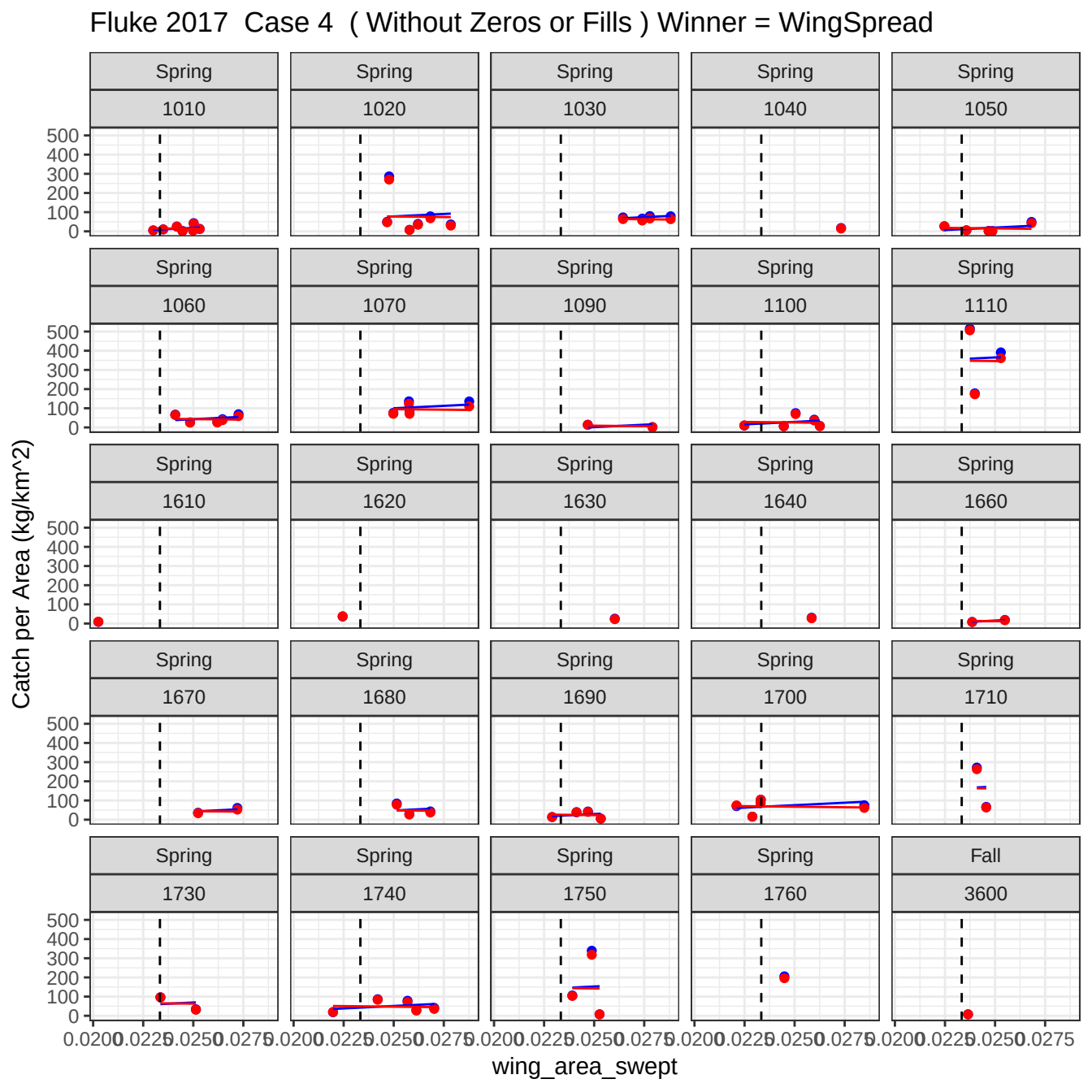
Fall 3440
Fall 3450
Fall 3460
Fall 3560
Fall 3590
Fall 3600
Fall 3610
0
250
500
750
0.00
0.75
0.50
0.25
Catch per Area (kg/km^2)
wing_area_swept


Fluke 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
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Spring 1090
Spring 1100
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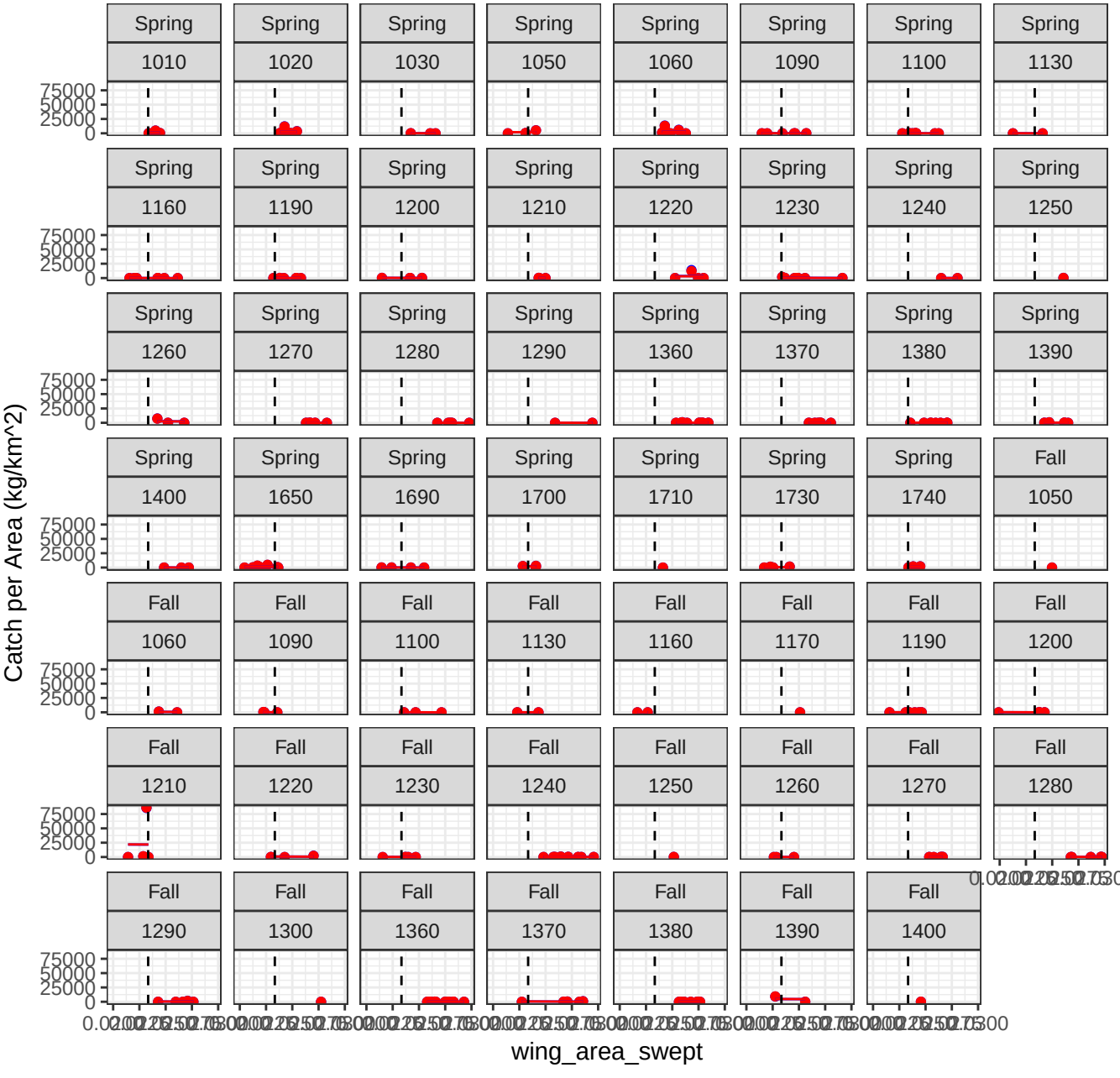
Spring 1690
Spring 1700
Spring 1710
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 3600
Catch per Area (kg/km^2)
0
100
200
300
400
500
0.0200
0.0225
0.0250
0.0275
wing_area_swept


Herring 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
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Spring 1160
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Spring 1370
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Spring 1400
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Spring 1730
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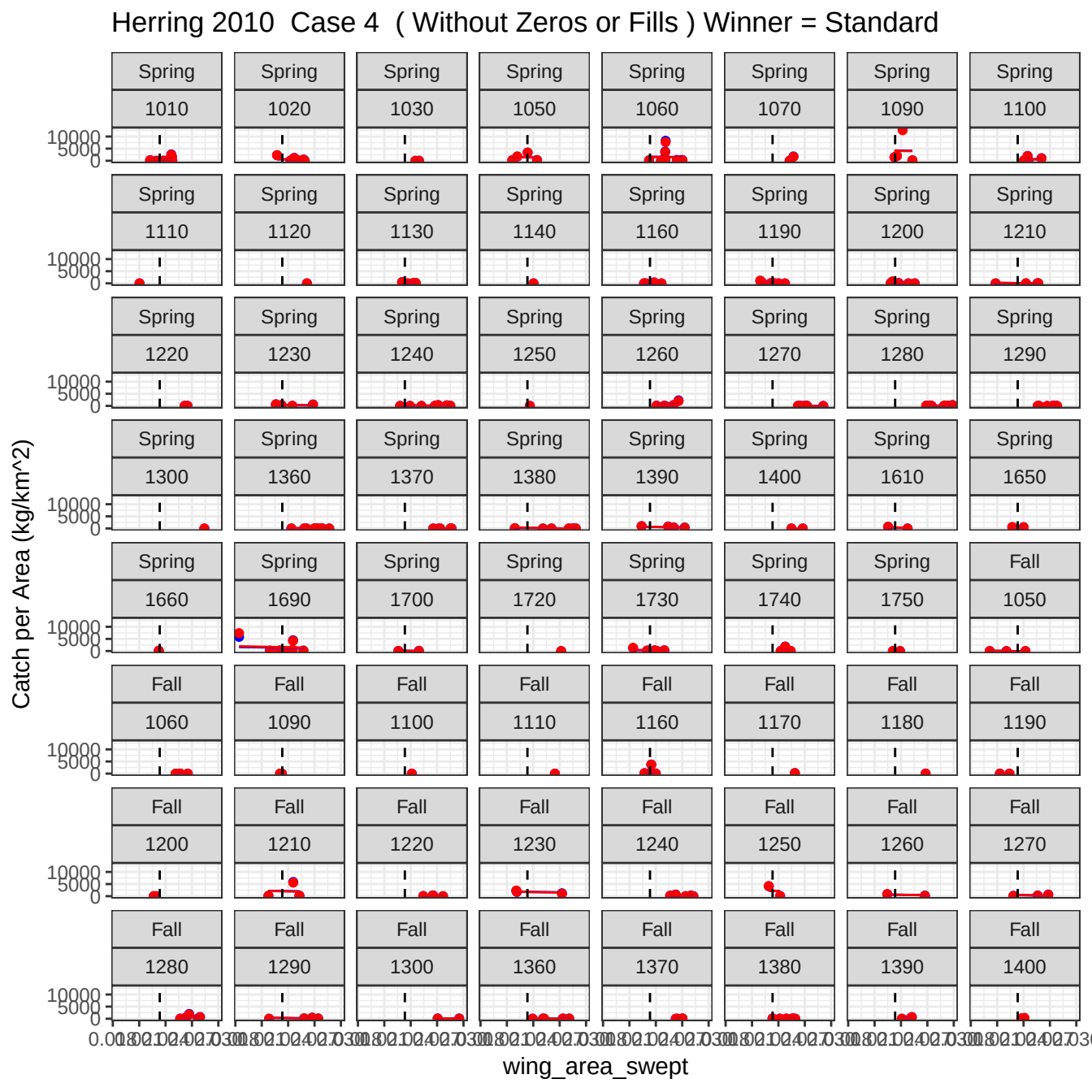
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
75000
50000
25000
0
Catch per Area (kg/km^2)
wing_area_swept


Herring 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
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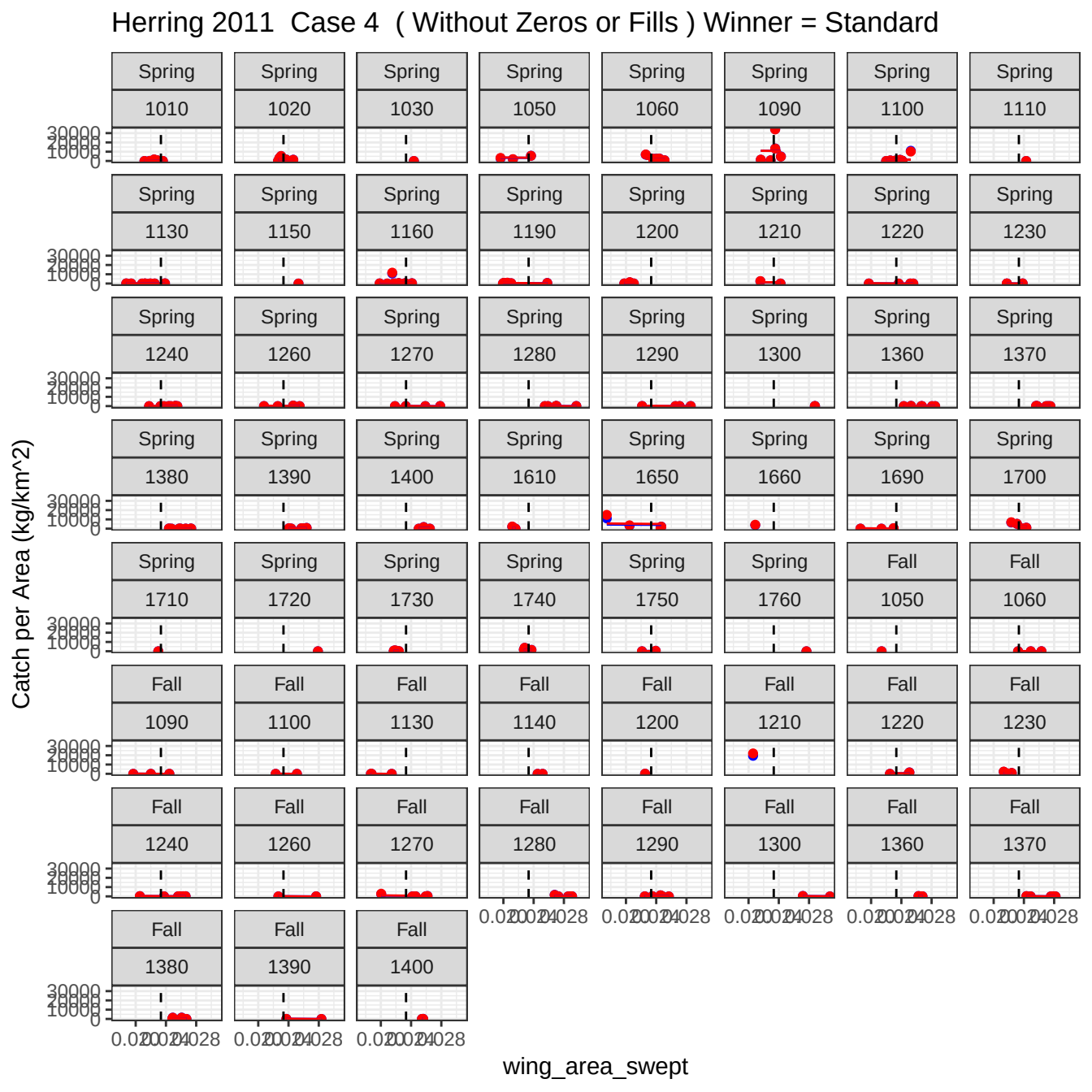
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
10000
5000
0
Catch per Area (kg/km^2)
wing_area_swept


Herring 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
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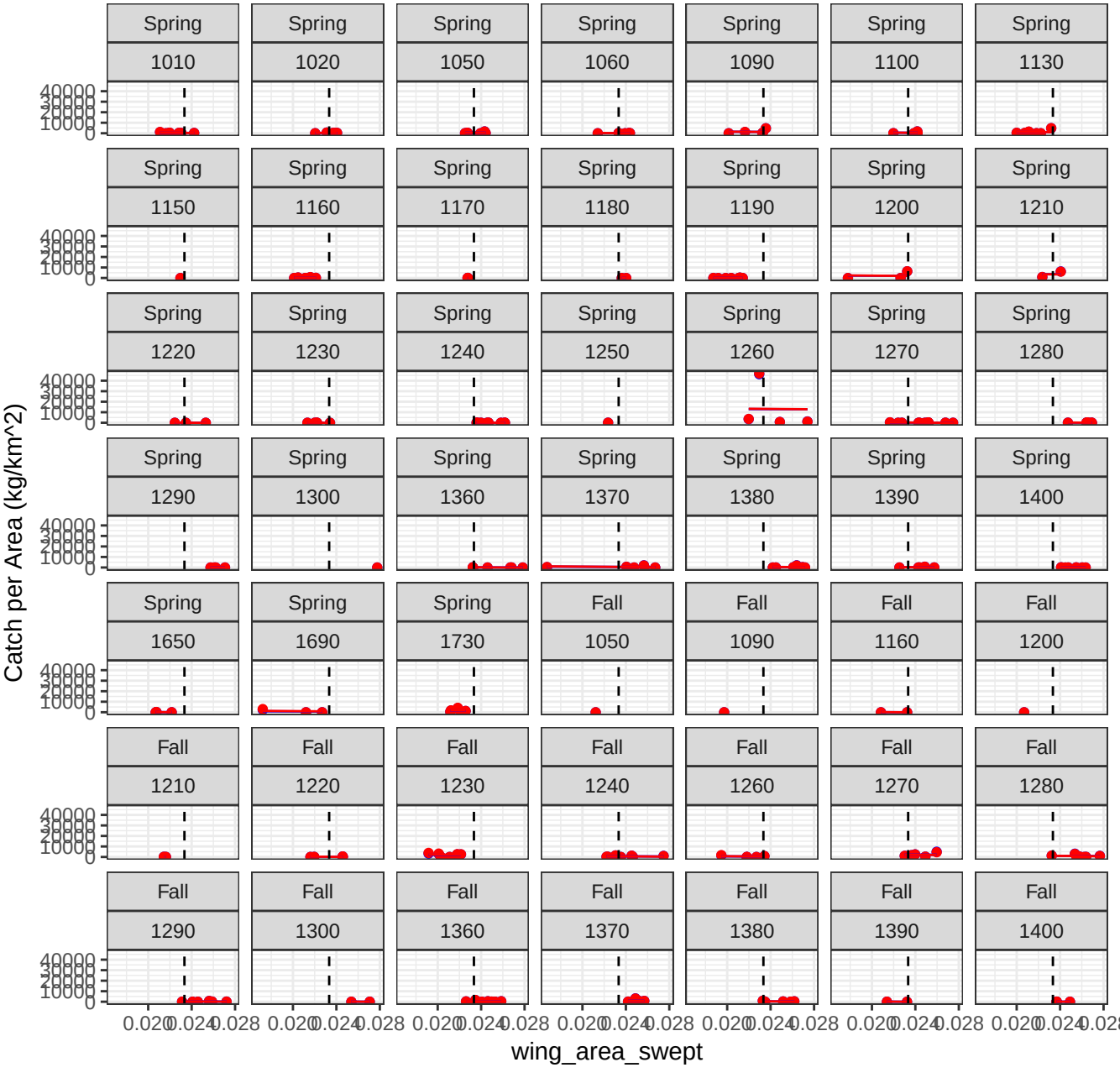
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
30000
20000
10000
0
0.02
0.024
0.028
Catch per Area (kg/km^2)
wing_area_swept


Herring 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
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Spring 1170
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Spring 1360
Spring 1370
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Spring 1390
Spring 1400
Spring 1650
Spring 1690
Spring 1730
Fall 1050
Fall 1090
Fall 1160
Fall 1200
Fall 1210
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Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
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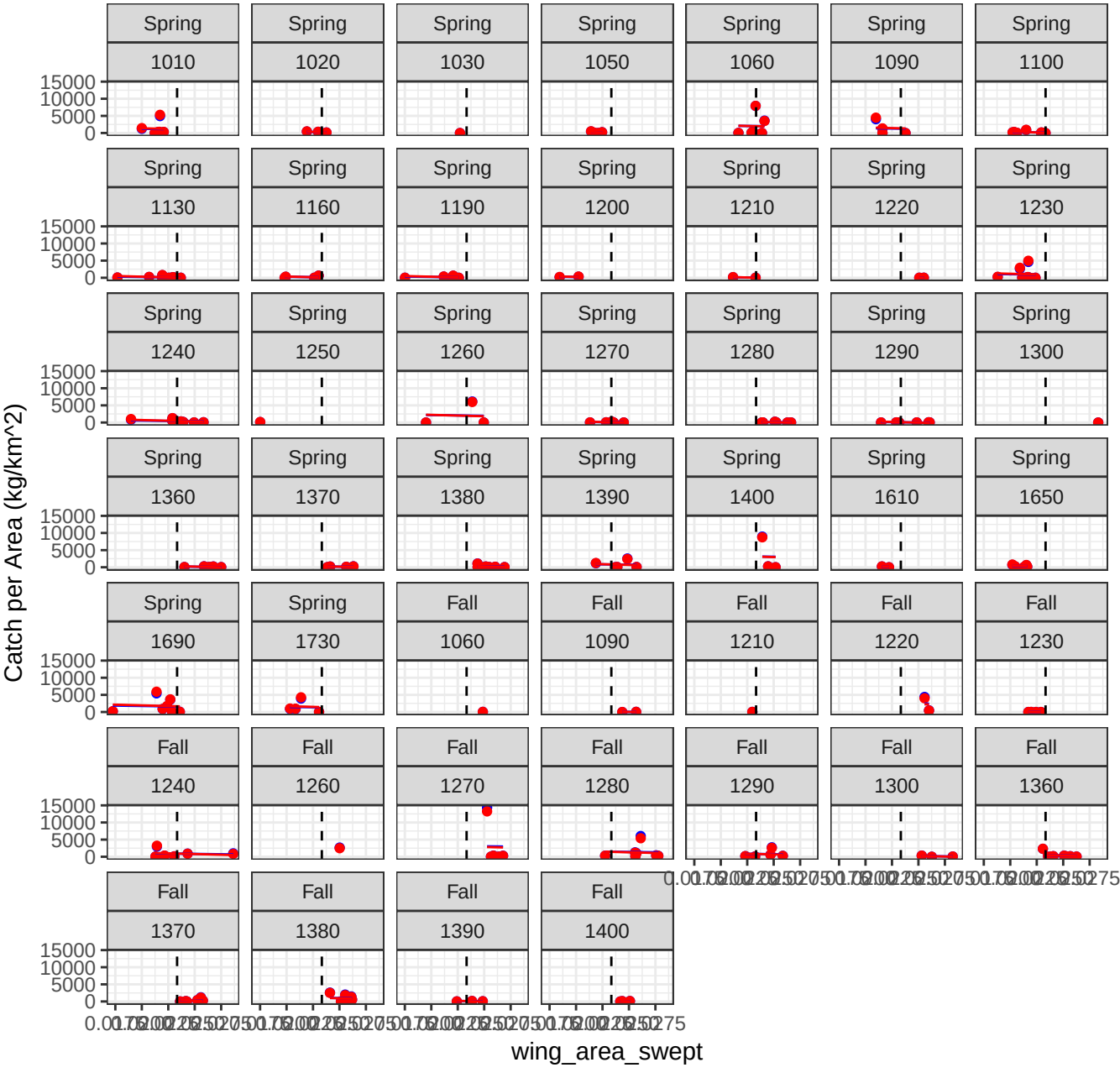
30000
20000
10000
0
0.020
0.024
0.028
Catch per Area (kg/km^2)
wing_area_swept


Herring 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
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Spring 1050
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Spring 1090
Spring 1100
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Spring 1160
Spring 1190
Spring 1200
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Spring 1290
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Spring 1370
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Spring 1390
Spring 1400
Spring 1610
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Spring 1730
Fall 1060
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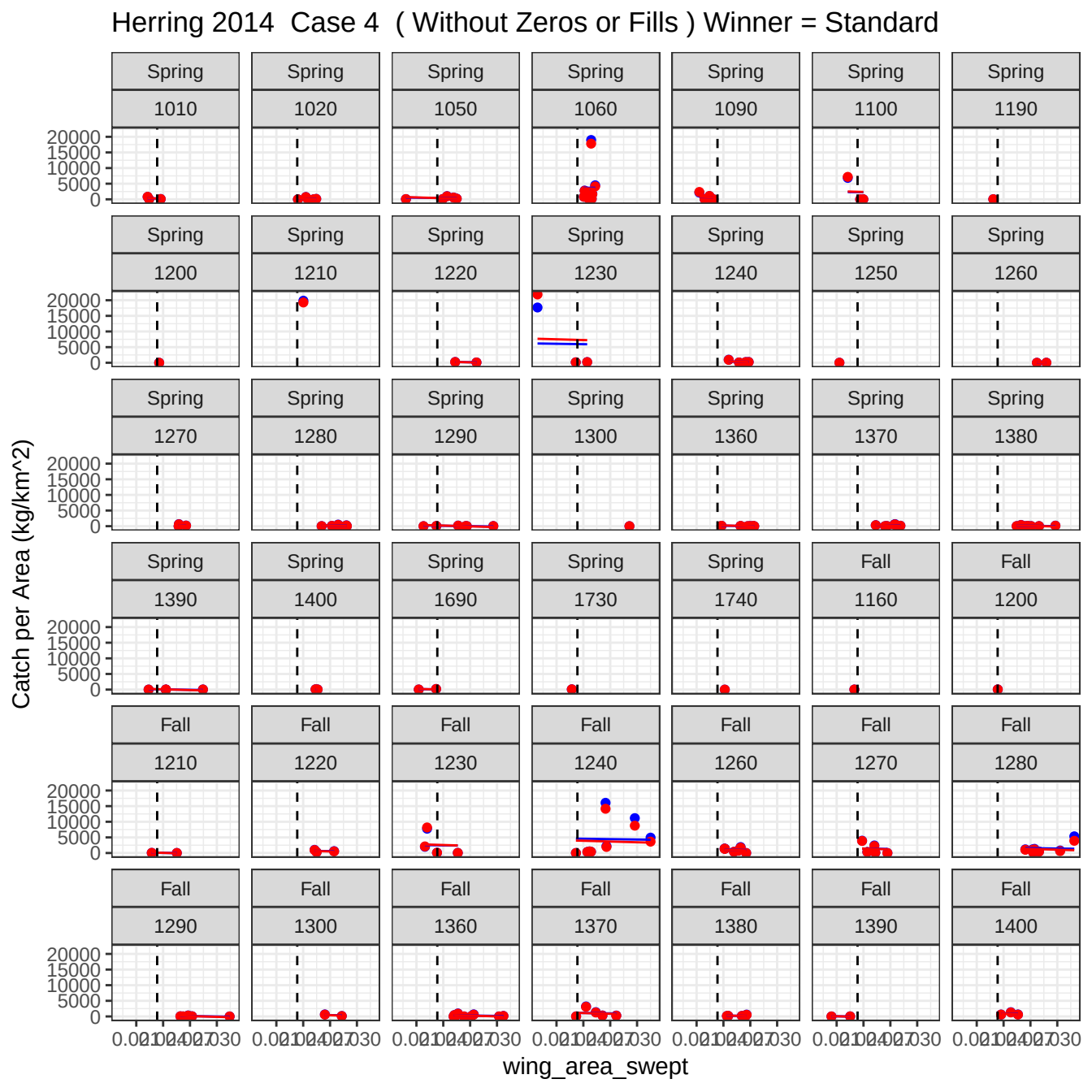
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
15000
10000
5000
0
Catch per Area (kg/km^2)
wing_area_swept


Herring 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
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Spring 1060
Spring 1090
Spring 1100
Spring 1190
Spring 1200
Spring 1210
Spring 1220
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Spring 1300
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Spring 1370
Spring 1380
Spring 1390
Spring 1400
Spring 1690
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Fall 1160
Fall 1200
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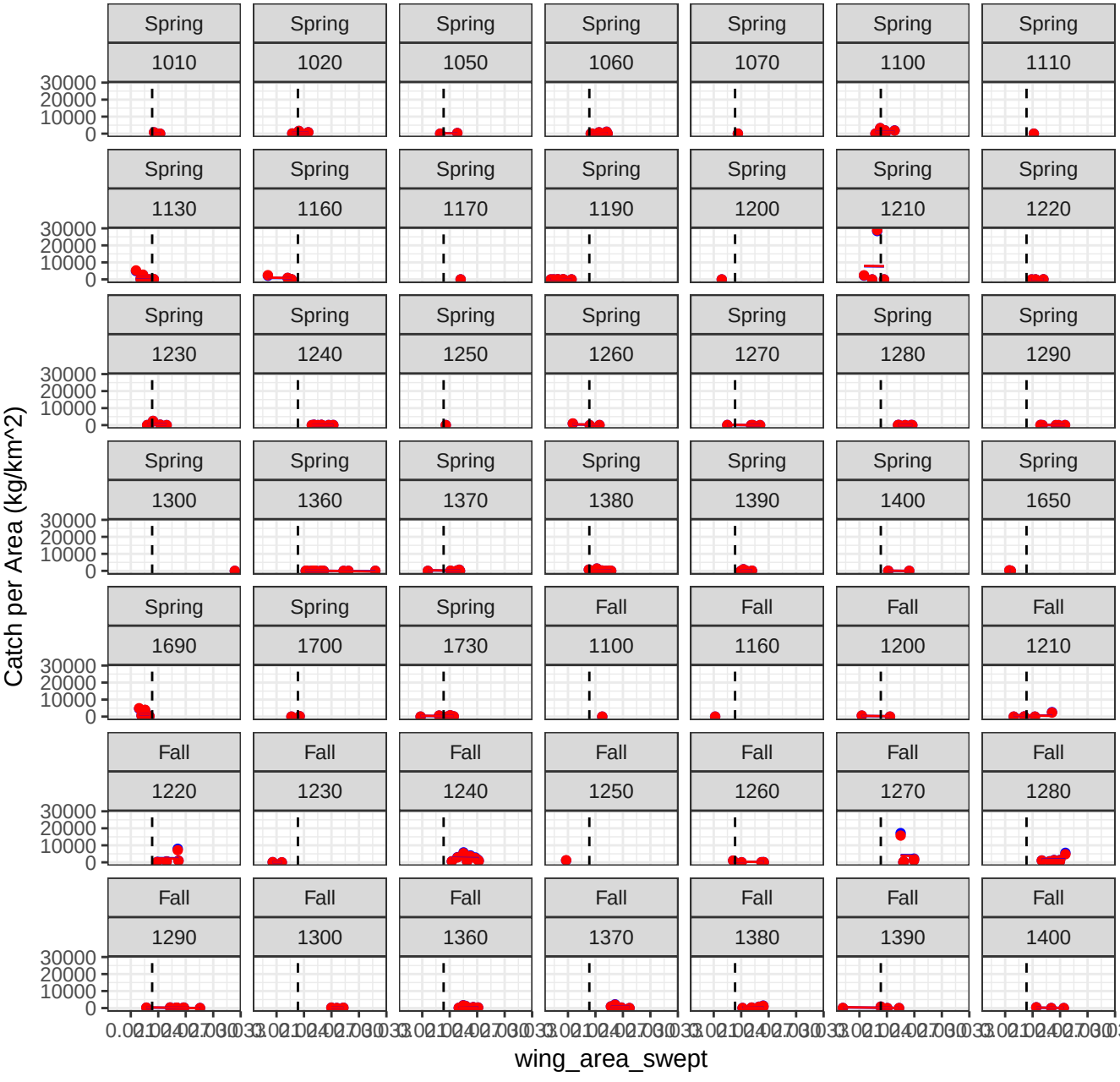
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
20000
15000
10000
5000
0
Catch per Area (kg/km^2)
wing_area_swept


Herring 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1050
Spring 1060
Spring 1070
Spring 1100
Spring 1110
Spring 1130
Spring 1160
Spring 1170
Spring 1190
Spring 1200
Spring 1210
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Spring 1230
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Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Spring 1650
Spring 1690
Spring 1700
Spring 1730
Fall 1100
Fall 1160
Fall 1200
Fall 1210
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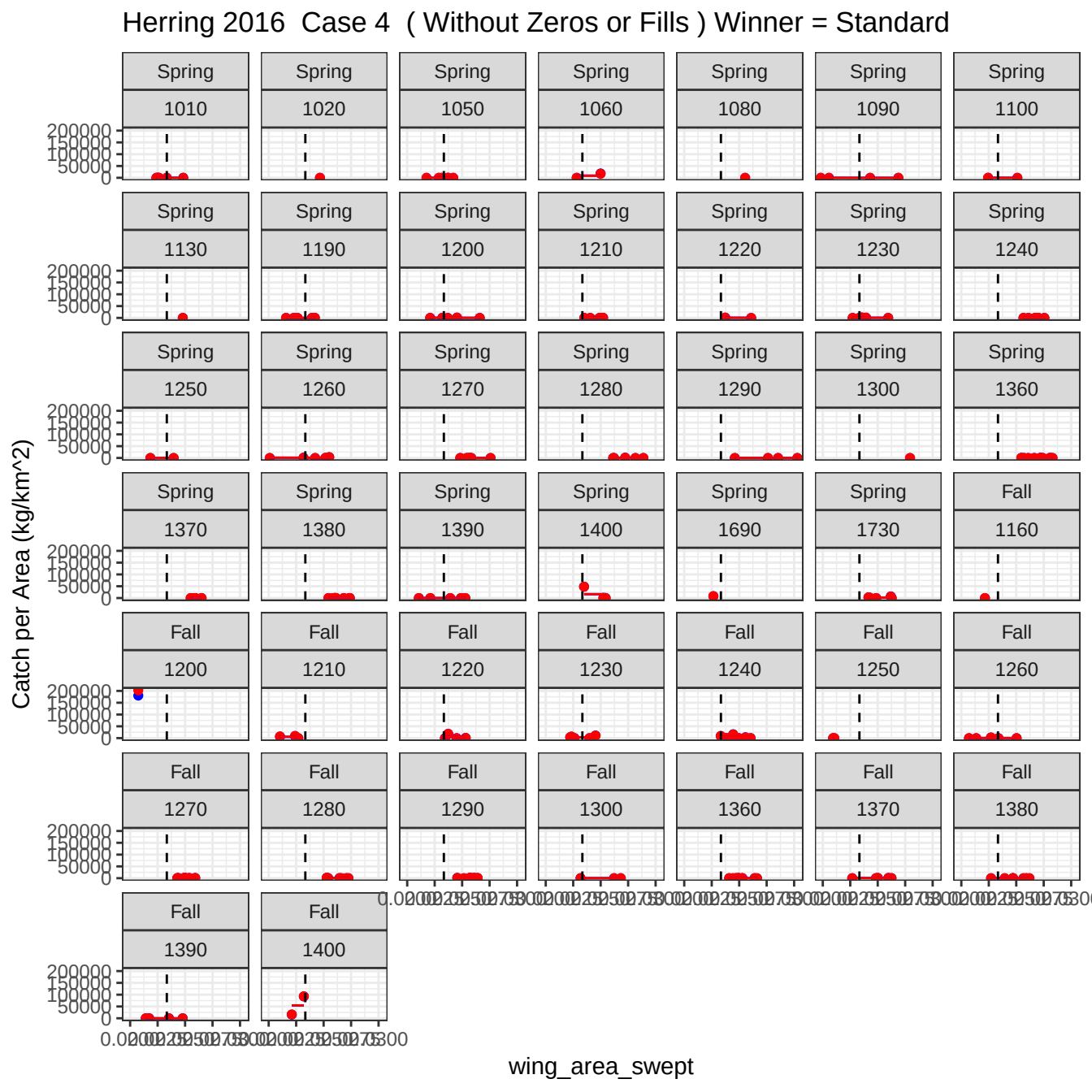
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
30000
20000
10000
0
Catch per Area (kg/km^2)
wing_area_swept


Herring 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1050
Spring 1060
Spring 1080
Spring 1090
Spring 1100
Spring 1130
Spring 1190
Spring 1200
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Spring 1400
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Fall 1200
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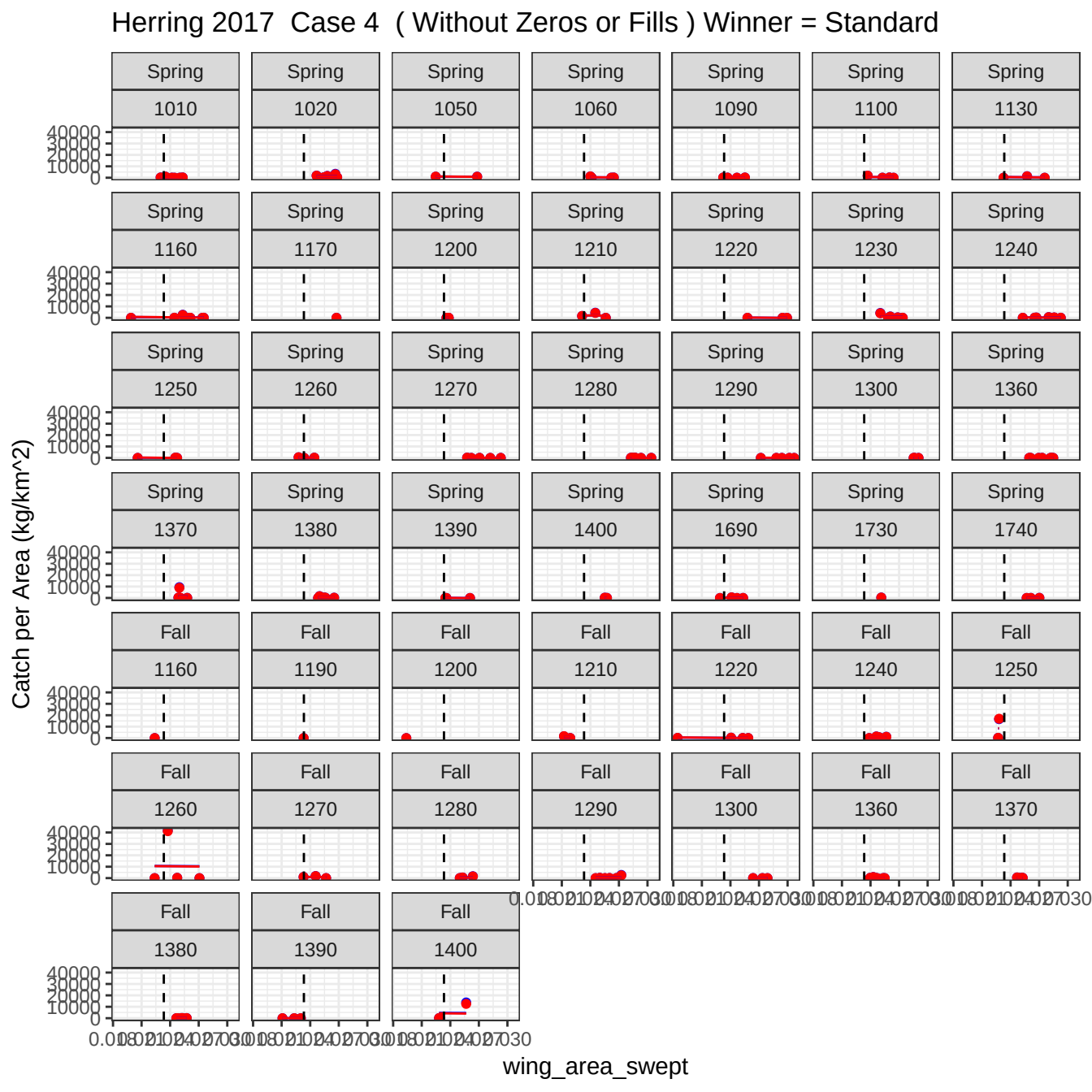
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
200000
150000
100000
50000
0
Catch per Area (kg/km^2)
wing_area_swept


Herring 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
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Spring 1100
Spring 1130
Spring 1160
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Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Spring 1690
Spring 1730
Spring 1740
Fall 1160
Fall 1190
Fall 1200
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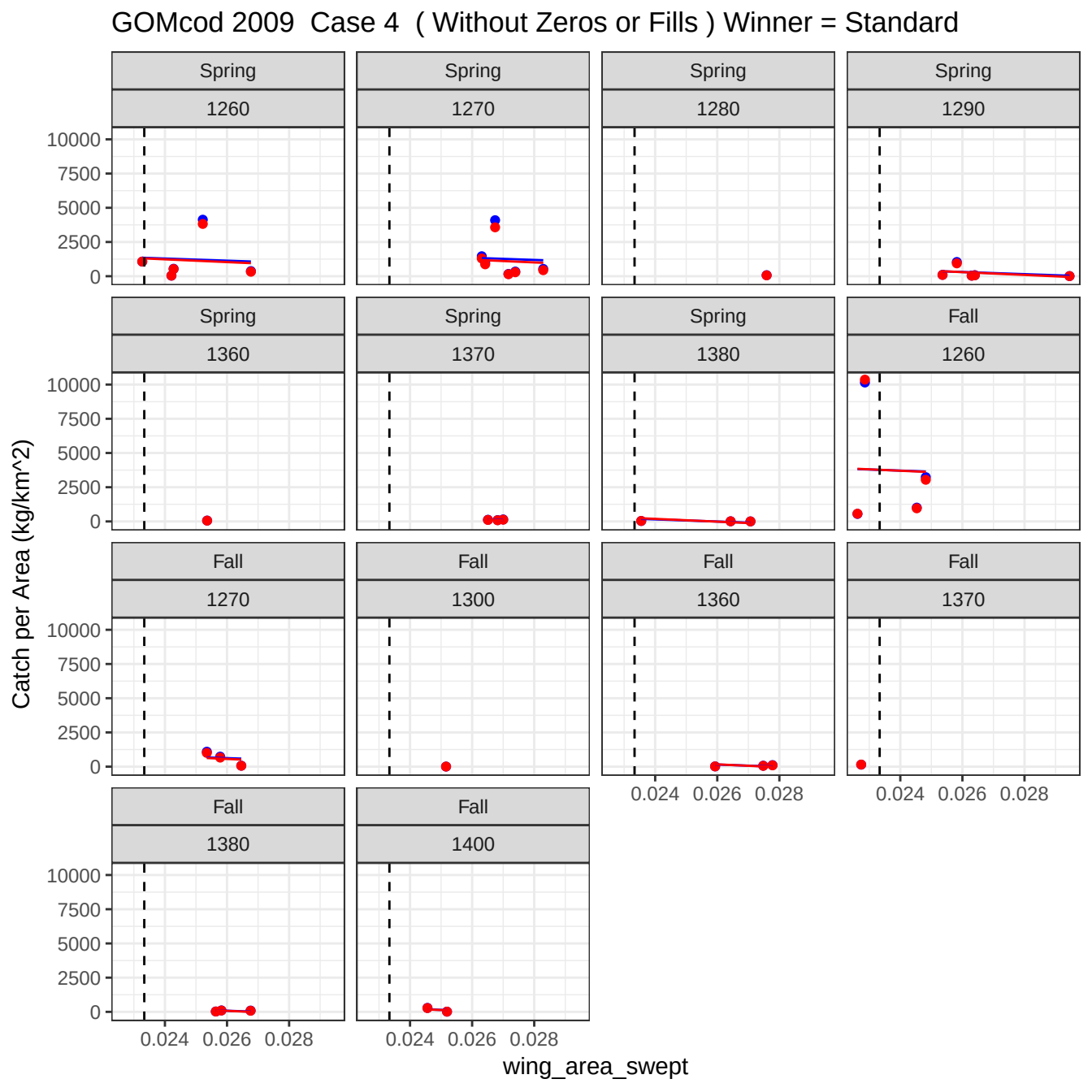
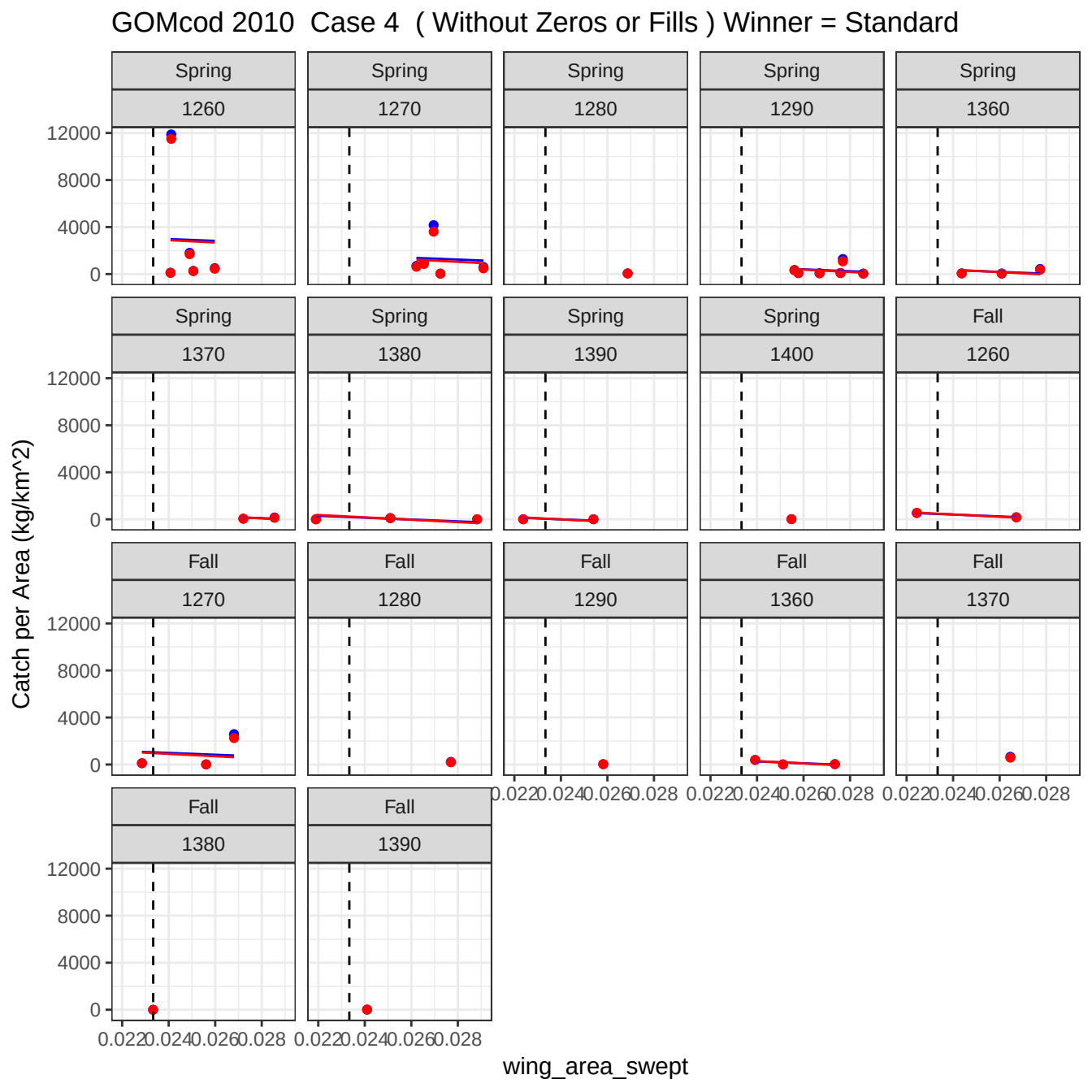
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
40000
30000
20000
10000
0
0.0
1.8
2.1
2.4
2.7
3.0
Catch per Area (kg/km^2)
wing_area_swept


GOMcod 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1280
Spring
1290
Spring
1360
Spring
1370
Spring
1380
Fall
1260
Fall
1270
Fall
1300
Fall
1360
Fall
1370
Fall
1380
Fall
1400
10000
7500
5000
2500
0
0.024
0.026
0.028
Catch per Area (kg/km^2)
wing_area_swept


GOMcod 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1260
Spring 1270
Spring 1280
Spring 1290
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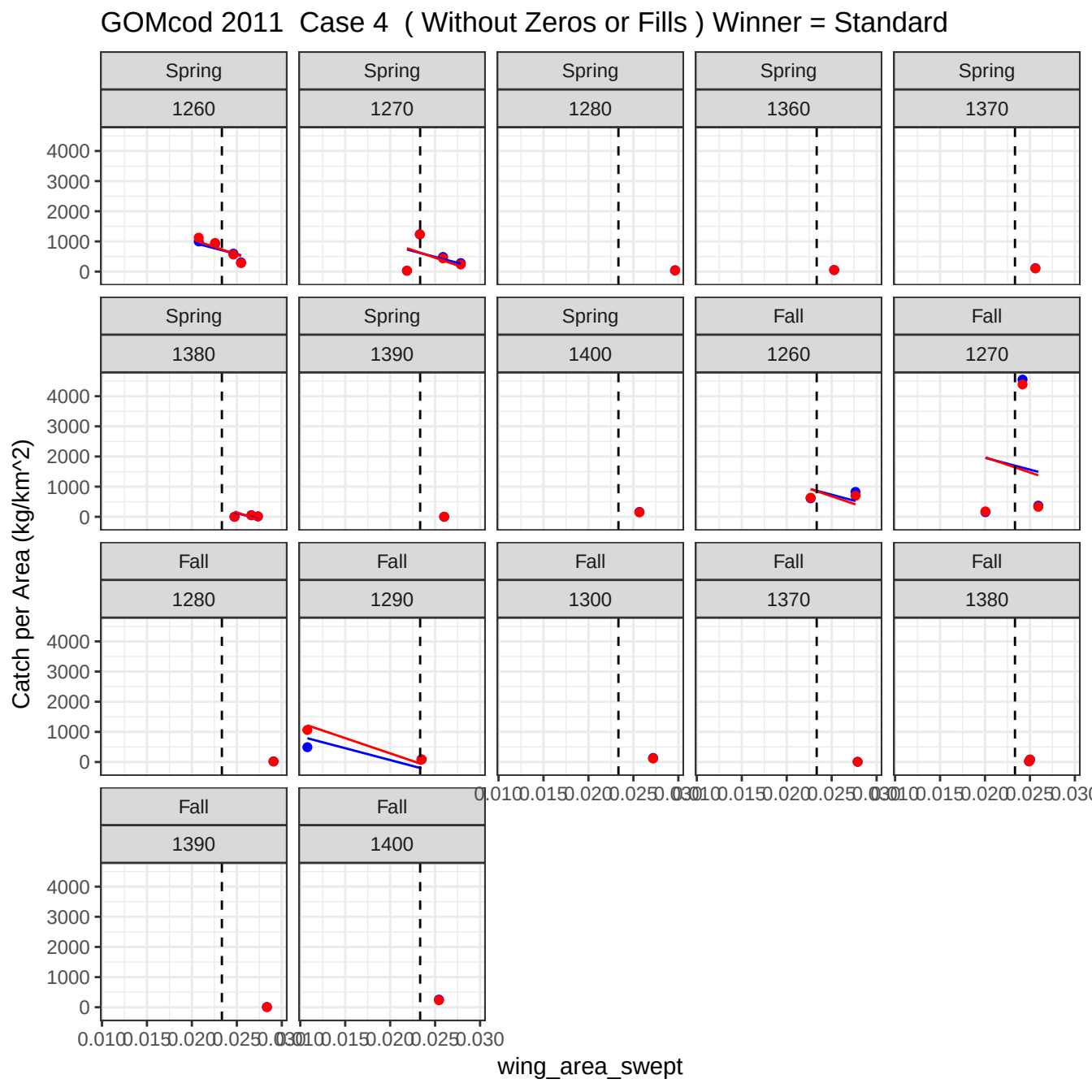
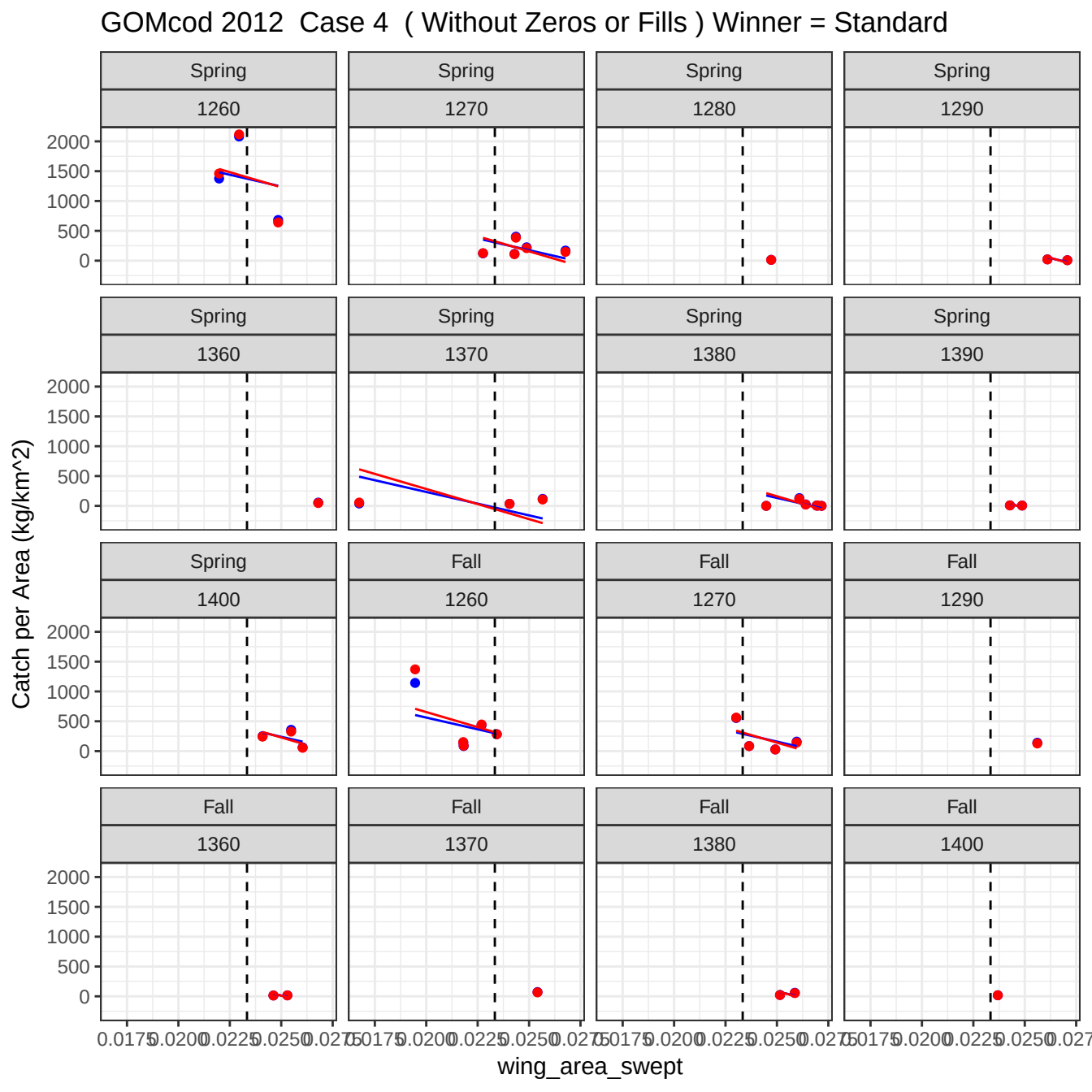
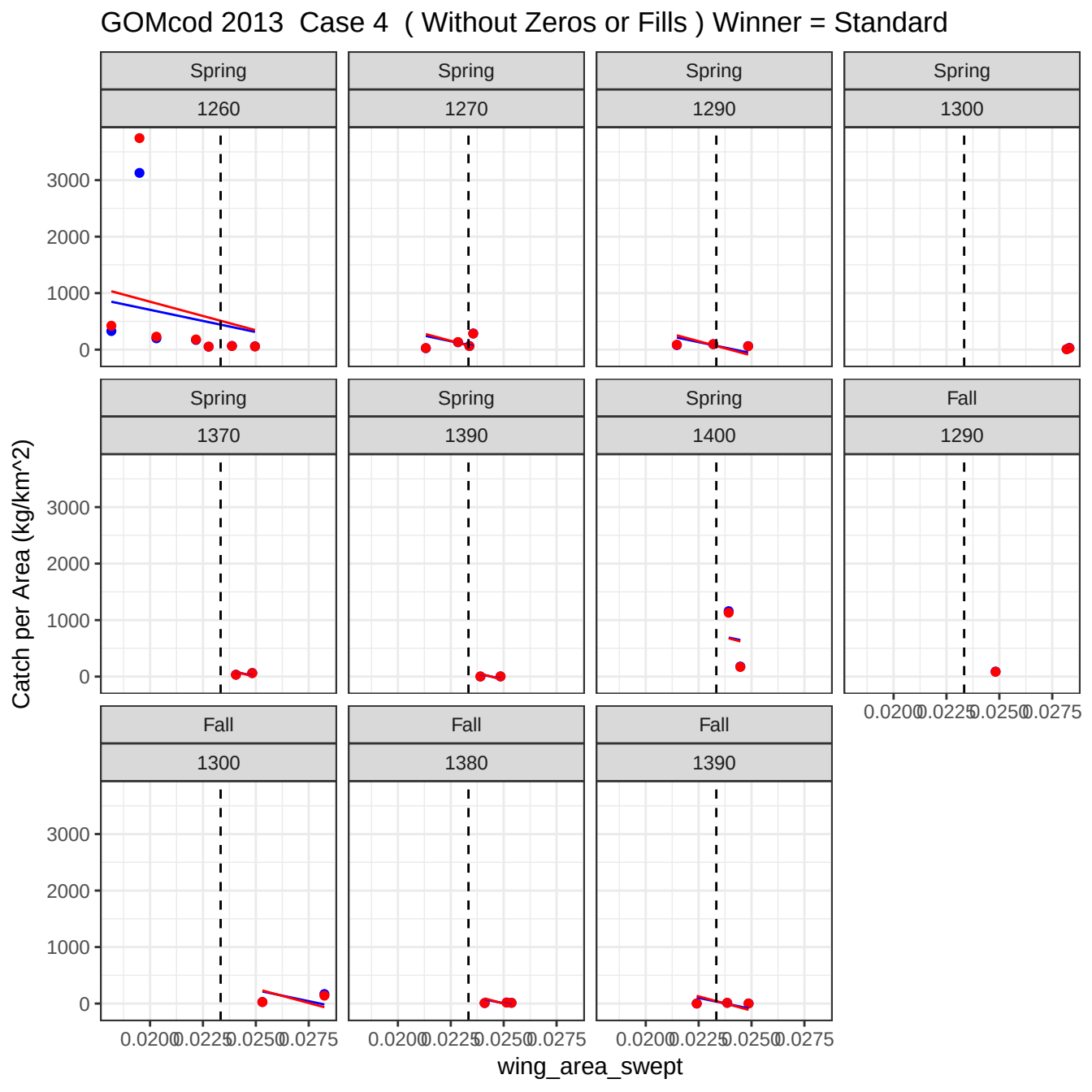
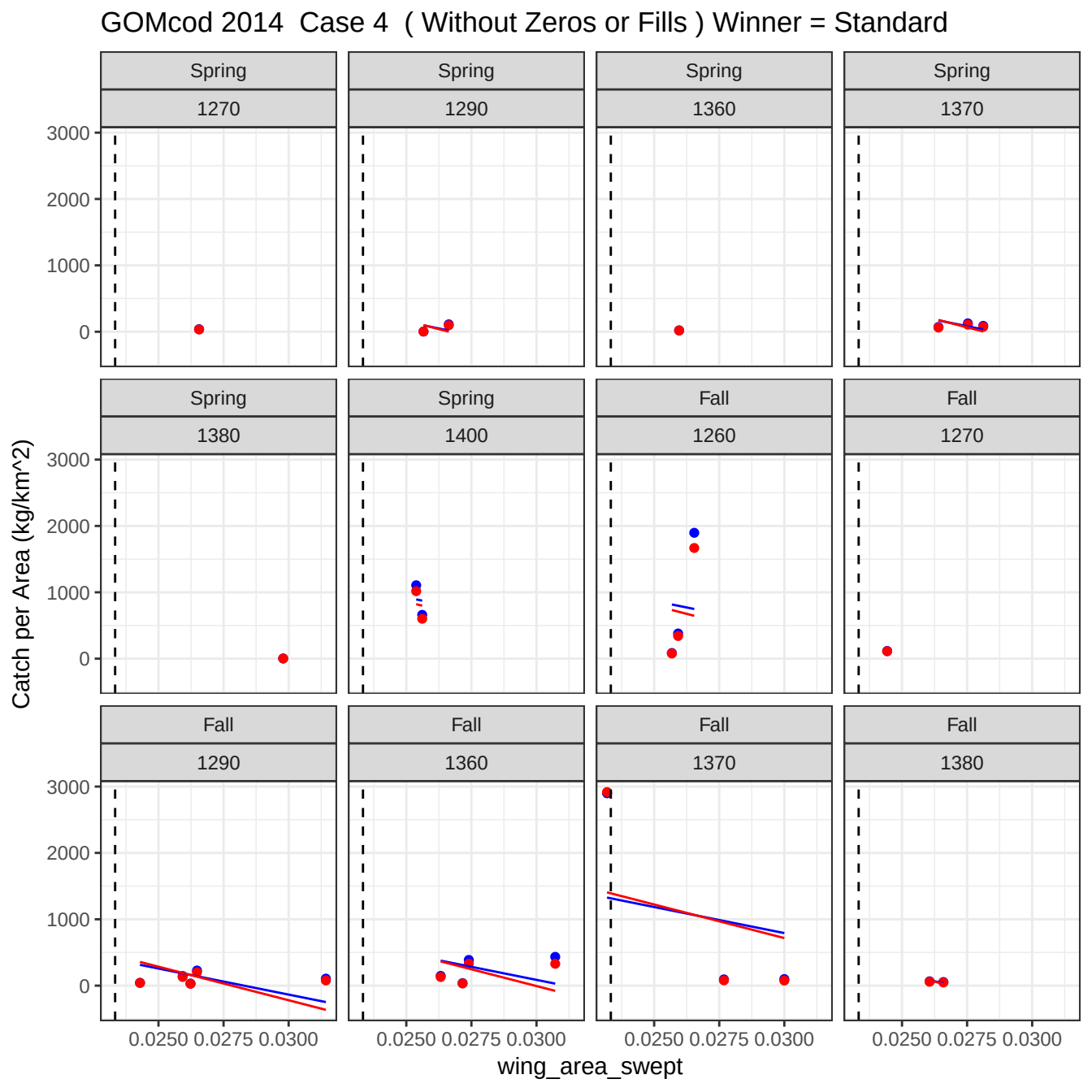
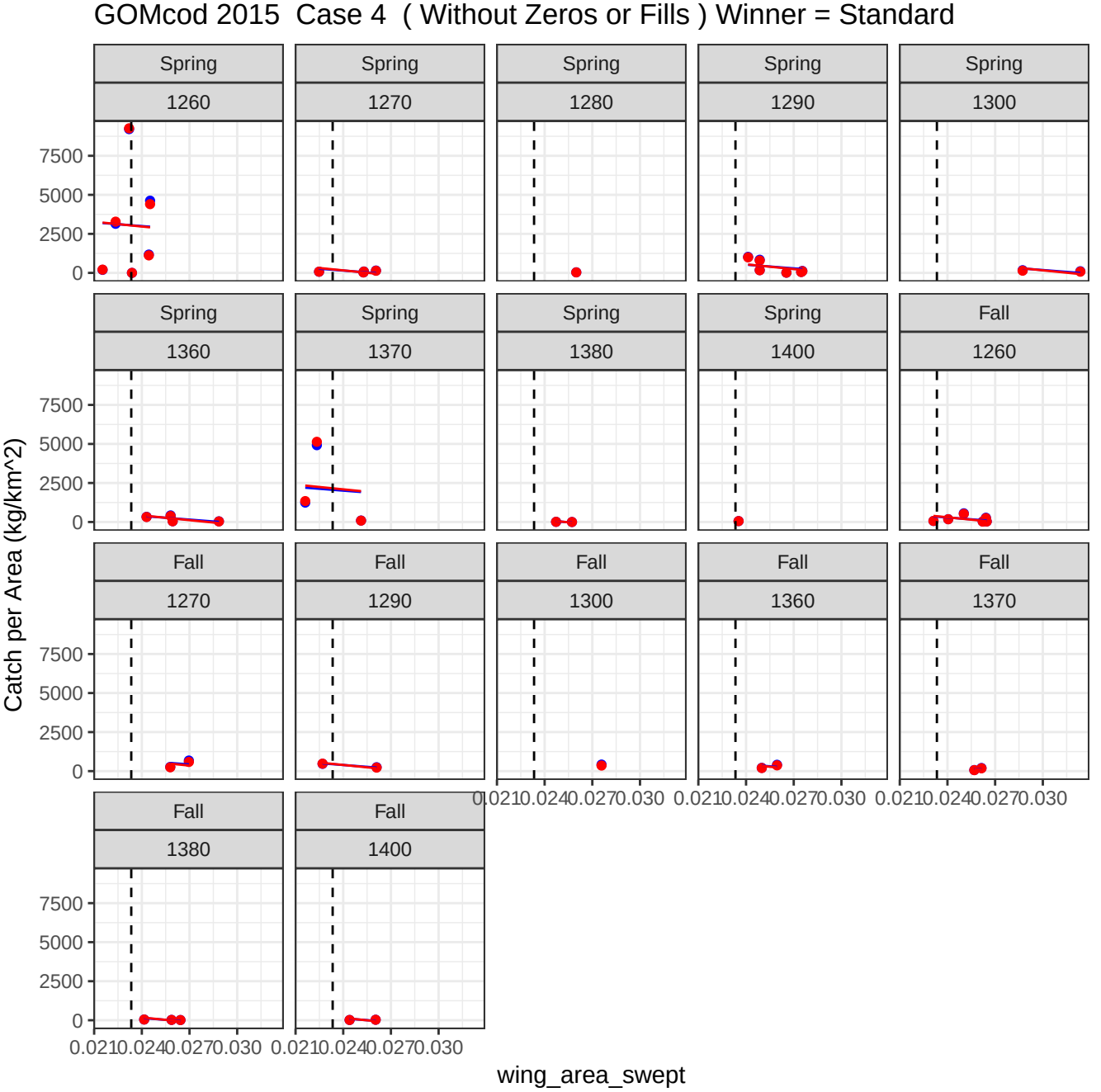
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Catch per Area (kg/km^2)
0
4000
8000
12000
0.022
0.024
0.026
0.028
wing_area_swept

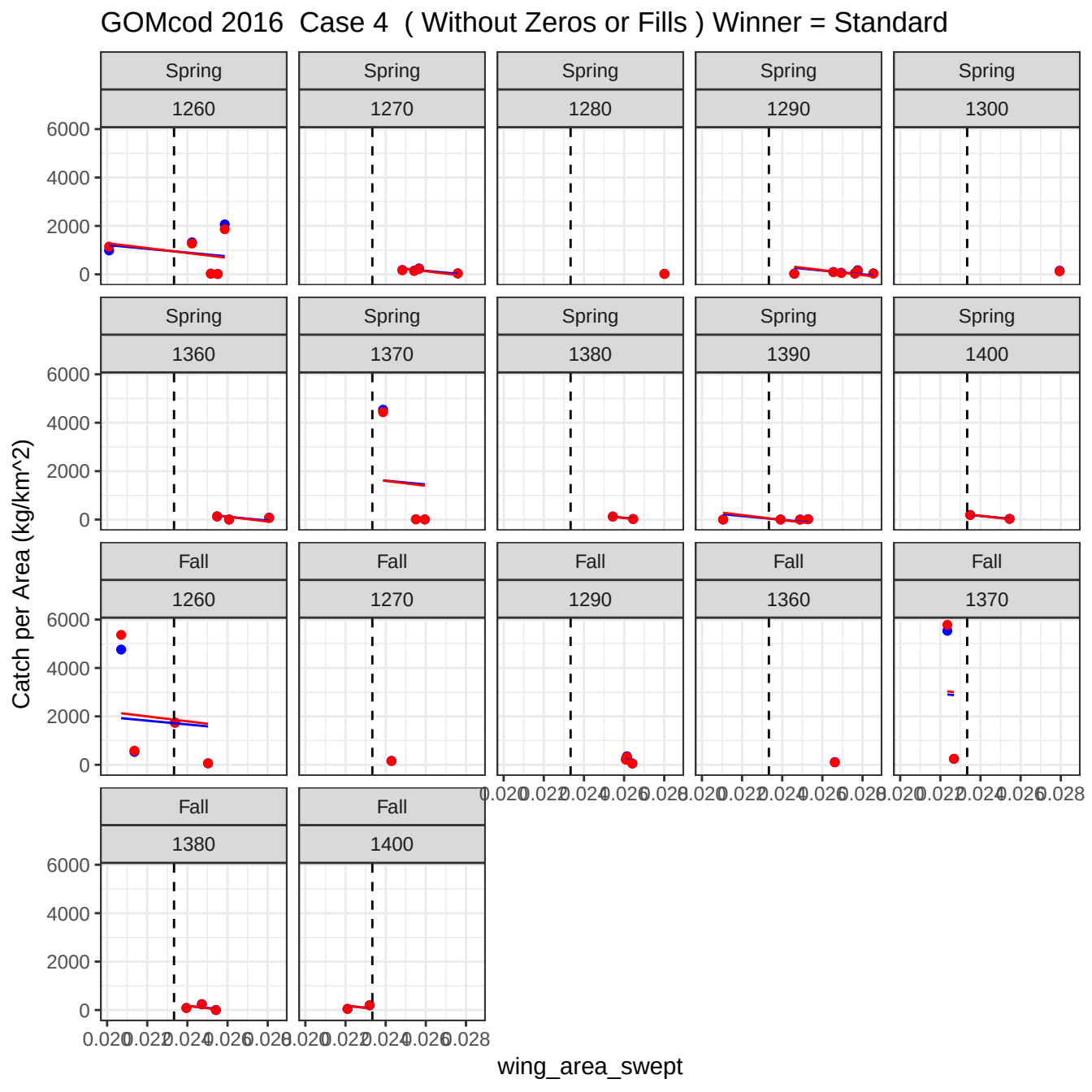

GOMcod 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1260
Spring 1270
Spring 1280
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept
0
1000
2000
3000
4000
0.010
0.015
0.020
0.025
0.030

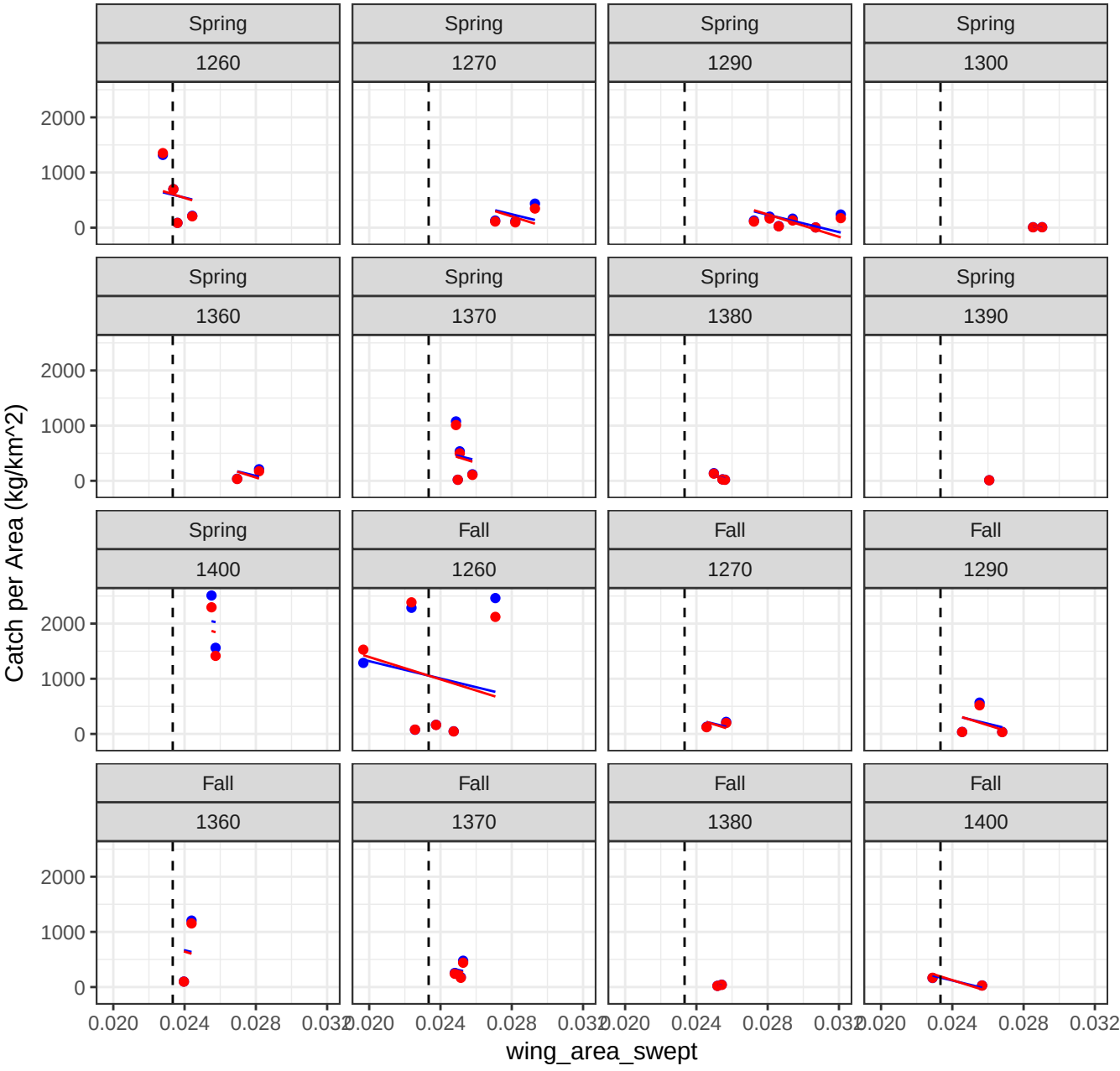

GOMcod 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1280
Spring
1290
Spring
1360
Spring
1370
Spring
1380
Spring
1390
Spring
1400
Fall
1260
Fall
1270
Fall
1290
Fall
1360
Fall
1370
Fall
1380
Fall
1400
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
2000
0.0175
0.0200
0.0225
0.0250
0.0275

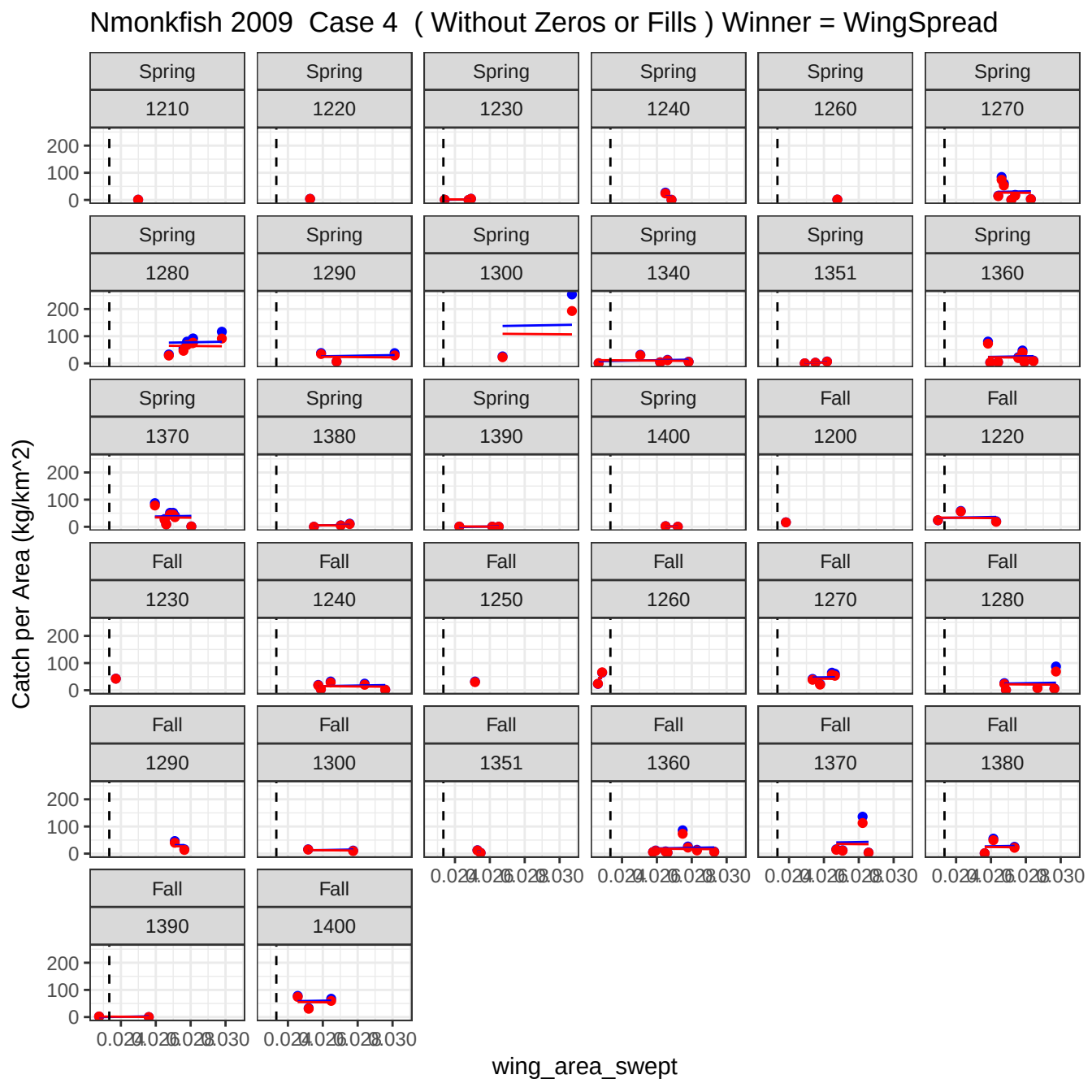

GOMcod 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1290
Spring
1300
Spring
1370
Spring
1390
Spring
1400
Fall
1290
Fall
1300
Fall
1380
Fall
1390
Catch per Area (kg/km^2)
0
1000
2000
3000
0.0200
0.0225
0.0250
0.0275
wing_area_swept

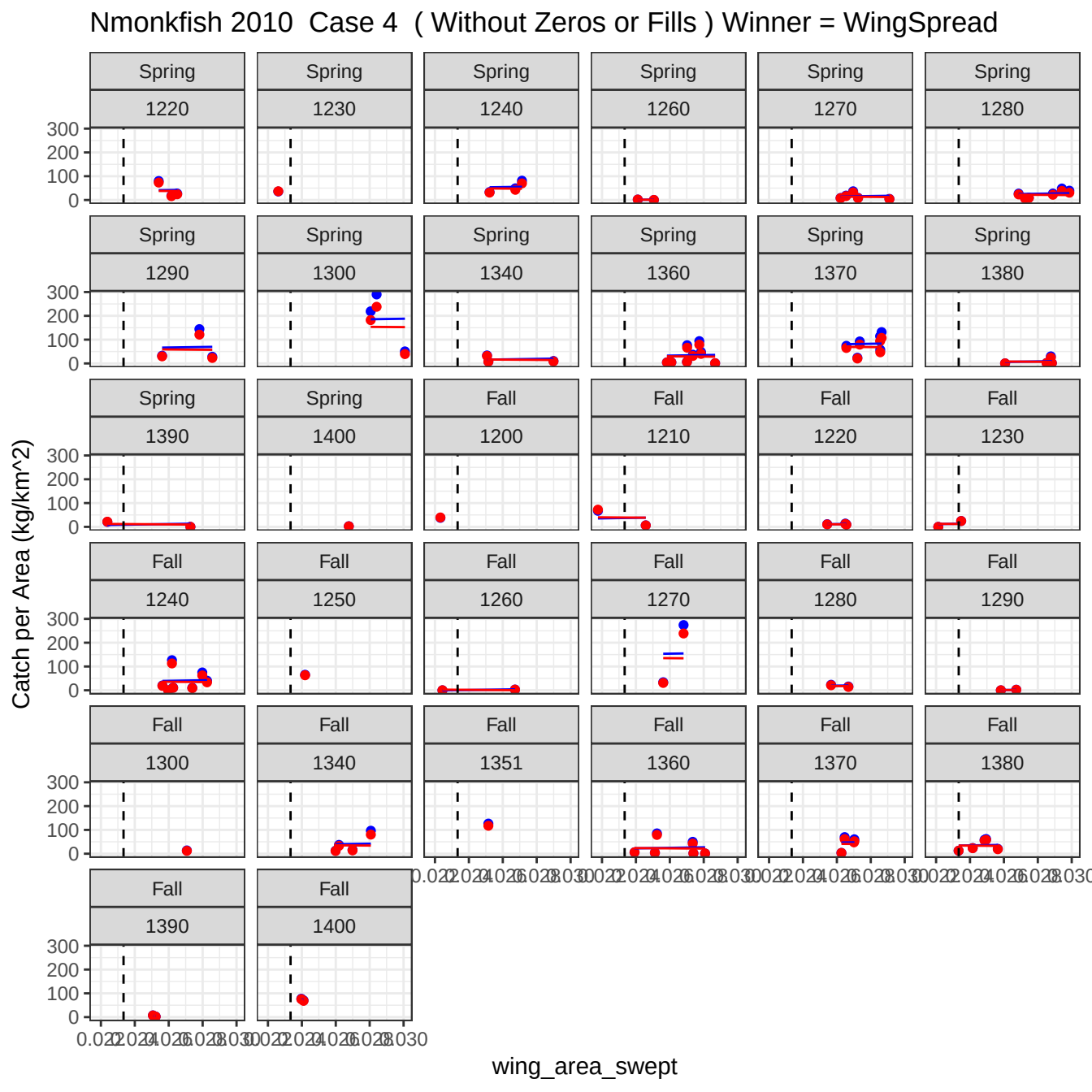

GOMcod 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1270
Spring
1290
Spring
1360
Spring
1370
Spring
1380
Spring
1400
Fall
1260
Fall
1270
Fall
1290
Fall
1360
Fall
1370
Fall
1380
3000
2000
1000
0
0.0250 0.0275 0.0300
Catch per Area (kg/km^2)
wing_area_swept

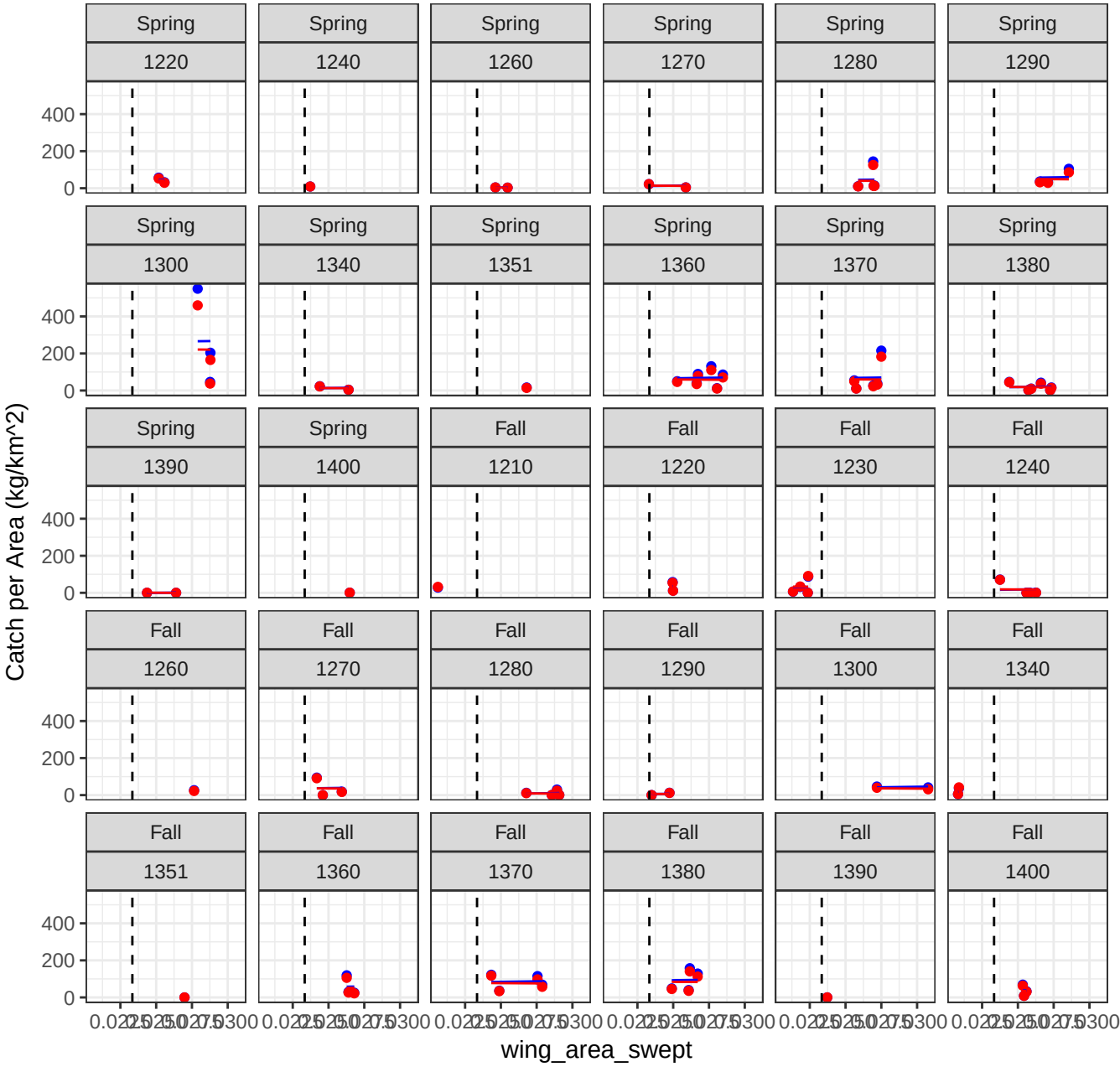

GOMcod 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1270
1280
1290
1300
1360
1370
1380
1400
Fall
1260
1270
1290
1300
1360
1370
1380
1400
Catch per Area (kg/km^2)
0
2500
5000
7500
0.021
0.024
0.027
0.030
wing_area_swept

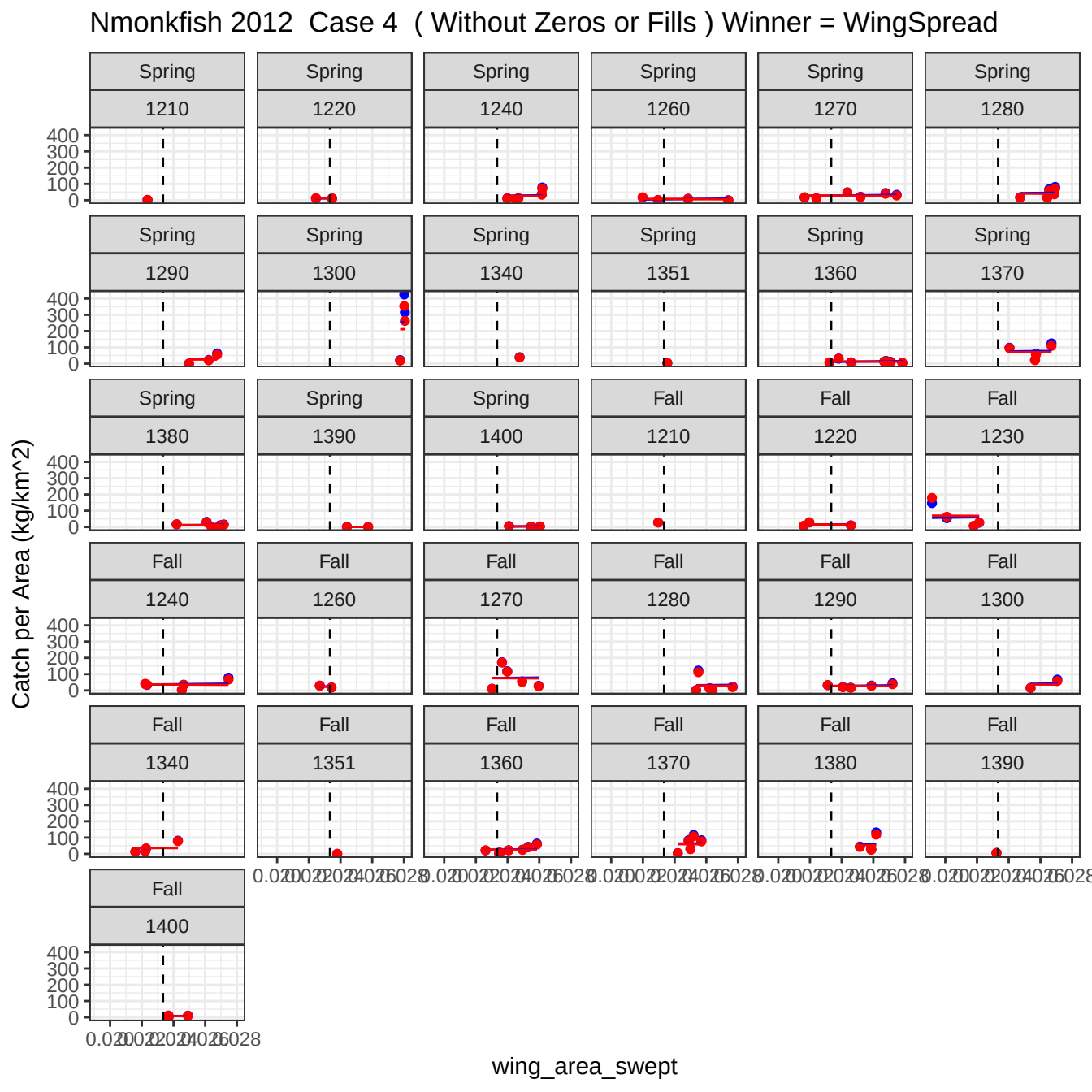

GOMcod 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1270
1280
1290
1300
1360
1370
1380
1390
1400
Fall
1260
1270
1290
1360
1370
1380
1400
Catch per Area (kg/km^2)
wing_area_swept
0
2000
4000
6000
0.020
0.022
0.024
0.026
0.028

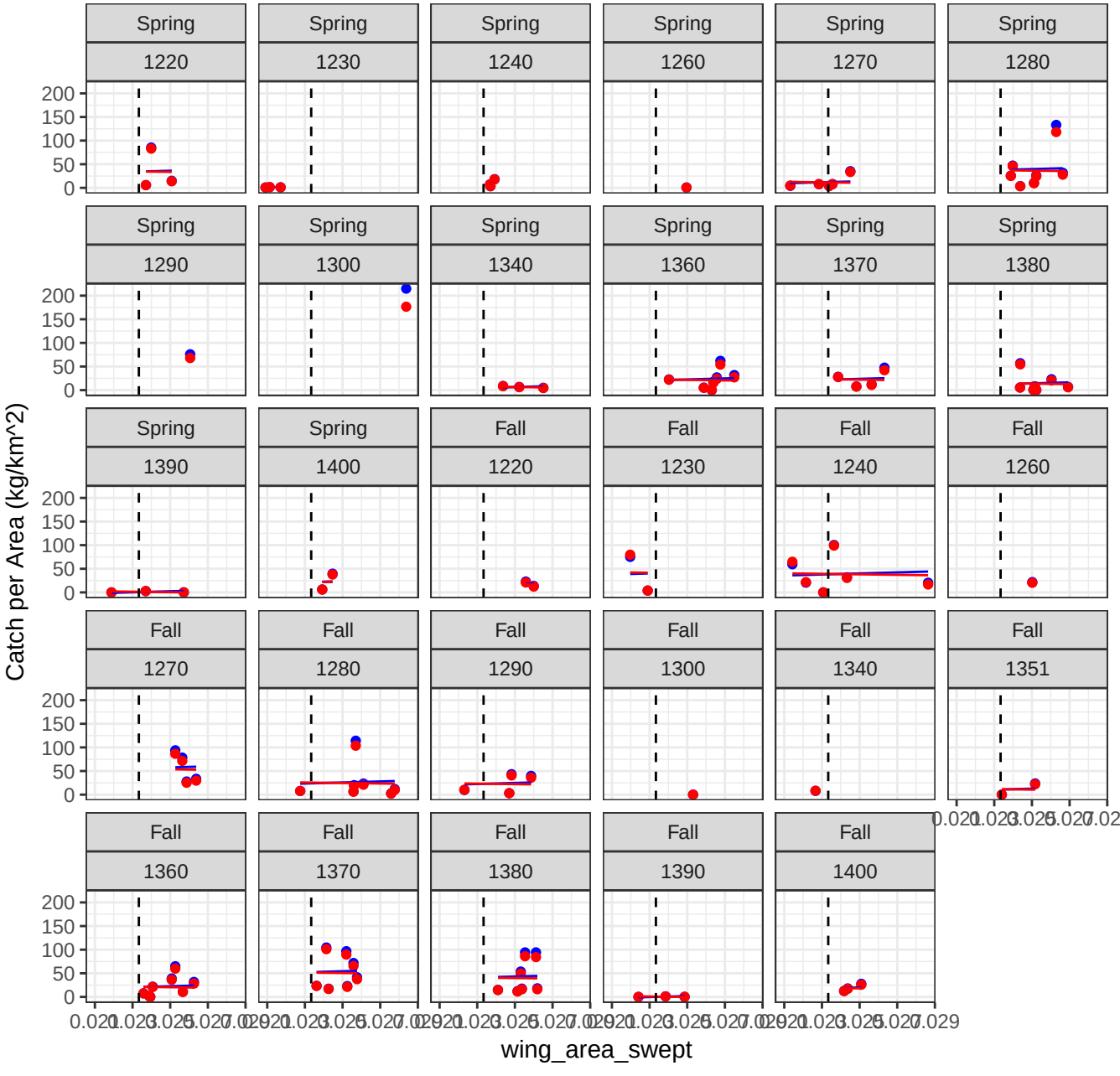

GOMcod 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1290
Spring
1300
Spring
1360
Spring
1370
Spring
1380
Spring
1390
Spring
1400
Fall
1260
Fall
1270
Fall
1290
Fall
1360
Fall
1370
Fall
1380
Fall
1400
Catch per Area (kg/km^2)
0
1000
2000
0.020
0.024
0.028
0.032
wing_area_swept

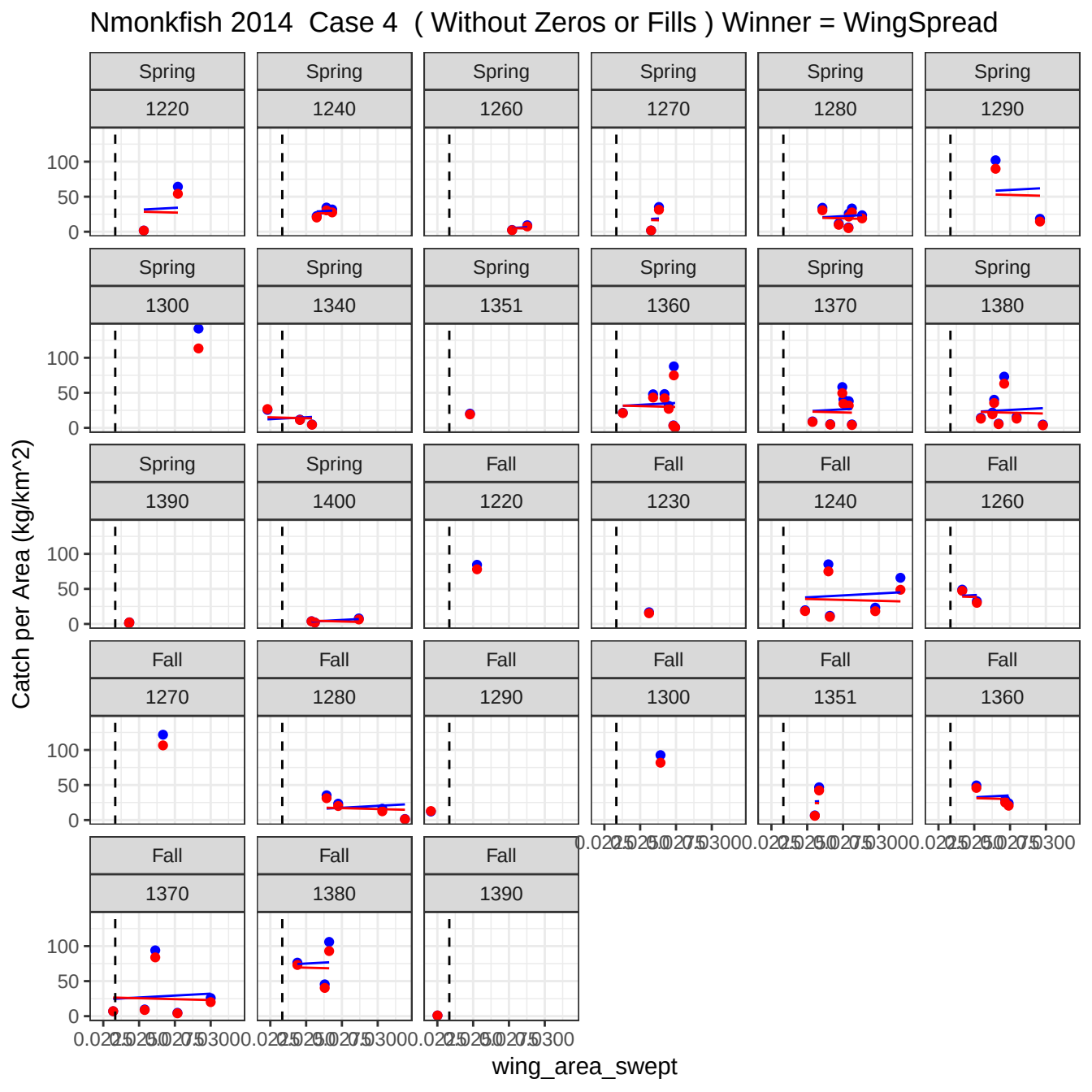

Nmonkfish 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1351
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
0
100
200
0.024
0.026
0.028
0.030
Catch per Area (kg/km^2)
wing_area_swept

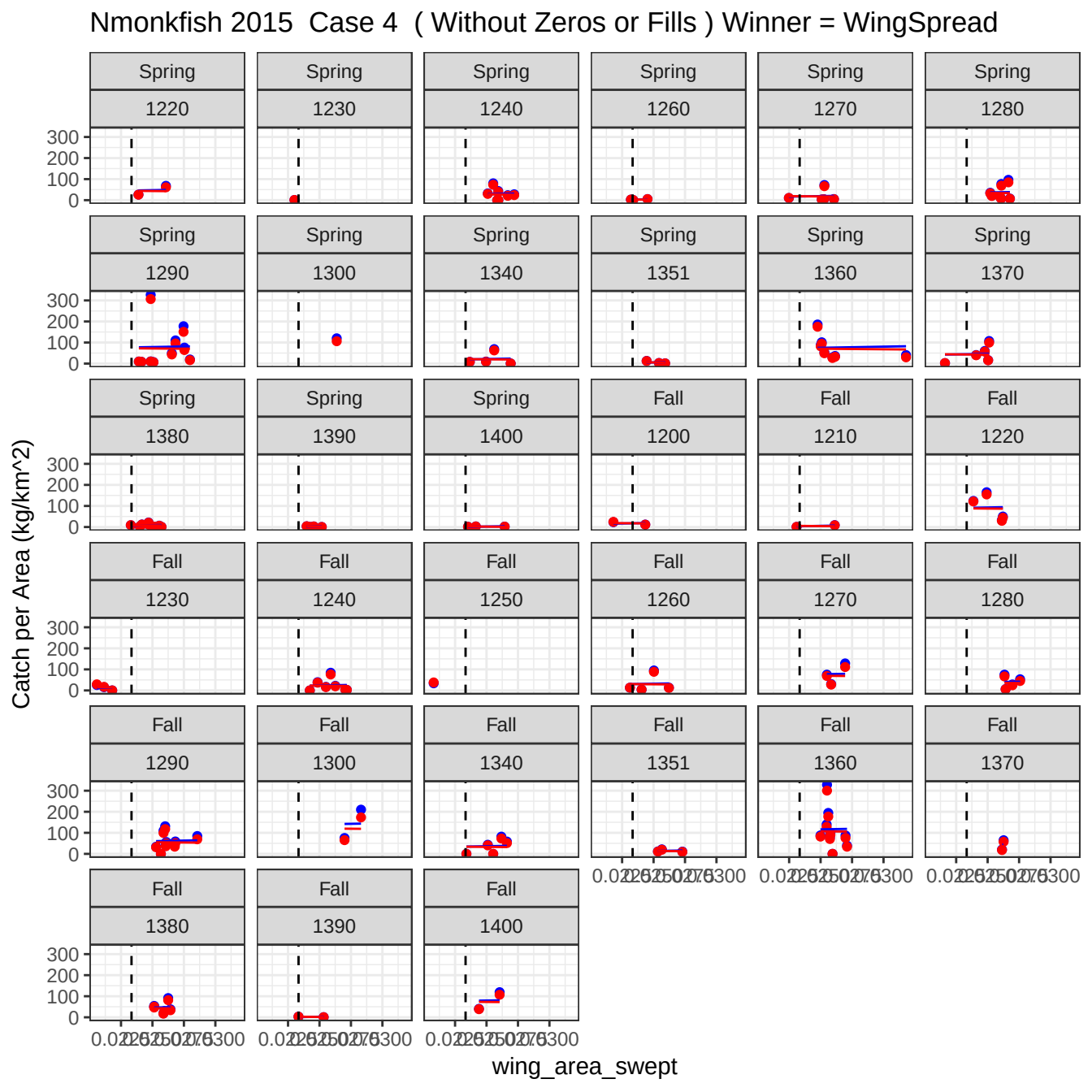

Nmonkfish 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1340
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept

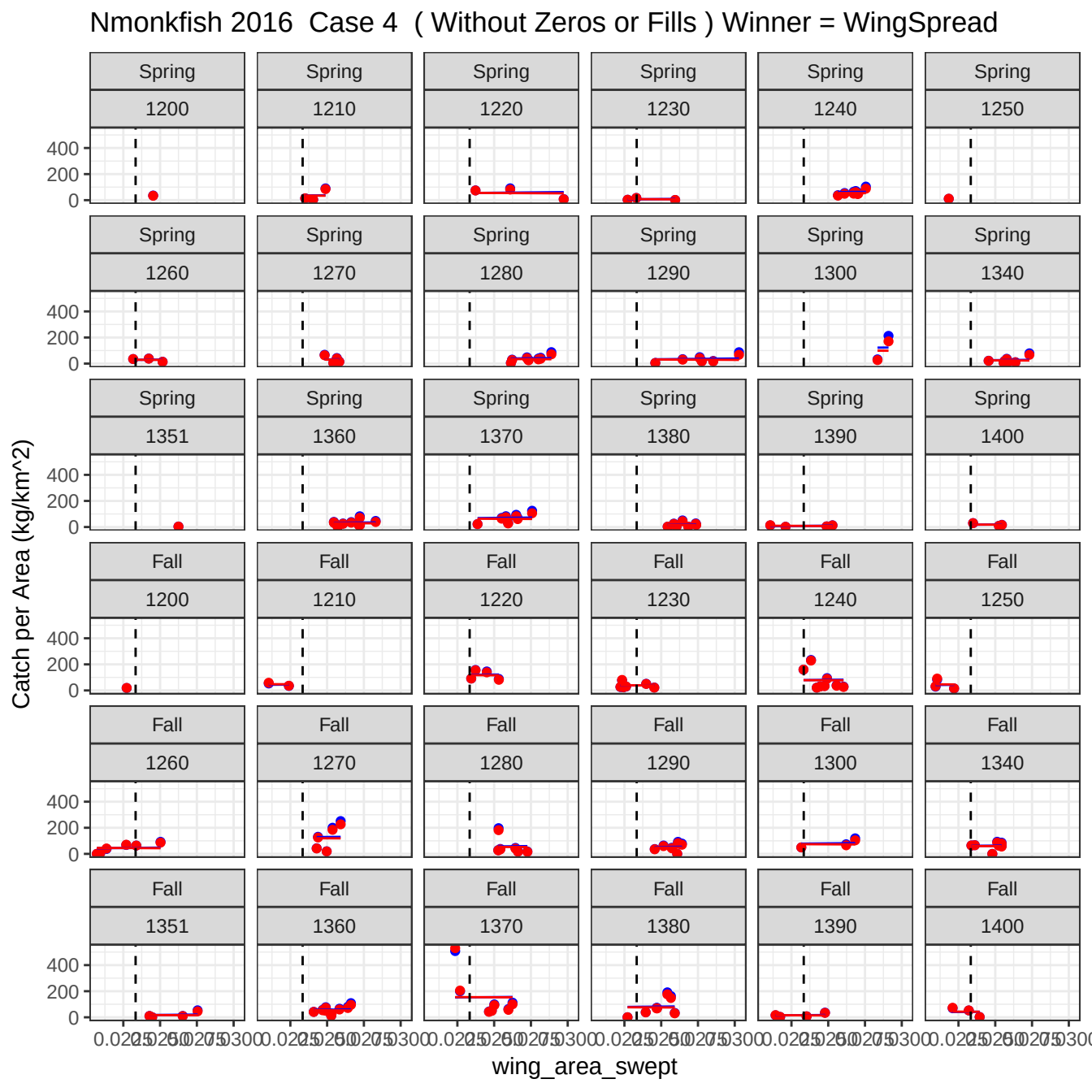

Nmonkfish 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1351
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1340
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
200
400
wing_area_swept

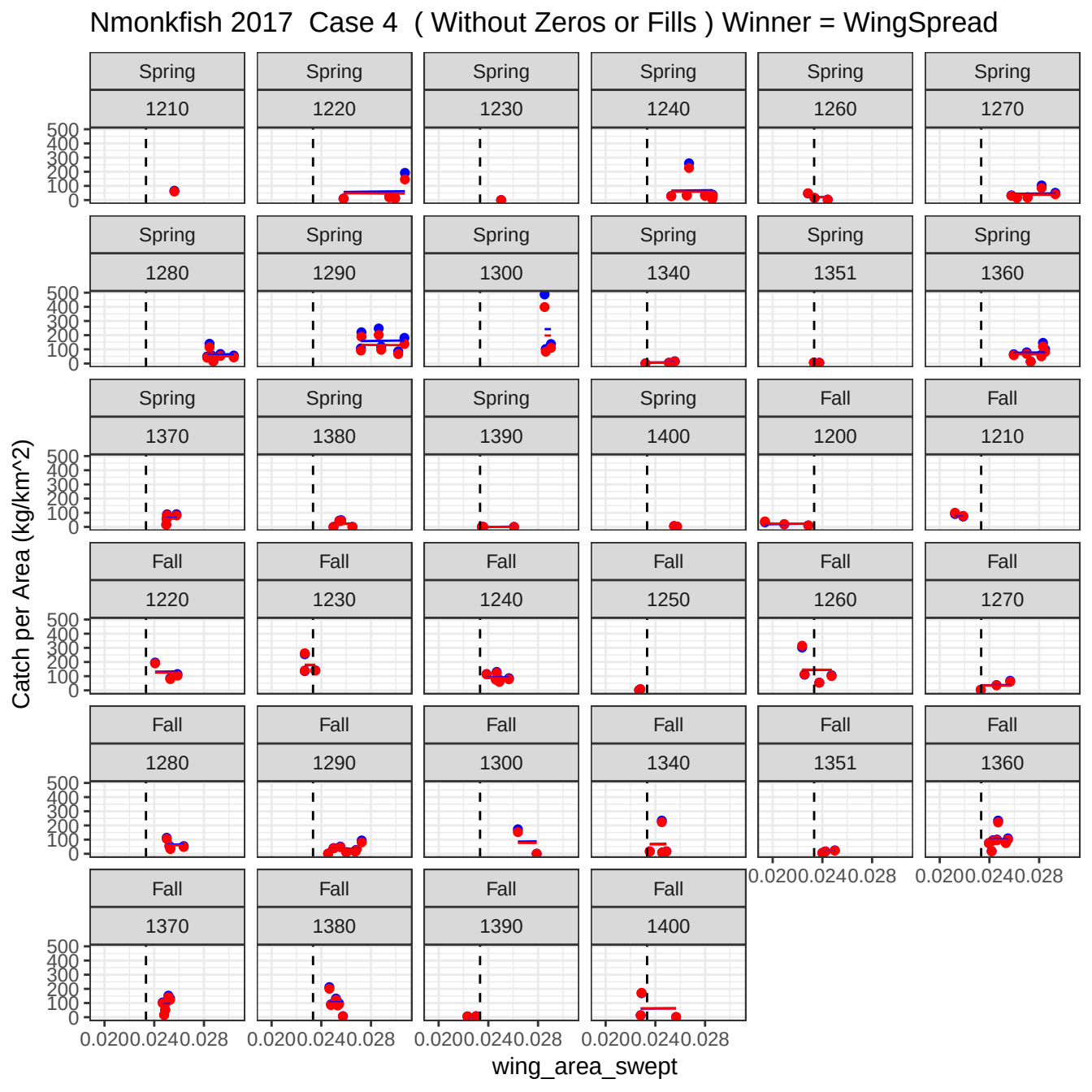

Nmonkfish 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1210
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1351
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1340
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
100
200
300
400
wing_area_swept

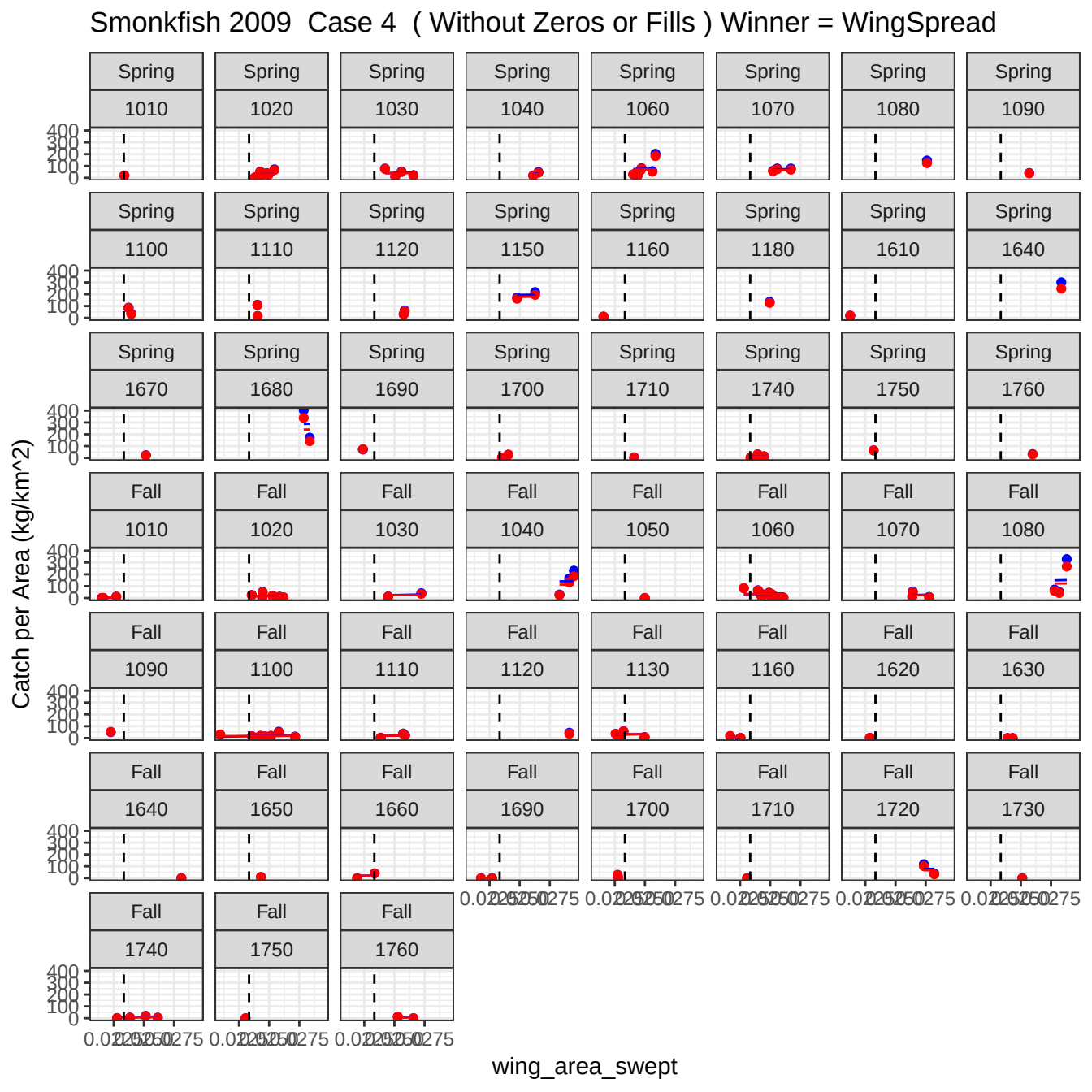

Nmonkfish 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1340
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
50
100
150
200
wing_area_swept
0.021
0.023
0.025
0.027
0.029

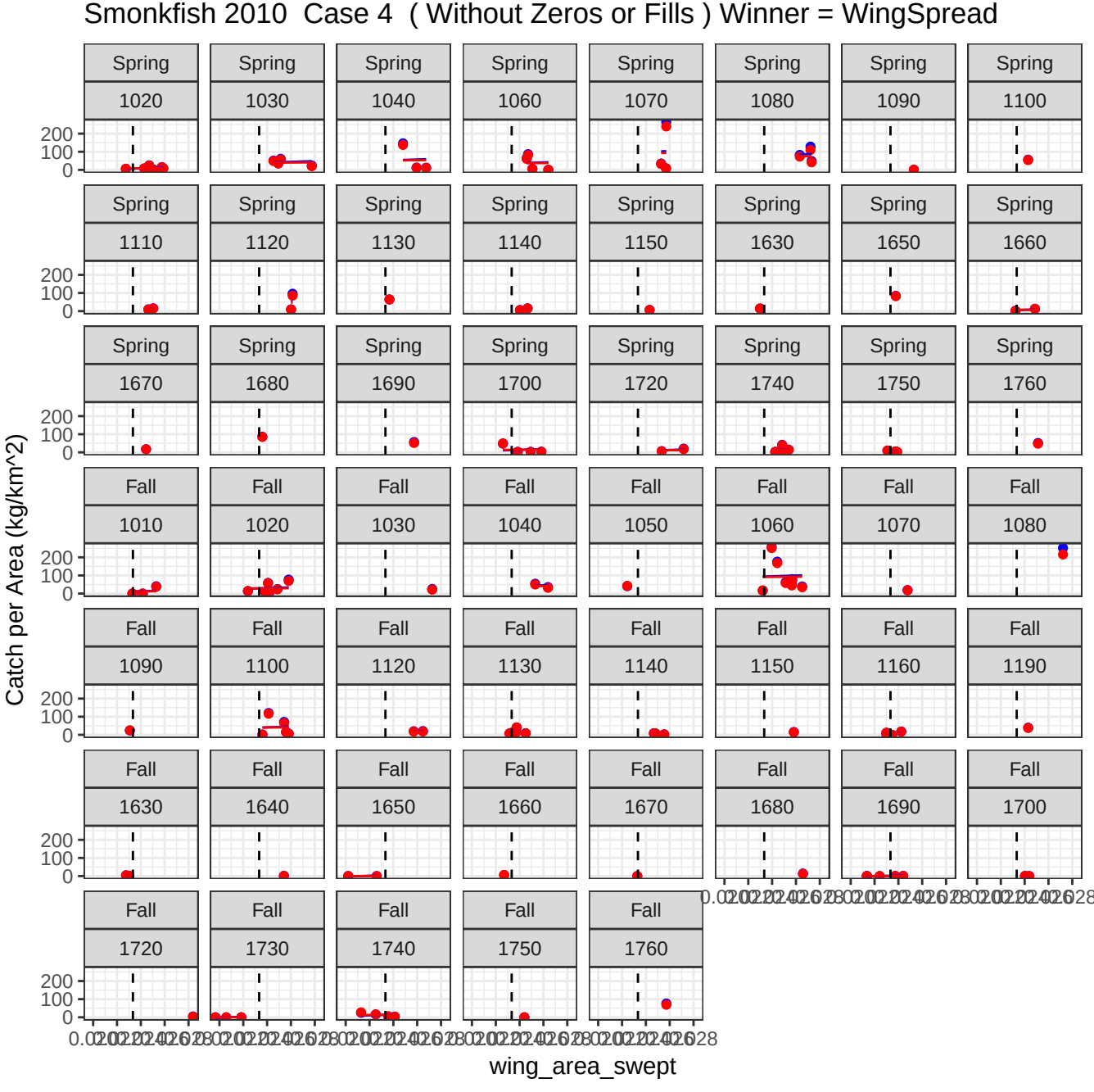

Nmonkfish 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1351
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Catch per Area (kg/km^2)
0
50
100
wing_area_swept

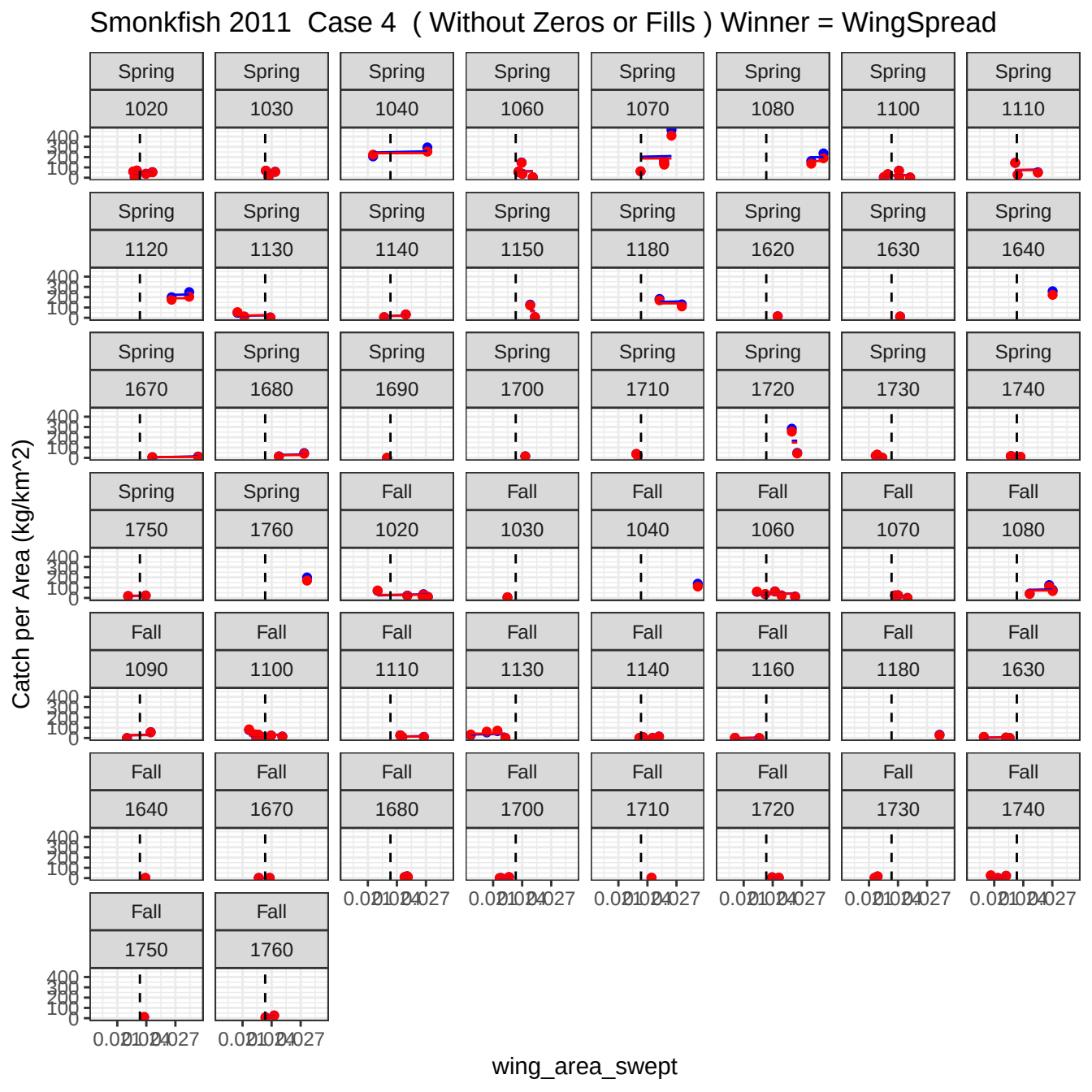

Nmonkfish 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1351
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1340
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
0
100
200
300
Catch per Area (kg/km^2)
wing_area_swept

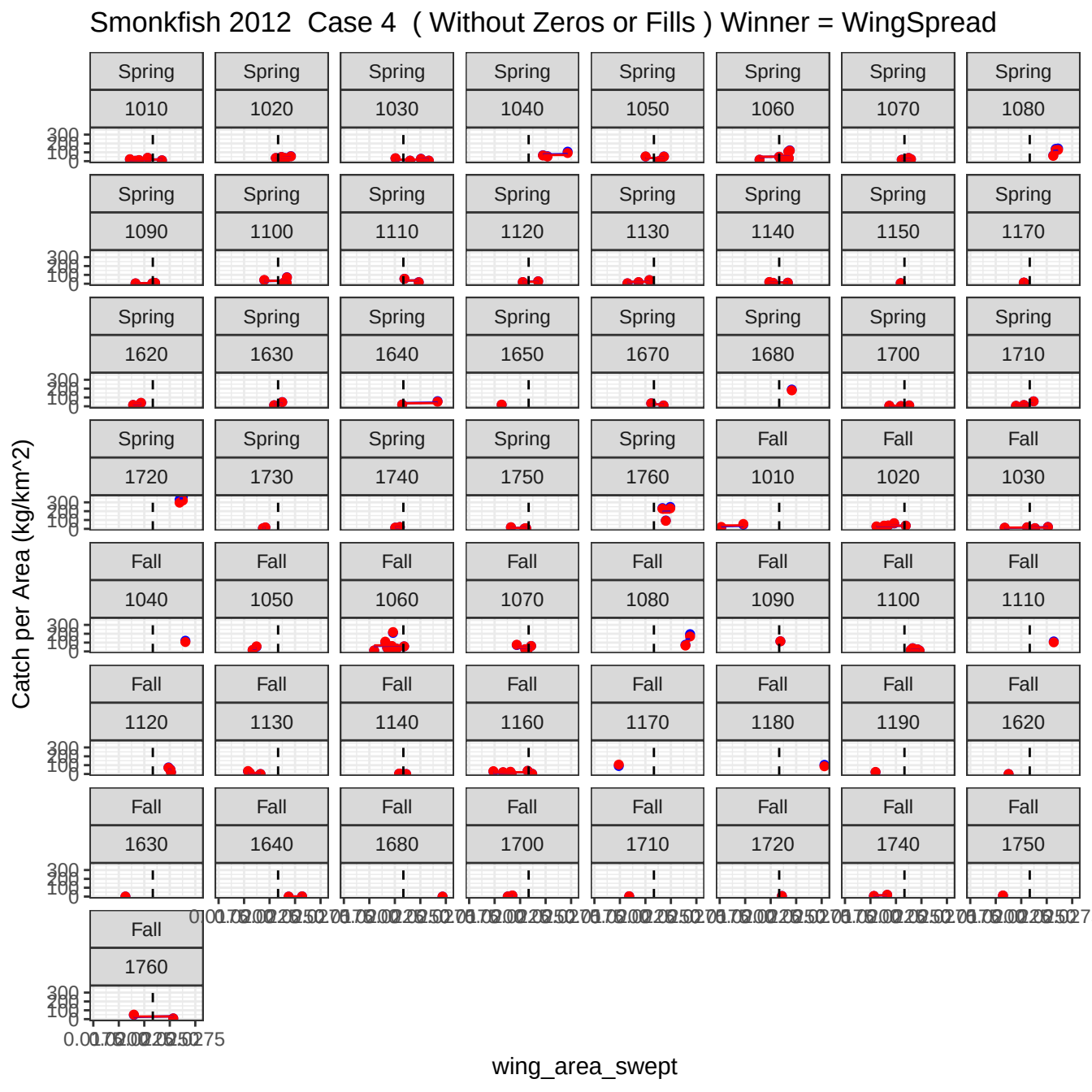

Nmonkfish 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1200
1210
1220
1230
1240
1250
1260
1270
1280
1290
1300
1340
1351
1360
1370
1380
1390
1400
Fall
Catch per Area (kg/km^2)
wing_area_swept

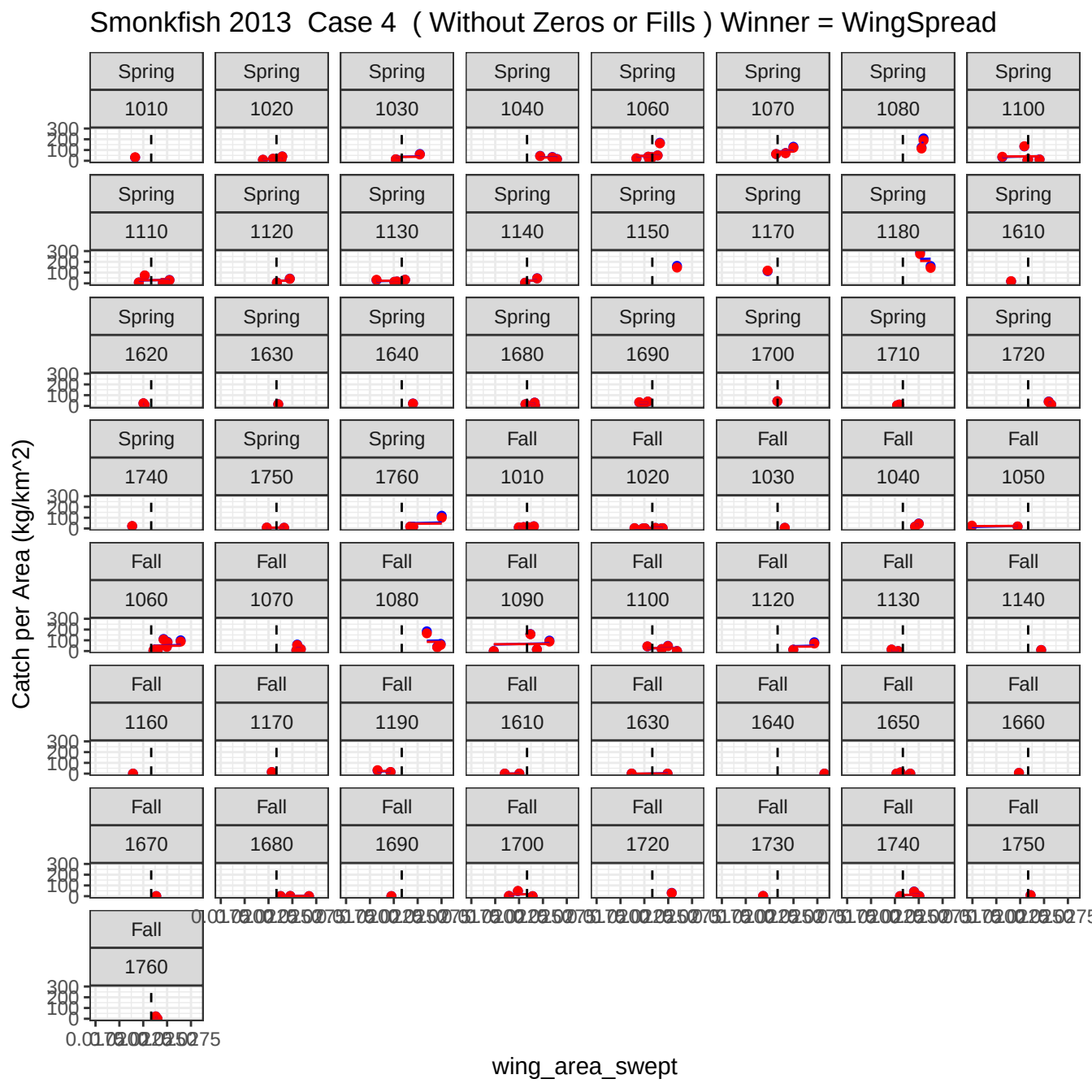

Nmonkfish 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1351
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1340
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
0
100
200
300
400
500
0.020
0.024
0.028
Catch per Area (kg/km^2)
wing_area_swept

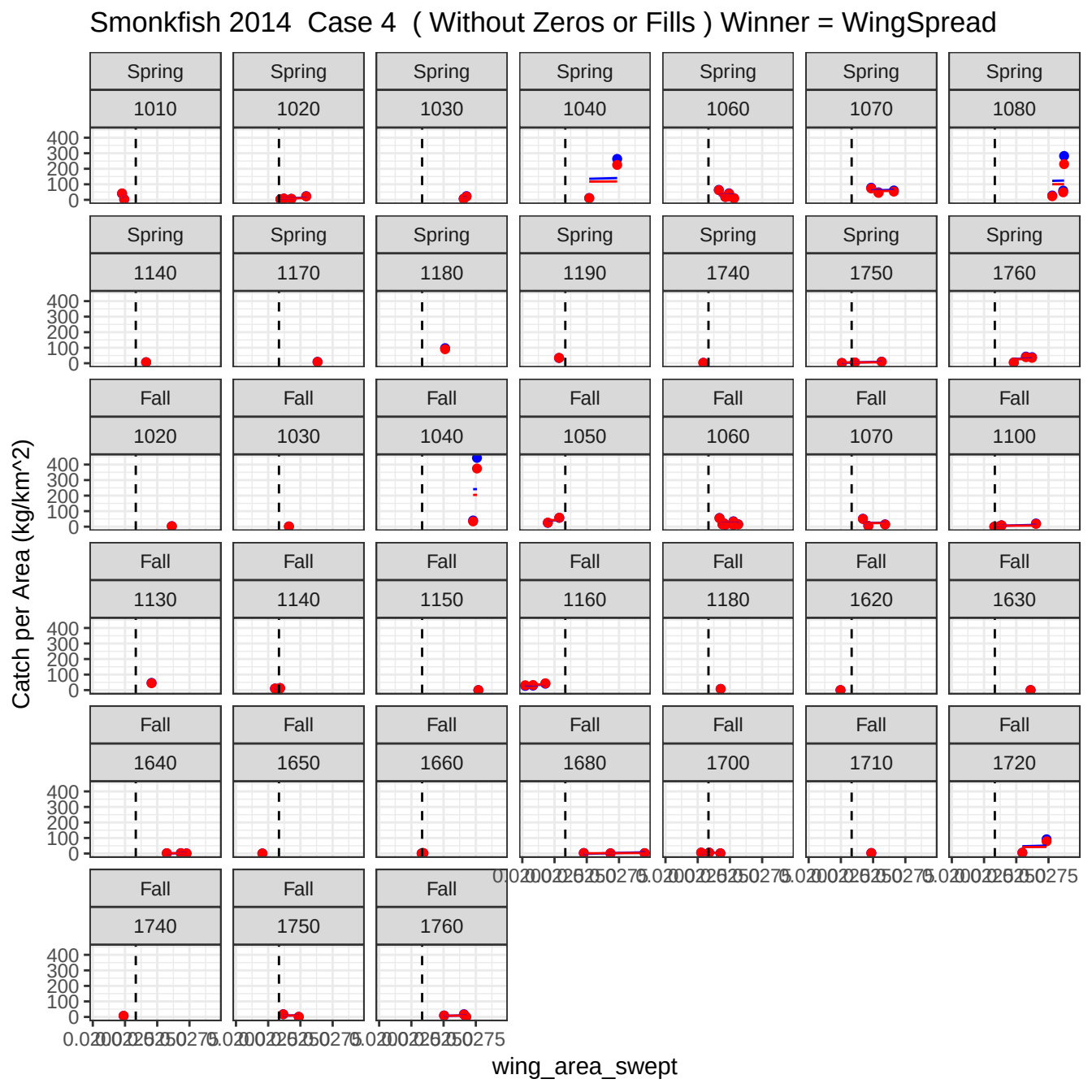

Smonkfish 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1150
Spring 1160
Spring 1180
Spring 1610
Spring 1640
Spring 1670
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1020
Fall 1030
Fall 1040
Fall 1050
Fall 1060
Fall 1070
Fall 1080
Fall 1090
Fall 1100
Fall 1110
Fall 1120
Fall 1130
Fall 1160
Fall 1620
Fall 1630
Fall 1640
Fall 1650
Fall 1660
Fall 1690
Fall 1700
Fall 1710
Fall 1720
Fall 1730
Fall 1740
Fall 1750
Fall 1760
Catch per Area (kg/km^2)
wing_area_swept

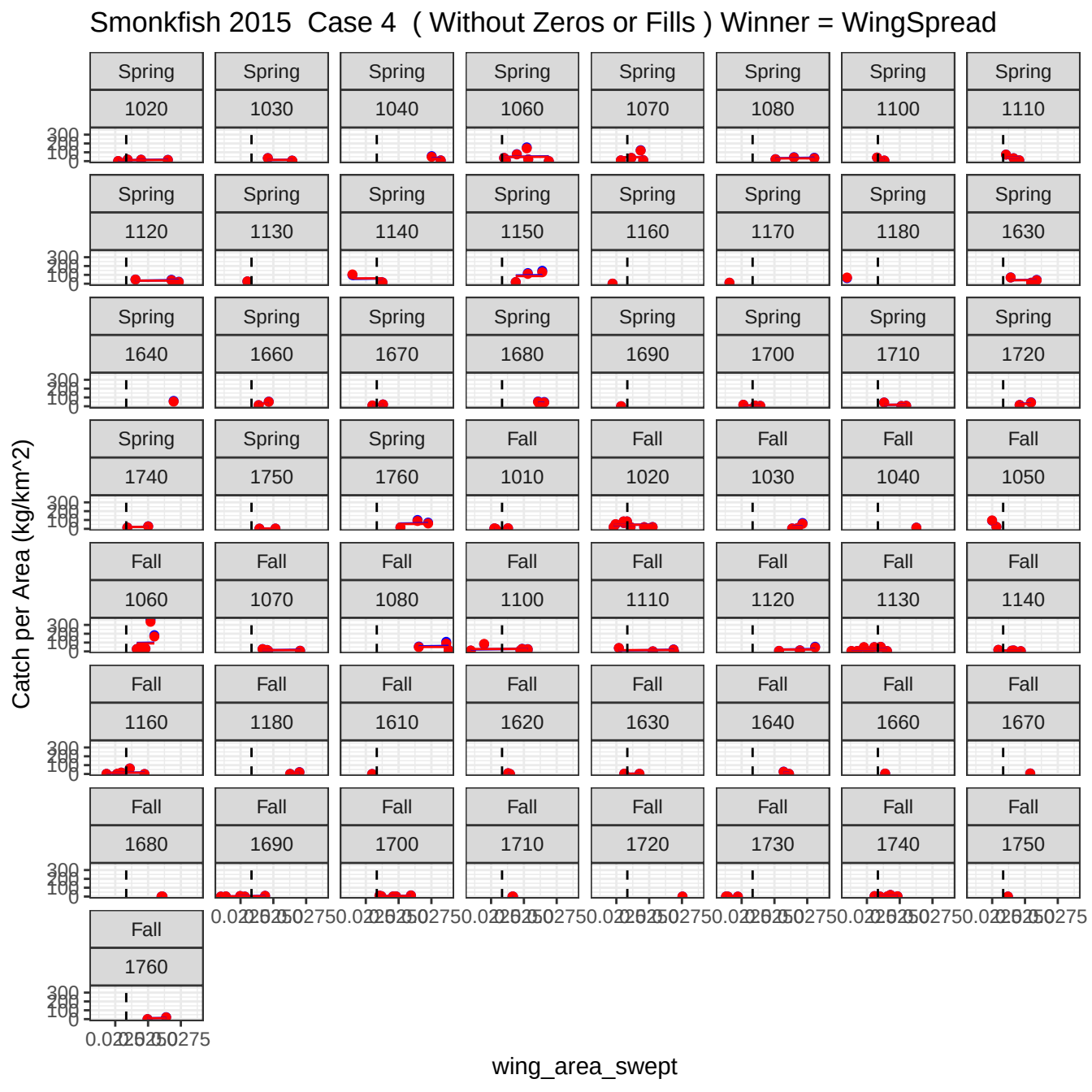

Smonkfish 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1020
Spring 1030
Spring 1040
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1630
Spring 1650
Spring 1660
Spring 1670
Spring 1680
Spring 1690
Spring 1700
Spring 1720
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1020
Fall 1030
Fall 1040
Fall 1050
Fall 1060
Fall 1070
Fall 1080
Fall 1090
Fall 1100
Fall 1120
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1190
Fall 1630
Fall 1640
Fall 1650
Fall 1660
Fall 1670
Fall 1680
Fall 1690
Fall 1700
Fall 1720
Fall 1730
Fall 1740
Fall 1750
Fall 1760
200
100
0
Catch per Area (kg/km^2)
wing_area_swept

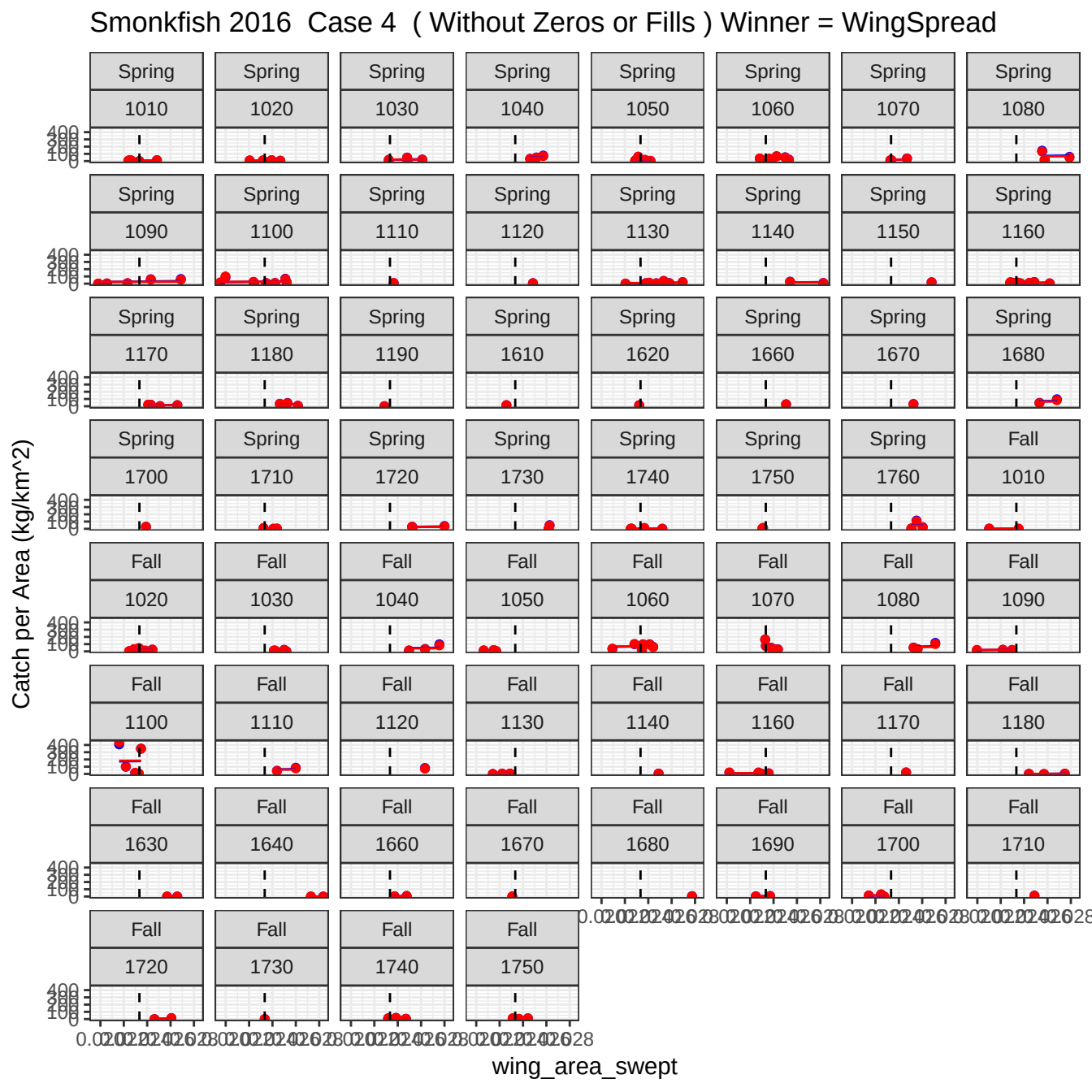

Smonkfish 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1020
Spring 1030
Spring 1040
Spring 1060
Spring 1070
Spring 1080
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1180
Spring 1620
Spring 1630
Spring 1640
Spring 1670
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1720
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 1020
Fall 1030
Fall 1040
Fall 1060
Fall 1070
Fall 1080
Fall 1090
Fall 1100
Fall 1110
Fall 1130
Fall 1140
Fall 1160
Fall 1180
Fall 1630
Fall 1640
Fall 1670
Fall 1680
Fall 1700
Fall 1710
Fall 1720
Fall 1730
Fall 1740
Fall 1750
Fall 1760
Catch per Area (kg/km^2)
wing_area_swept

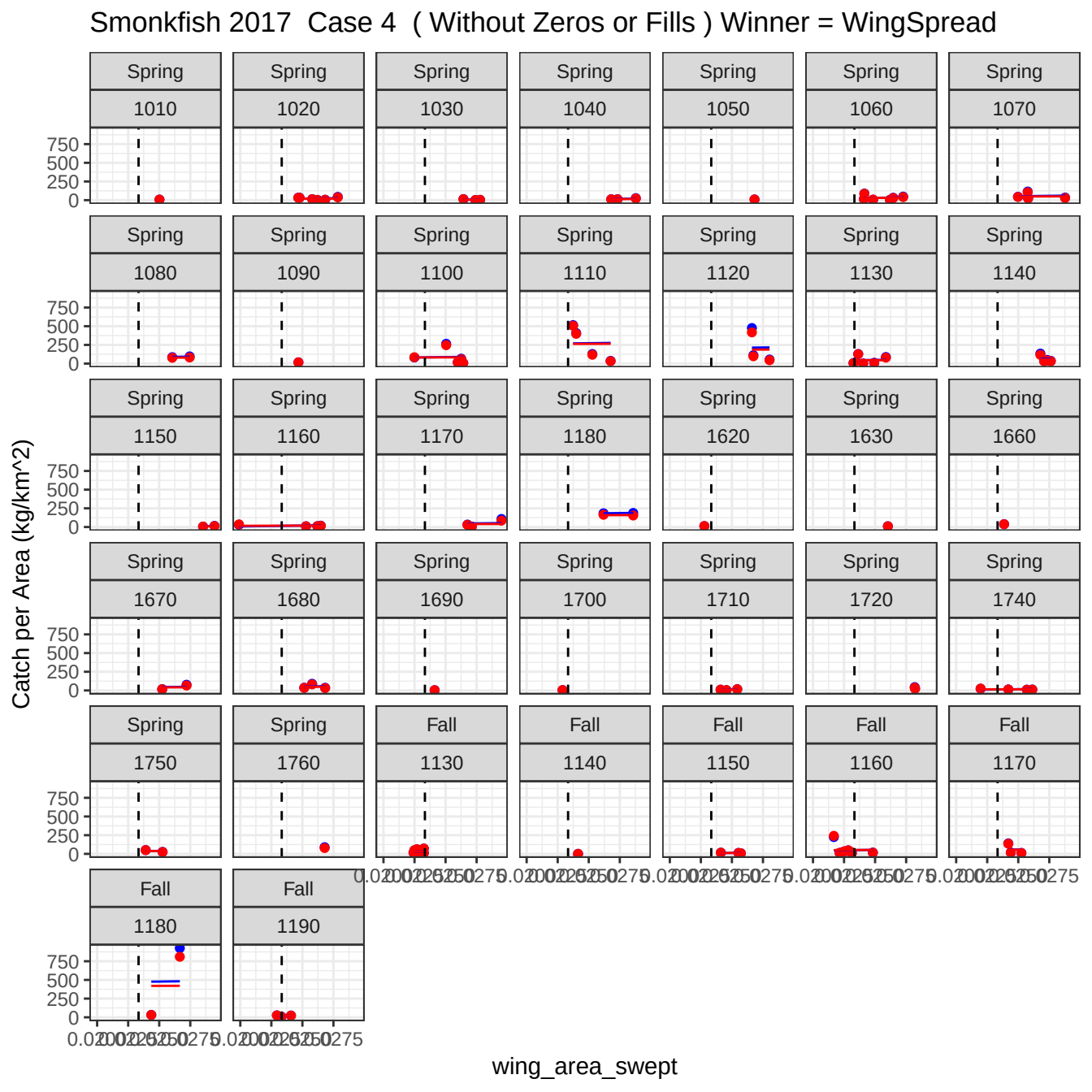

Smonkfish 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1170
Spring 1620
Spring 1630
Spring 1640
Spring 1650
Spring 1670
Spring 1680
Spring 1700
Spring 1710
Spring 1720
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1020
Fall 1030
Fall 1040
Fall 1050
Fall 1060
Fall 1070
Fall 1080
Fall 1090
Fall 1100
Fall 1110
Fall 1120
Fall 1130
Fall 1140
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1620
Fall 1630
Fall 1640
Fall 1680
Fall 1700
Fall 1710
Fall 1720
Fall 1740
Fall 1750
Fall 1760
Catch per Area (kg/km^2)
wing_area_swept

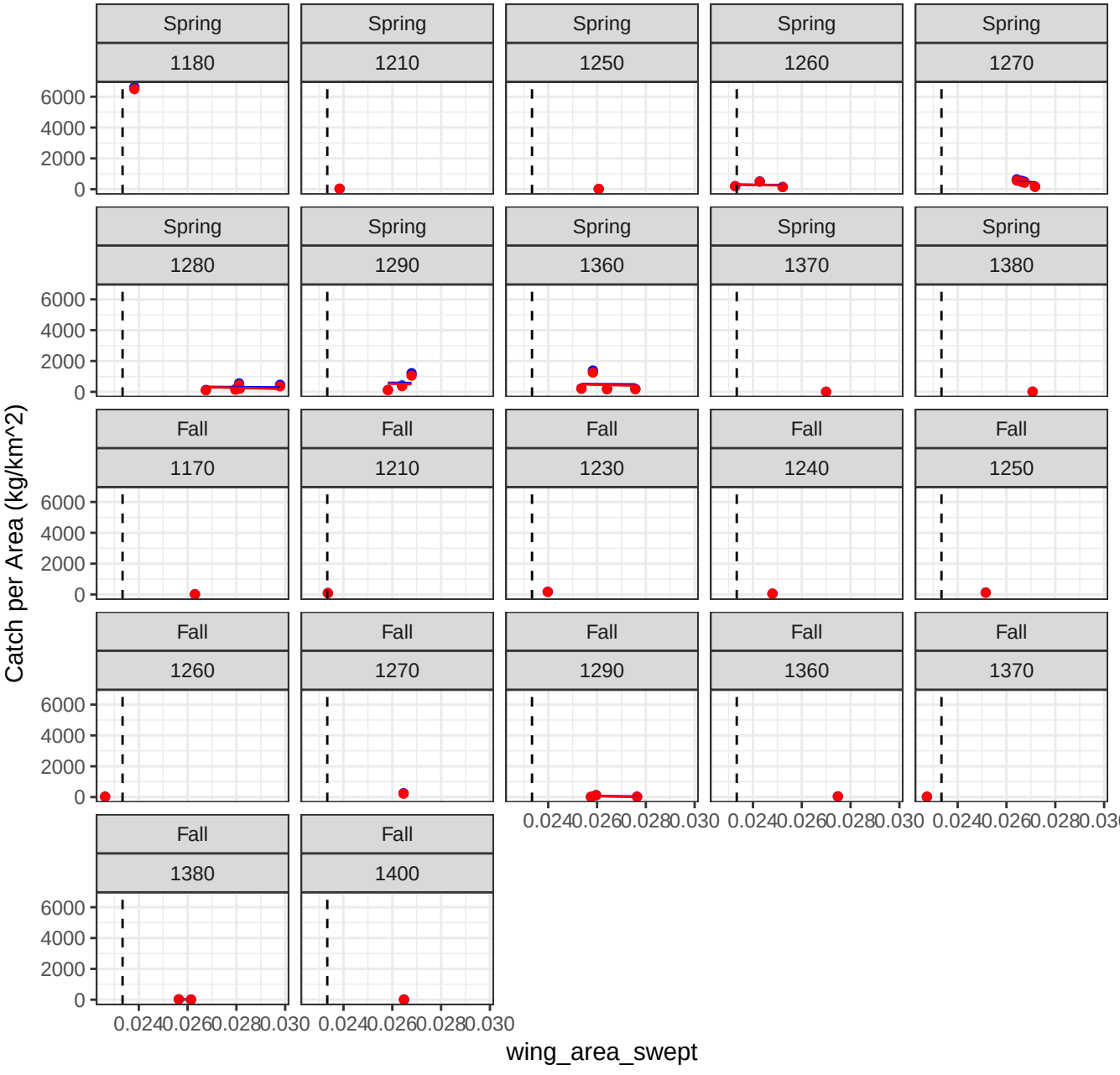

Smonkfish 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1060
Spring 1070
Spring 1080
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1170
Spring 1180
Spring 1610
Spring 1620
Spring 1630
Spring 1640
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1720
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1020
Fall 1030
Fall 1040
Fall 1050
Fall 1060
Fall 1070
Fall 1080
Fall 1090
Fall 1100
Fall 1120
Fall 1130
Fall 1140
Fall 1160
Fall 1170
Fall 1190
Fall 1610
Fall 1630
Fall 1640
Fall 1650
Fall 1660
Fall 1670
Fall 1680
Fall 1690
Fall 1700
Fall 1720
Fall 1730
Fall 1740
Fall 1750
Fall 1760
Catch per Area (kg/km^2)
wing_area_swept

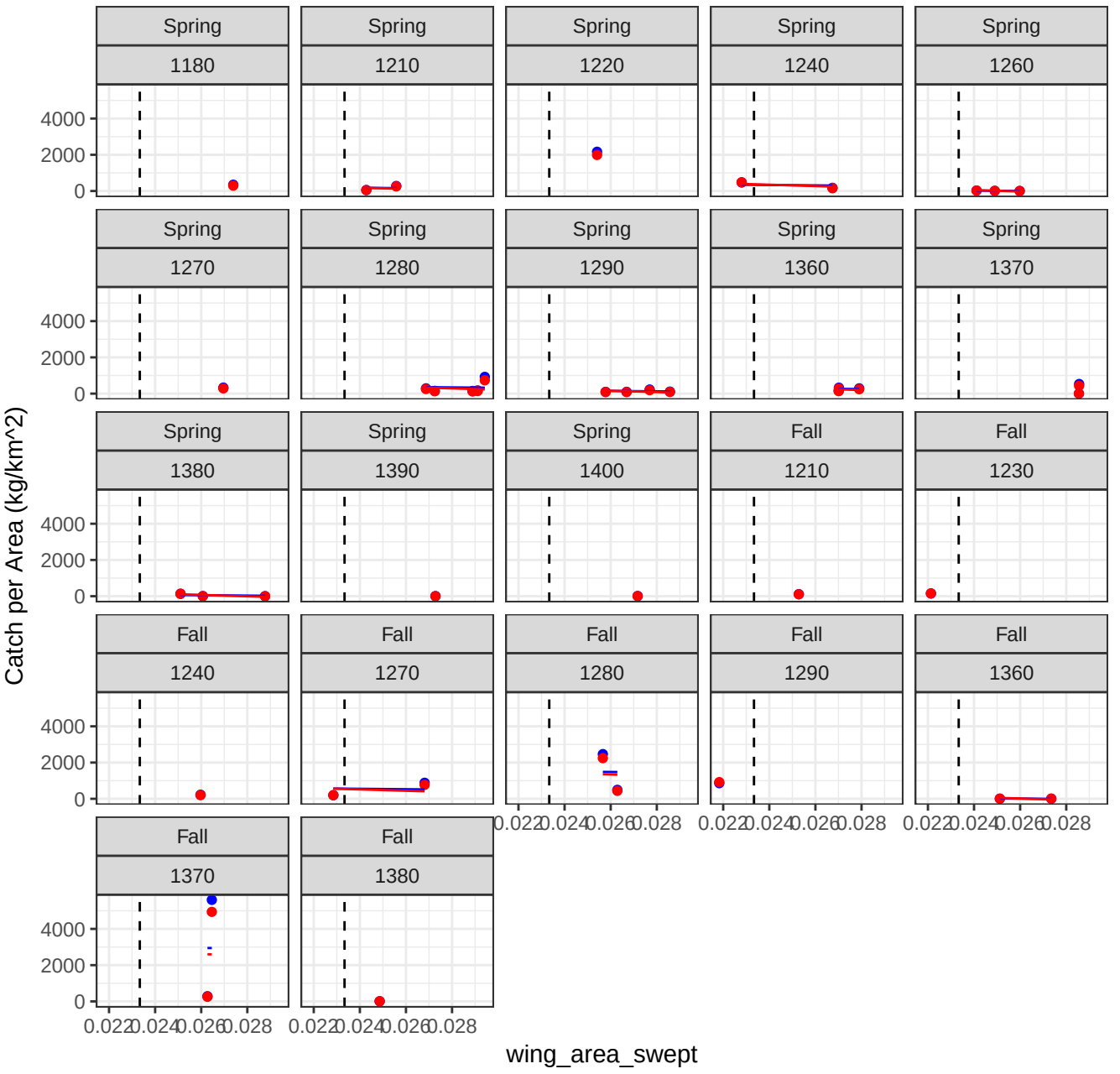

Smonkfish 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1060
Spring 1070
Spring 1080
Spring 1140
Spring 1170
Spring 1180
Spring 1190
Spring 1740
Spring 1750
Spring 1760
Fall 1020
Fall 1030
Fall 1040
Fall 1050
Fall 1060
Fall 1070
Fall 1100
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1180
Fall 1620
Fall 1630
Fall 1640
Fall 1650
Fall 1660
Fall 1680
Fall 1700
Fall 1710
Fall 1720
Fall 1740
Fall 1750
Fall 1760
Catch per Area (kg/km^2)
0
100
200
300
400
0.02
0.0225
0.025
0.0275
wing_area_swept

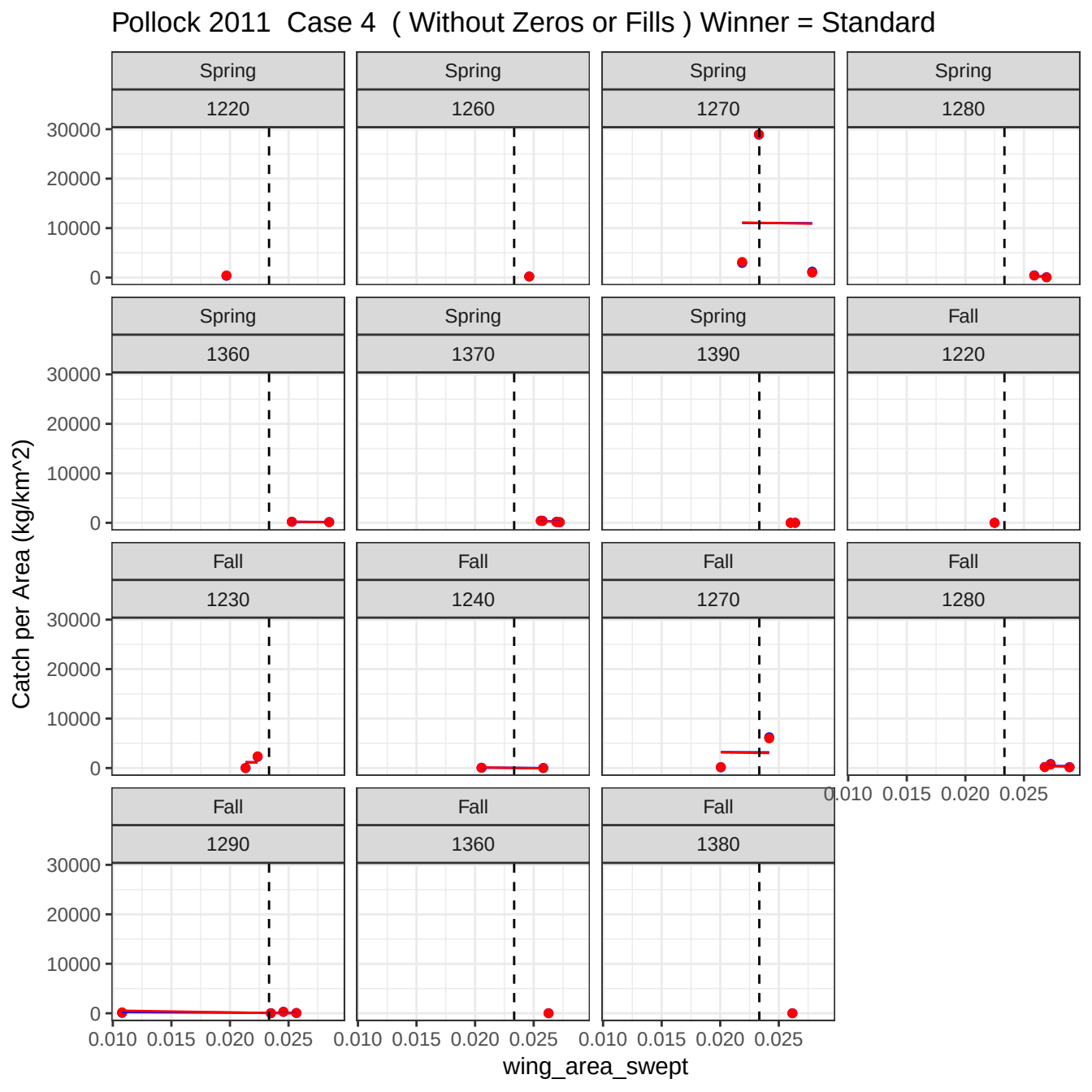

Smonkfish 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1020
Spring 1030
Spring 1040
Spring 1060
Spring 1070
Spring 1080
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1630
Spring 1640
Spring 1660
Spring 1670
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1720
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1020
Fall 1030
Fall 1040
Fall 1050
Fall 1060
Fall 1070
Fall 1080
Fall 1100
Fall 1110
Fall 1120
Fall 1130
Fall 1140
Fall 1160
Fall 1180
Fall 1610
Fall 1620
Fall 1630
Fall 1640
Fall 1660
Fall 1670
Fall 1680
Fall 1690
Fall 1700
Fall 1710
Fall 1720
Fall 1730
Fall 1740
Fall 1750
Fall 1760
Catch per Area (kg/km^2)
wing_area_swept

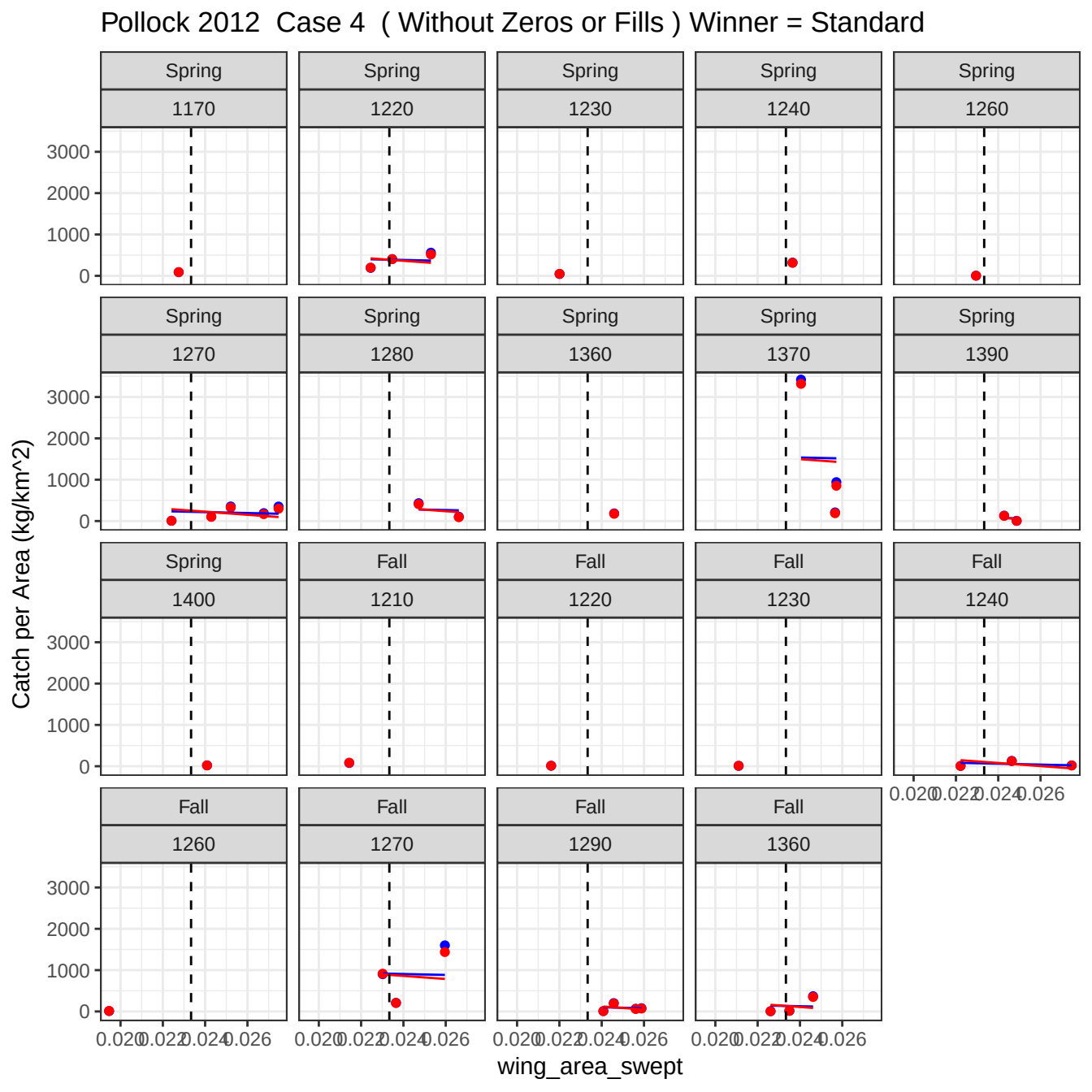

Smonkfish 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1610
Spring 1620
Spring 1660
Spring 1670
Spring 1680
Spring 1700
Spring 1710
Spring 1720
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1020
Fall 1030
Fall 1040
Fall 1050
Fall 1060
Fall 1070
Fall 1080
Fall 1090
Fall 1100
Fall 1110
Fall 1120
Fall 1130
Fall 1140
Fall 1160
Fall 1170
Fall 1180
Fall 1630
Fall 1640
Fall 1660
Fall 1670
Fall 1680
Fall 1690
Fall 1700
Fall 1710
Fall 1720
Fall 1730
Fall 1740
Fall 1750
Catch per Area (kg/km^2)
wing_area_swept

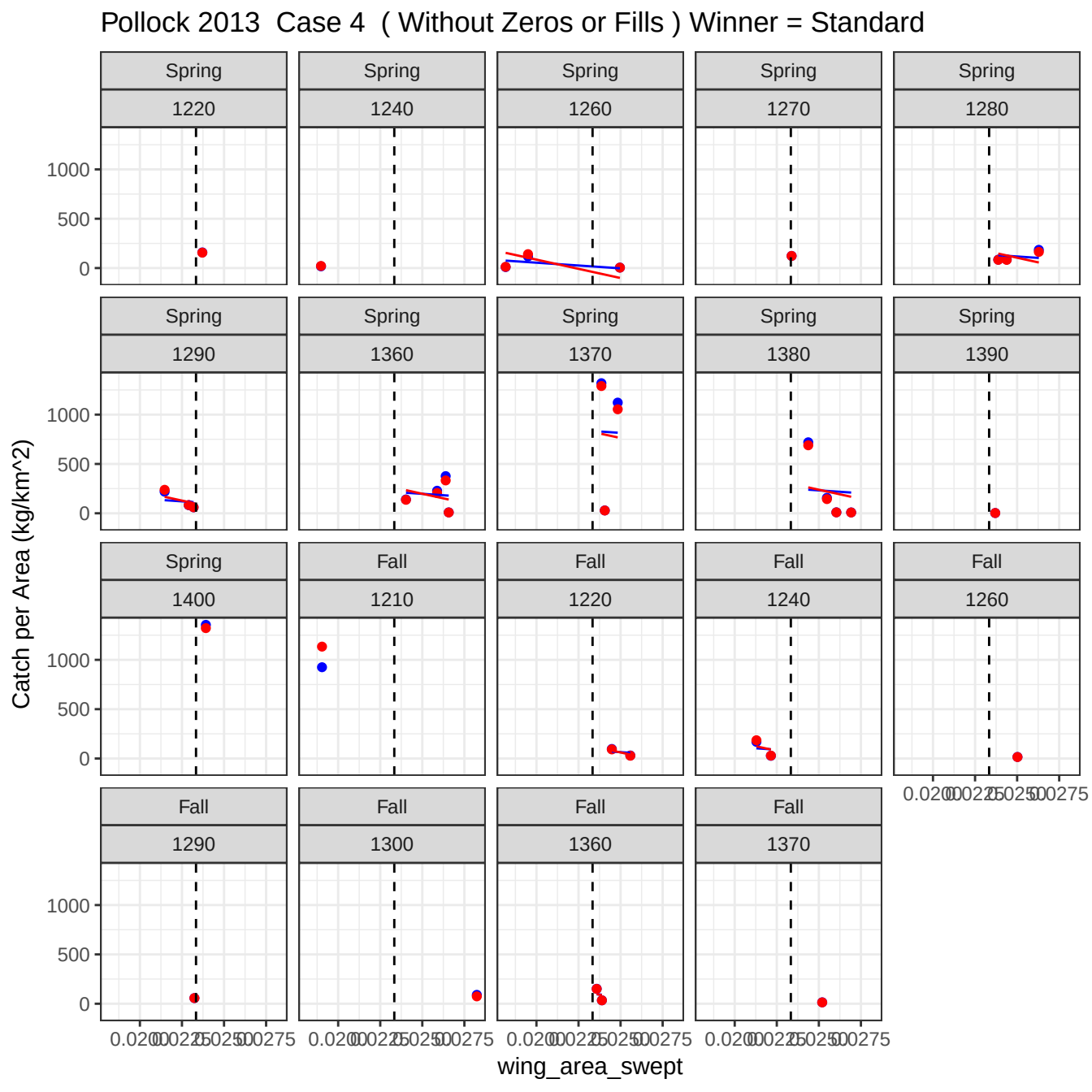

Smonkfish 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1620
Spring 1630
Spring 1660
Spring 1670
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1720
Spring 1740
Spring 1750
Spring 1760
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
0
250
500
750
Catch per Area (kg/km^2)
wing_area_swept

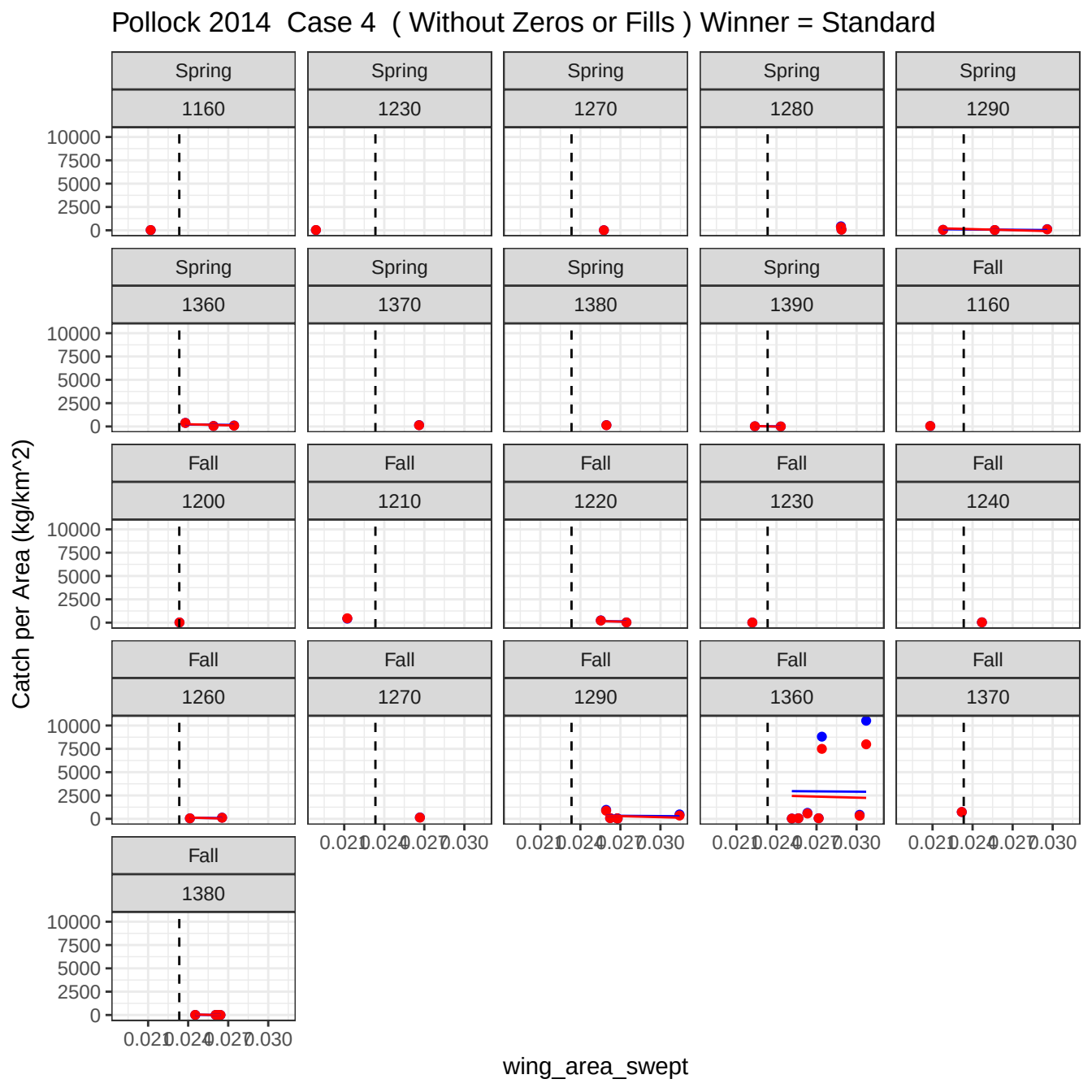

Pollock 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1180
1210
1250
1260
1270
1280
1290
1360
1370
1380
Fall
1170
1210
1230
1240
1250
1260
1270
1290
1360
1370
1380
1400
0
2000
4000
6000
0.024
0.026
0.028
0.030
Catch per Area (kg/km^2)
wing_area_swept

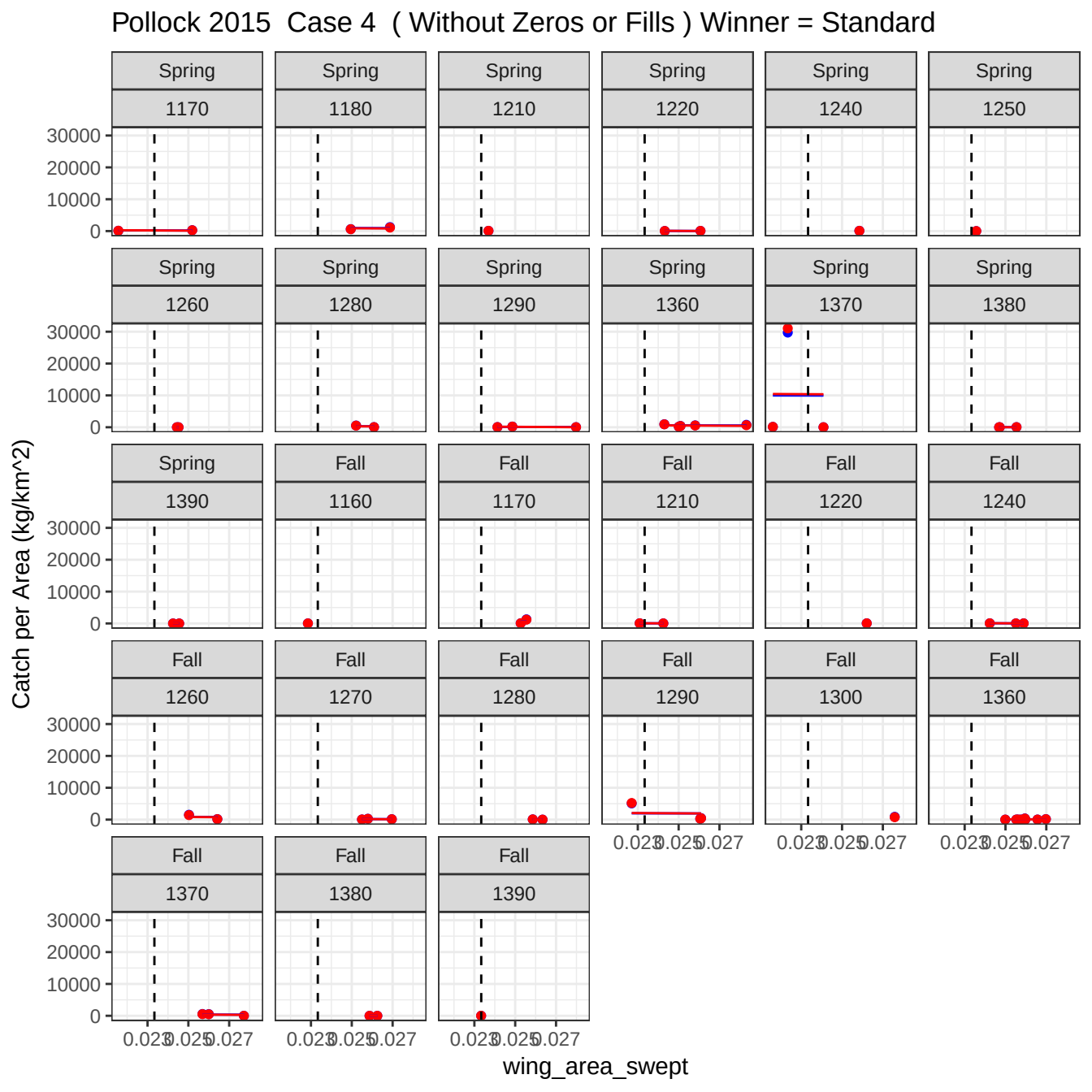

Pollock 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1180
Spring 1210
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1230
Fall 1240
Fall 1270
Fall 1280
Fall 1290
Fall 1360
Fall 1370
Fall 1380
Catch per Area (kg/km^2)
wing_area_swept
0
2000
4000
0.022
0.024
0.026
0.028

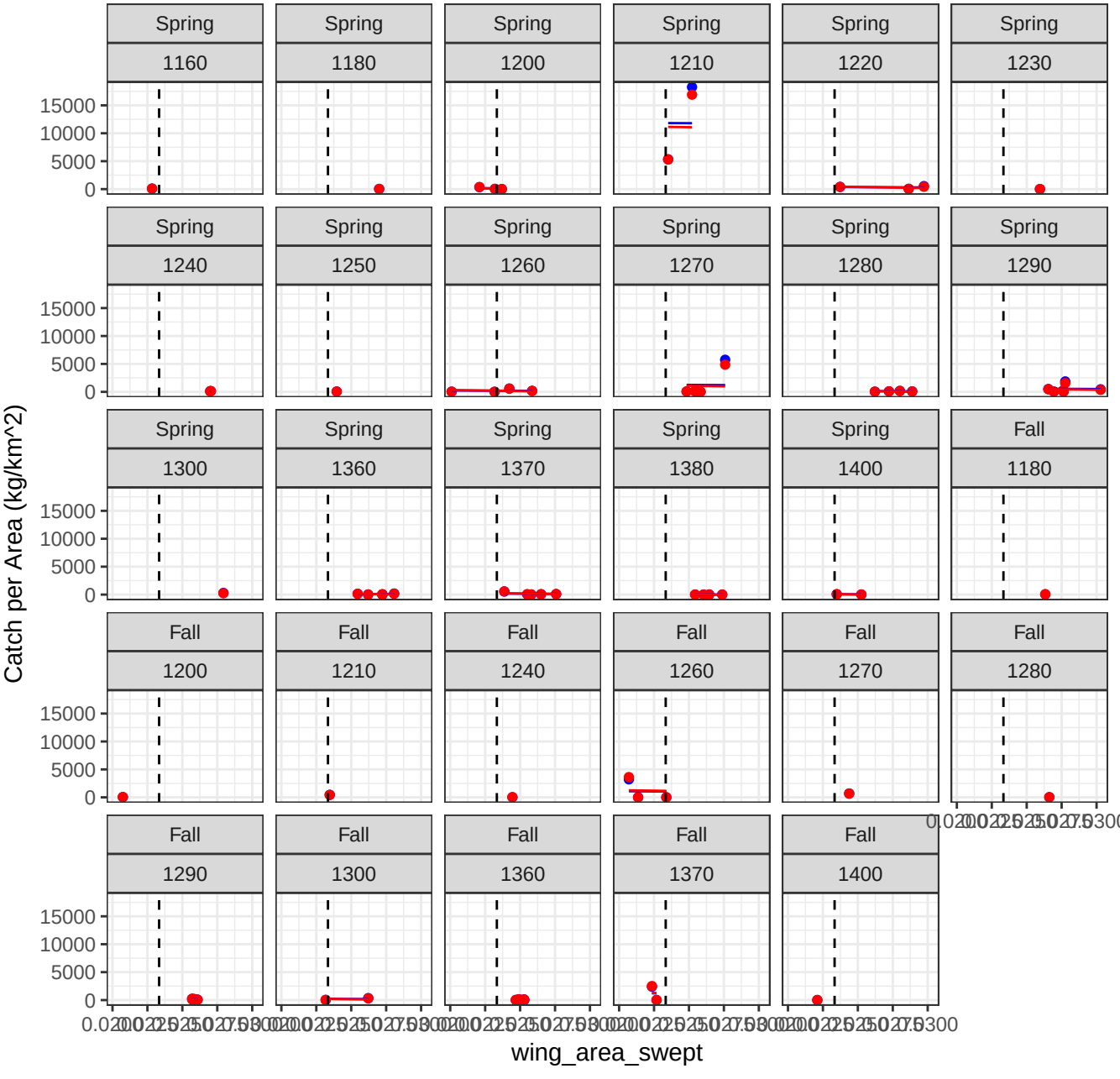

Pollock 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1220
Spring 1260
Spring 1270
Spring 1280
Spring 1360
Spring 1370
Spring 1390
Fall 1220
Fall 1230
Fall 1240
Fall 1270
Fall 1280
Fall 1290
Fall 1360
Fall 1380
Catch per Area (kg/km^2)
wing_area_swept
0
10000
20000
30000
0.010
0.015
0.020
0.025

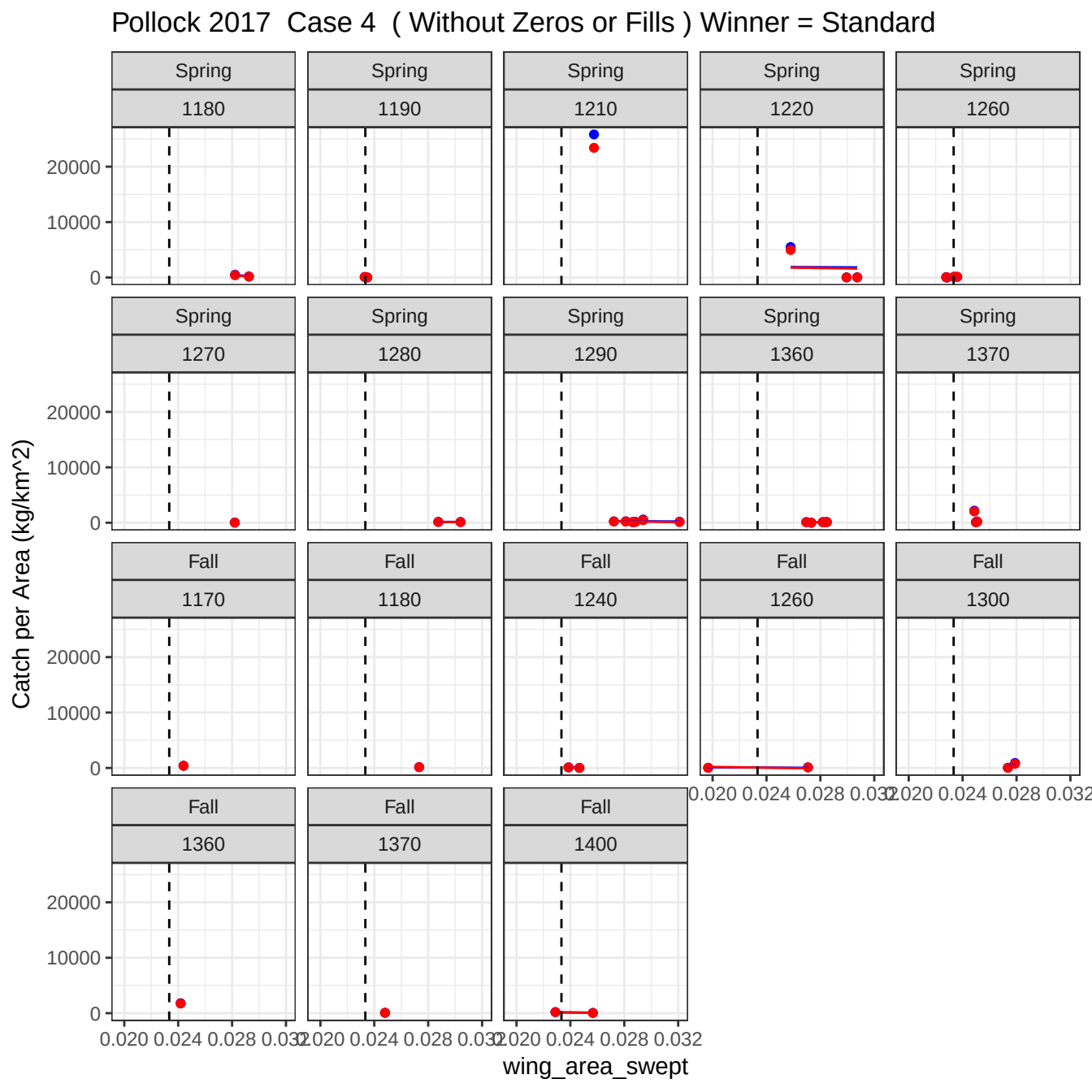

Pollock 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1170
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1360
Spring 1370
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1290
Fall 1360
Catch per Area (kg/km^2)
0
1000
2000
3000
0.020
0.022
0.024
0.026
wing_area_swept

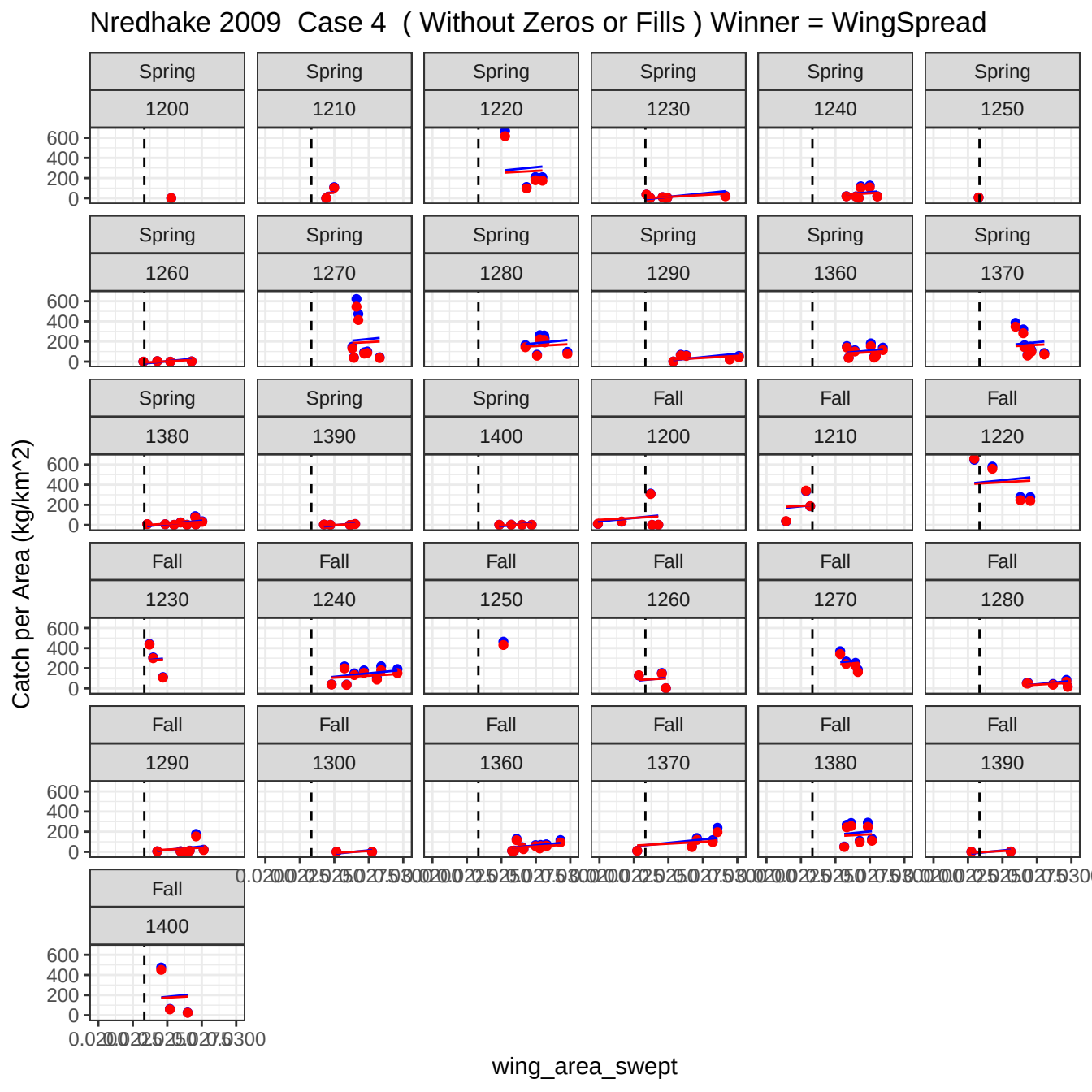

Pollock 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1220
Spring
1240
Spring
1260
Spring
1270
Spring
1280
Spring
1290
Spring
1360
Spring
1370
Spring
1380
Spring
1390
Spring
1400
Fall
1210
Fall
1220
Fall
1240
Fall
1260
Fall
1290
Fall
1300
Fall
1360
Fall
1370
Catch per Area (kg/km^2)
0
500
1000
wing_area_swept
0.020
0.0225
0.025
0.0275

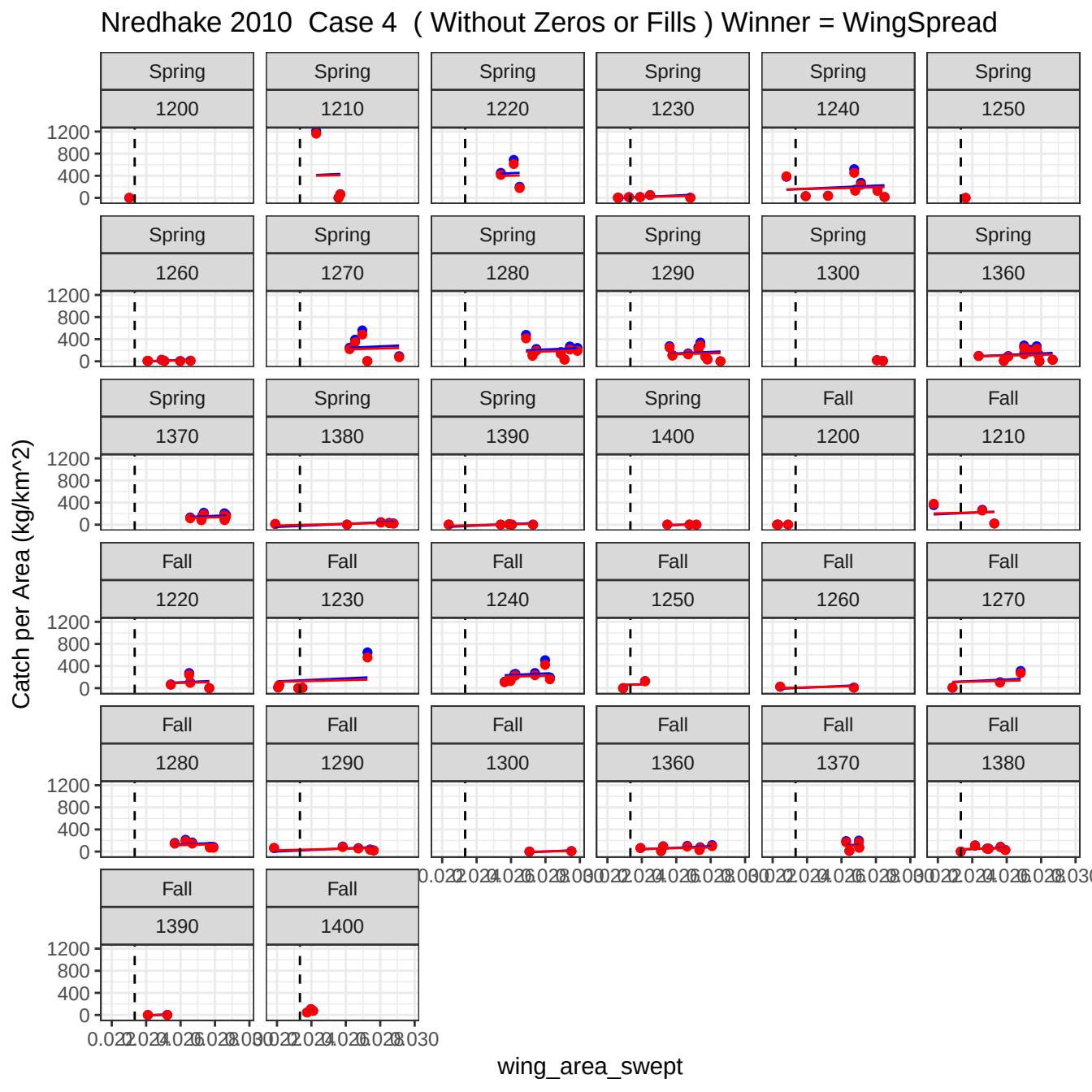

Pollock 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1160
Spring 1230
Spring 1270
Spring 1280
Spring 1290
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Fall 1160
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1290
Fall 1360
Fall 1370
Fall 1380
10000
7500
5000
2500
0
0.021
0.024
0.027
0.030
Catch per Area (kg/km^2)
wing_area_swept

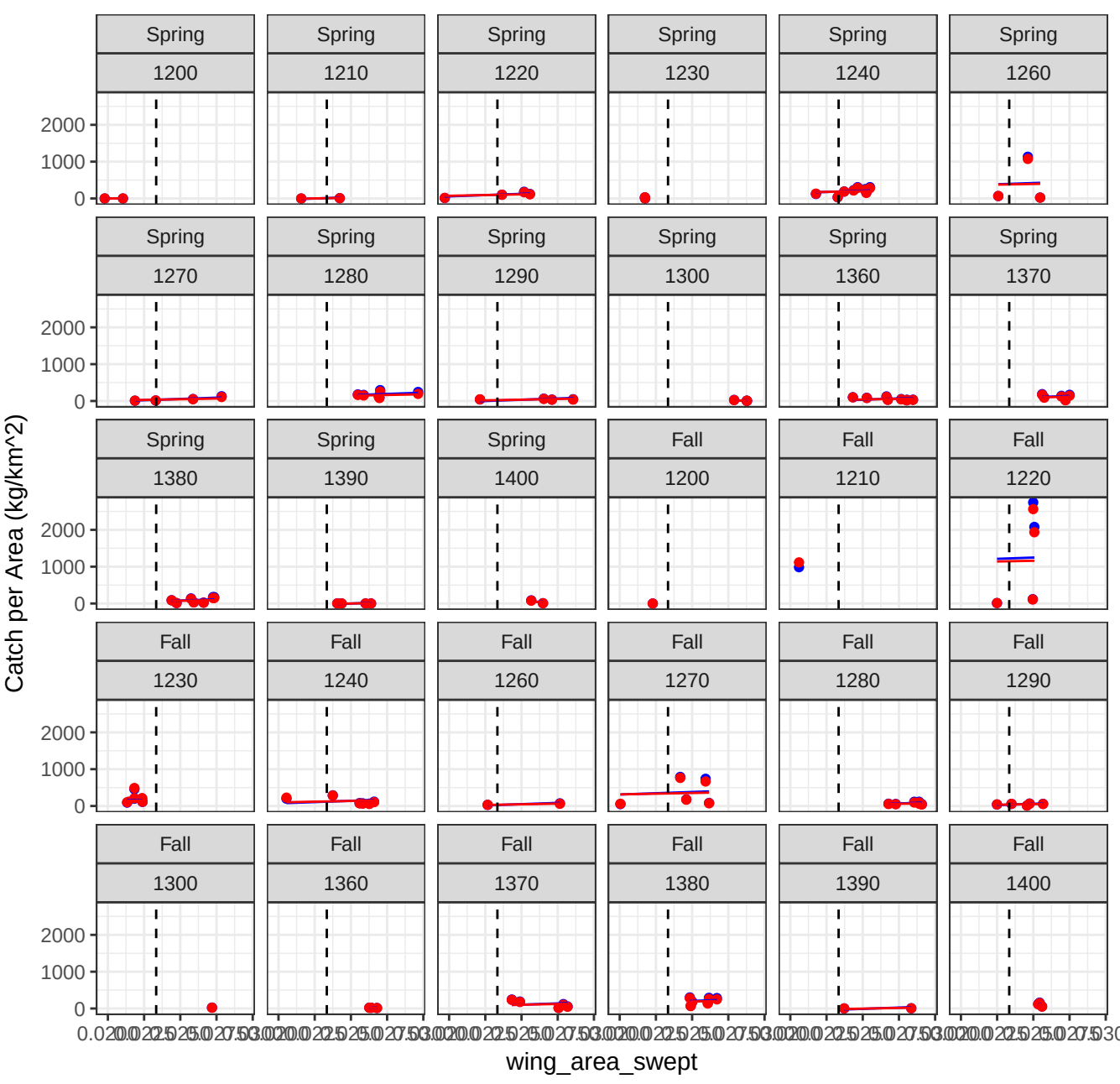

Pollock 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1170
Spring 1180
Spring 1210
Spring 1220
Spring 1240
Spring 1250
Spring 1260
Spring 1280
Spring 1290
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Fall 1160
Fall 1170
Fall 1210
Fall 1220
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
30000
20000
10000
0
0.023
0.025
0.027
Catch per Area (kg/km^2)
wing_area_swept

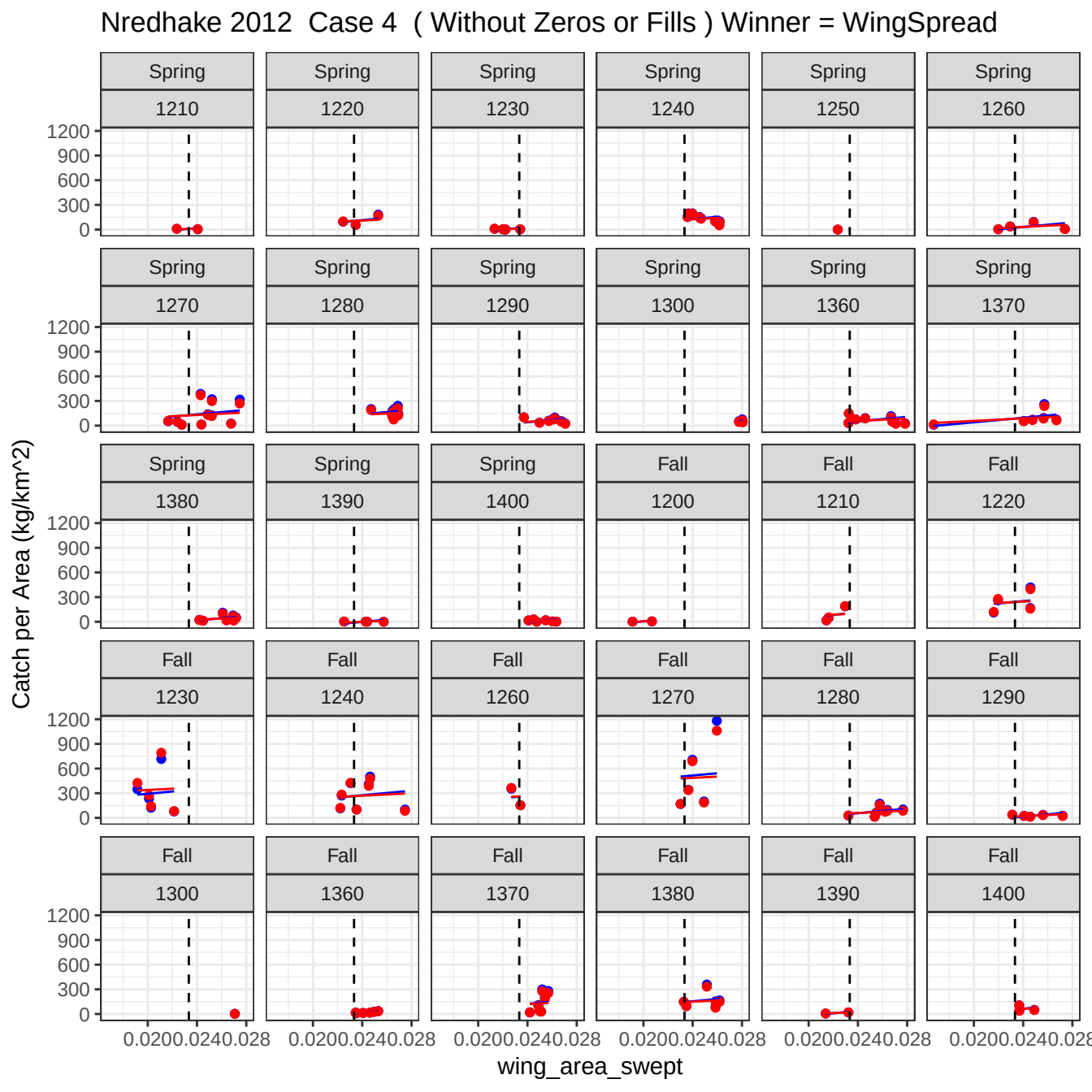

Pollock 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1160
Spring 1180
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1400
Fall 1180
Fall 1200
Fall 1210
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1400
15000
10000
5000
0
Catch per Area (kg/km^2)
wing_area_swept

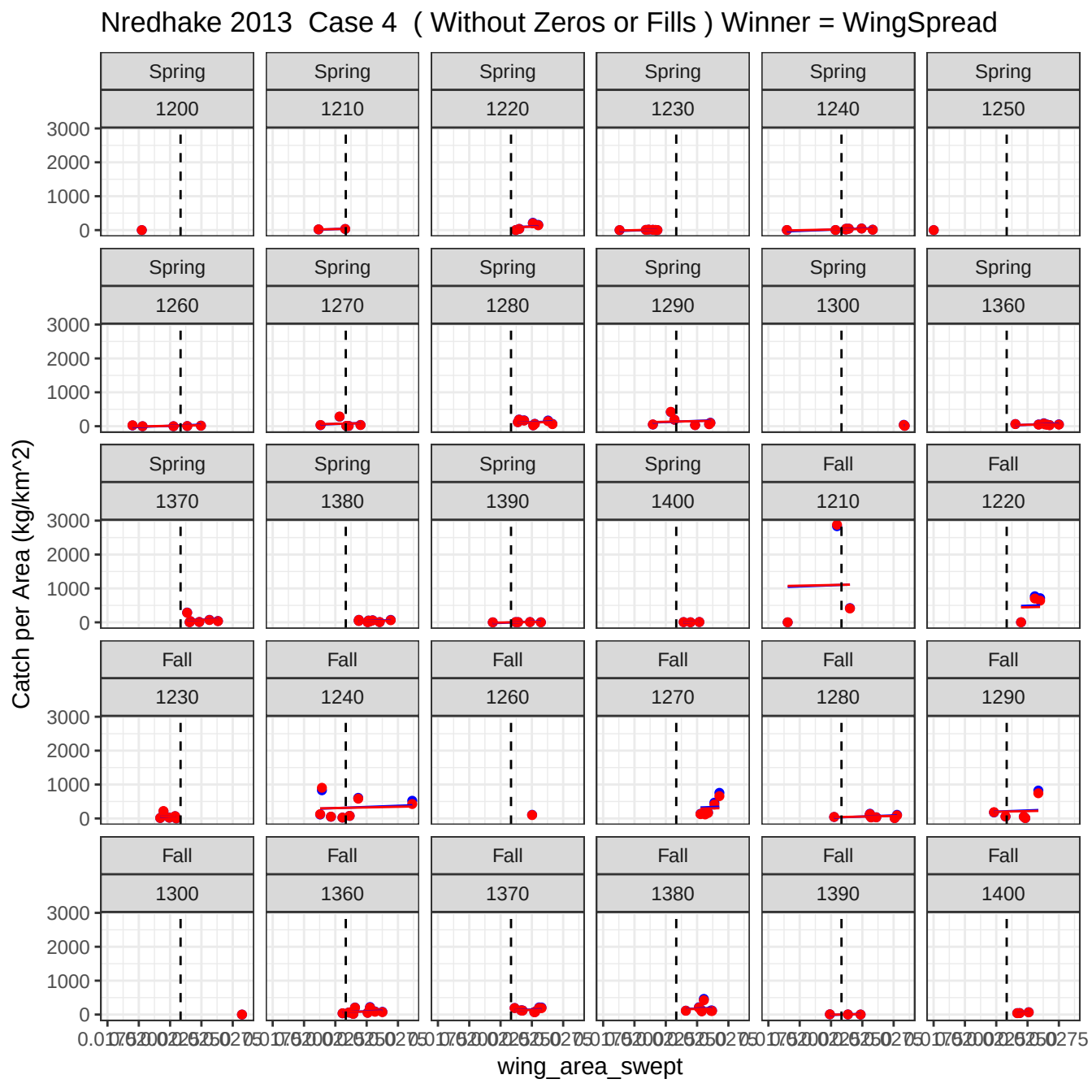

Pollock 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1180
1190
1210
1220
1260
1270
1280
1290
1360
1370
Fall
1170
1180
1240
1260
1300
1360
1370
1400
Catch per Area (kg/km^2)
20000
10000
0
0.020
0.024
0.028
0.032
wing_area_swept

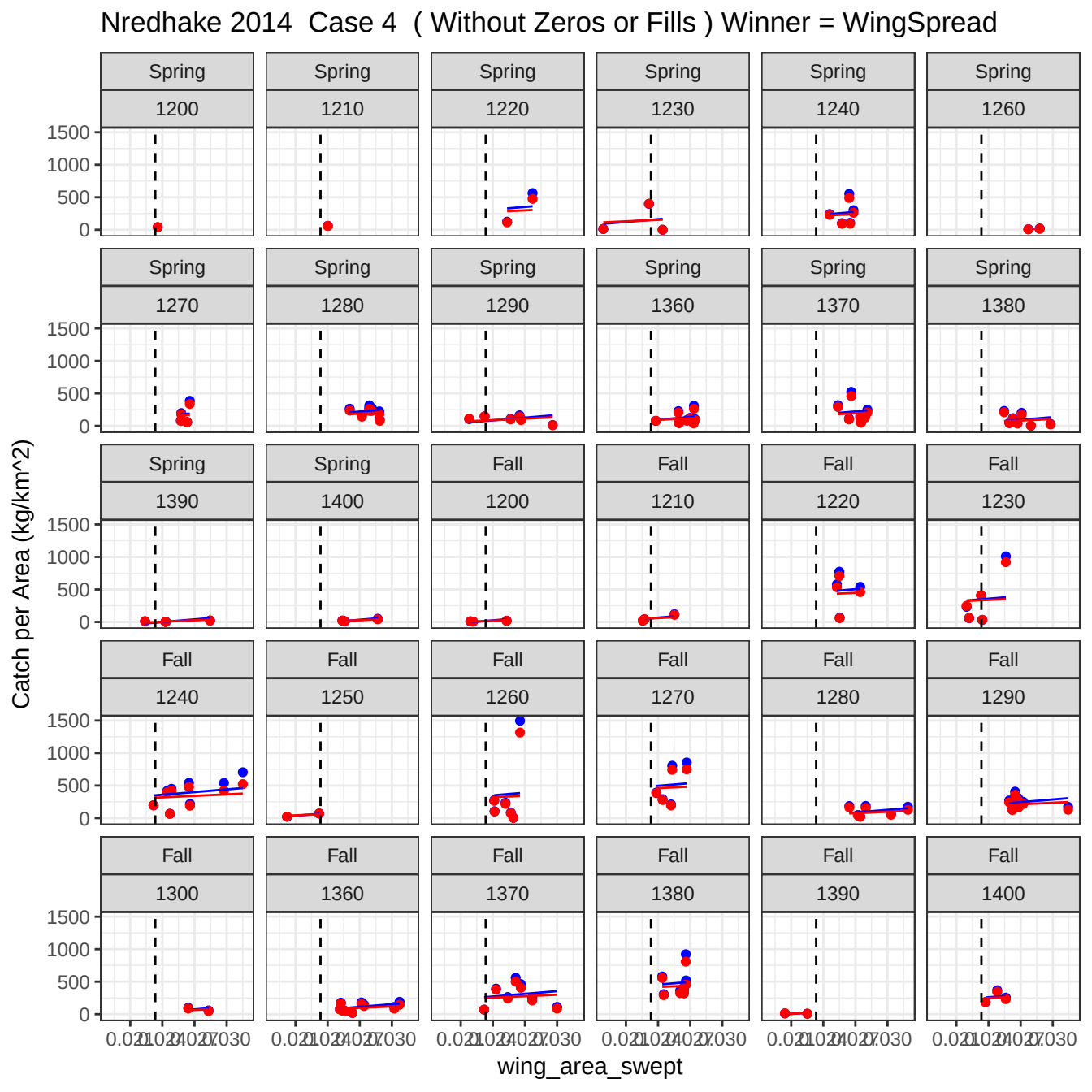

Nredhake 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
200
400
600
wing_area_swept

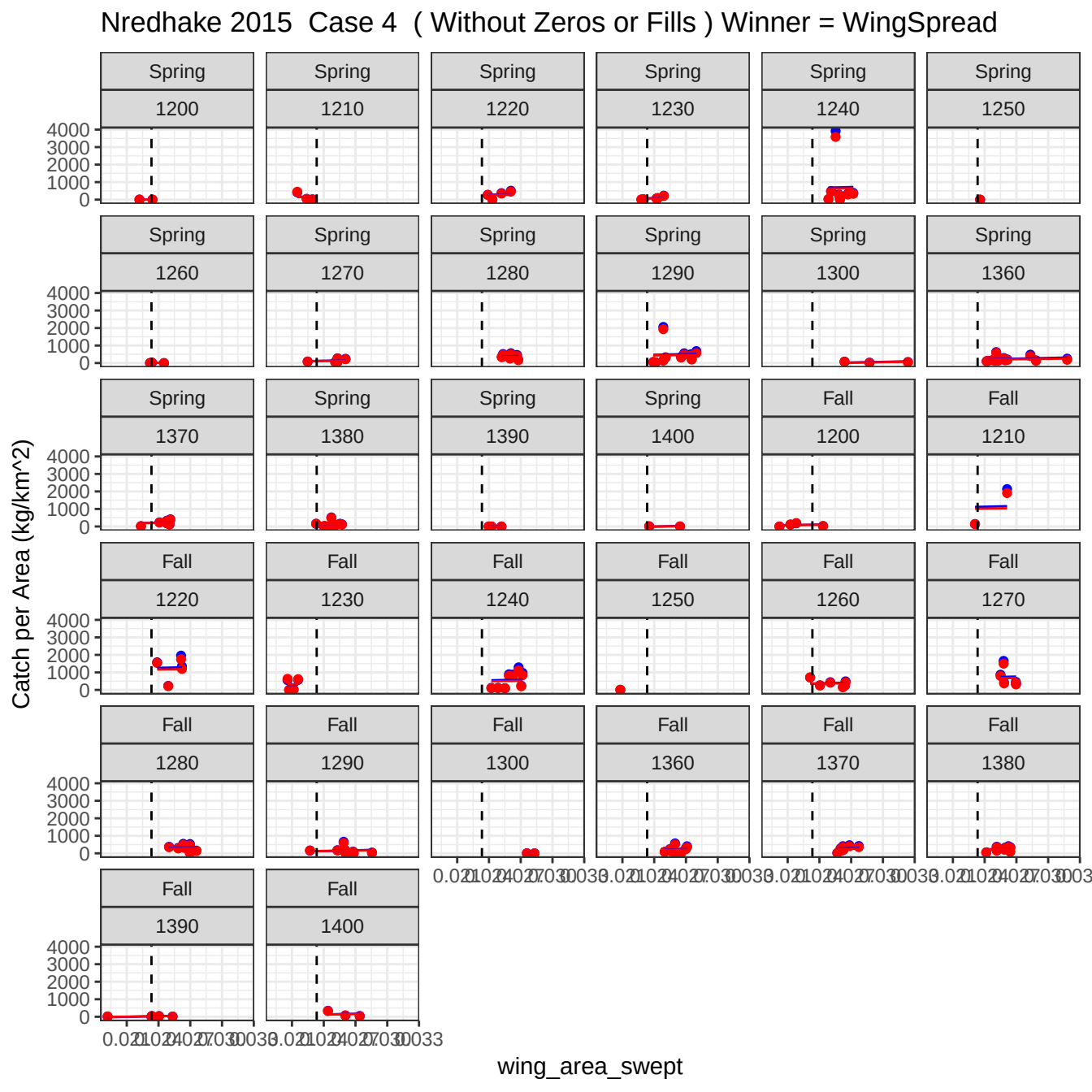

Nredhake 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
0
400
800
1200
0.022
0.024
0.026
0.028
0.030
Catch per Area (kg/km^2)
wing_area_swept

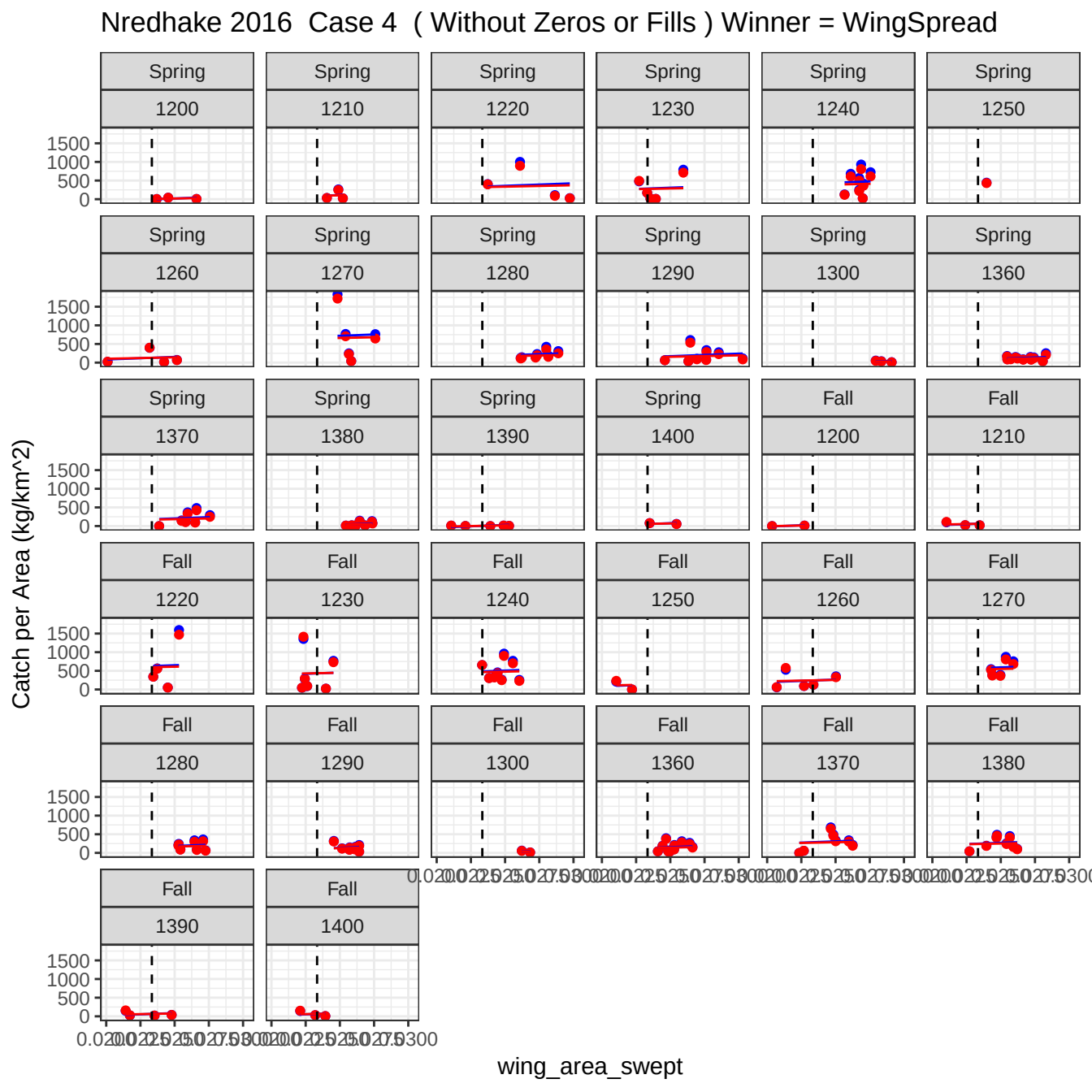

Nredhake 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
1000
2000
wing_area_swept

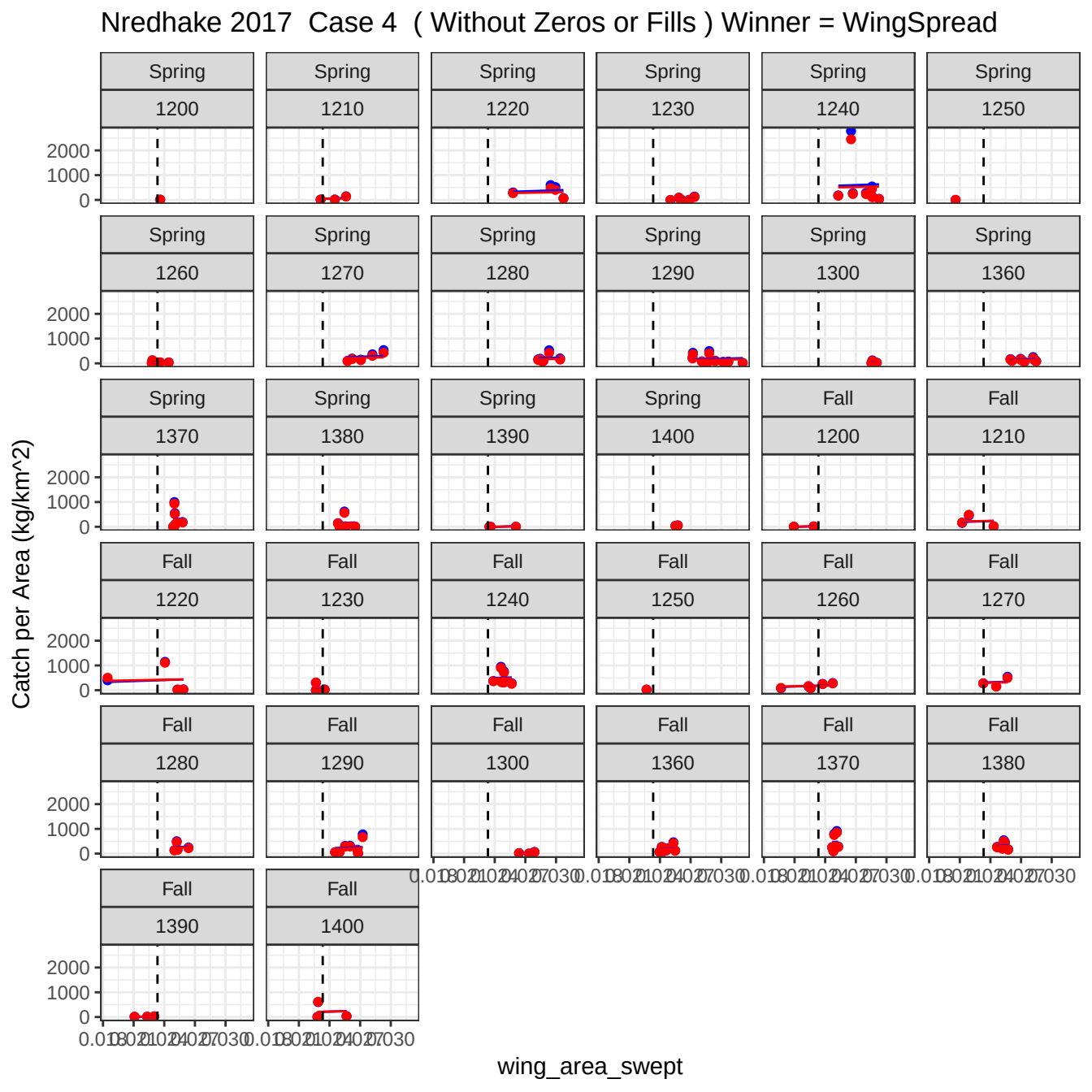

Nredhake 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
0
300
600
900
1200
0.020 0.024 0.028
Catch per Area (kg/km^2)
wing_area_swept


Nredhake 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
0
1000
2000
3000
Catch per Area (kg/km^2)
wing_area_swept

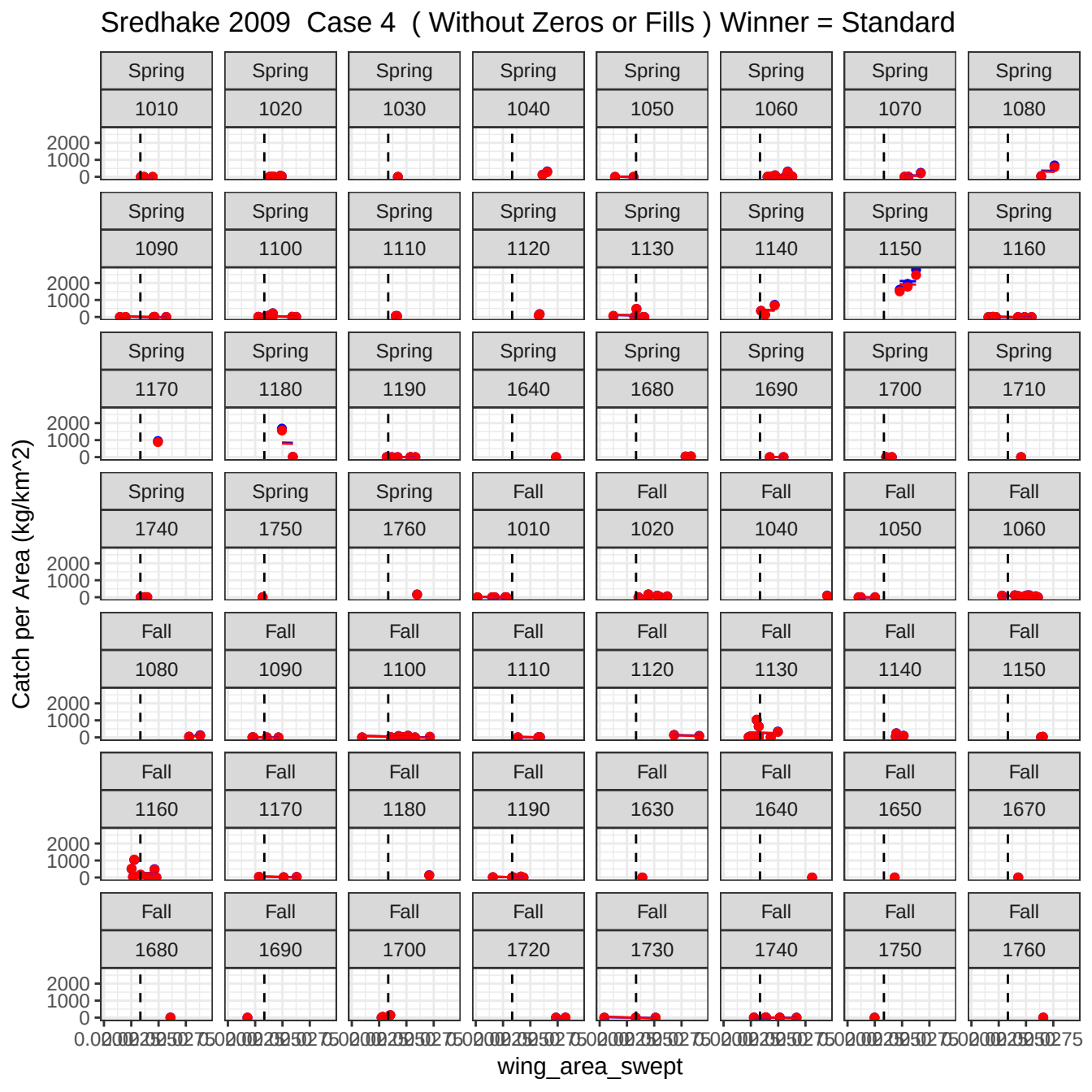

Nredhake 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept


Nredhake 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
1000
2000
3000
4000
wing_area_swept


Nredhake 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
1500
1000
500
0
Catch per Area (kg/km^2)
wing_area_swept



Nredhake 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
1000
2000
wing_area_swept


Sredhake 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1640
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1020
Fall 1040
Fall 1050
Fall 1060
Fall 1080
Fall 1090
Fall 1100
Fall 1110
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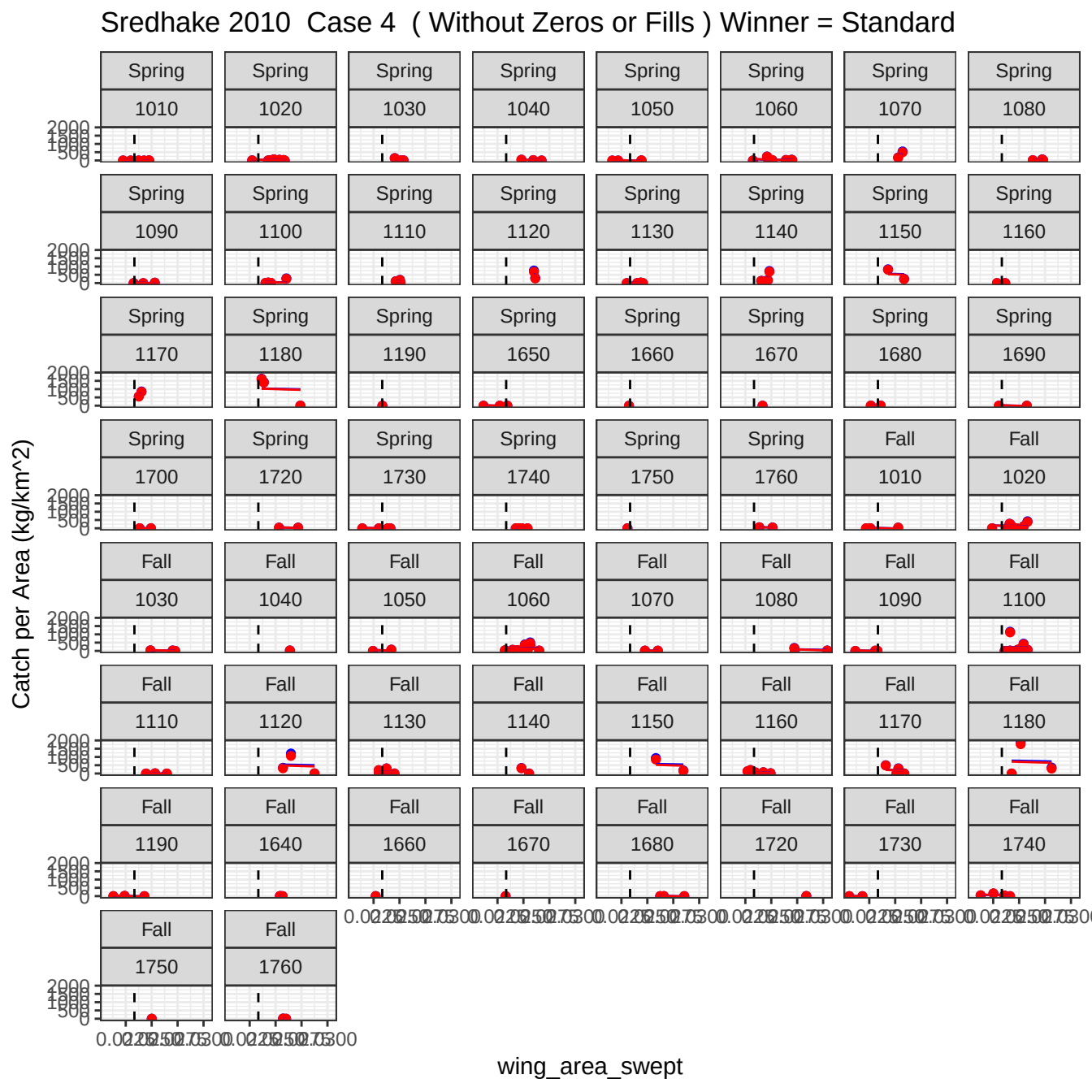
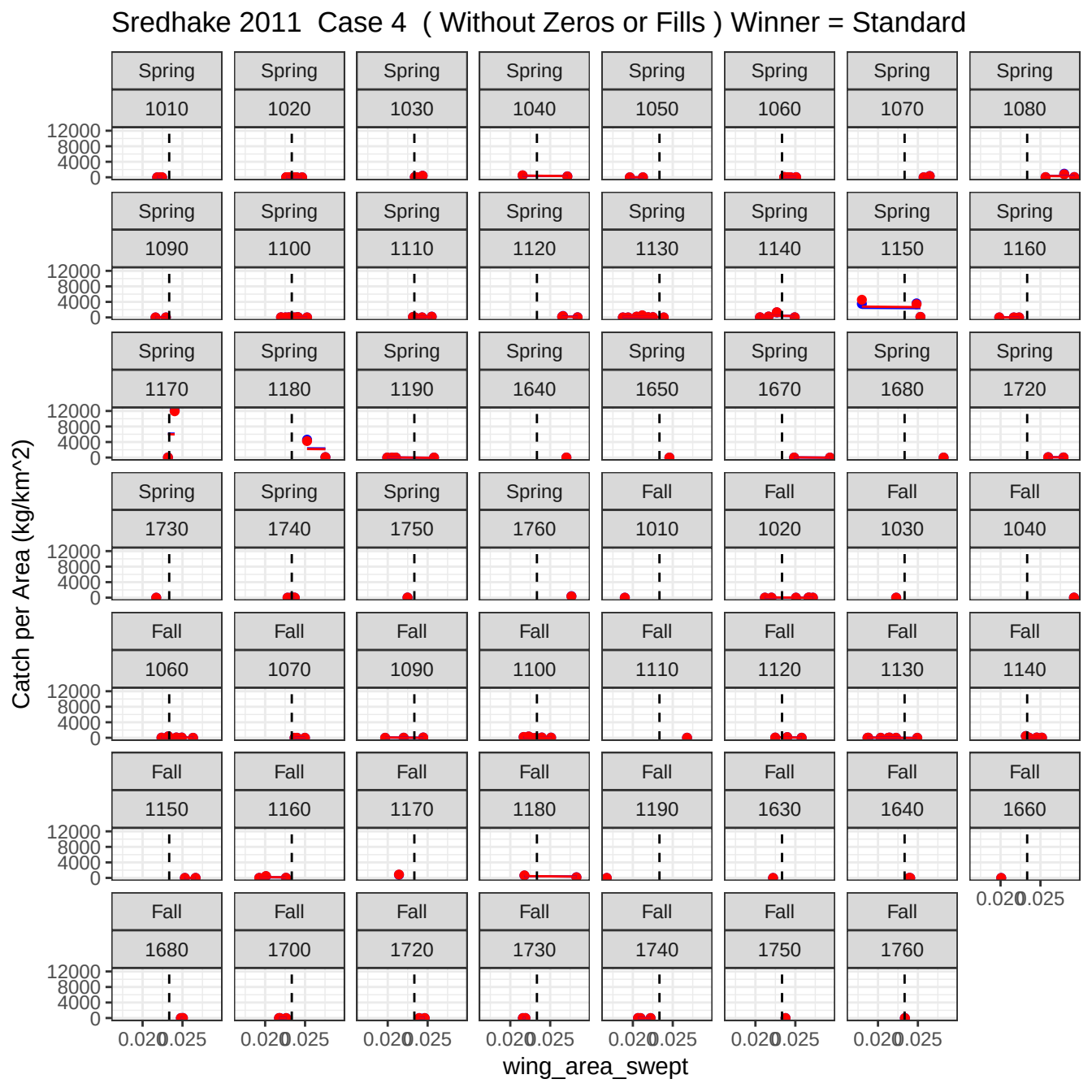
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1630
Fall 1640
Fall 1650
Fall 1670
Fall 1680
Fall 1690
Fall 1700
Fall 1720
Fall 1730
Fall 1740
Fall 1750
Fall 1760
2000
1000
0
Catch per Area (kg/km^2)
wing_area_swept


Sredhake 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1650
Spring 1660
Spring 1670
Spring 1680
Spring 1690
Spring 1700
Spring 1720
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1020
Fall 1030
Fall 1040
Fall 1050
Fall 1060
Fall 1070
Fall 1080
Fall 1090
Fall 1100
Fall 1110
Fall 1120
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1640
Fall 1660
Fall 1670
Fall 1680
Fall 1720
Fall 1730
Fall 1740
Fall 1750
Fall 1760
Catch per Area (kg/km^2)
wing_area_swept


Sredhake 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
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Spring 1640
Spring 1650
Spring 1670
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Spring 1720
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Spring 1750
Spring 1760
Fall 1010
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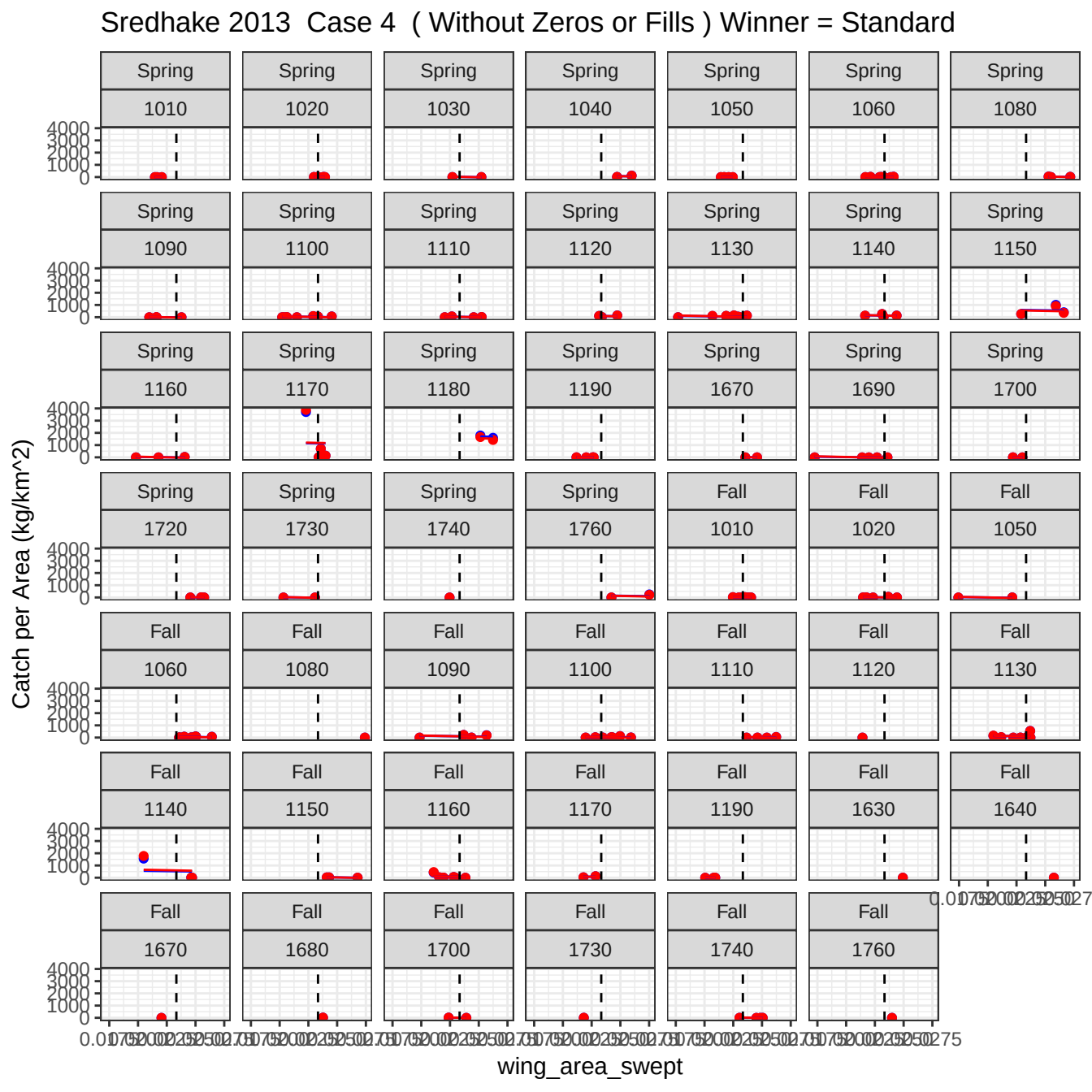
Fall 1100
Fall 1110
Fall 1120
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1630
Fall 1640
Fall 1660
Fall 1680
Fall 1700
Fall 1720
Fall 1730
Fall 1740
Fall 1750
Fall 1760
12000
8000
4000
0
0.020
0.025
Catch per Area (kg/km^2)
wing_area_swept

Sredhake 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1640
Spring 1680
Spring 1700
Spring 1720
Spring 1730
Spring 1740
Spring 1760
Fall 1010
Fall 1020
Fall 1030
Fall 1040
Fall 1050
Fall 1060
Fall 1080
Fall 1090
Fall 1100
Fall 1110
Fall 1120
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1630
Fall 1640
Fall 1670
Fall 1680
Fall 1690
Fall 1720
Fall 1740
Fall 1760
2000
1000
0
Catch per Area (kg/km^2)
wing_area_swept


Sredhake 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1670
Spring 1690
Spring 1700
Spring 1720
Spring 1730
Spring 1740
Spring 1760
Fall 1010
Fall 1020
Fall 1050
Fall 1060
Fall 1080
Fall 1090
Fall 1100
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Fall 1140
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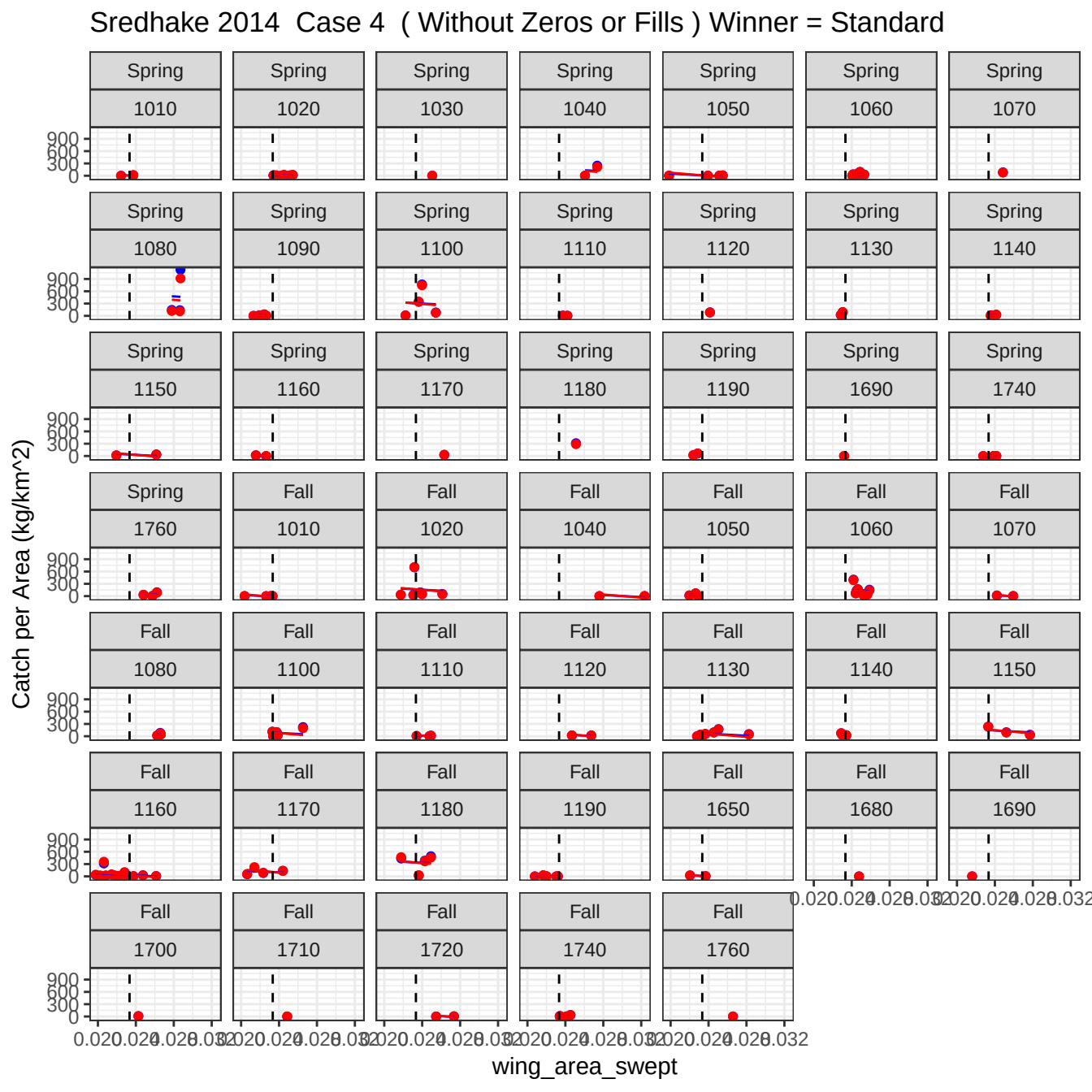
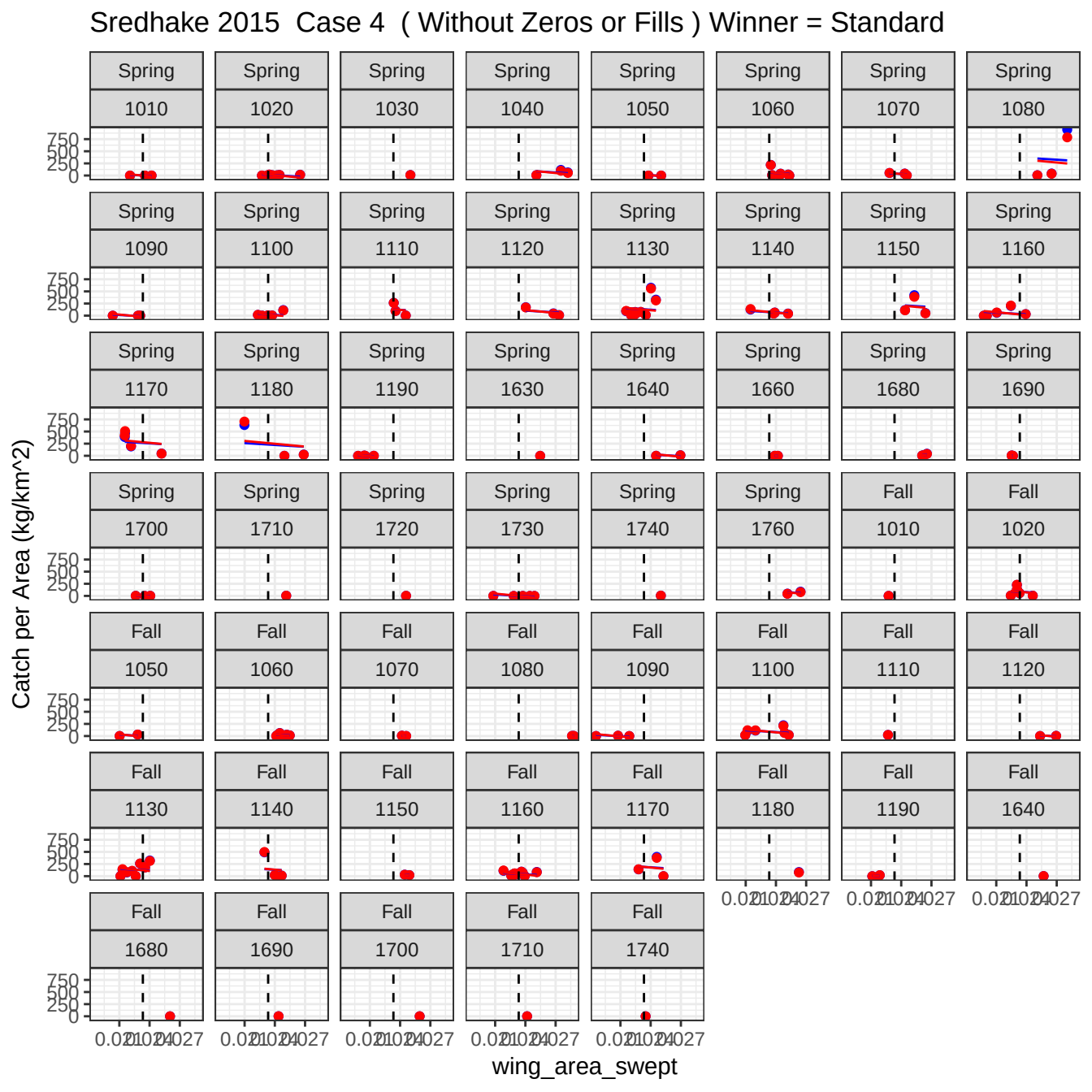
Fall 1170
Fall 1190
Fall 1630
Fall 1640
Fall 1670
Fall 1680
Fall 1700
Fall 1730
Fall 1740
Fall 1760
Catch per Area (kg/km^2)
wing_area_swept


Sredhake 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1690
Spring 1740
Spring 1760
Fall 1010
Fall 1020
Fall 1040
Fall 1050
Fall 1060
Fall 1070
Fall 1080
Fall 1100
Fall 1110
Fall 1120
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1650
Fall 1680
Fall 1690
Fall 1700
Fall 1710
Fall 1720
Fall 1740
Fall 1760
900
600
300
0
0.020
0.024
0.028
0.032
Catch per Area (kg/km^2)
wing_area_swept


Sredhake 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1630
Spring 1640
Spring 1660
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1720
Spring 1730
Spring 1740
Spring 1760
Fall 1010
Fall 1020
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Fall 1070
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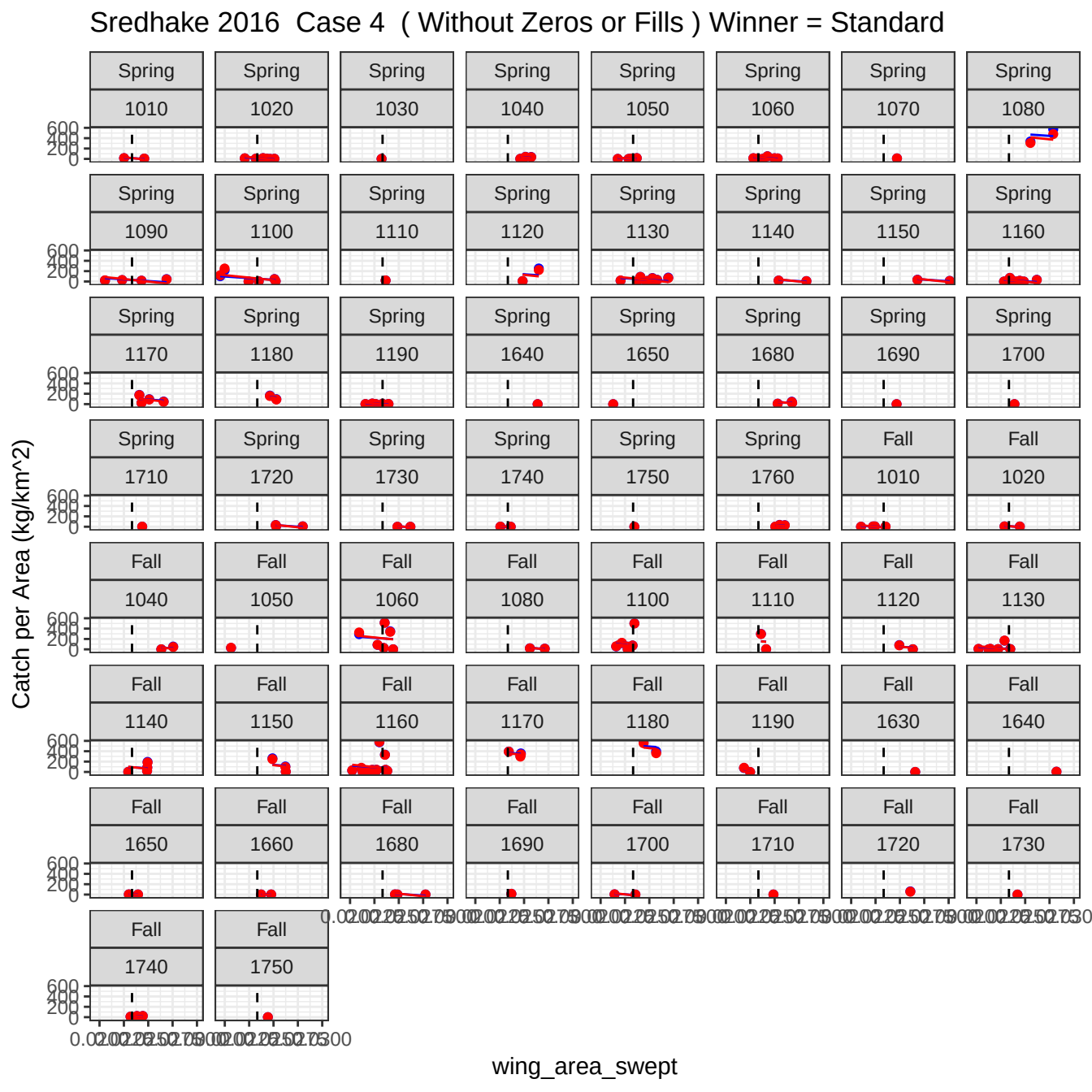
Fall 1110
Fall 1120
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1640
Fall 1680
Fall 1690
Fall 1700
Fall 1710
Fall 1740
Catch per Area (kg/km^2)
wing_area_swept


Sredhake 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
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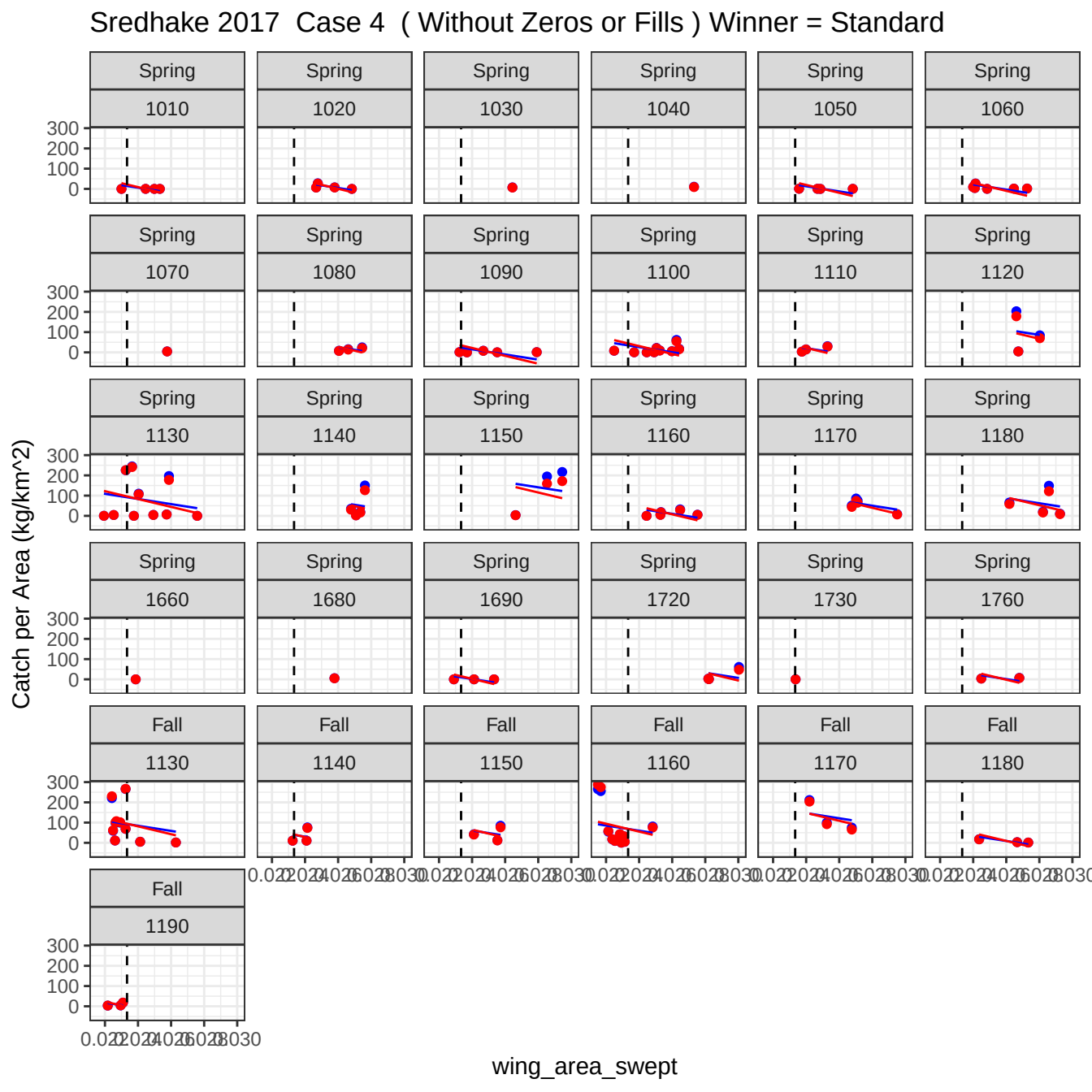
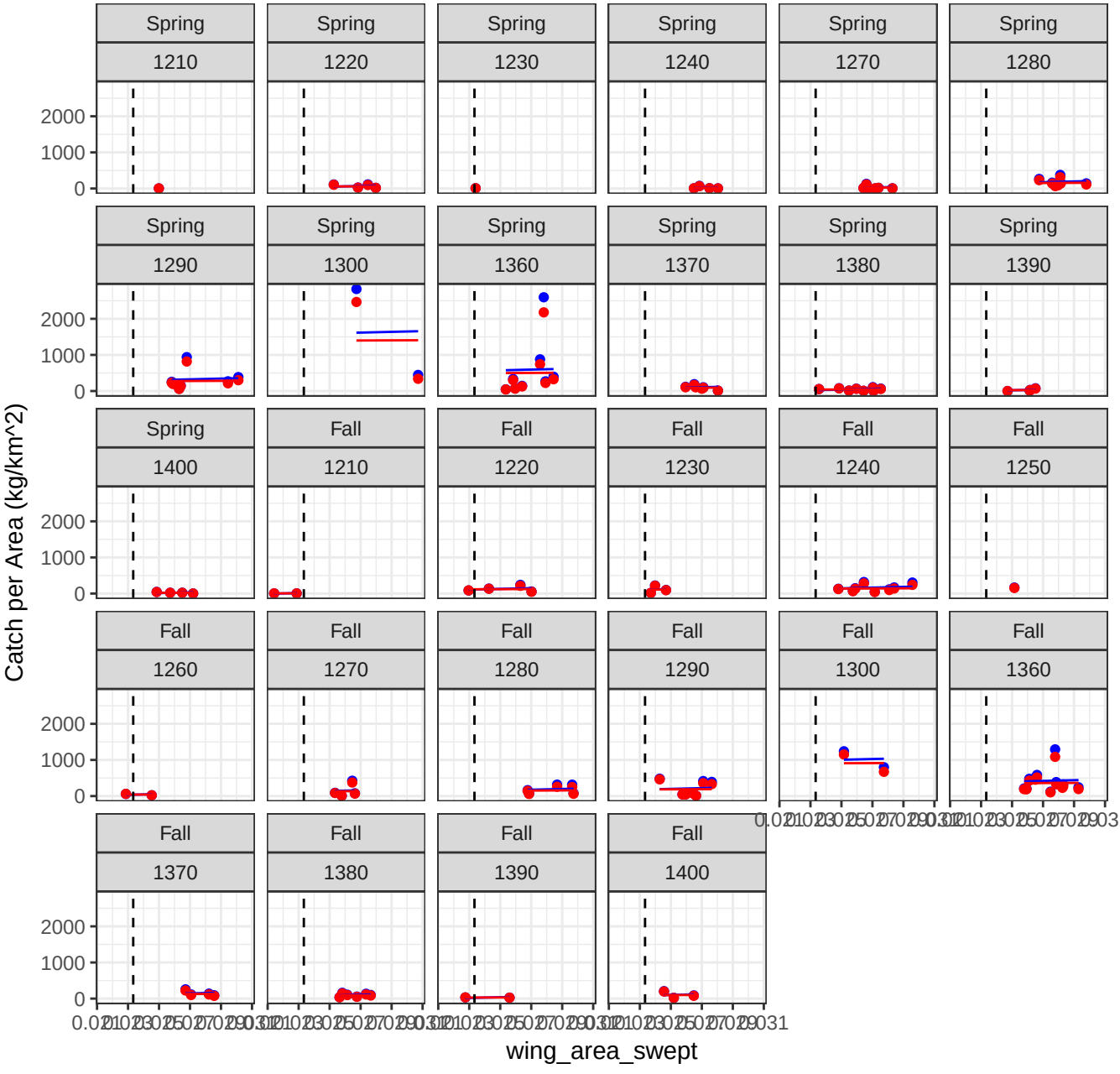
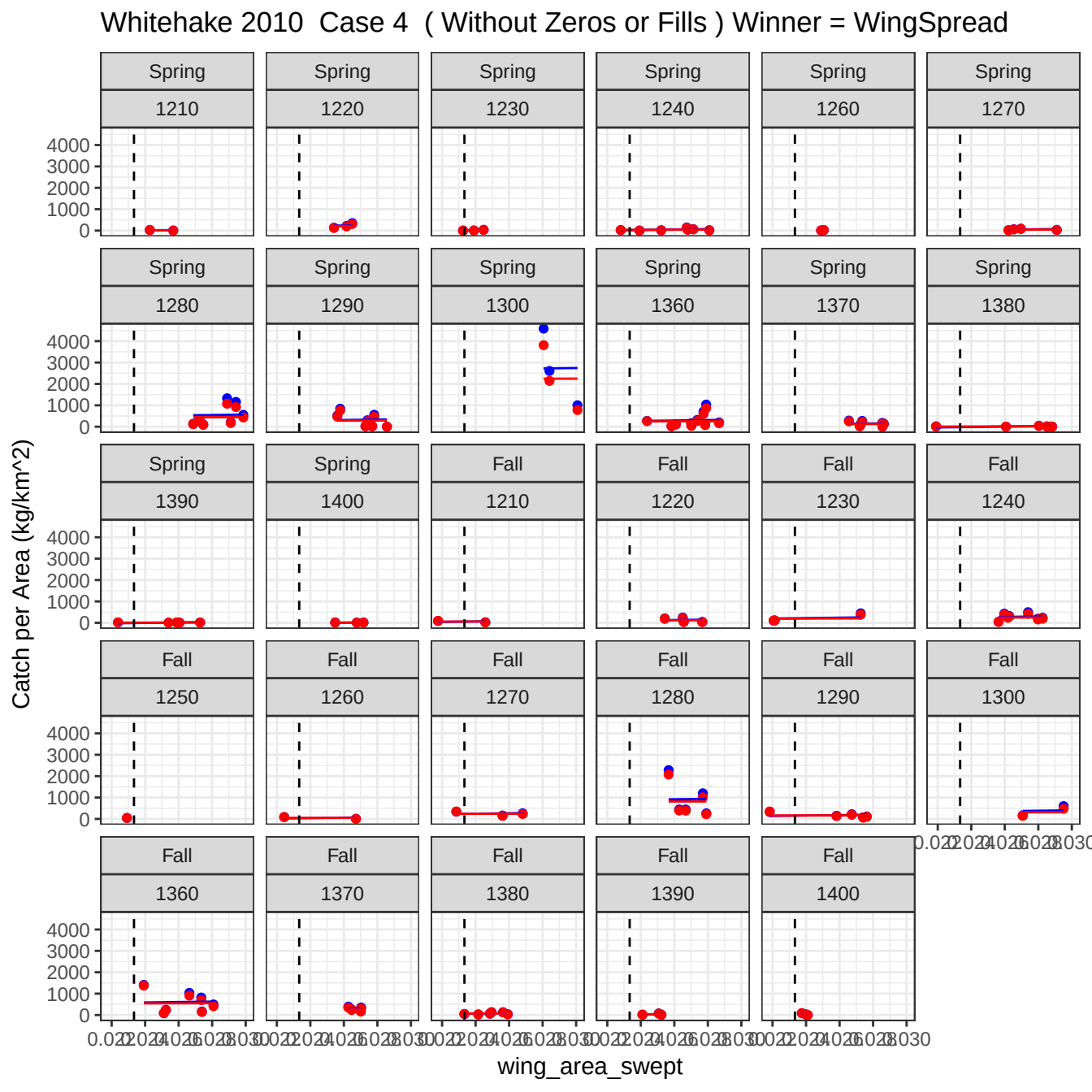
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1640
Spring 1650
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1720
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1020
Fall 1040
Fall 1050
Fall 1060
Fall 1080
Fall 1100
Fall 1110
Fall 1120
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Fall 1630
Fall 1640
Fall 1650
Fall 1660
Fall 1680
Fall 1690
Fall 1700
Fall 1710
Fall 1720
Fall 1730
Fall 1740
Fall 1750
0
200
400
600
Catch per Area (kg/km^2)
wing_area_swept


Sredhake 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1660
Spring 1680
Spring 1690
Spring 1720
Spring 1730
Spring 1760
Fall 1130
Fall 1140
Fall 1150
Fall 1160
Fall 1170
Fall 1180
Fall 1190
Catch per Area (kg/km^2)
wing_area_swept


Whitehake 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
1000
2000
wing_area_swept


Whitehake 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
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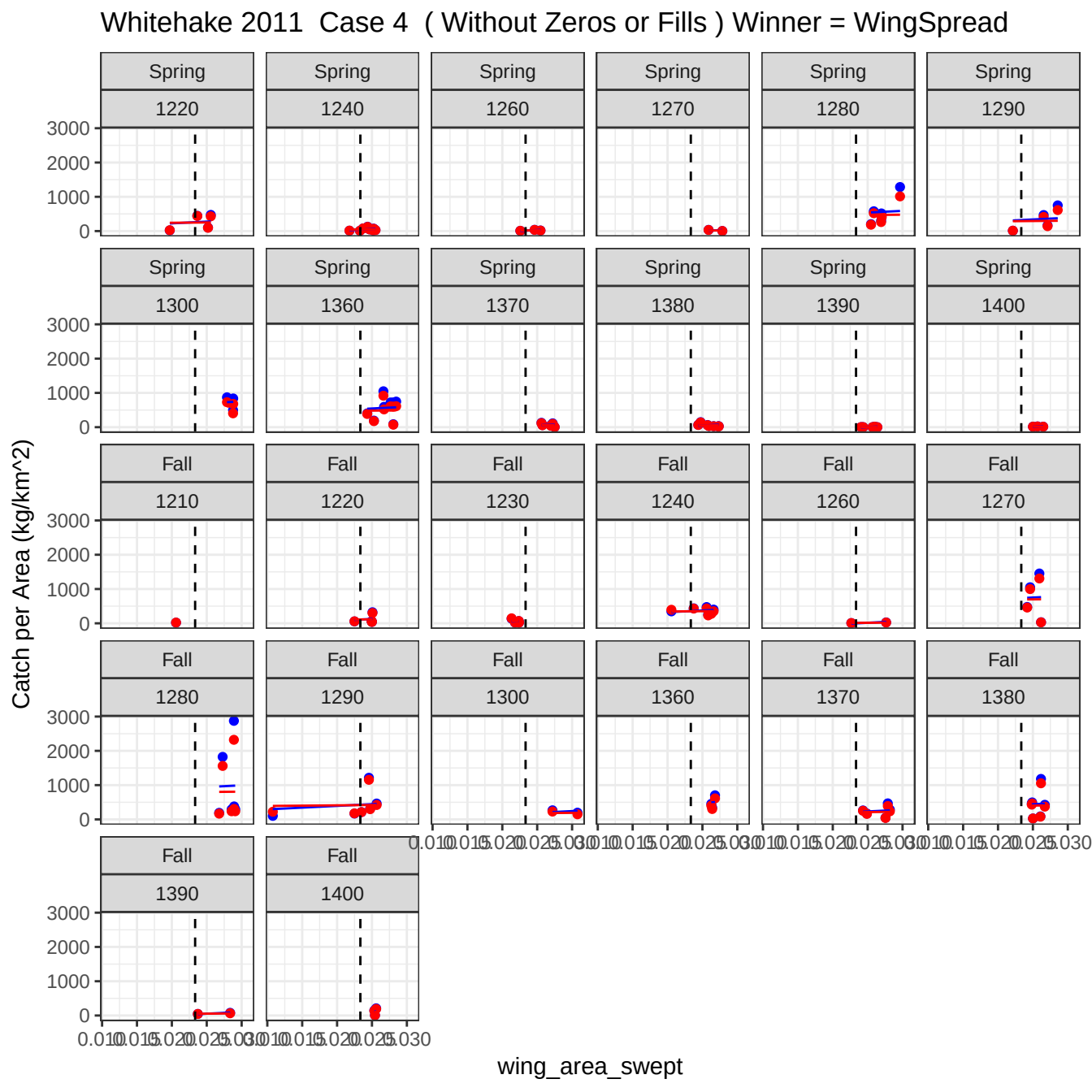
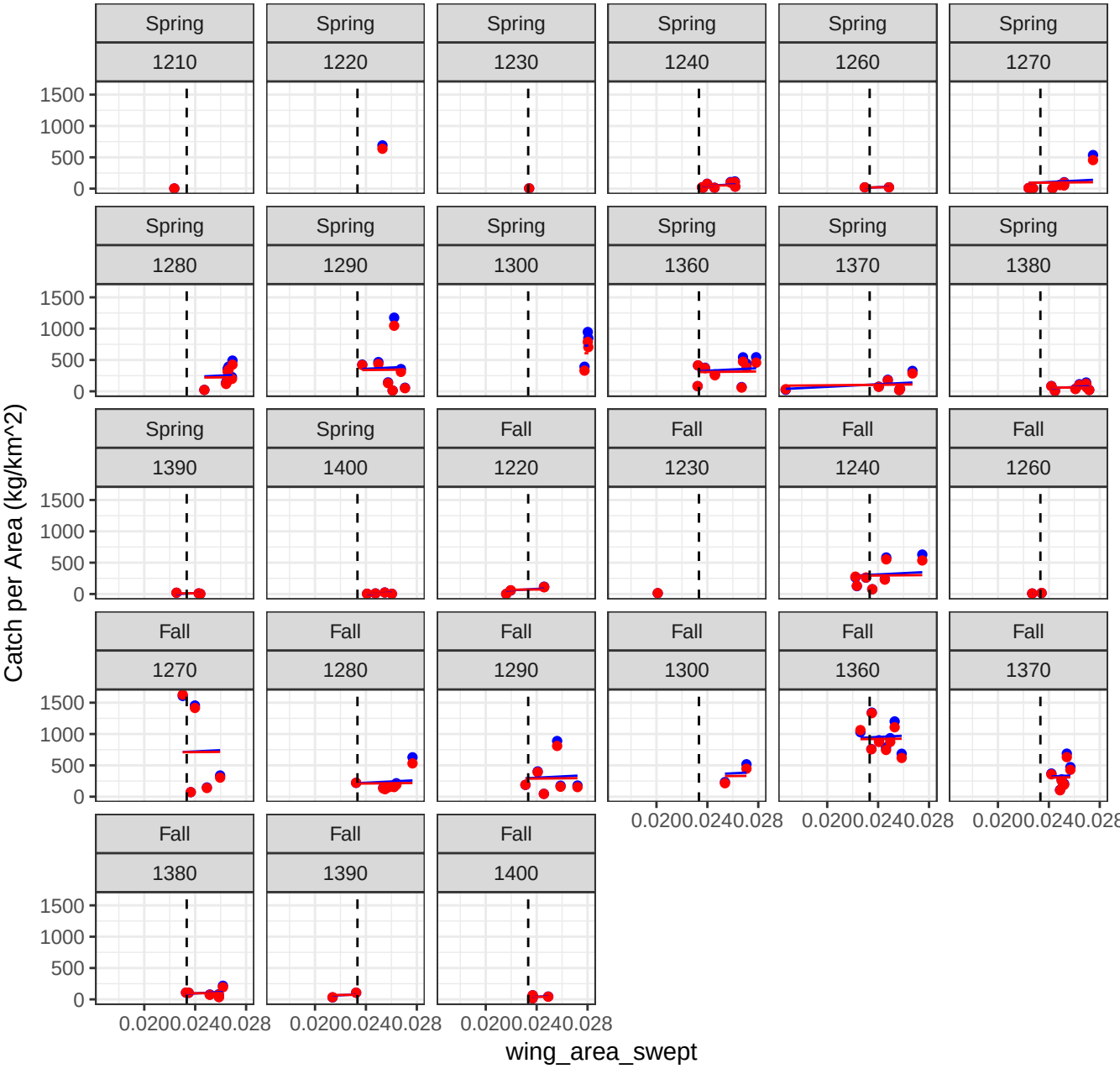
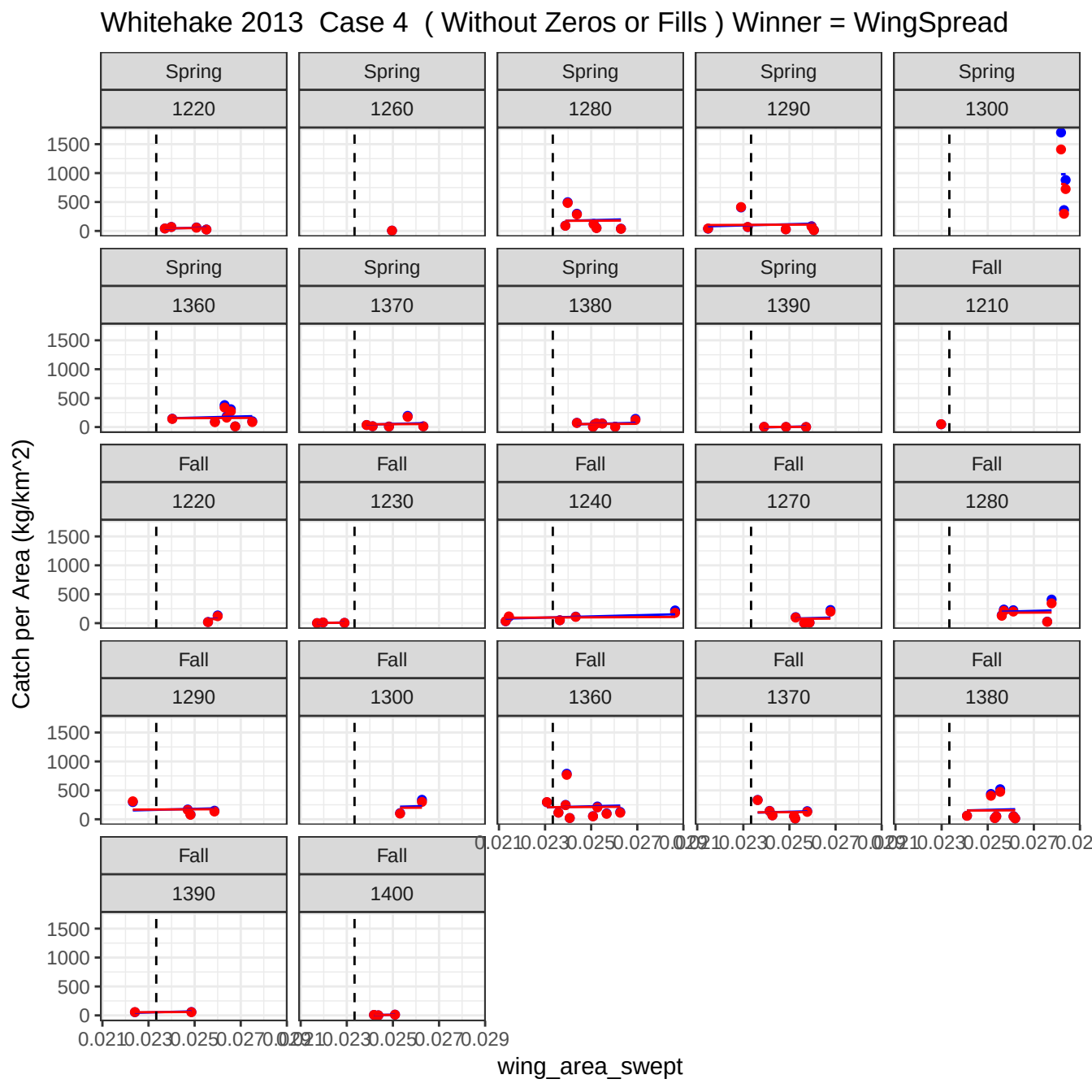
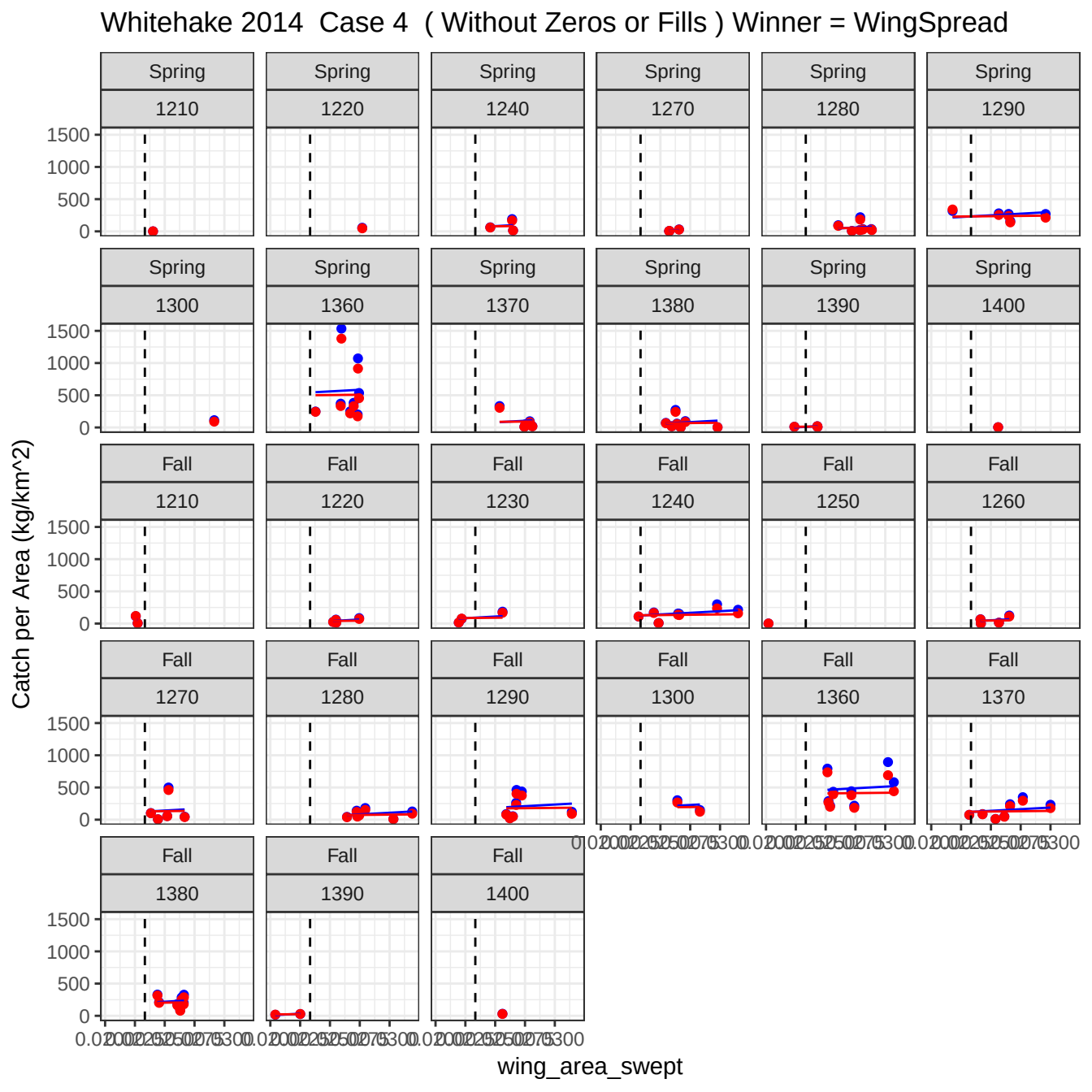
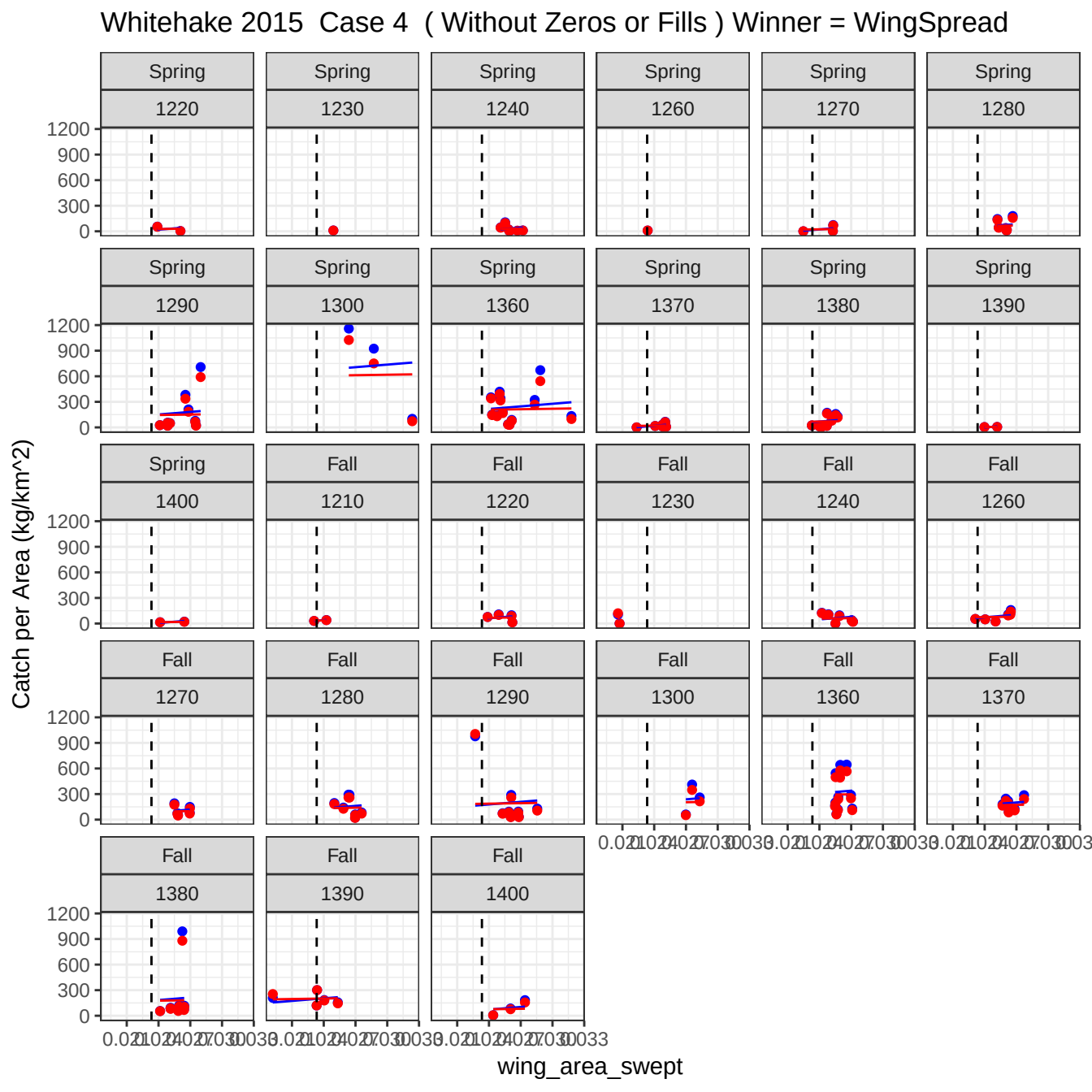
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
1000
2000
3000
4000
wing_area_swept
0.022
0.024
0.026
0.028
0.030

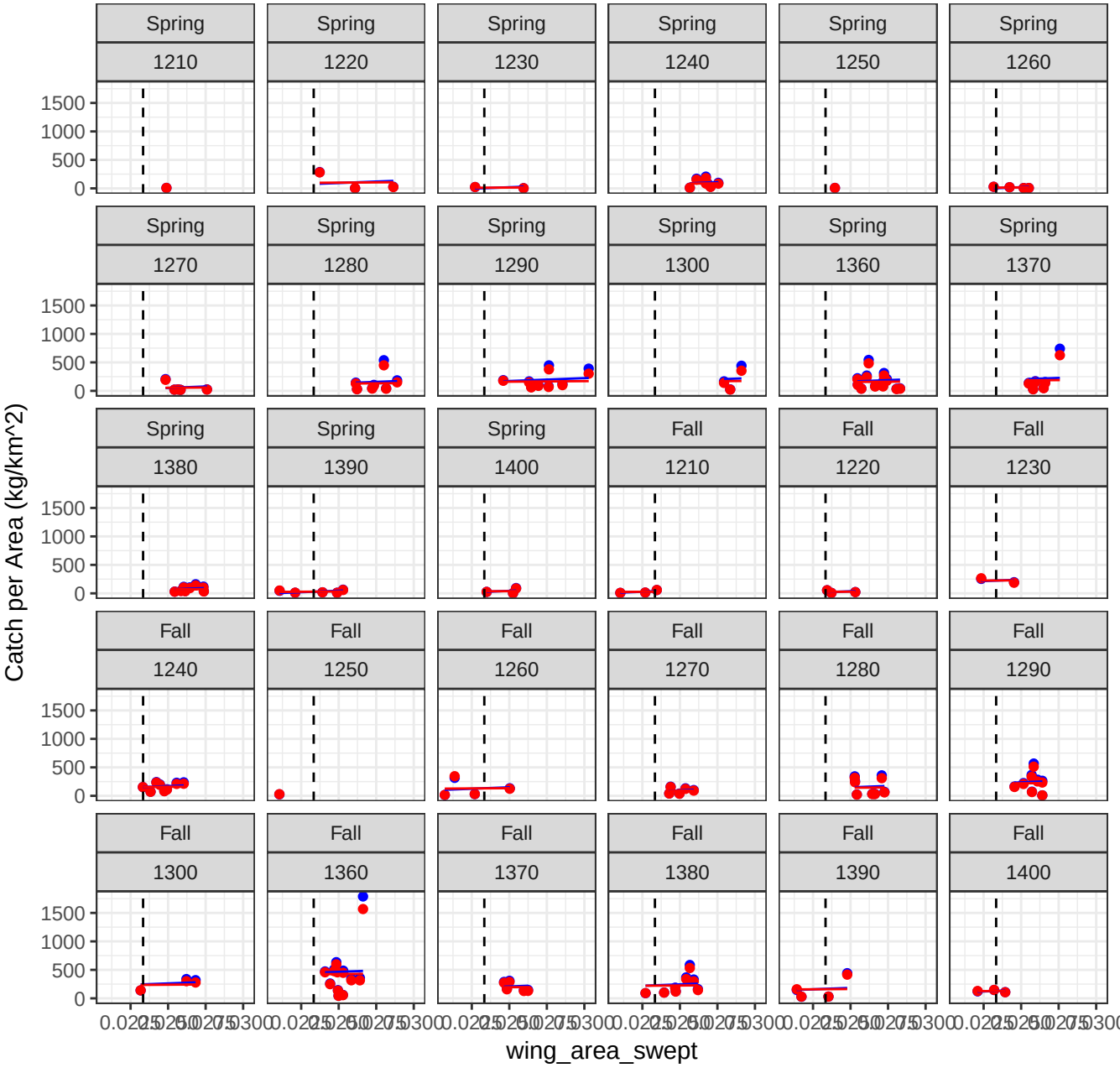

Whitehake 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept

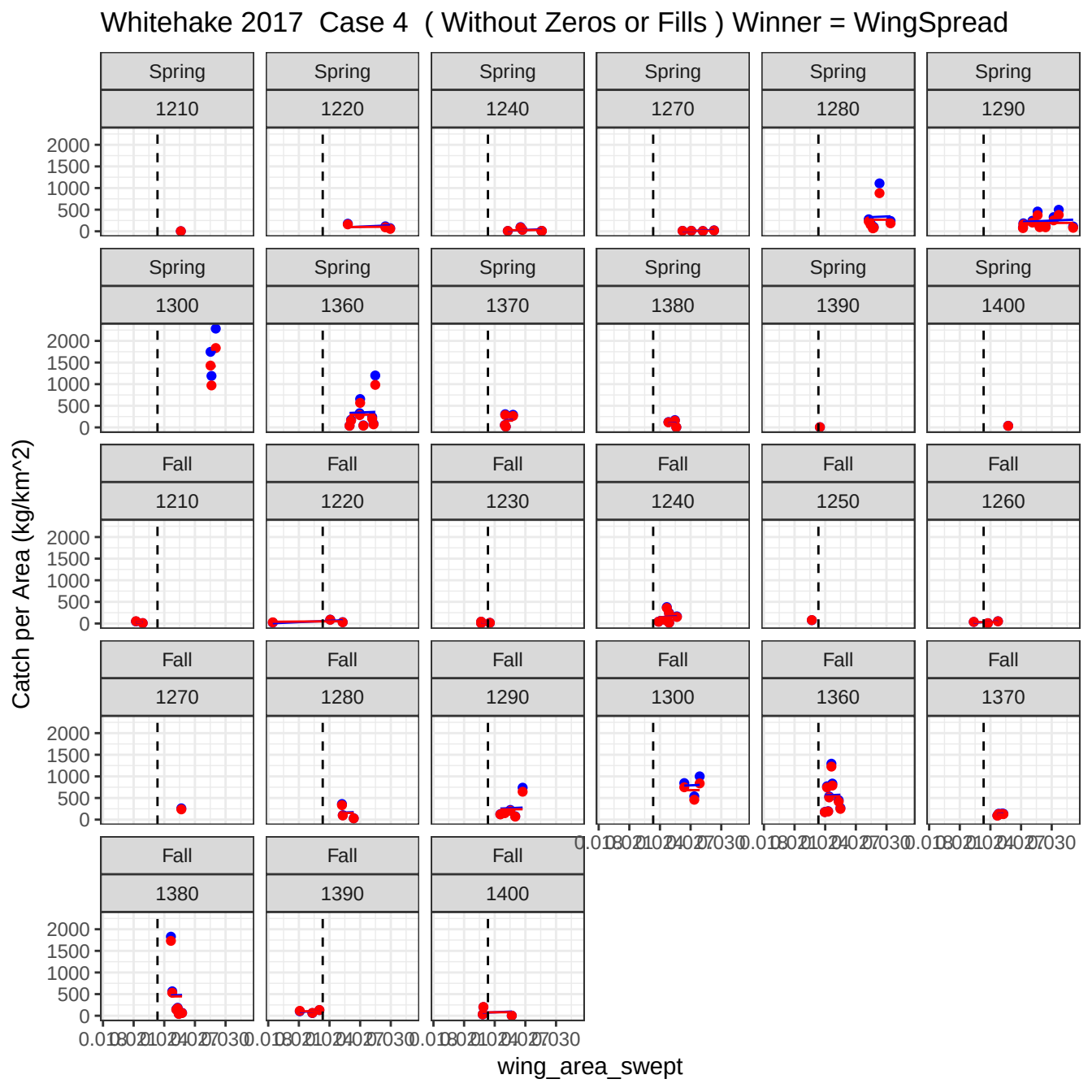

Whitehake 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
500
1000
1500
0.020
0.024
0.028
wing_area_swept

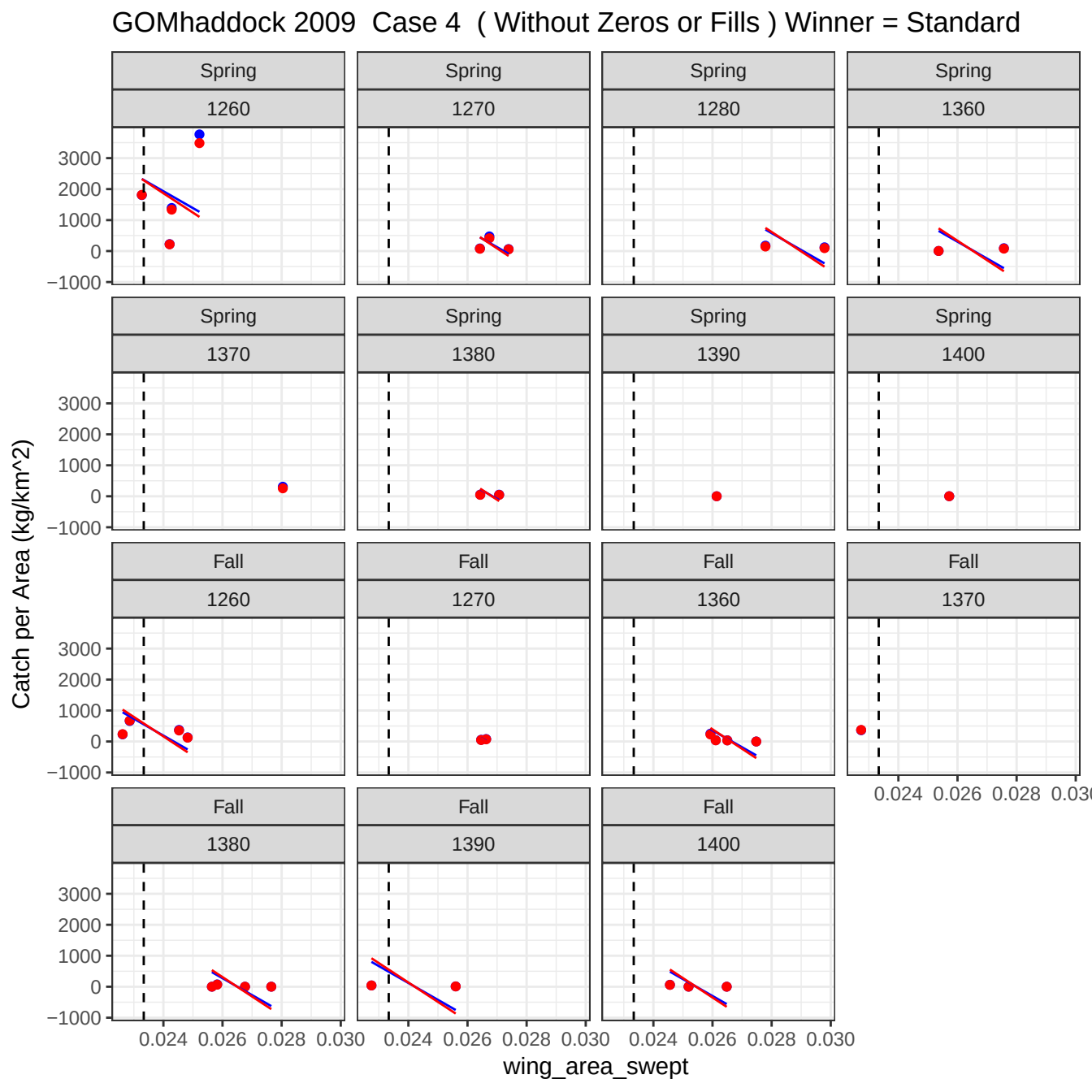

Whitehake 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1260
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
0.021
0.023
0.025
0.027
0.029

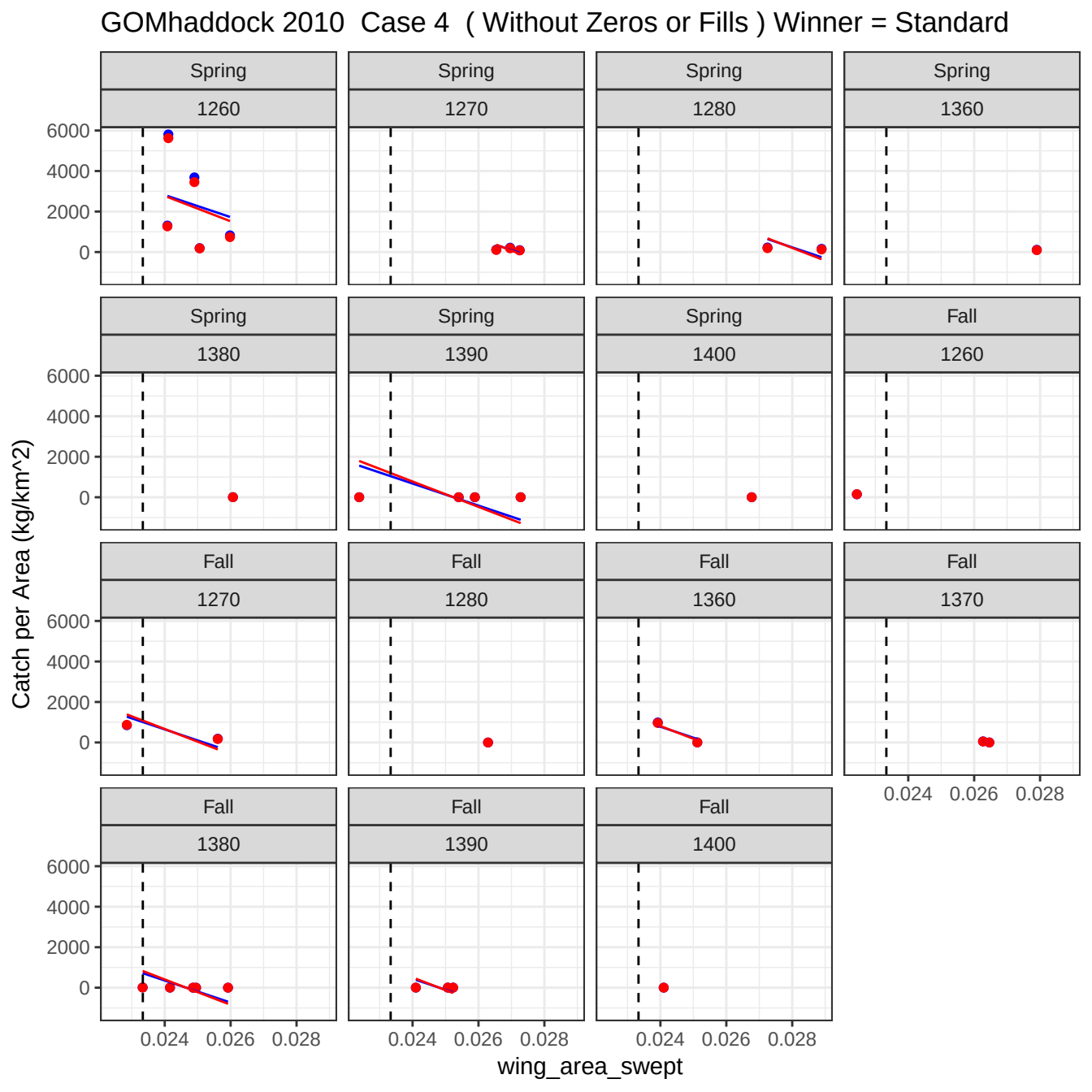

Whitehake 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1210
Spring 1220
Spring 1240
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept

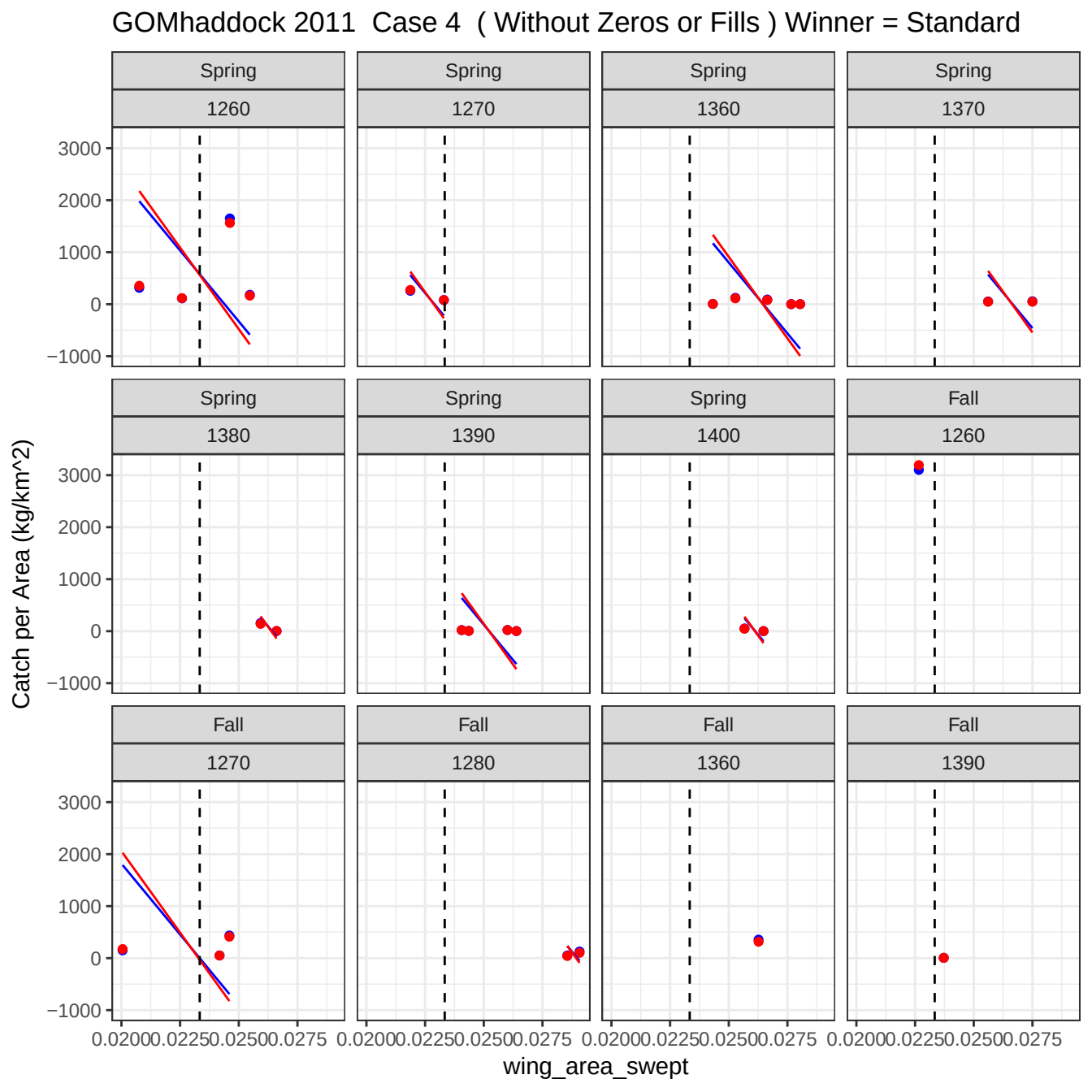

Whitehake 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
300
600
900
1200
wing_area_swept

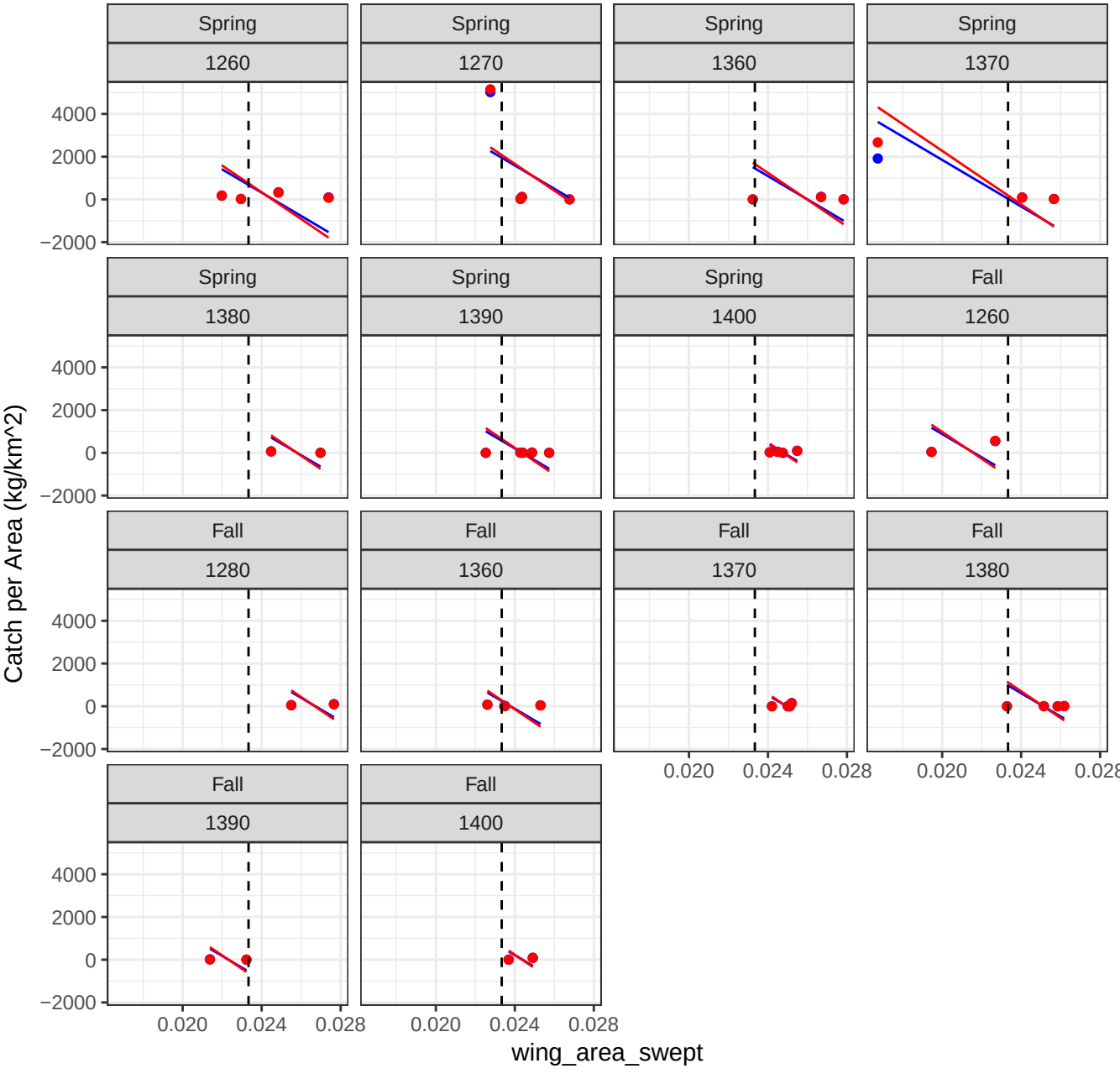

Whitehake 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
0
500
1000
1500
Catch per Area (kg/km^2)
wing_area_swept

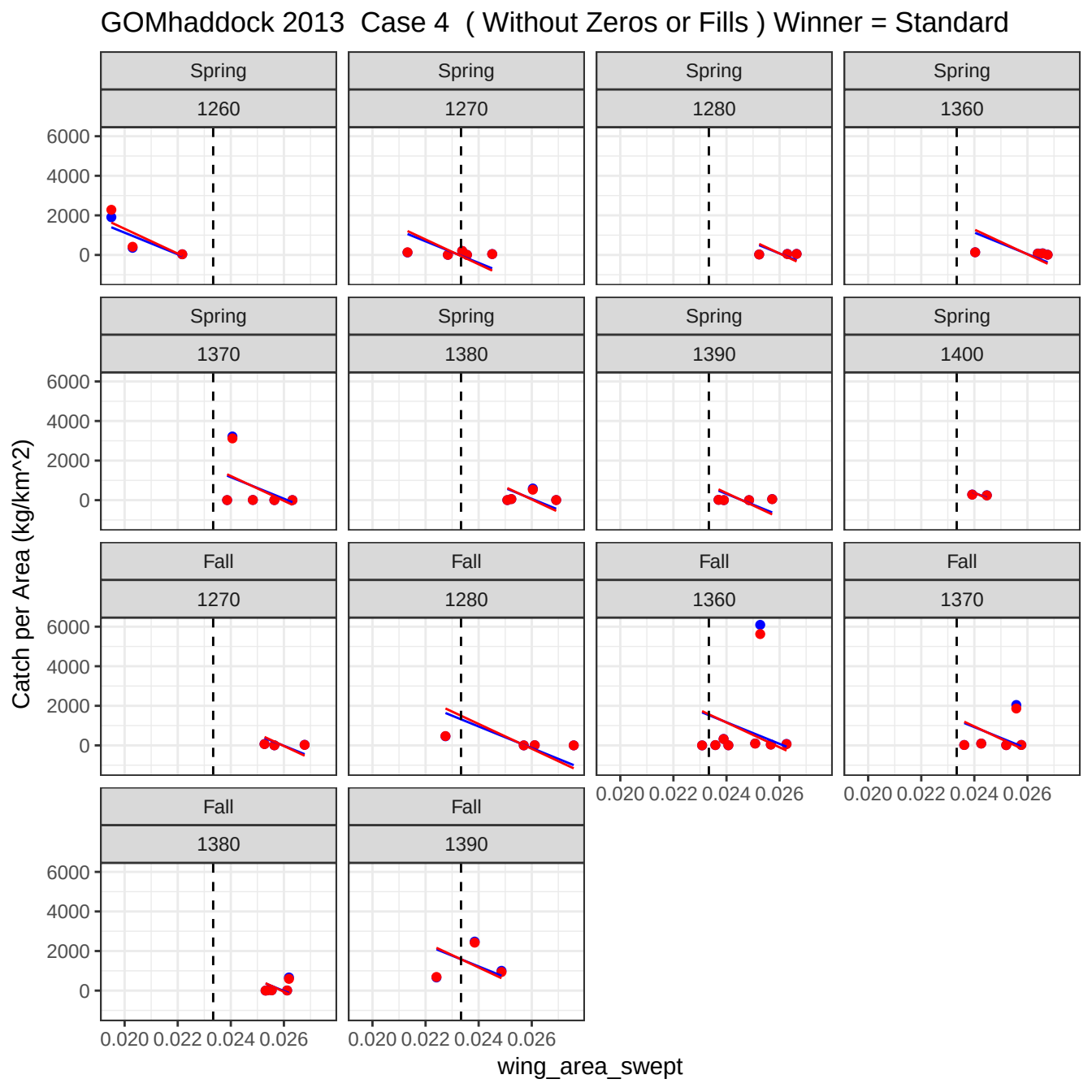

Whitehake 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1210
Spring 1220
Spring 1240
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
500
1000
1500
2000
wing_area_swept

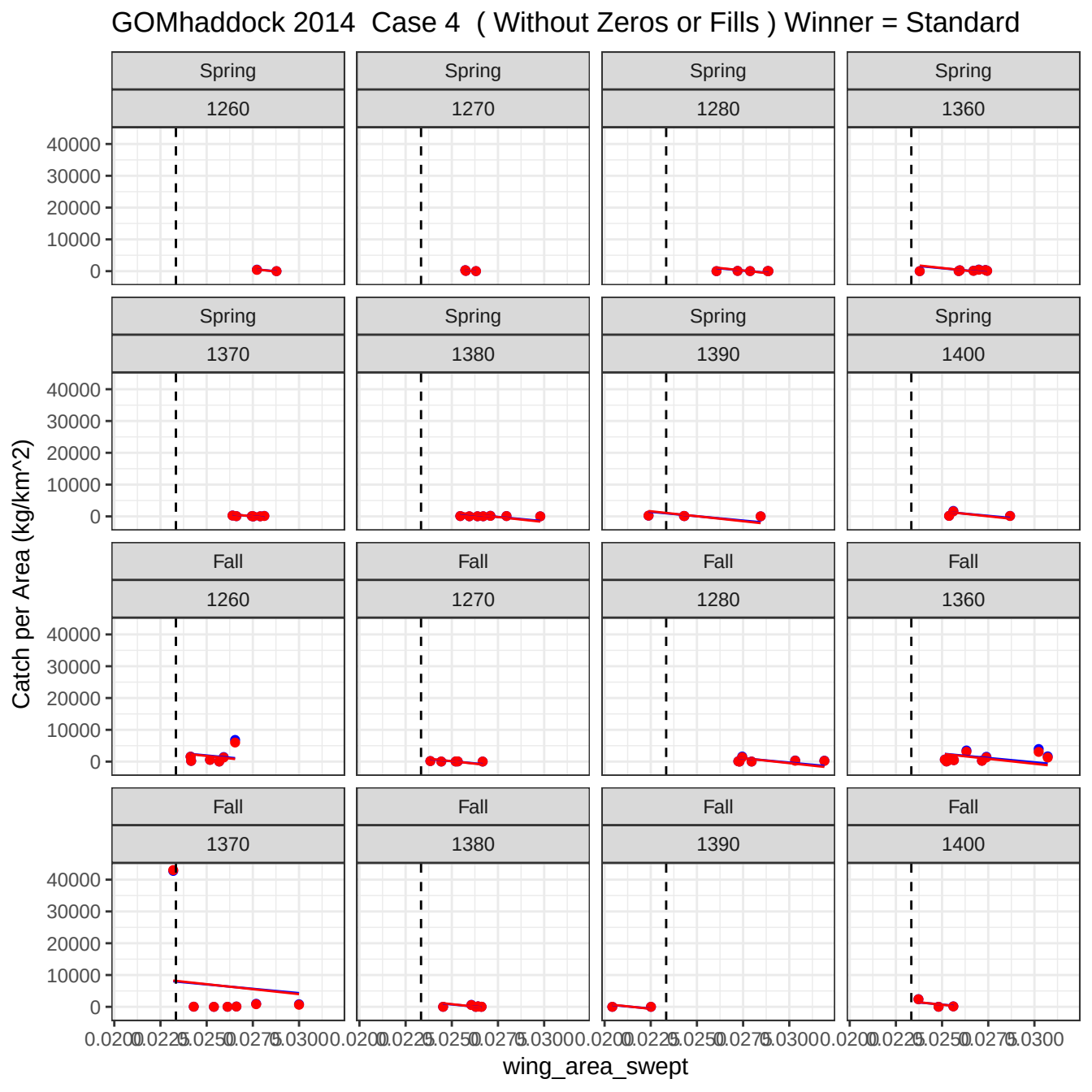

GOMhaddock 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1280
Spring
1360
Spring
1370
Spring
1380
Spring
1390
Spring
1400
Fall
1260
Fall
1270
Fall
1360
Fall
1370
Fall
1380
Fall
1390
Fall
1400
Catch per Area (kg/km^2)
3000
2000
1000
0
−1000
0.024
0.026
0.028
0.030
wing_area_swept

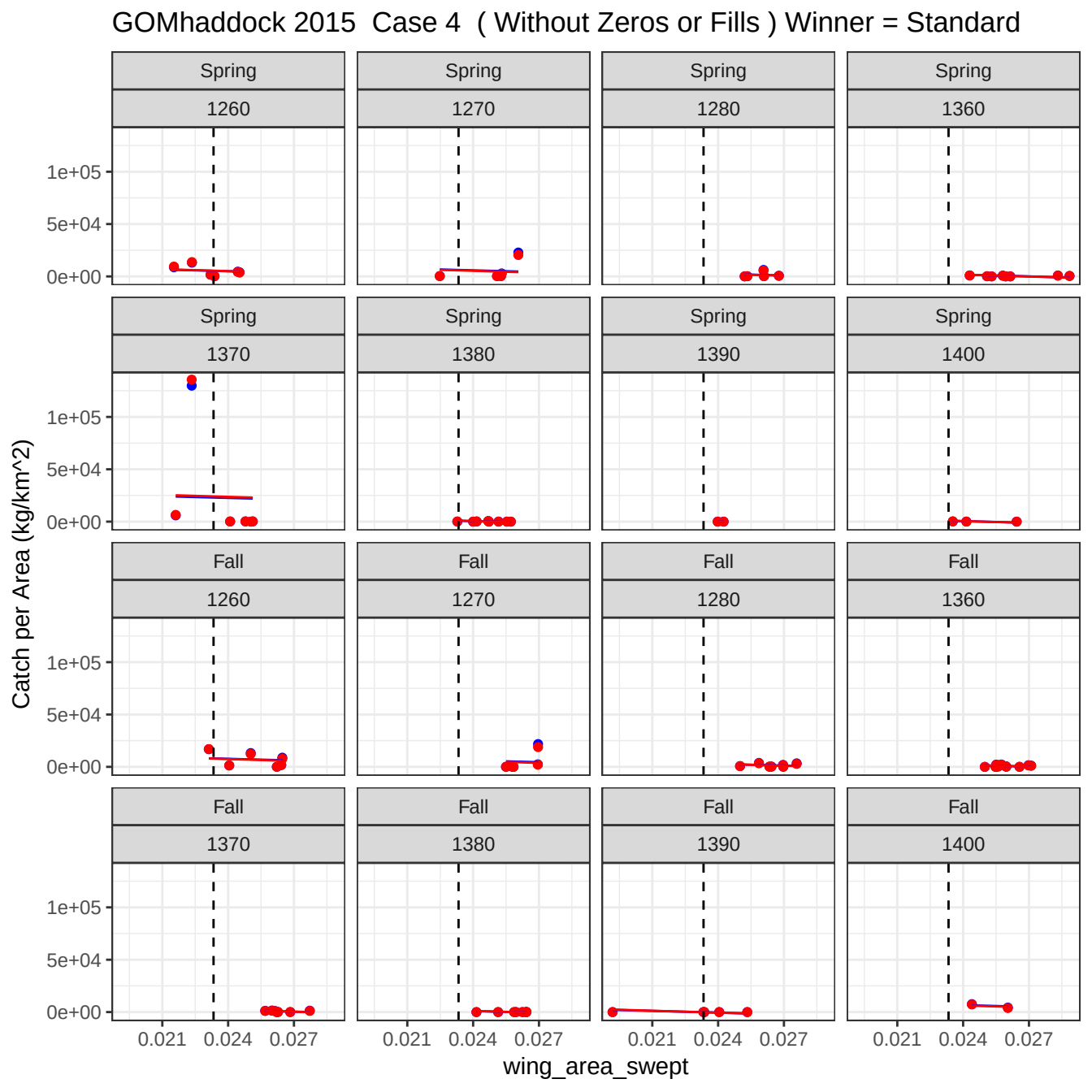

GOMhaddock 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1280
Spring
1360
Spring
1380
Spring
1390
Spring
1400
Fall
1260
Fall
1270
Fall
1280
Fall
1360
Fall
1370
Fall
1380
Fall
1390
Fall
1400
Catch per Area (kg/km^2)
0
2000
4000
6000
0.024
0.026
0.028
wing_area_swept

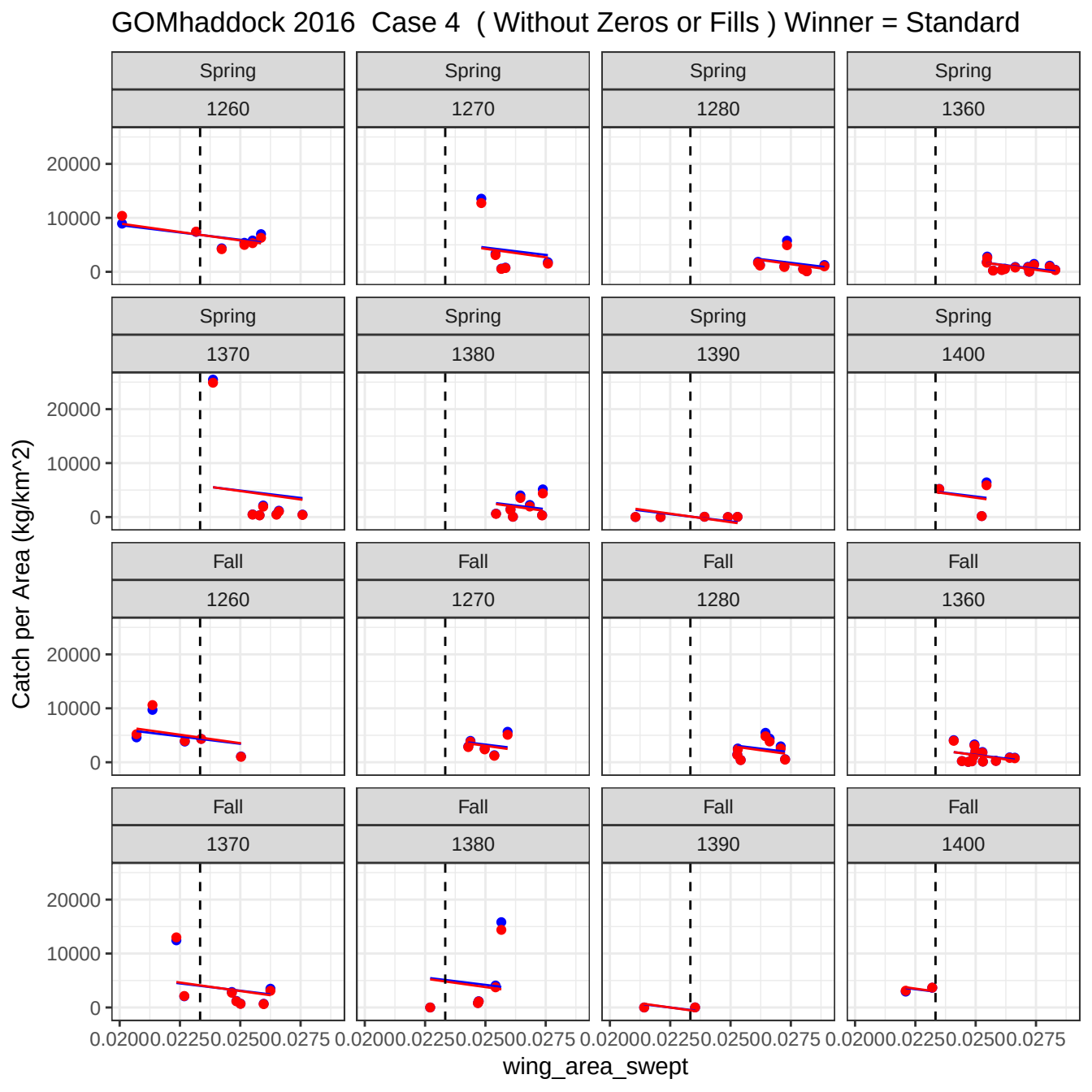

GOMhaddock 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1360
Spring
1370
Spring
1380
Spring
1390
Spring
1400
Fall
1260
Fall
1270
Fall
1280
Fall
1360
Fall
1390
3000
2000
1000
0
−1000
Catch per Area (kg/km^2)
0.02000.02250.02500.0275
wing_area_swept

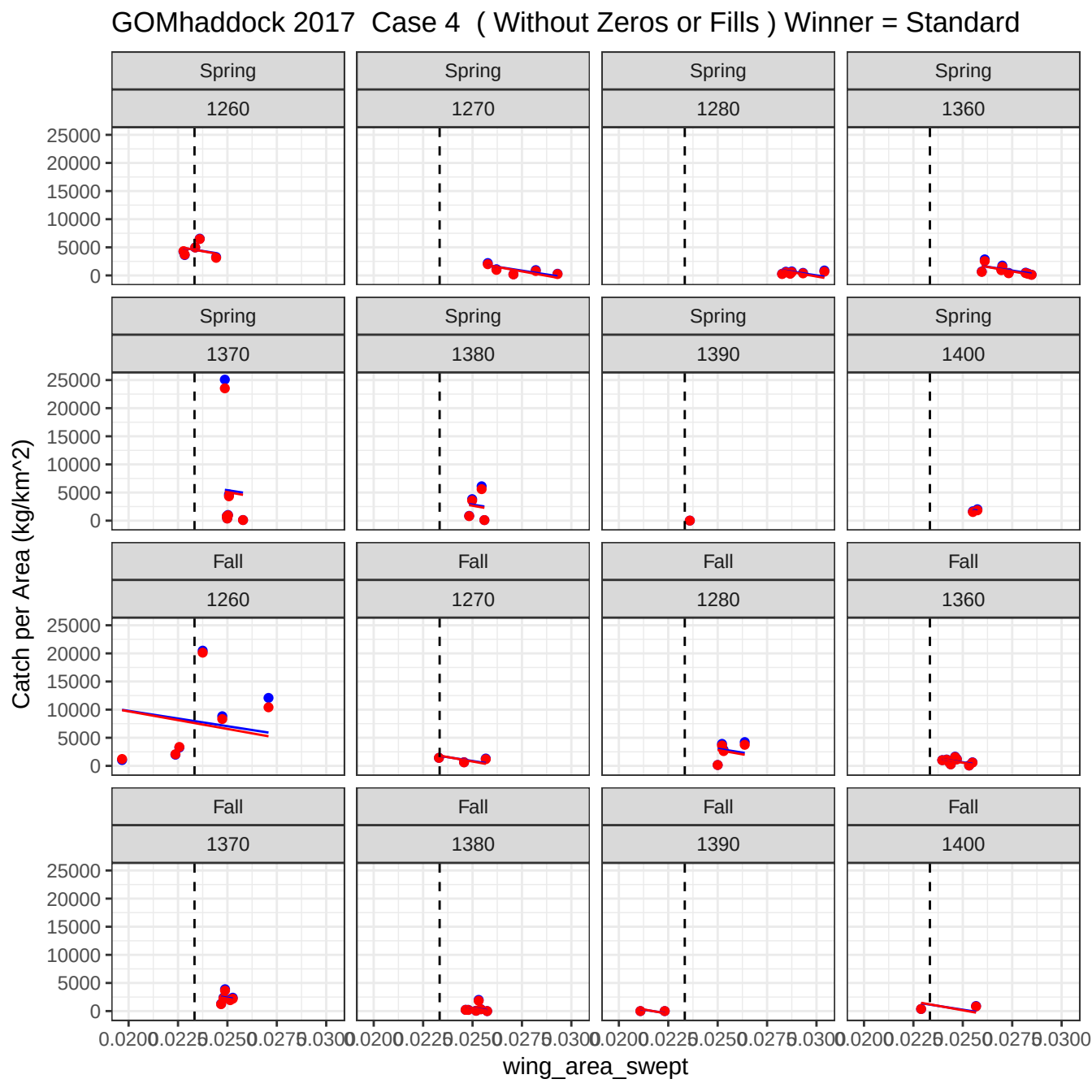

GOMhaddock 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1360
Spring
1370
Spring
1380
Spring
1390
Spring
1400
Fall
1260
Fall
1280
Fall
1360
Fall
1370
Fall
1380
Fall
1390
Fall
1400
4000
2000
0
−2000
0.020
0.024
0.028
Catch per Area (kg/km^2)
wing_area_swept


GOMhaddock 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1280
Spring
1360
Spring
1370
Spring
1380
Spring
1390
Spring
1400
Fall
1270
Fall
1280
Fall
1360
Fall
1370
Fall
1380
Fall
1390
6000
4000
2000
0
0.020 0.022 0.024 0.026
Catch per Area (kg/km^2)
wing_area_swept


GOMhaddock 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1270
1280
1360
1370
1380
1390
1400
Fall
Catch per Area (kg/km^2)
wing_area_swept


GOMhaddock 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1270
1280
1360
1370
1380
1390
1400
Fall
1e+05
5e+04
0e+00
Catch per Area (kg/km^2)
0.021
0.024
0.027
wing_area_swept


GOMhaddock 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1280
Spring
1360
Spring
1370
Spring
1380
Spring
1390
Spring
1400
Fall
1260
Fall
1270
Fall
1280
Fall
1360
Fall
1370
Fall
1380
Fall
1390
Fall
1400
20000
10000
0
Catch per Area (kg/km^2)
0.02000.02250.02500.0275
wing_area_swept


GOMhaddock 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1270
1280
1360
1370
1380
1390
1400
Fall
Catch per Area (kg/km^2)
25000
20000
15000
10000
5000
0
0.0200
0.0225
0.0250
0.0275
0.0300
wing_area_swept

Nsilverhake 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
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Spring 1300
Spring 1360
Spring 1370
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Spring 1400
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Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept

Nsilverhake 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
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Fall 1360
Fall 1370
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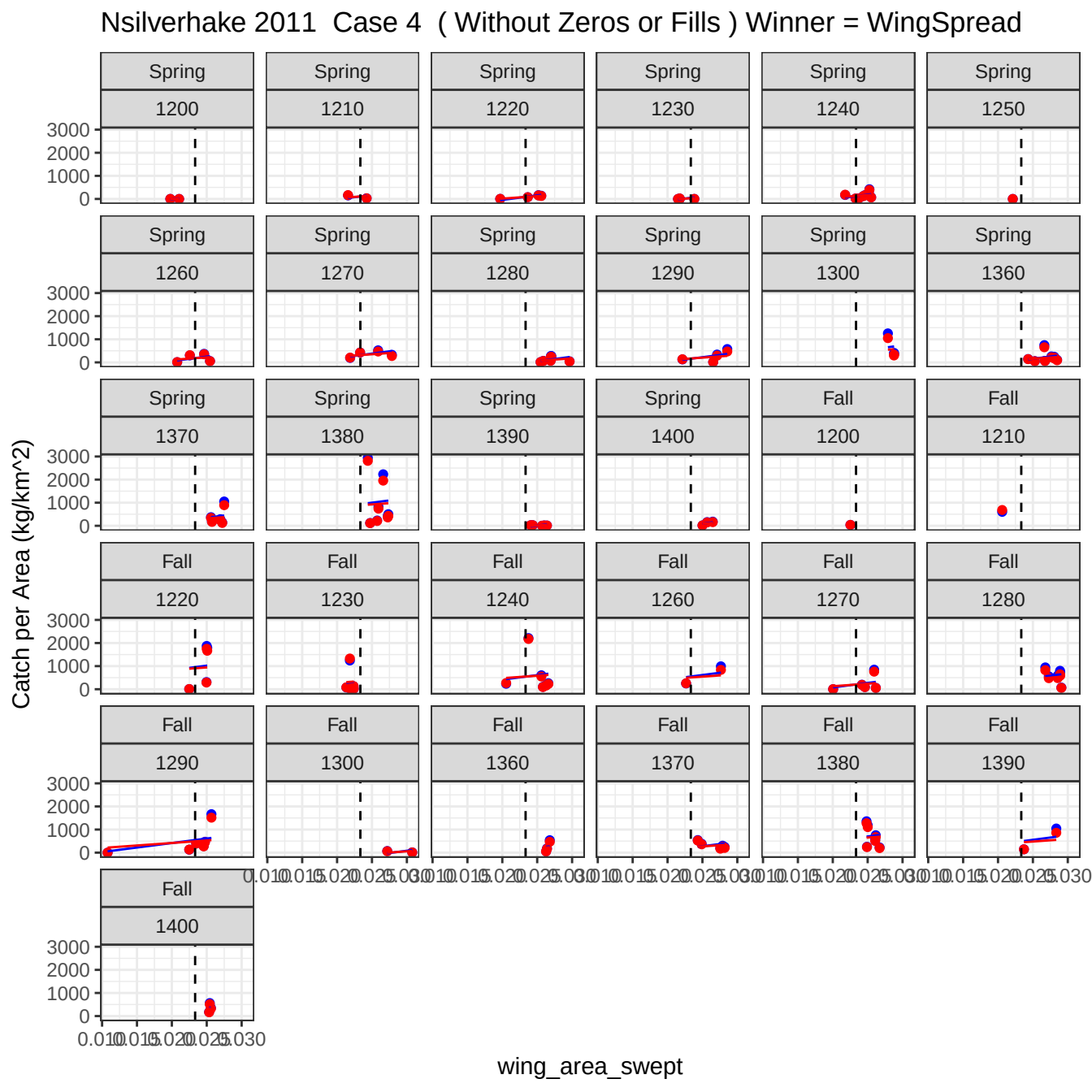
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept


Nsilverhake 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
Spring 1220
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Spring 1240
Spring 1250
Spring 1260
Spring 1270
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Spring 1400
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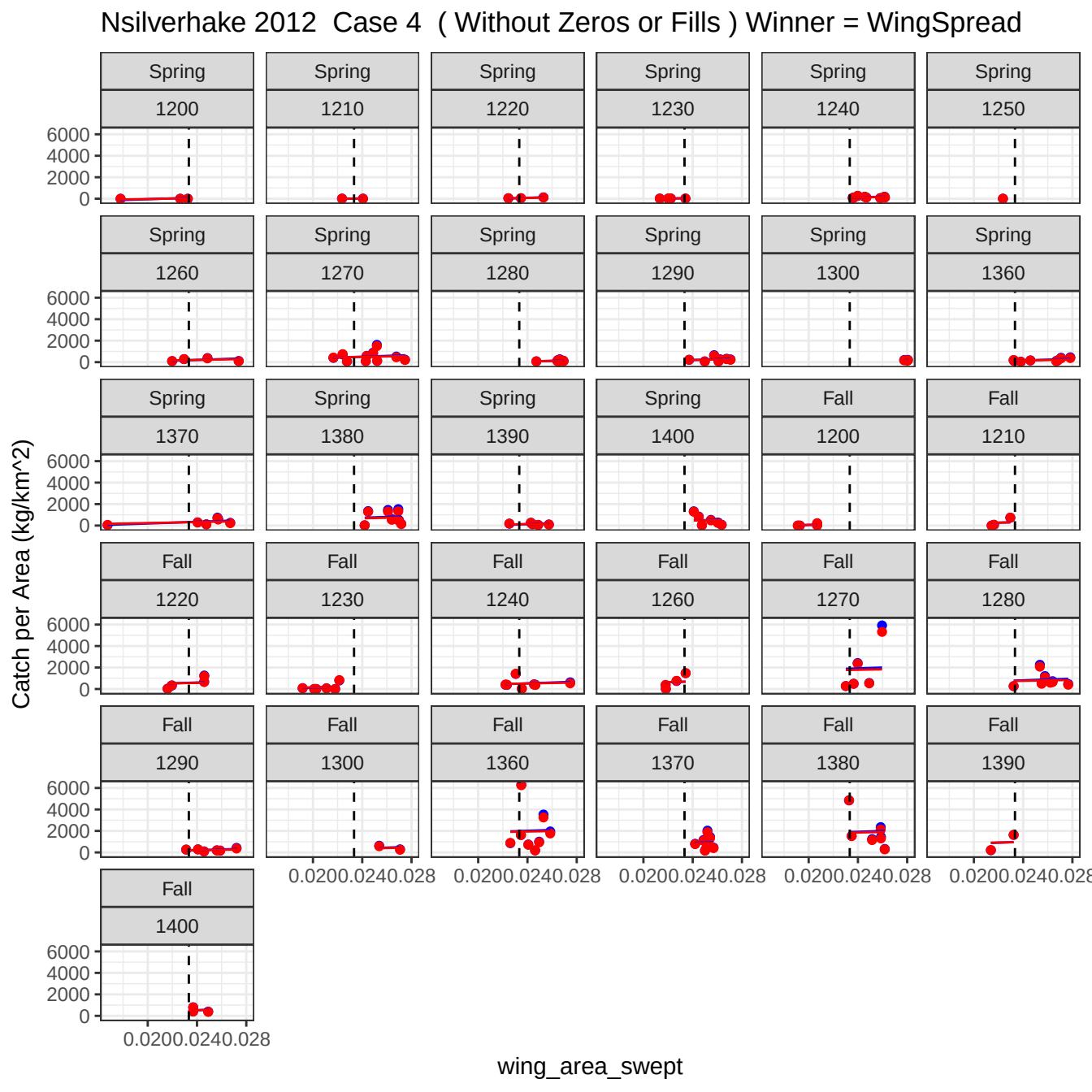
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
1000
2000
3000
0.010
0.015
0.020
0.025
0.030
wing_area_swept


Nsilverhake 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
Spring 1210
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Spring 1400
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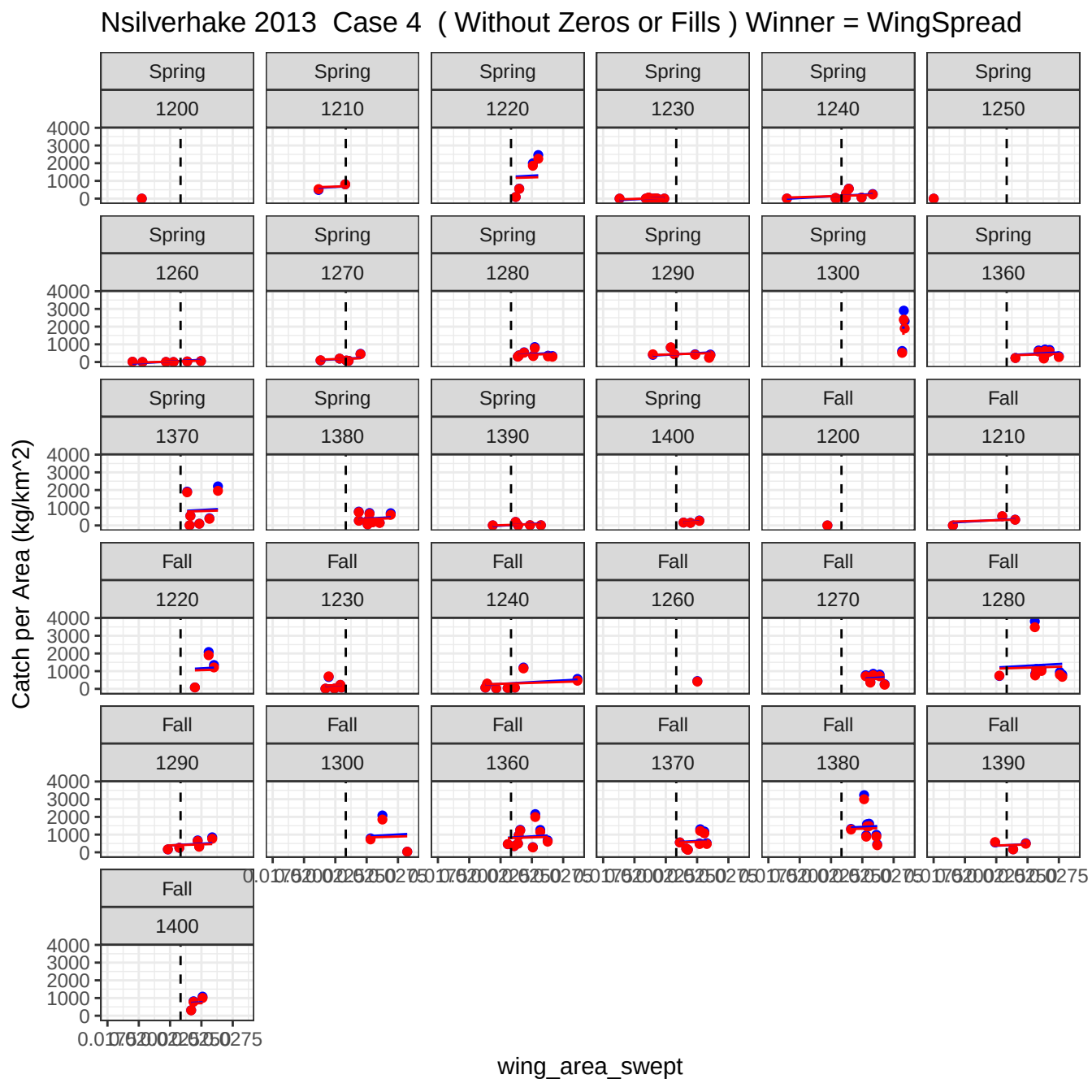
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
6000
4000
2000
0
0.020 0.024 0.028
Catch per Area (kg/km^2)
wing_area_swept


Nsilverhake 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
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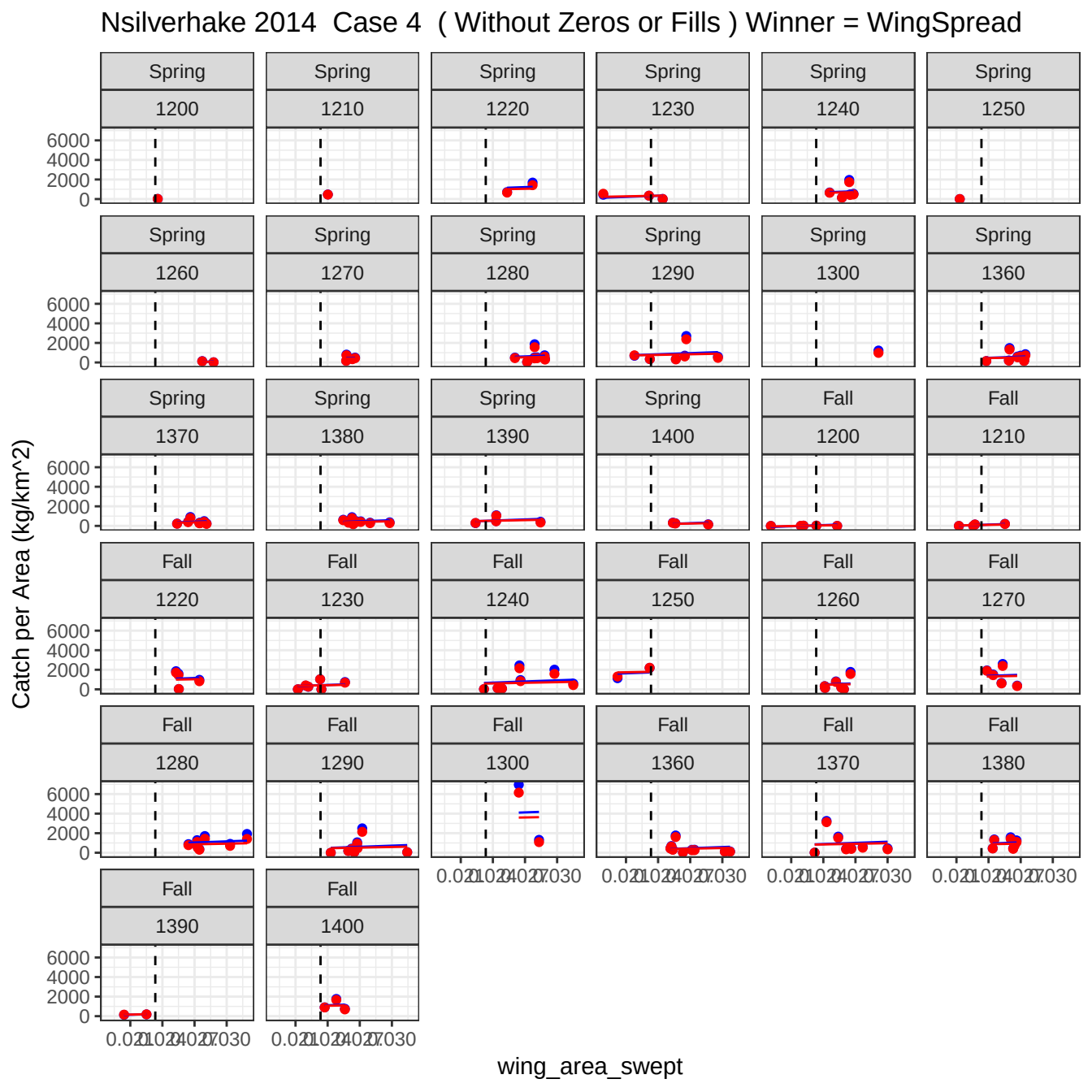
Fall 1400
Catch per Area (kg/km^2)
0
1000
2000
3000
4000
wing_area_swept


Nsilverhake 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
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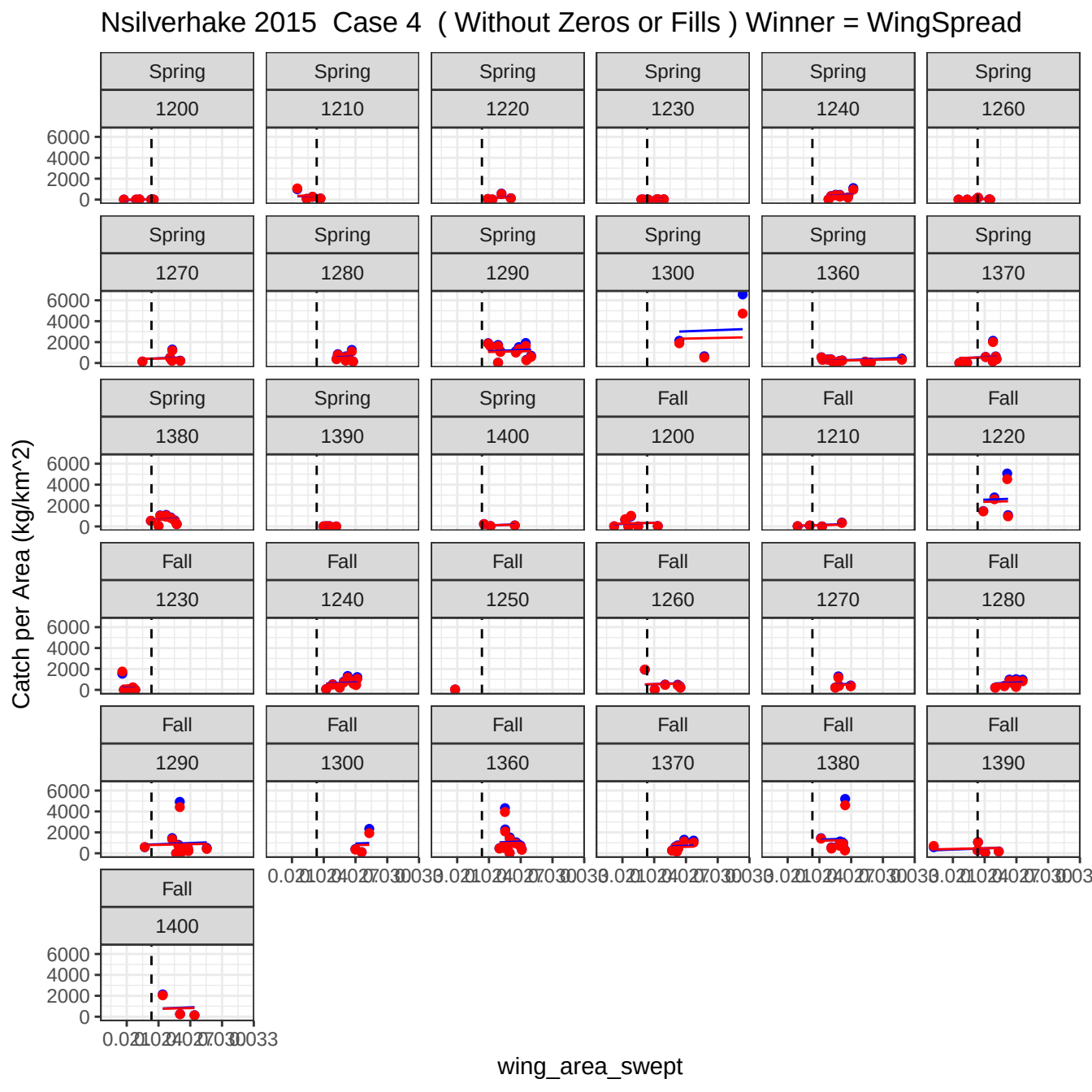
Fall 1390
Fall 1400
6000
4000
2000
0
0.021
0.024
0.027
0.030
Catch per Area (kg/km^2)
wing_area_swept


Nsilverhake 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
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Fall 1400
6000
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2000
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0.021
0.024
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0.030
0.033
Catch per Area (kg/km^2)
wing_area_swept

Nsilverhake 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1200
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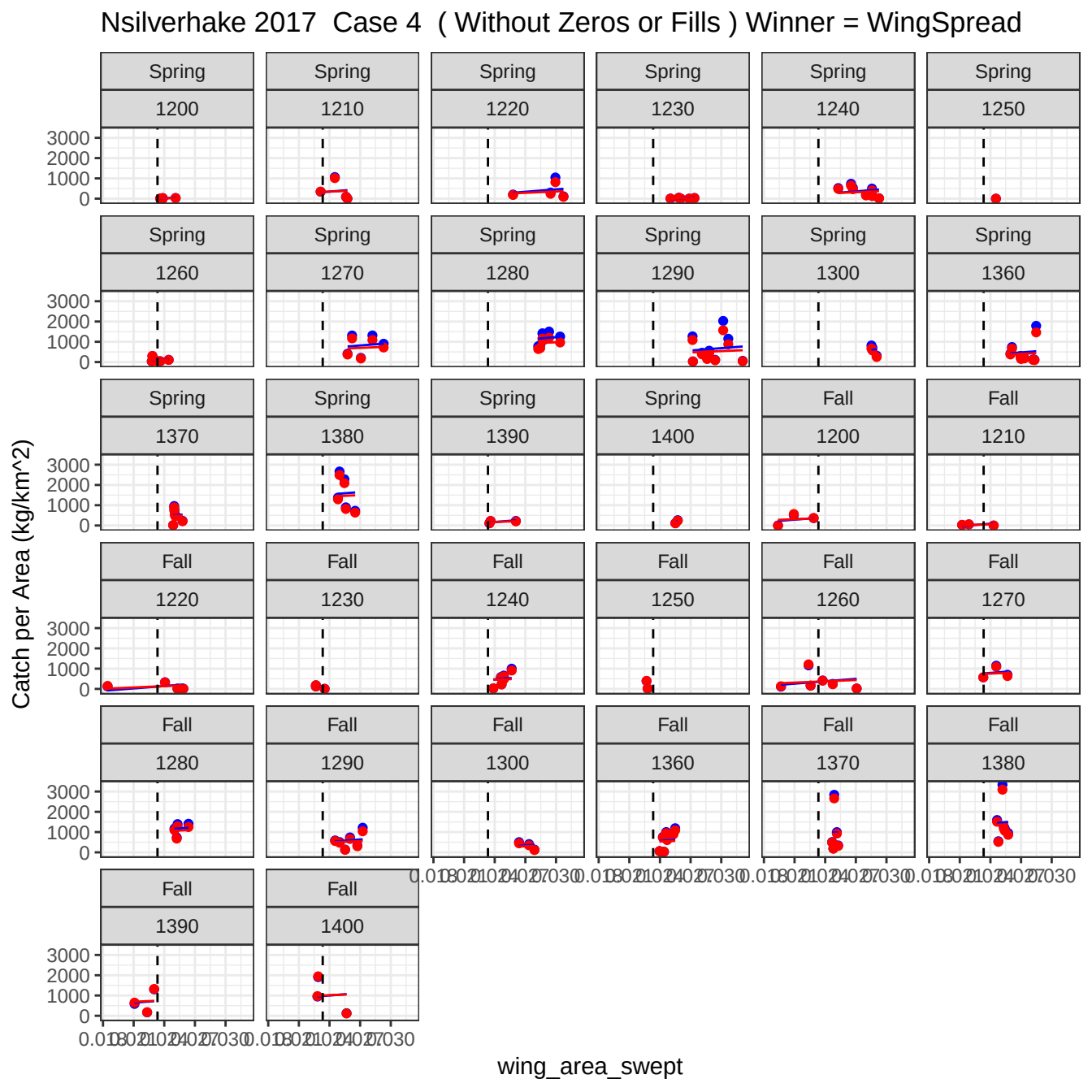
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept


Nsilverhake 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
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Fall 1400
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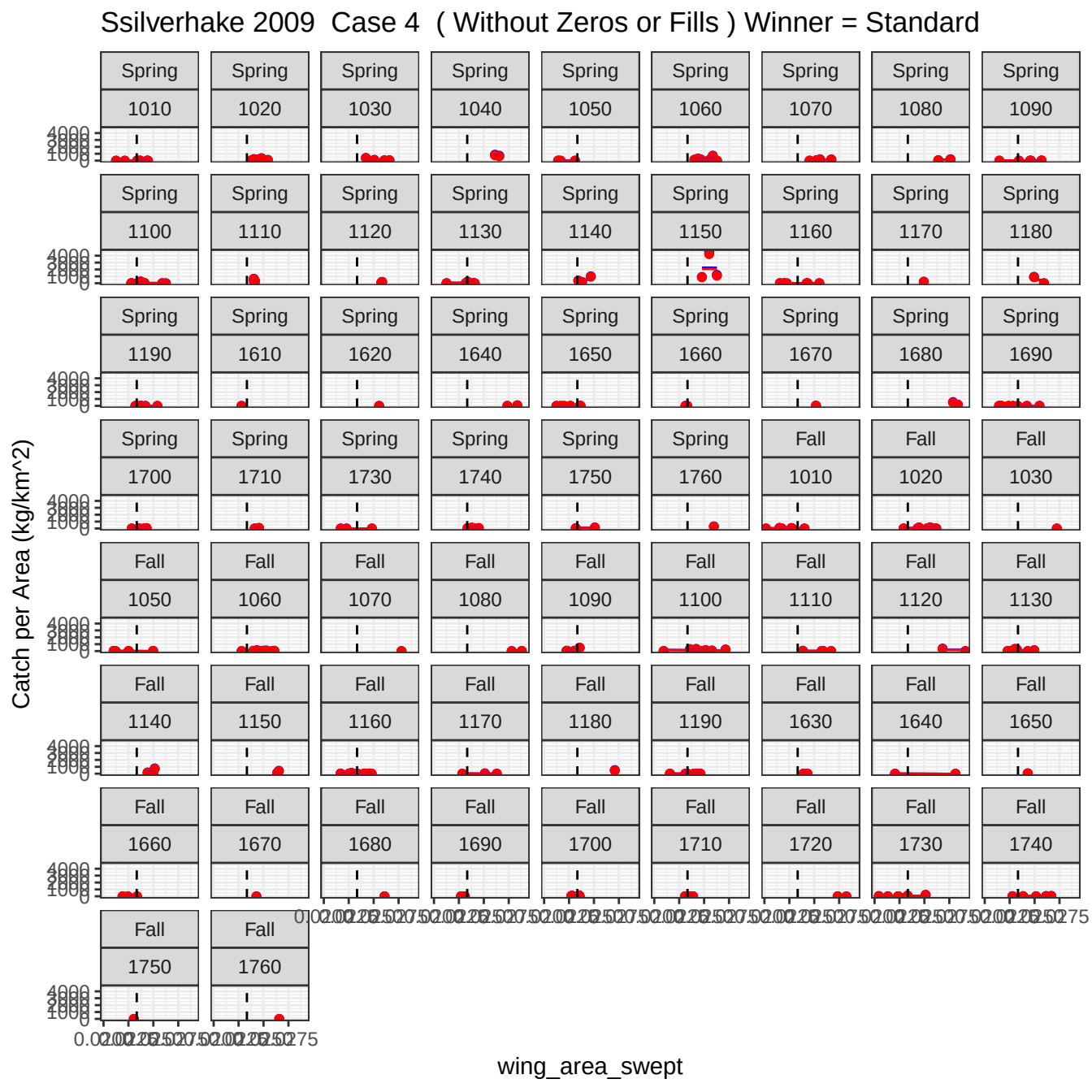
0.0
1.8
2.1
2.4
2.7
3.0
Catch per Area (kg/km^2)
wing_area_swept


Ssilverhake 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
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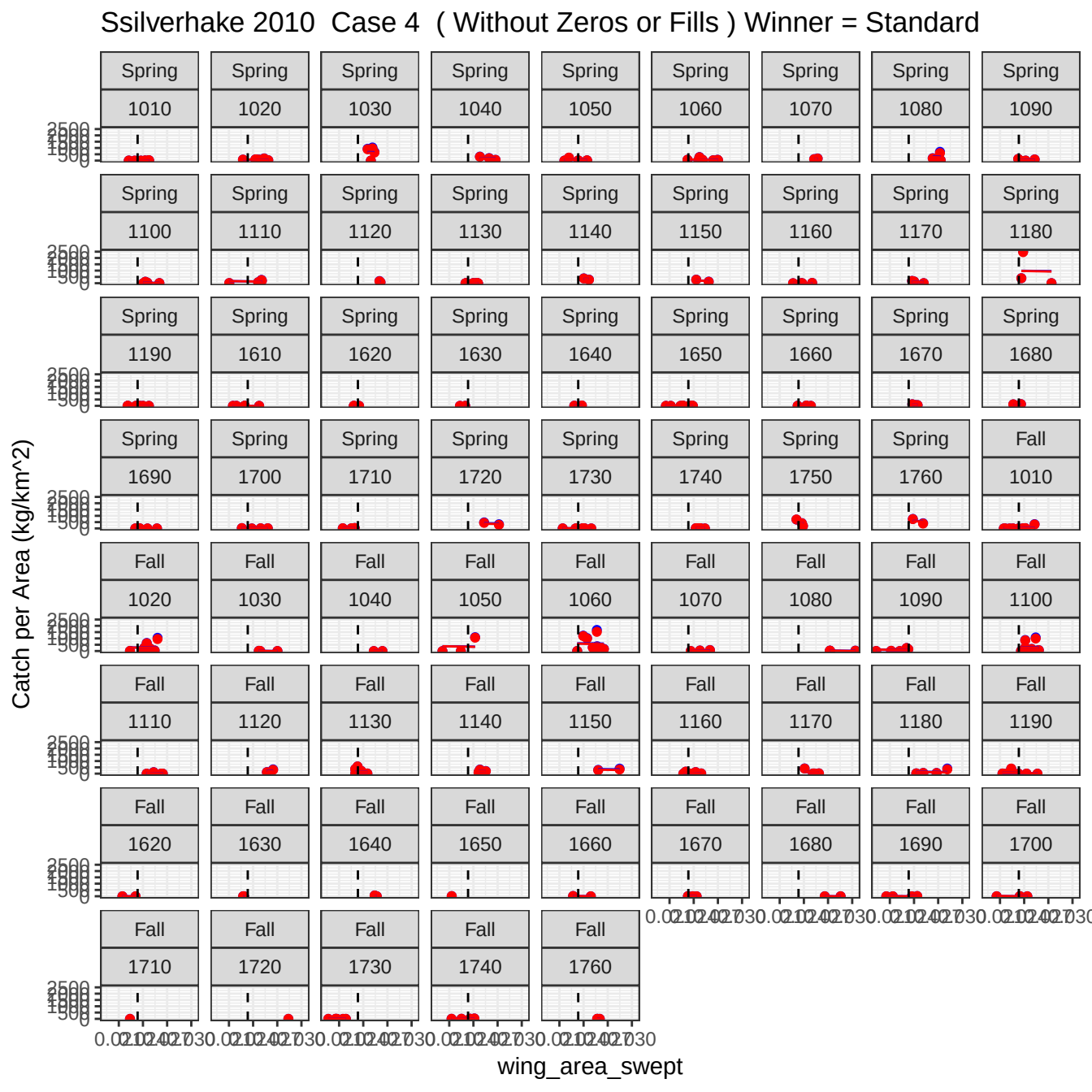
Catch per Area (kg/km^2)
wing_area_swept


Ssilverhake 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Catch per Area (kg/km^2)
wing_area_swept
Spring 1010
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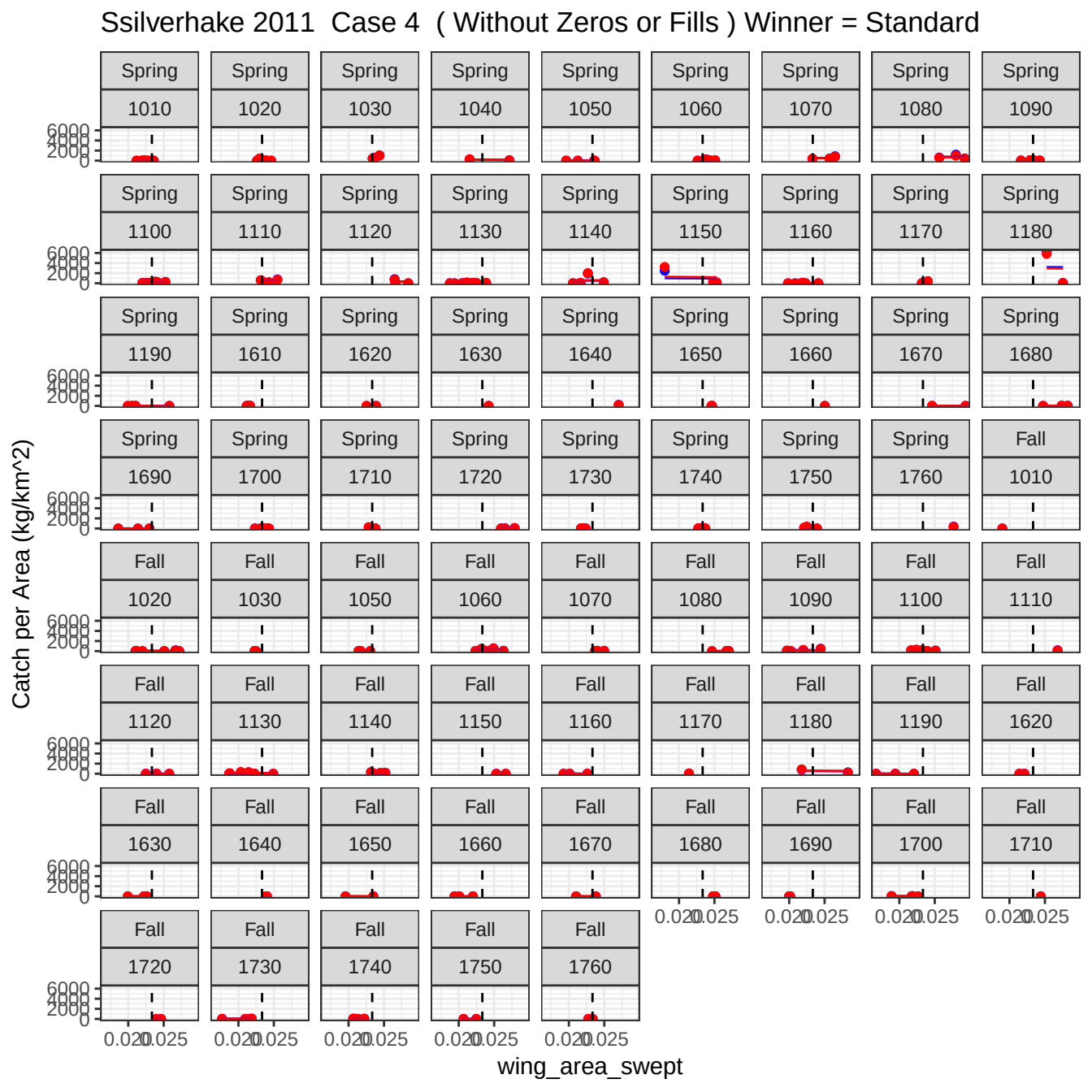
Ssilverhake 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Catch per Area (kg/km^2)
wing_area_swept
Spring 1010
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Spring 1040
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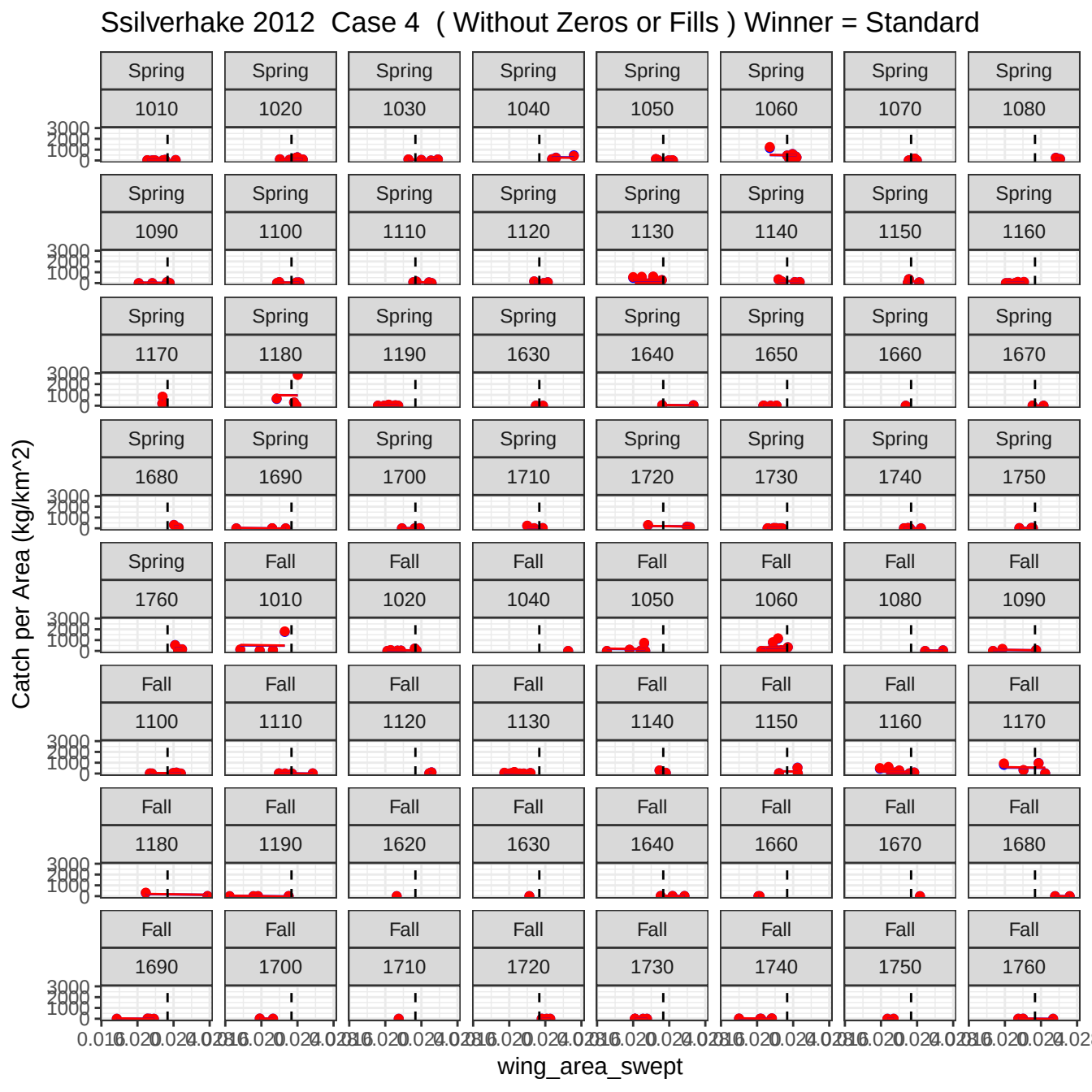
Ssilverhake 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
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3000
2000
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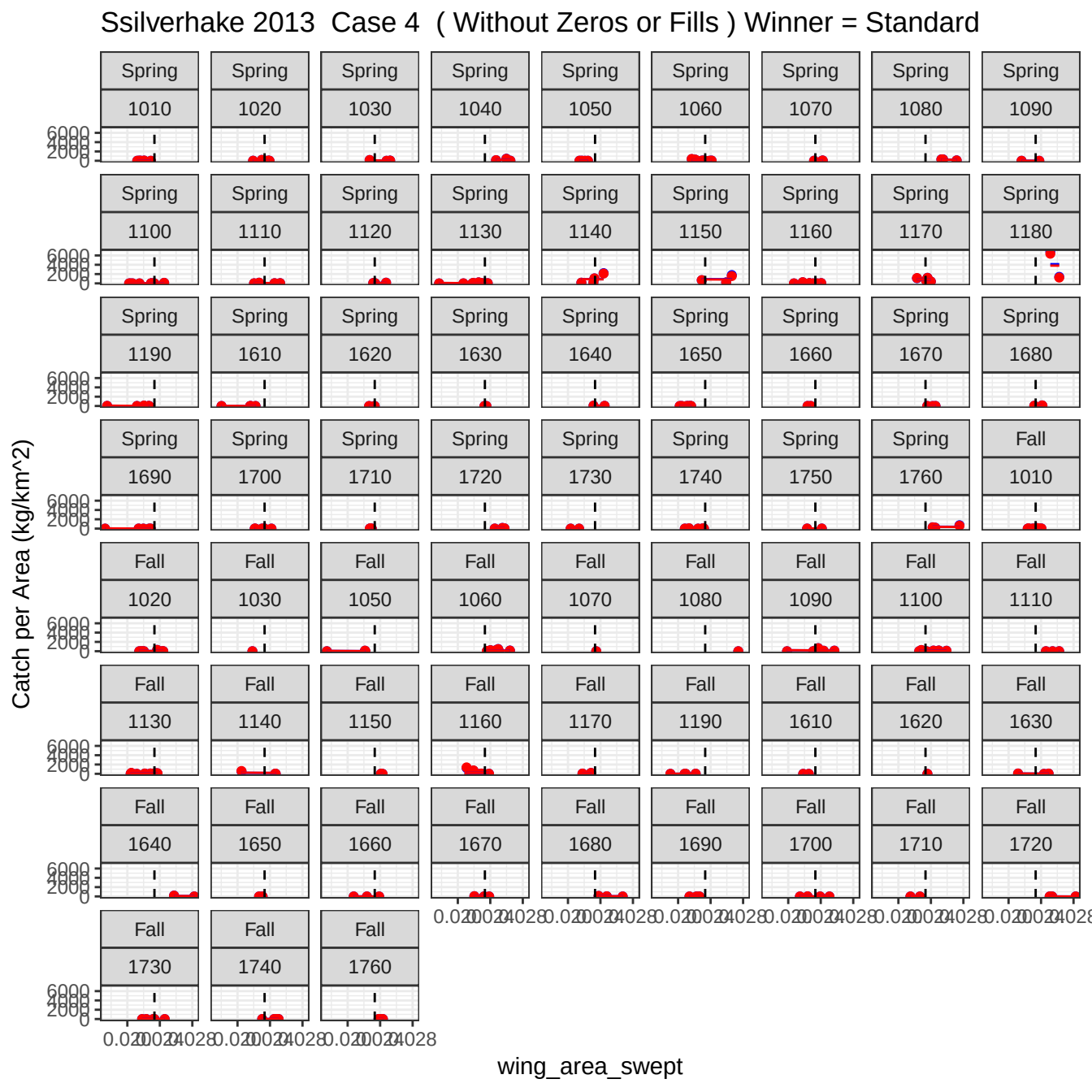
0
Catch per Area (kg/km^2)
wing_area_swept


Ssilverhake 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Catch per Area (kg/km^2)
wing_area_swept
Spring 1010
Spring 1020
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Spring 1040
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0.022
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0.026
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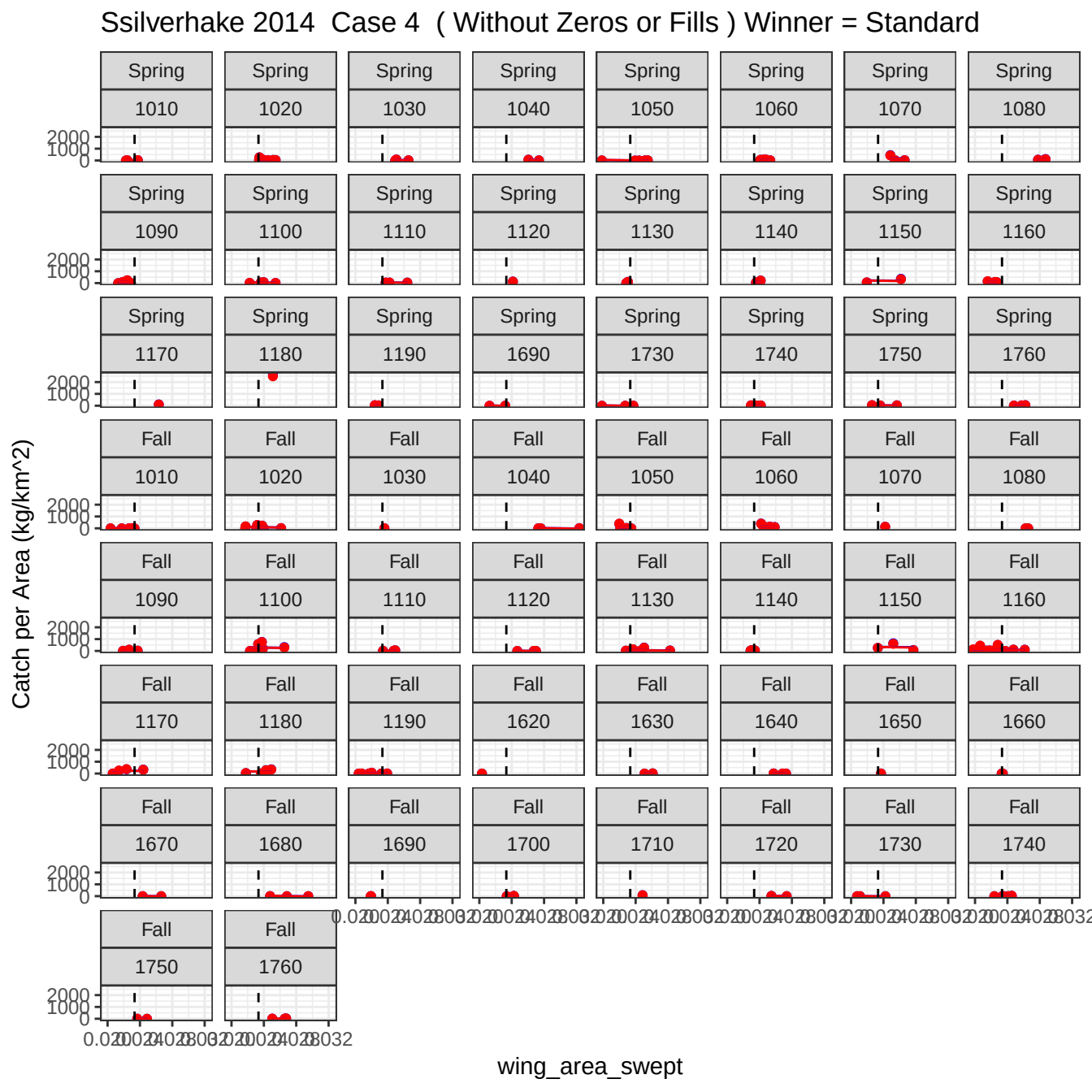
Ssilverhake 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
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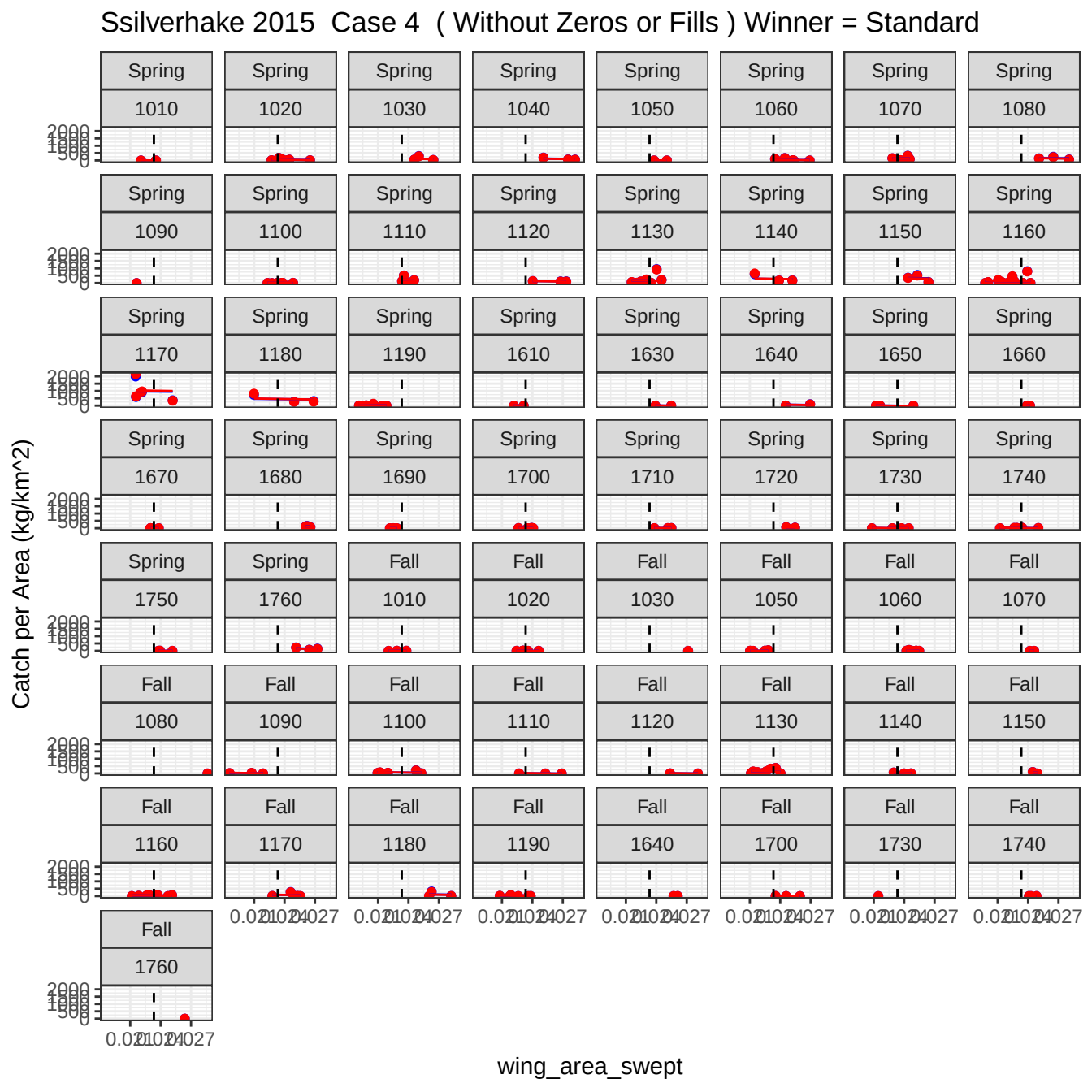
Fall 1760
Catch per Area (kg/km^2)
wing_area_swept


Ssilverhake 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
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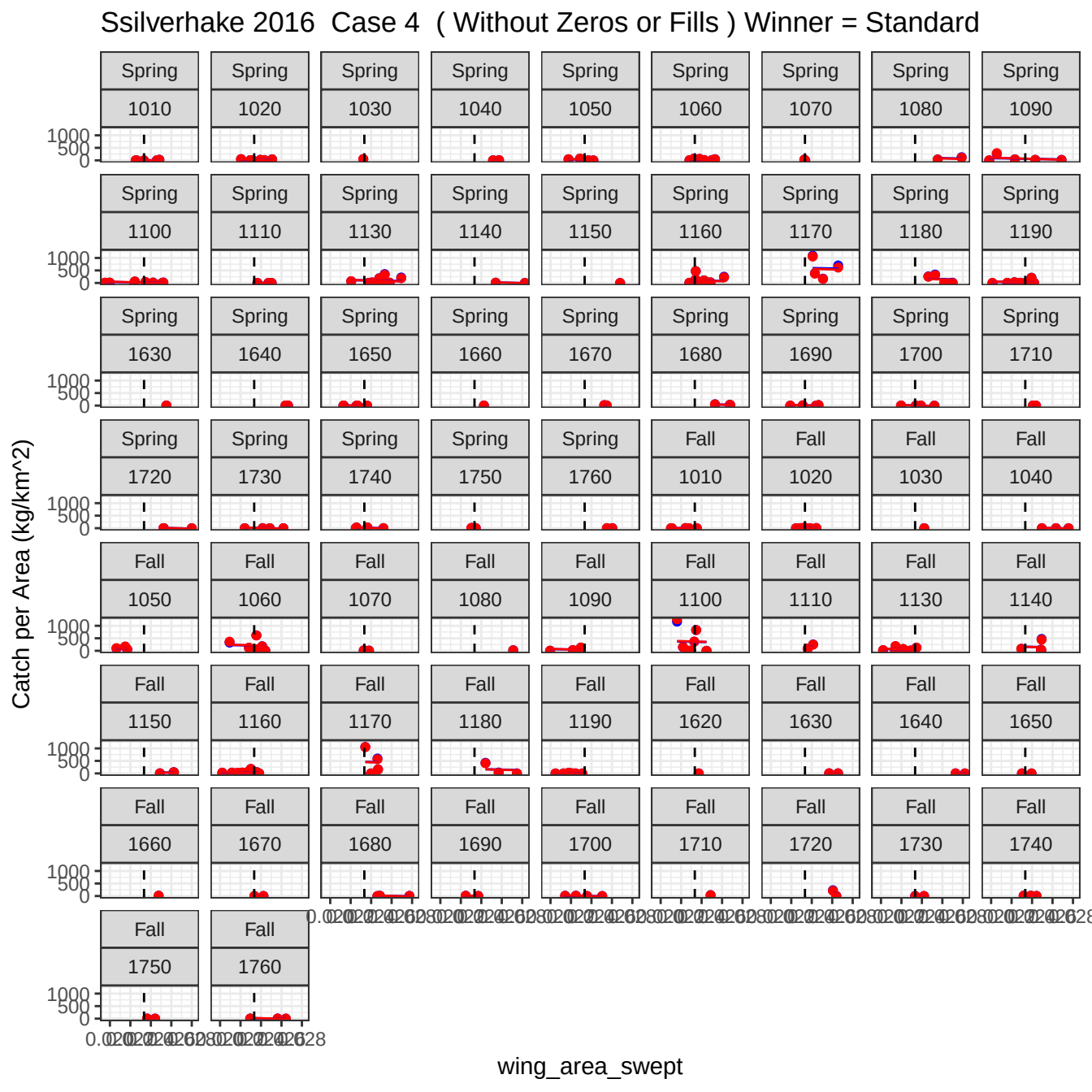
Fall 1740
Fall 1760
Catch per Area (kg/km^2)
wing_area_swept


Ssilverhake 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
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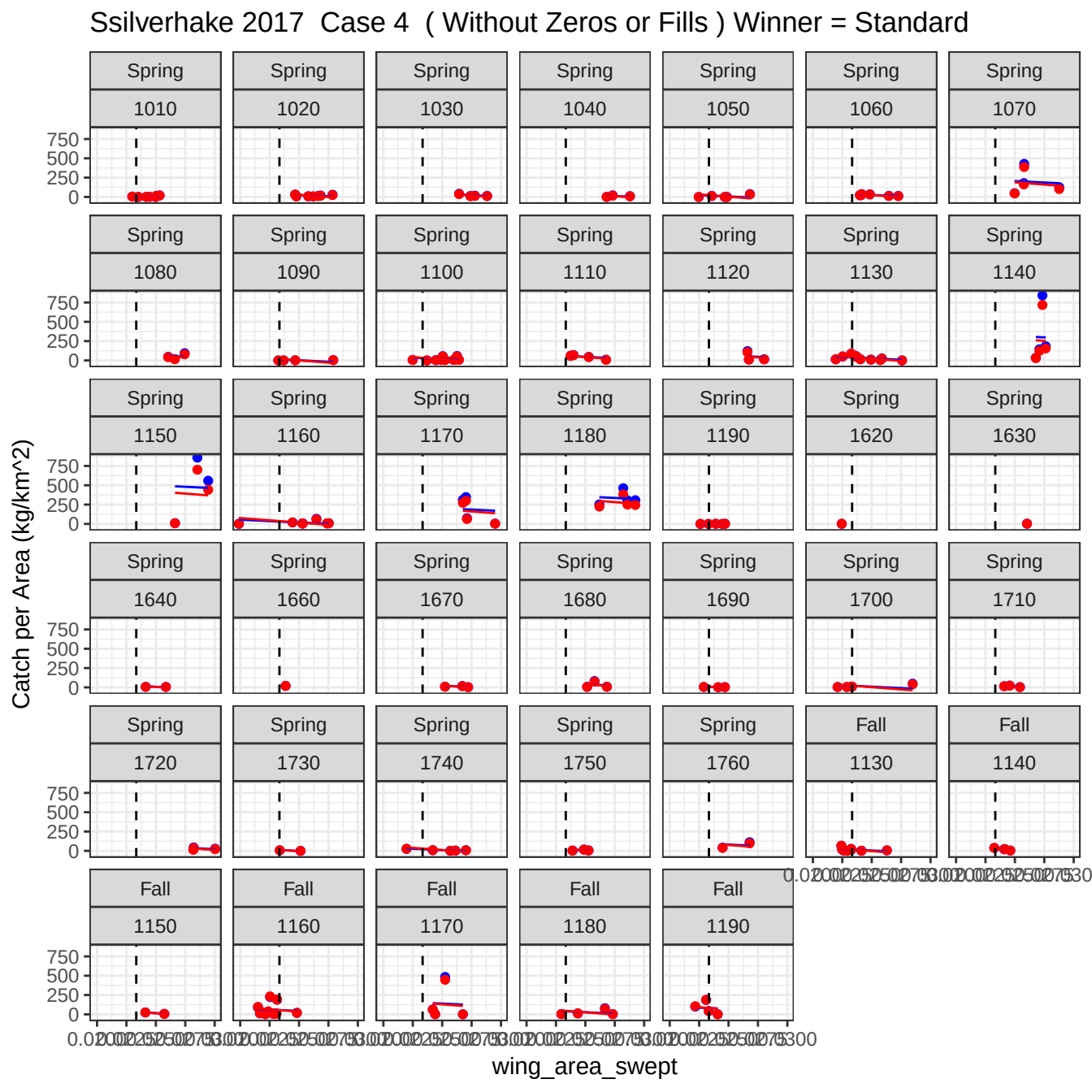
1000
500
0
Catch per Area (kg/km^2)
wing_area_swept


Ssilverhake 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
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Spring 1080
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Fall 1130
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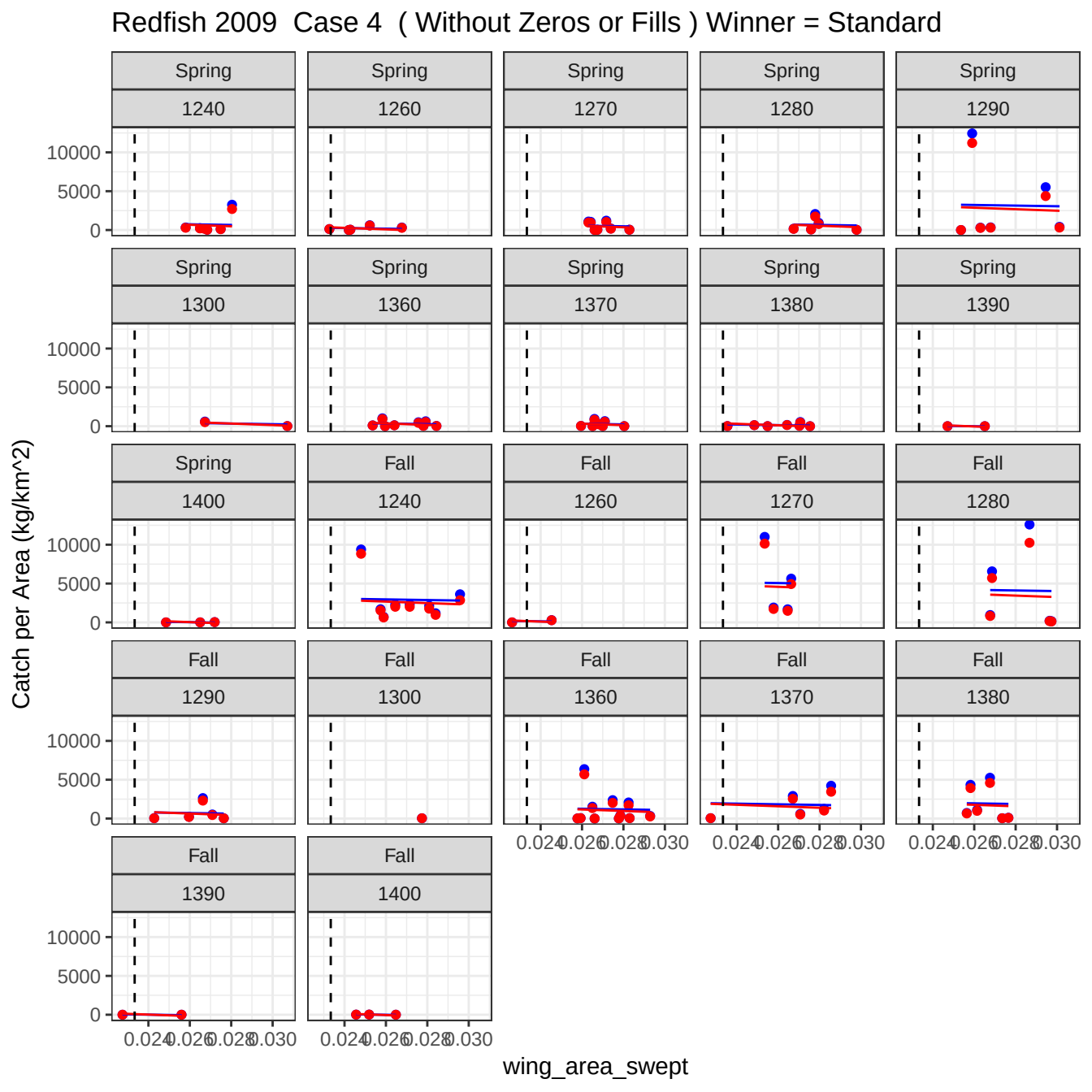
Fall 1180
Fall 1190
Catch per Area (kg/km^2)
wing_area_swept


Redfish 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1240
Spring 1260
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Spring 1400
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Fall 1370
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Fall 1390
Fall 1400
10000
5000
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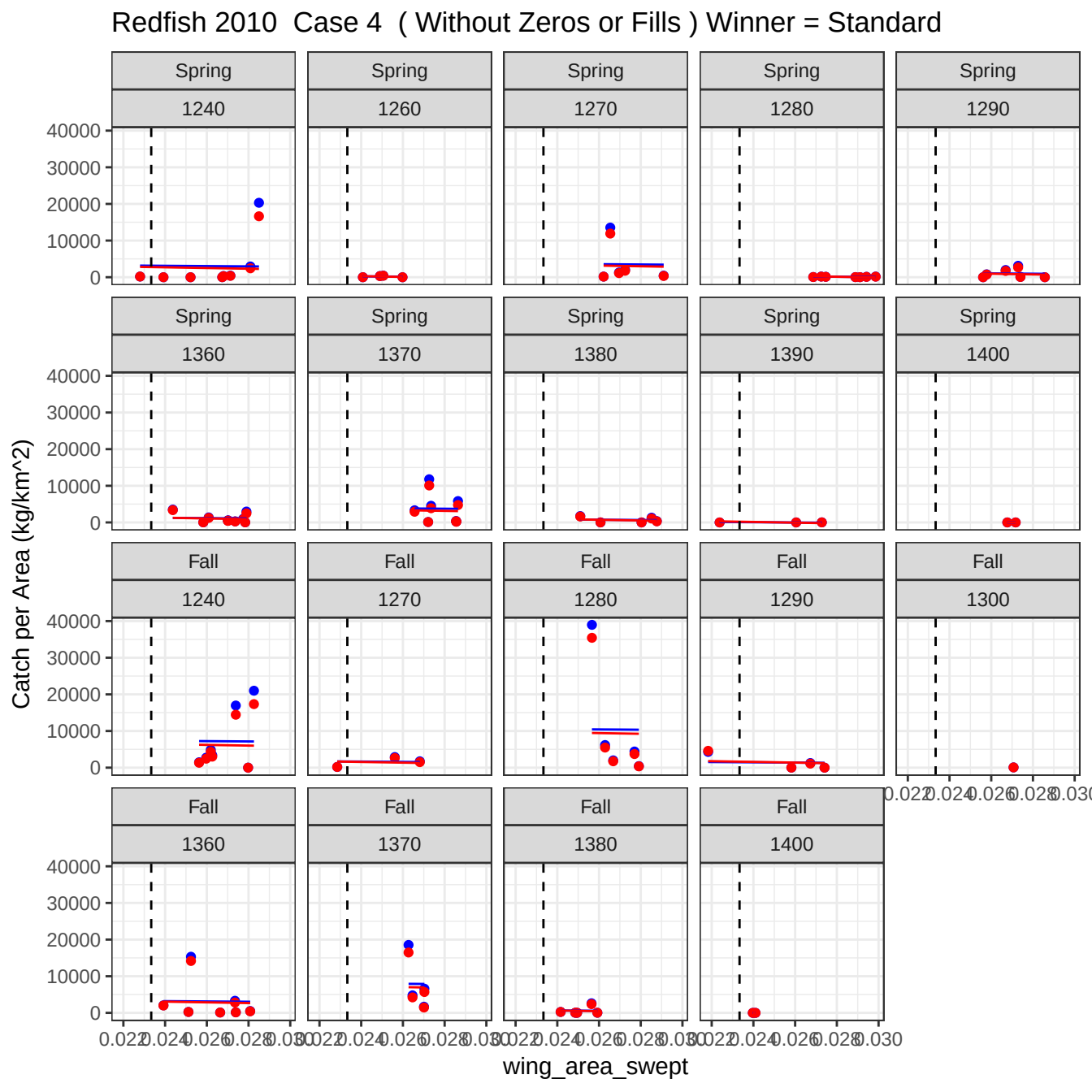
0.024
0.026
0.028
0.030
Catch per Area (kg/km^2)
wing_area_swept


Redfish 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1240
1260
1270
1280
1290
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1380
1390
1400
Fall
1240
1270
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1290
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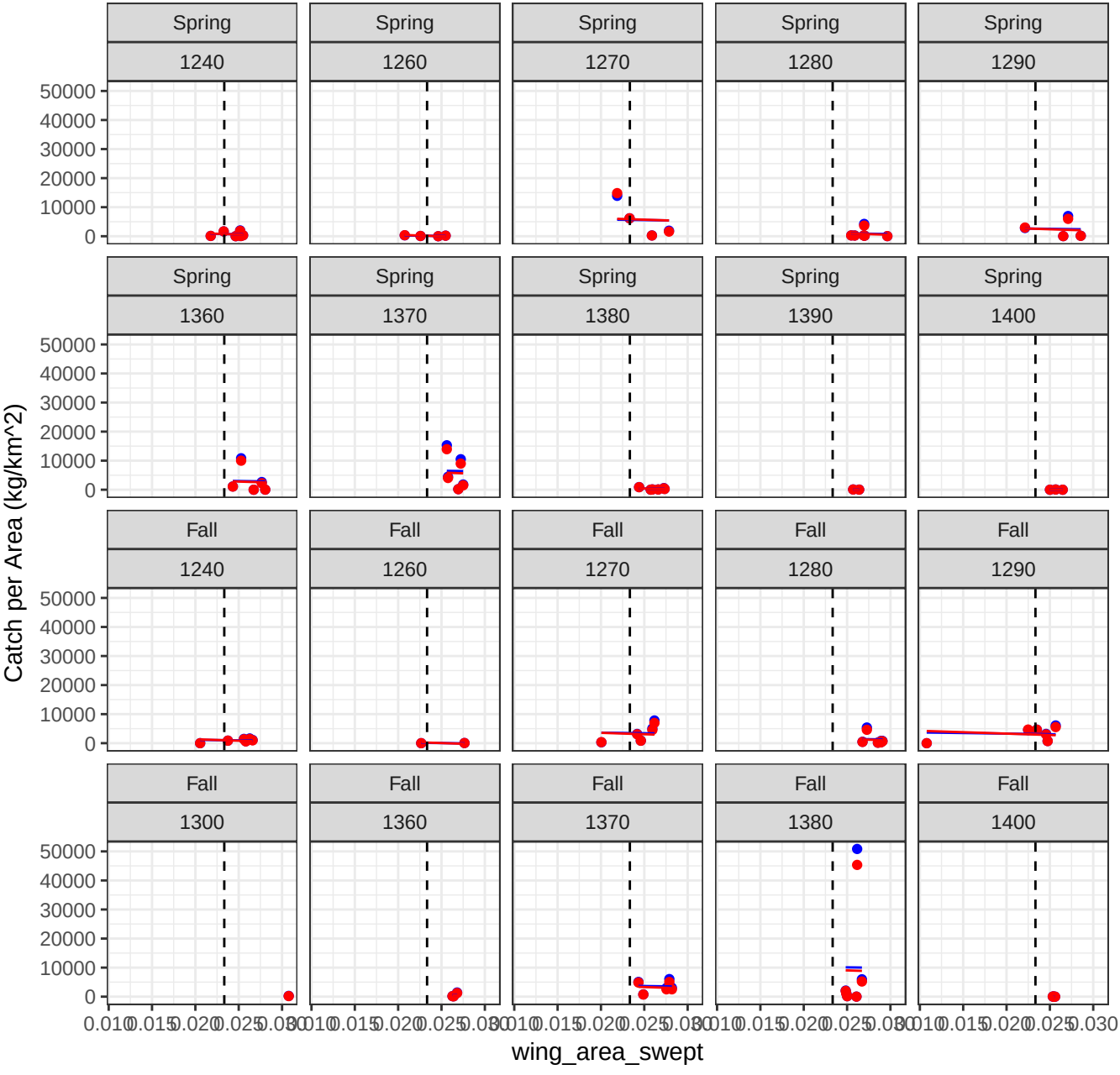
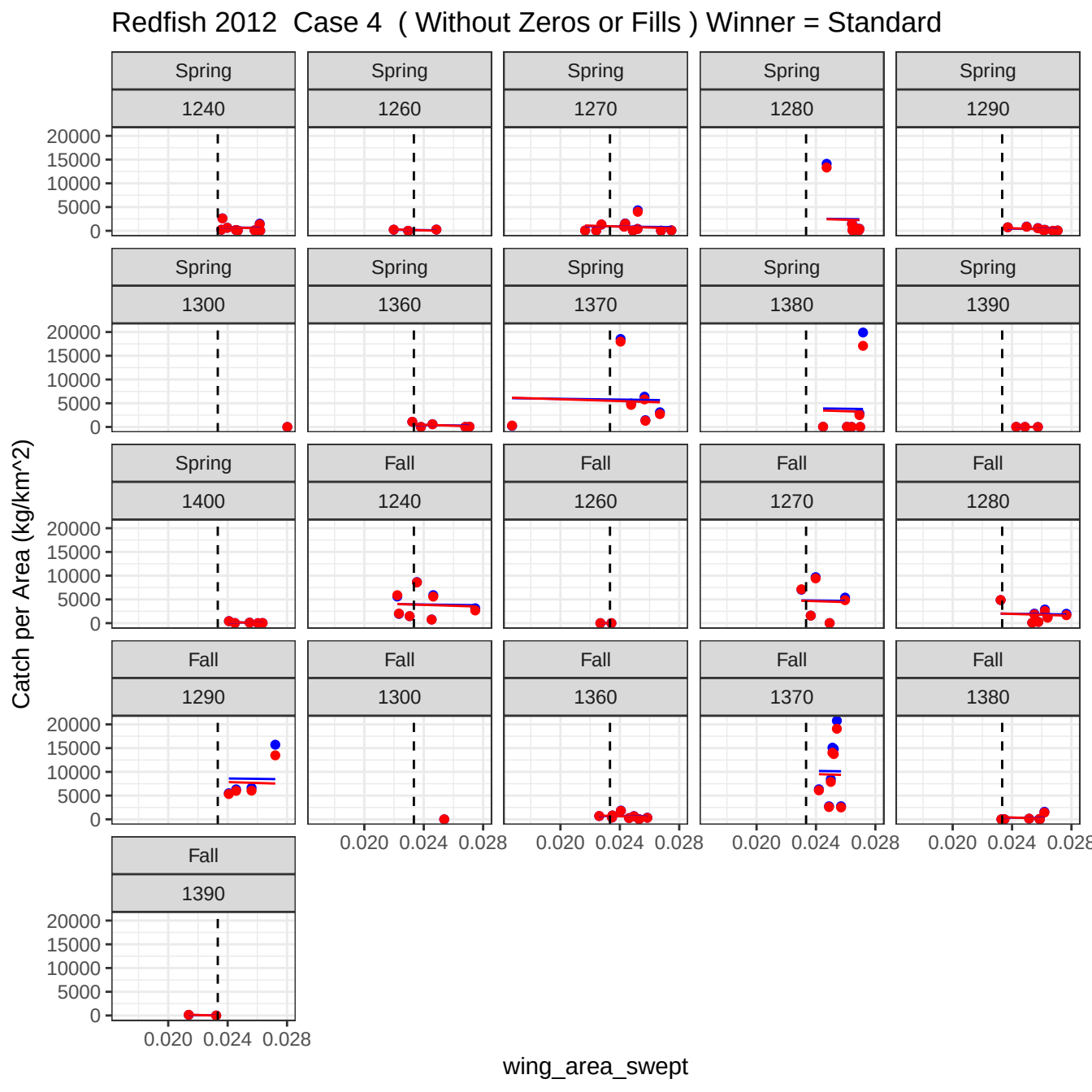
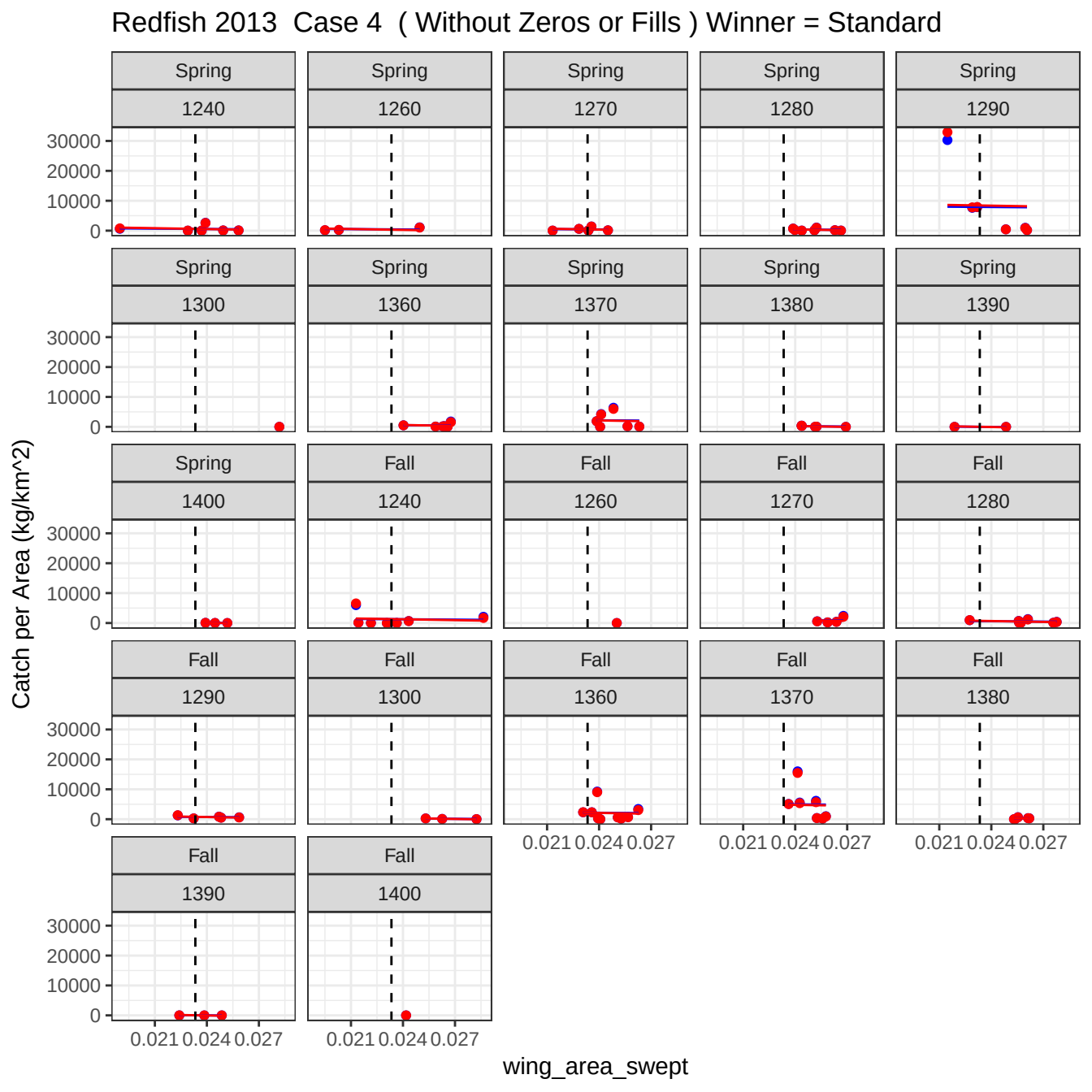
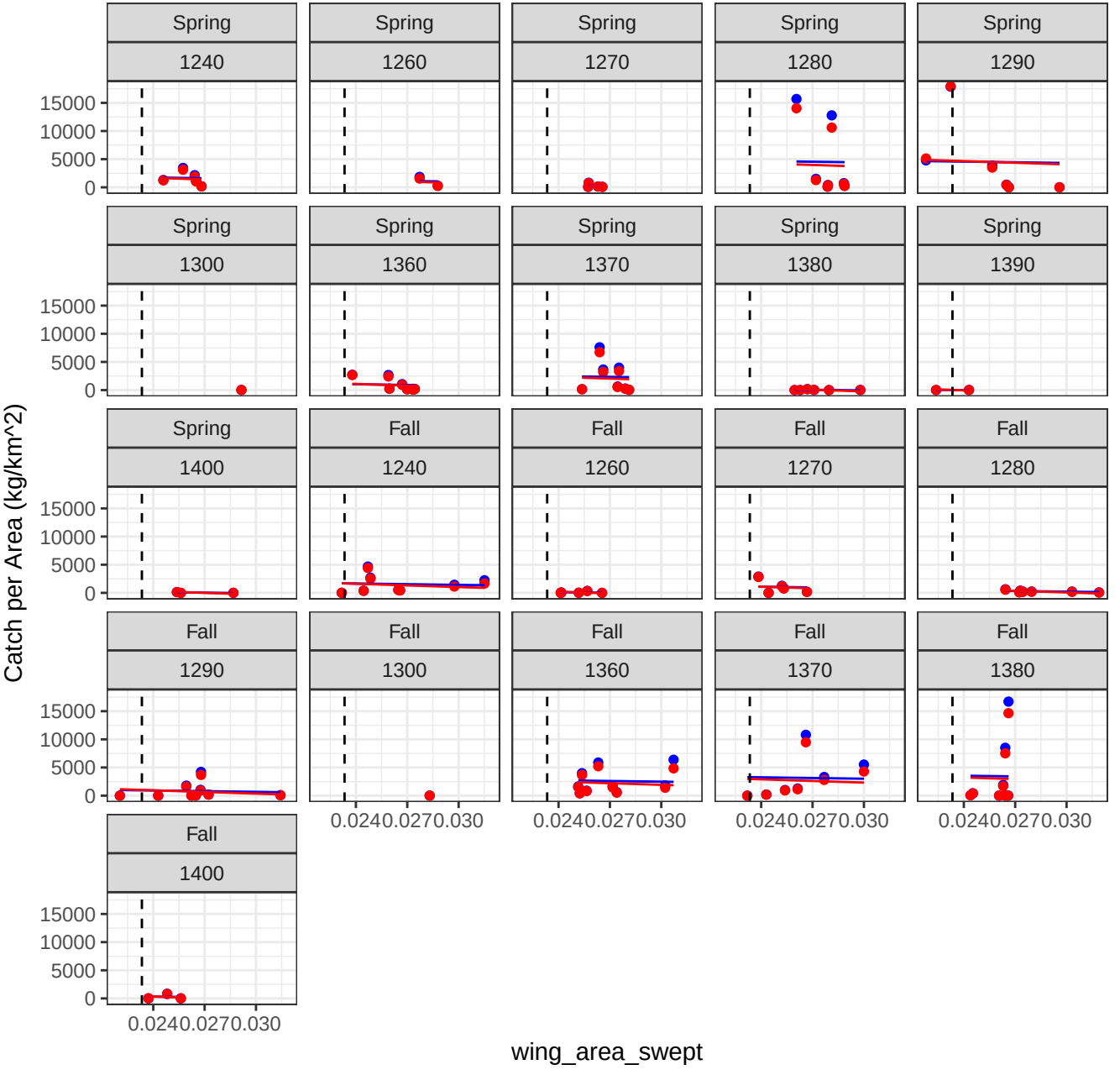
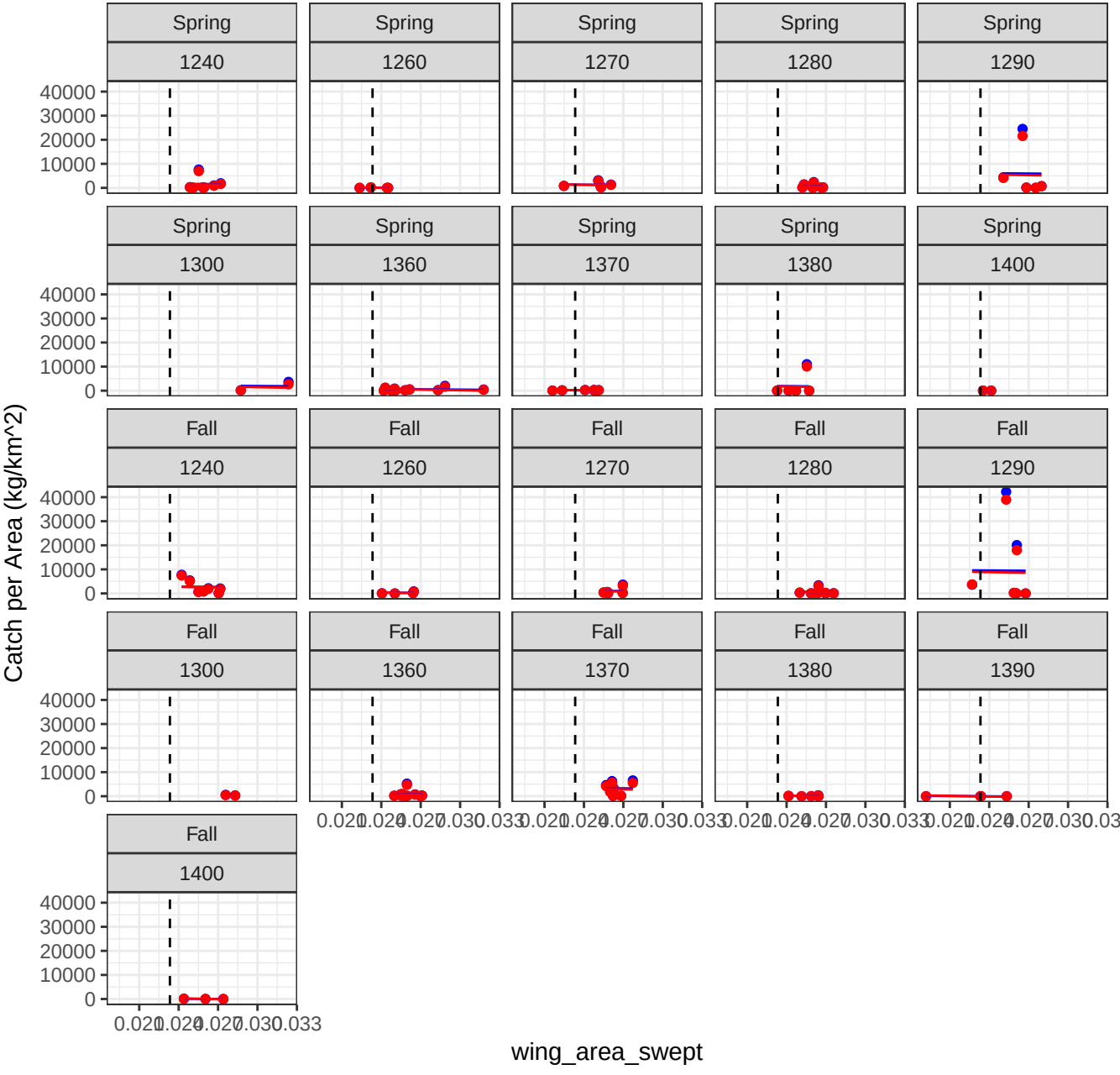
1360
1370
1380
1400
Catch per Area (kg/km^2)
wing_area_swept
0
10000
20000
30000
40000
0.022
0.024
0.026
0.028
0.030

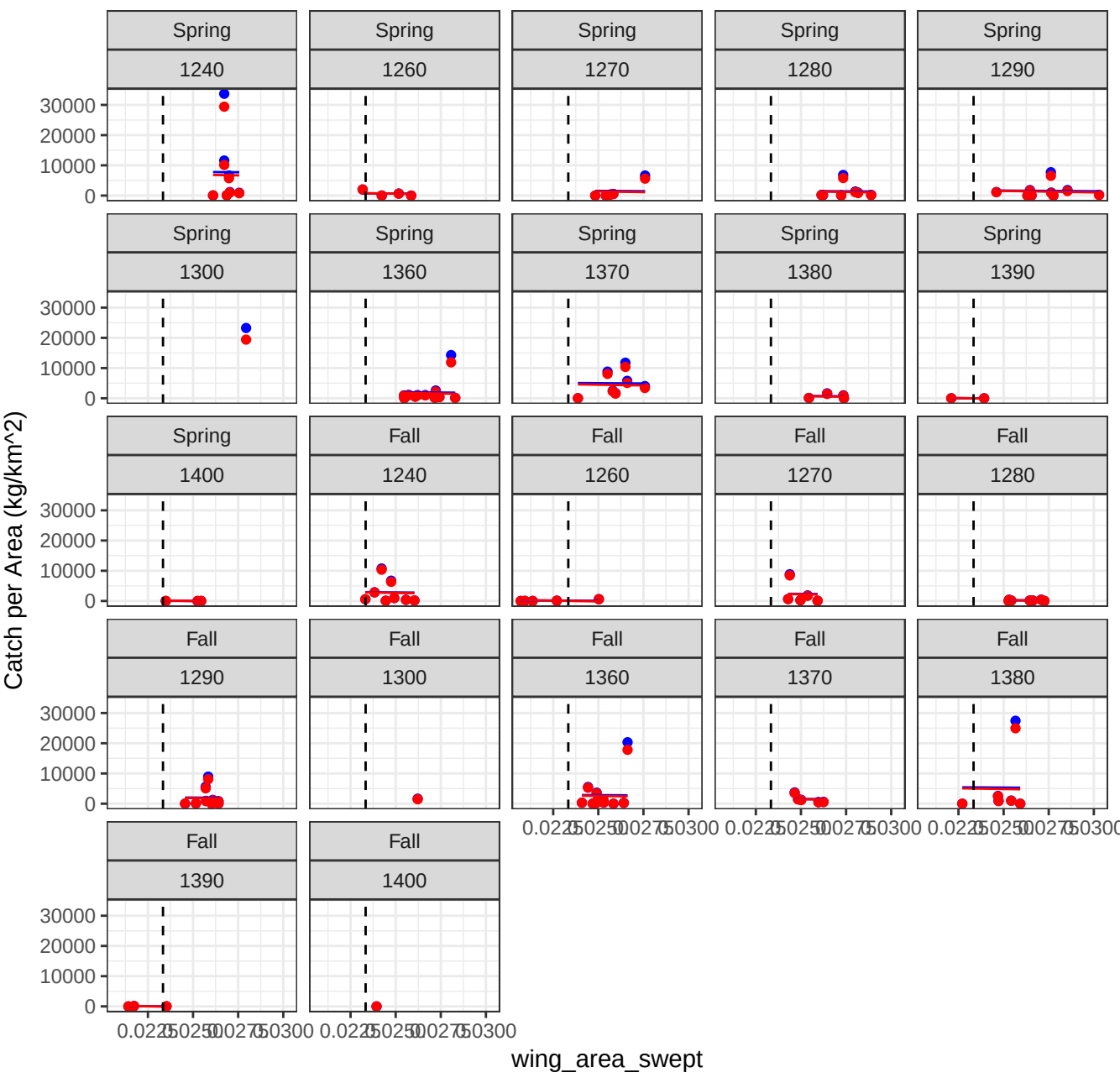

Redfish 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1240
1260
1270
1280
1290
1360
1370
1380
1390
1400
Fall
1300
Catch per Area (kg/km^2)
wing_area_swept

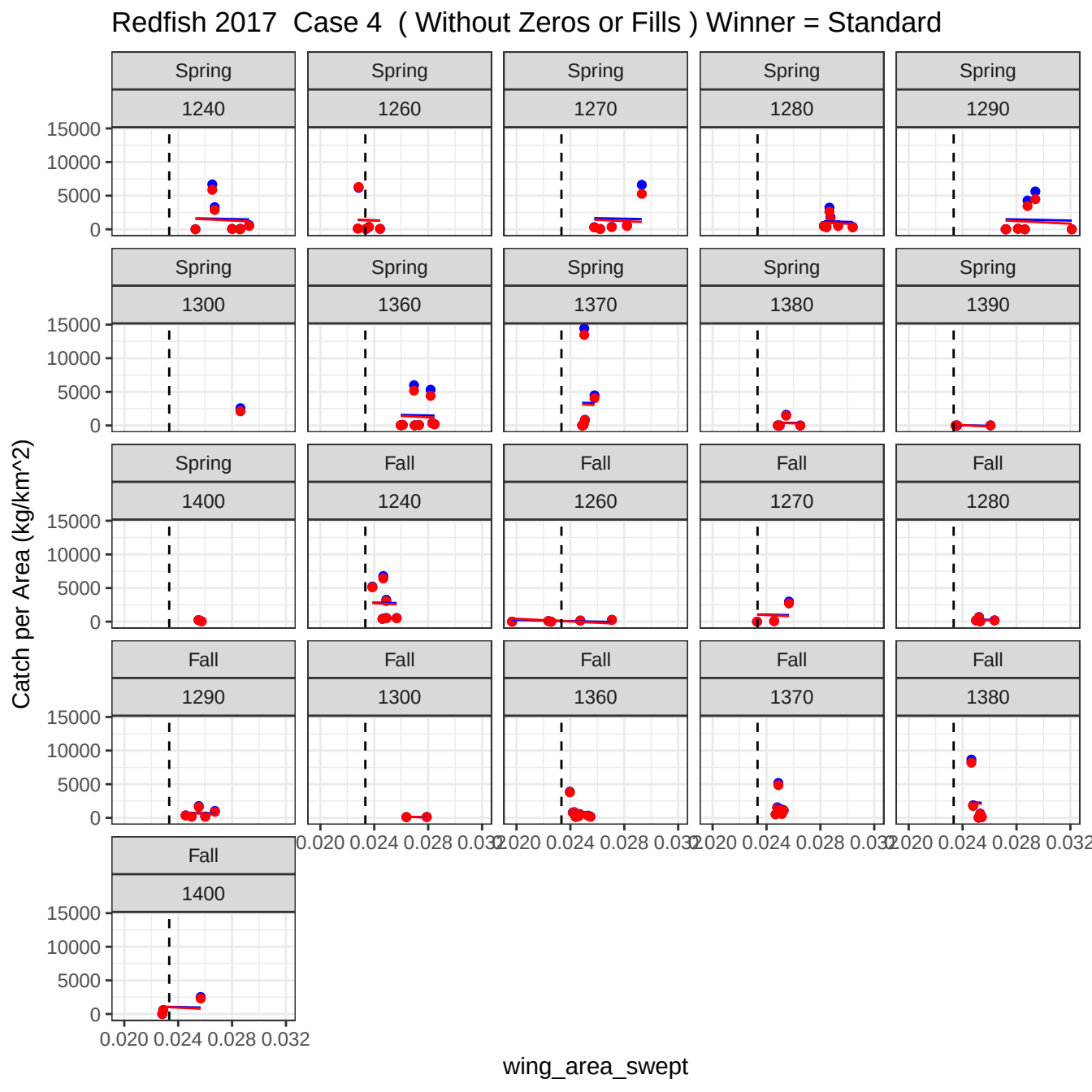

Redfish 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Catch per Area (kg/km^2)
0
5000
10000
15000
20000
0.020
0.024
0.028
wing_area_swept

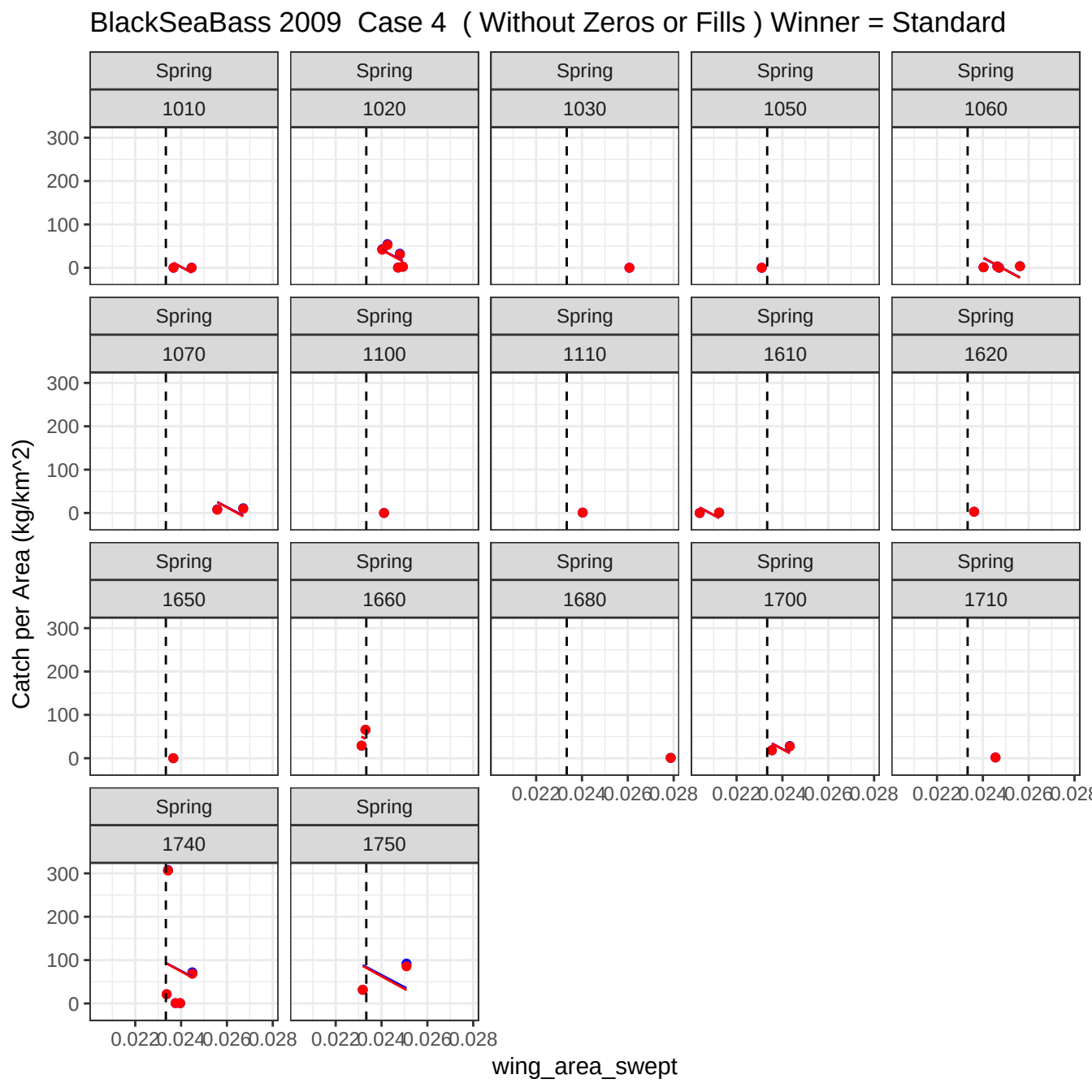

Redfish 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
30000
20000
10000
0
0.021 0.024 0.027
Catch per Area (kg/km^2)
wing_area_swept

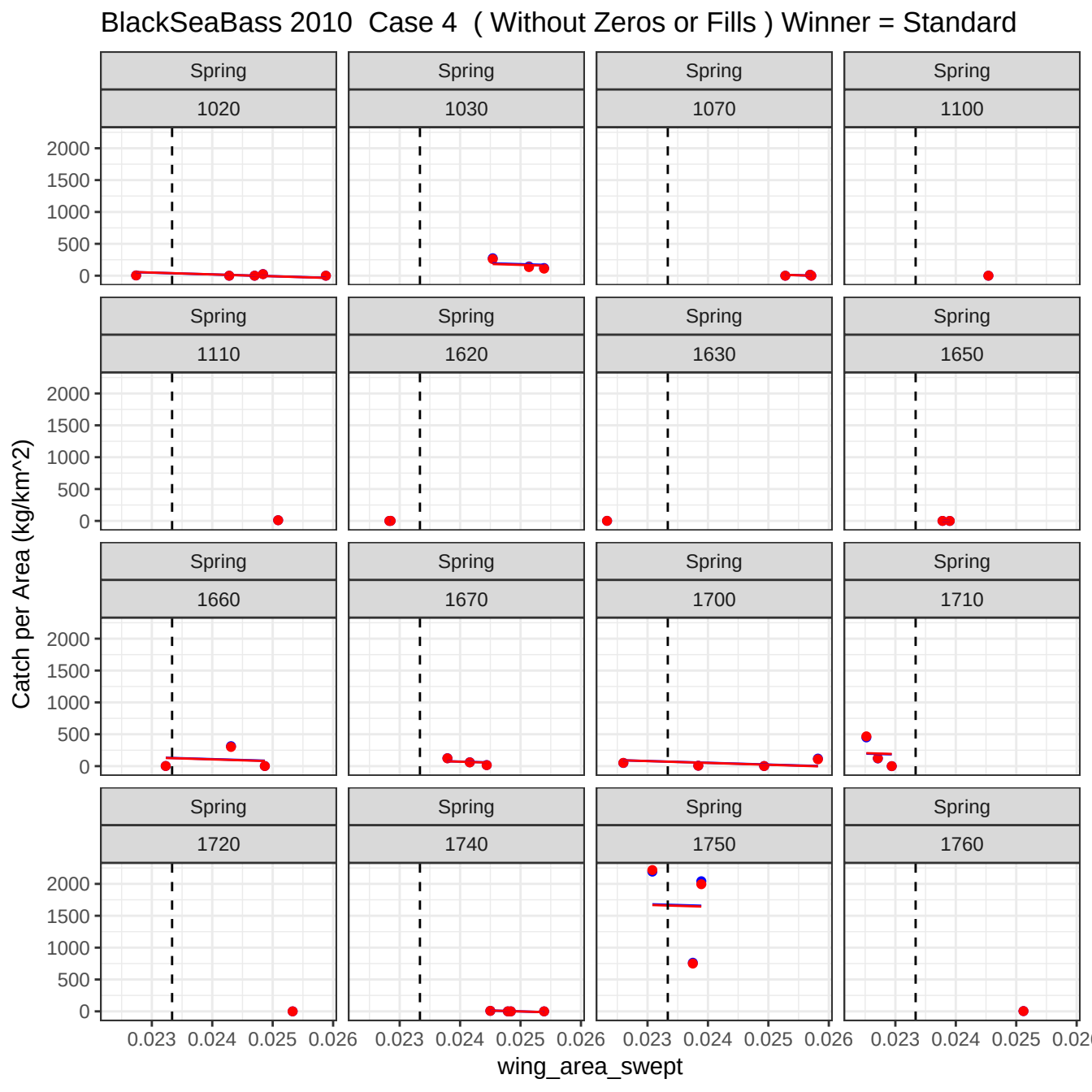

Redfish 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1400
15000
10000
5000
0
0.0240.0270.030
Catch per Area (kg/km^2)
wing_area_swept

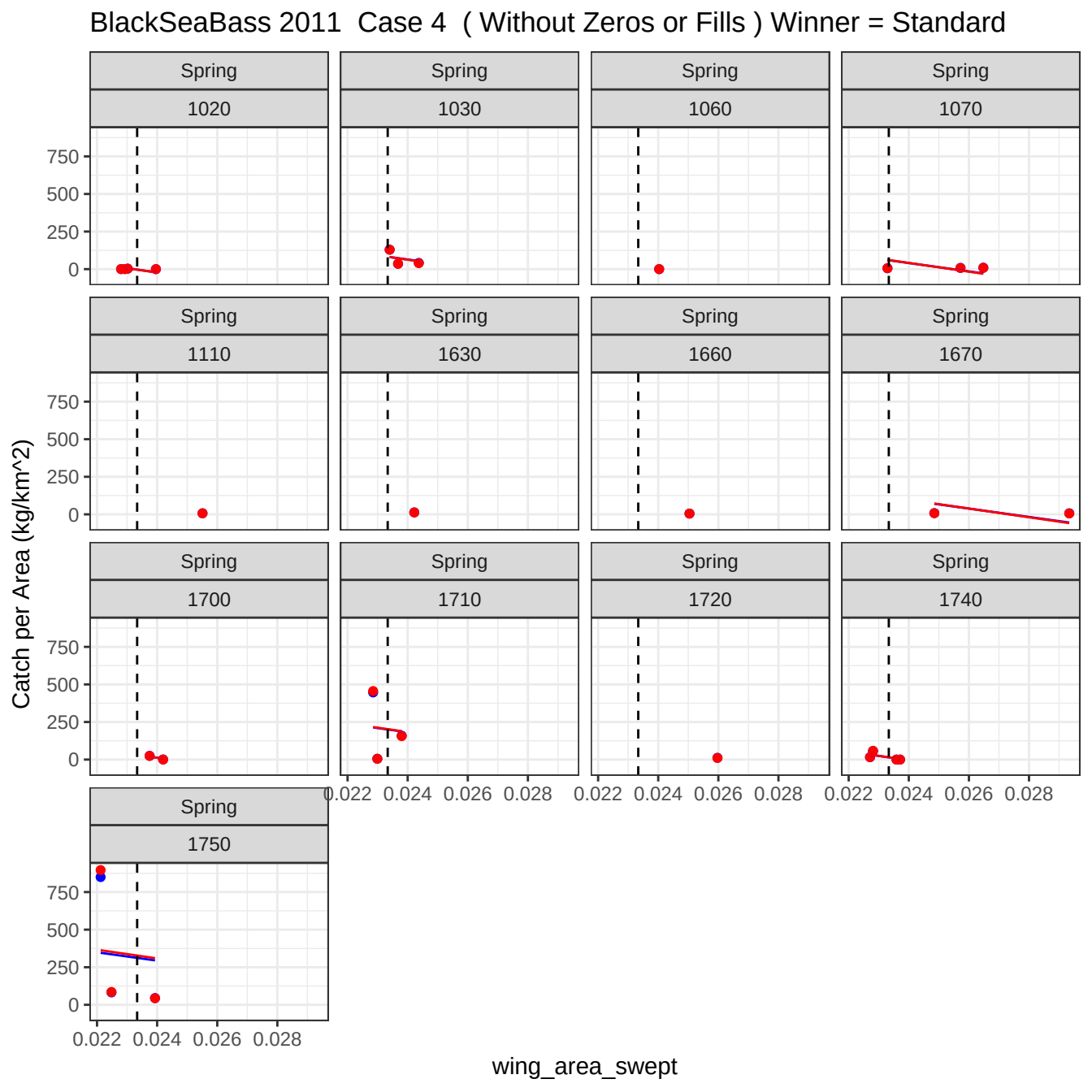

Redfish 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1240
1260
1270
1280
1290
1300
1360
1370
1380
1400
Fall
1240
1260
1270
1280
1290
1300
1360
1370
1380
1390
1400
40000
30000
20000
10000
0
0.021
0.024
0.027
0.030
0.033
Catch per Area (kg/km^2)
wing_area_swept

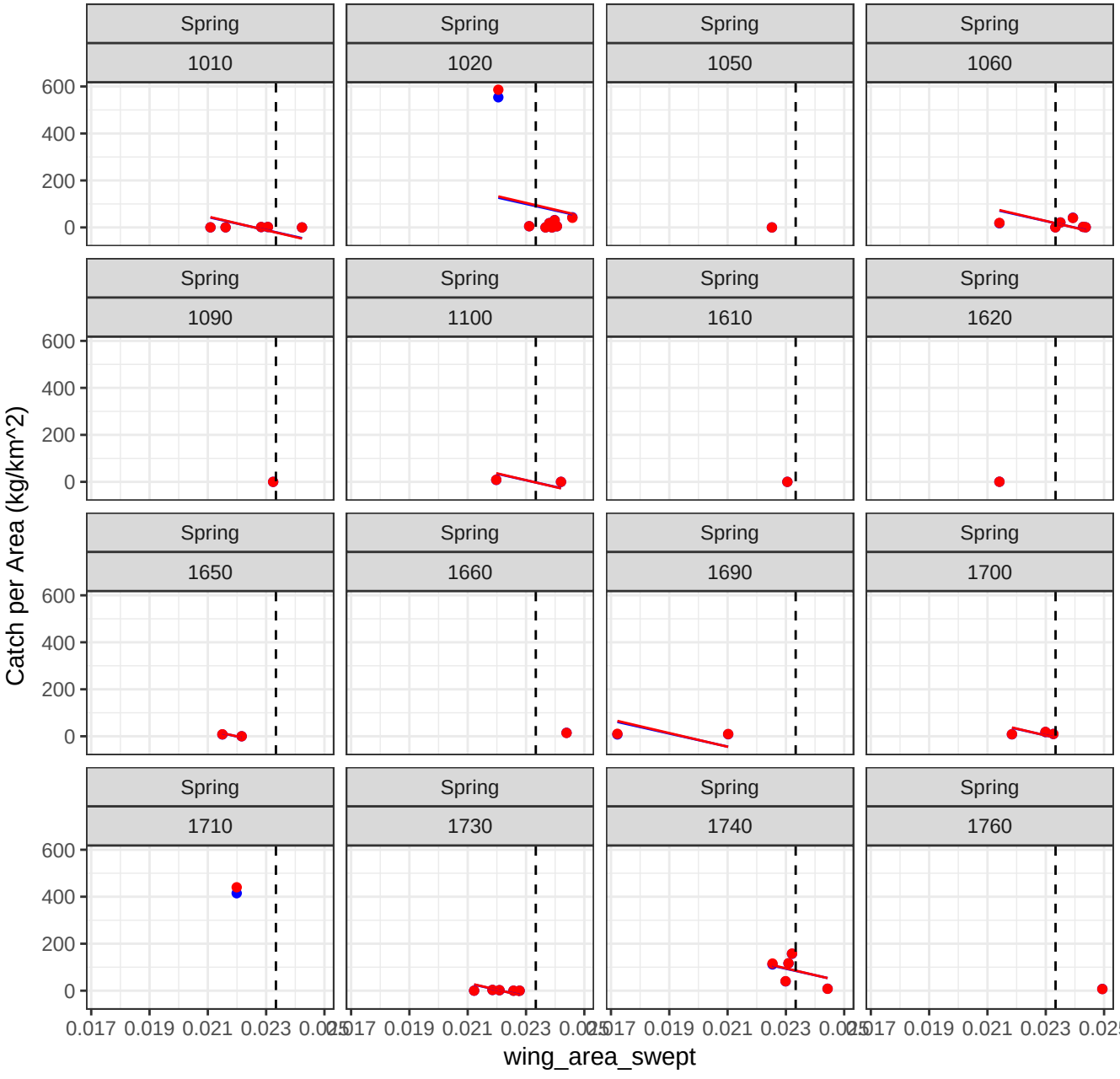

Redfish 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
30000
20000
10000
0
0.02250.02500.02750.0300
Catch per Area (kg/km^2)
wing_area_swept

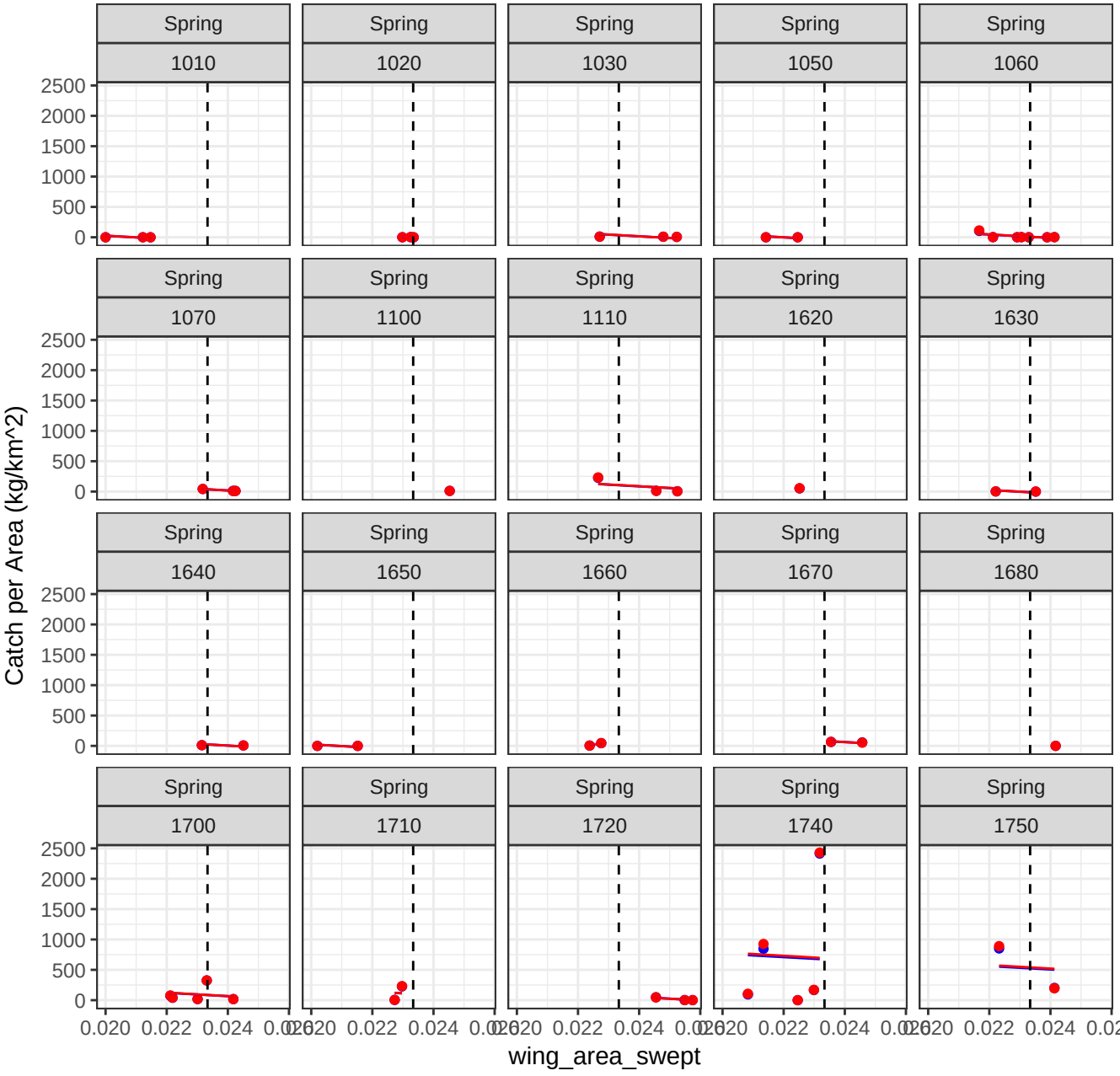

Redfish 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1400
Catch per Area (kg/km^2)
0
5000
10000
15000
0.020 0.024 0.028 0.032
wing_area_swept

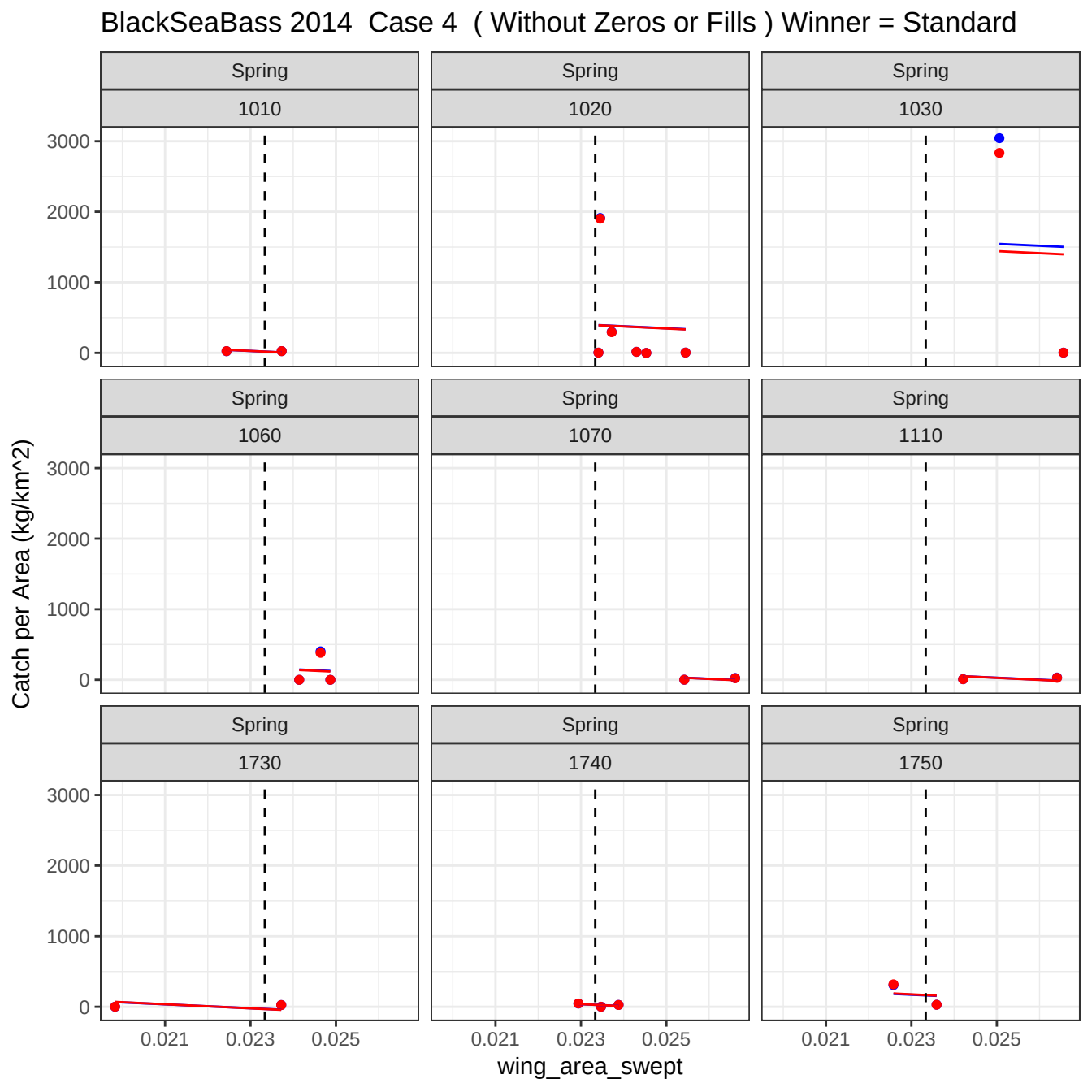

BlackSeaBass 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
1020
1030
1050
1060
1070
1100
1110
1610
1620
1650
1660
1680
1700
1710
1740
1750
Catch per Area (kg/km^2)
wing_area_swept
0
100
200
300
0.022
0.024
0.026
0.028

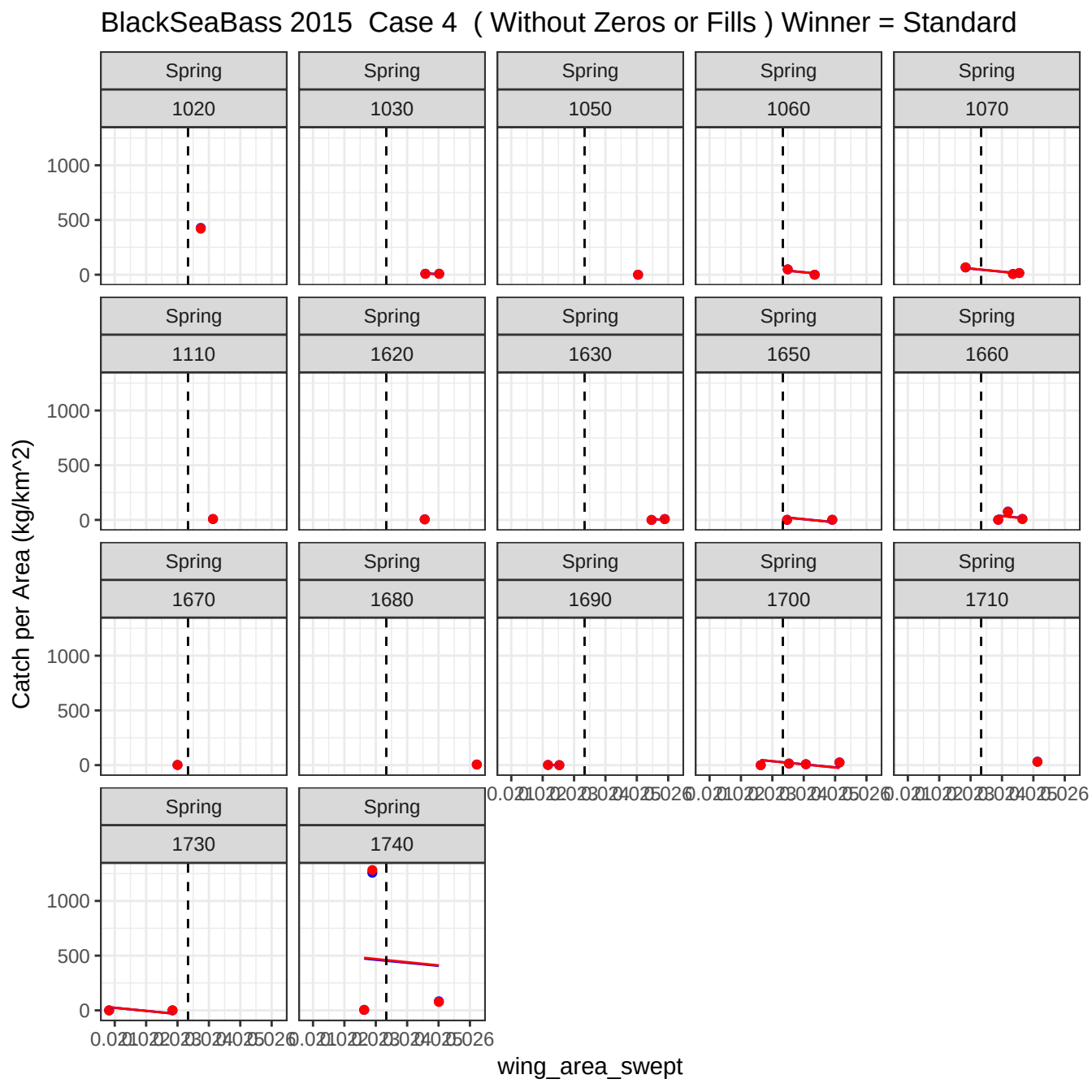

BlackSeaBass 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1020
1030
1070
1100
1110
1620
1630
1650
1660
1670
1700
1710
1720
1740
1750
1760
2000
1500
1000
500
0
0.023
0.024
0.025
0.026
Catch per Area (kg/km^2)
wing_area_swept

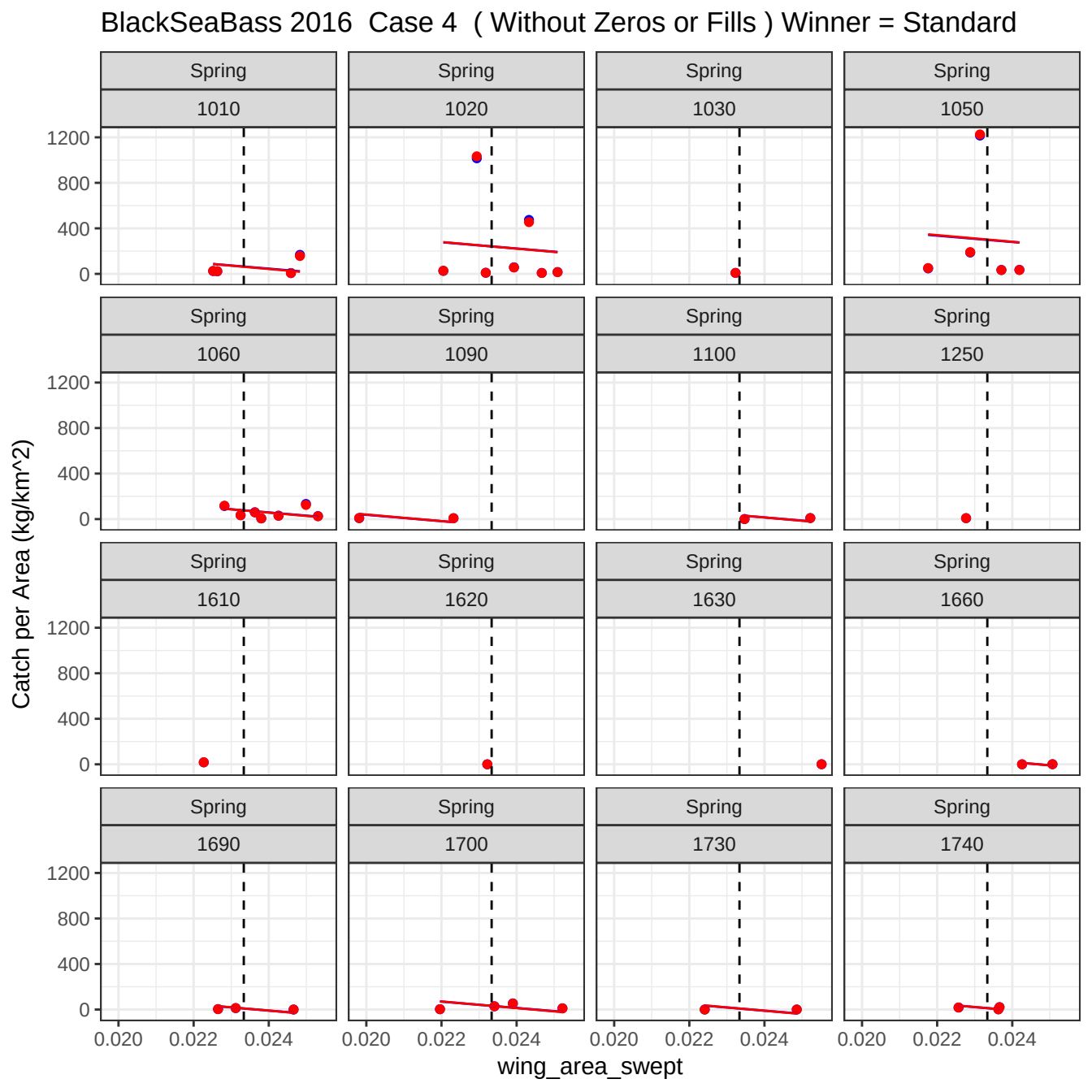

BlackSeaBass 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1020
1030
1060
1070
1110
1630
1660
1670
1700
1710
1720
1740
1750
Catch per Area (kg/km^2)
wing_area_swept
0
250
500
750
0.022
0.024
0.026
0.028

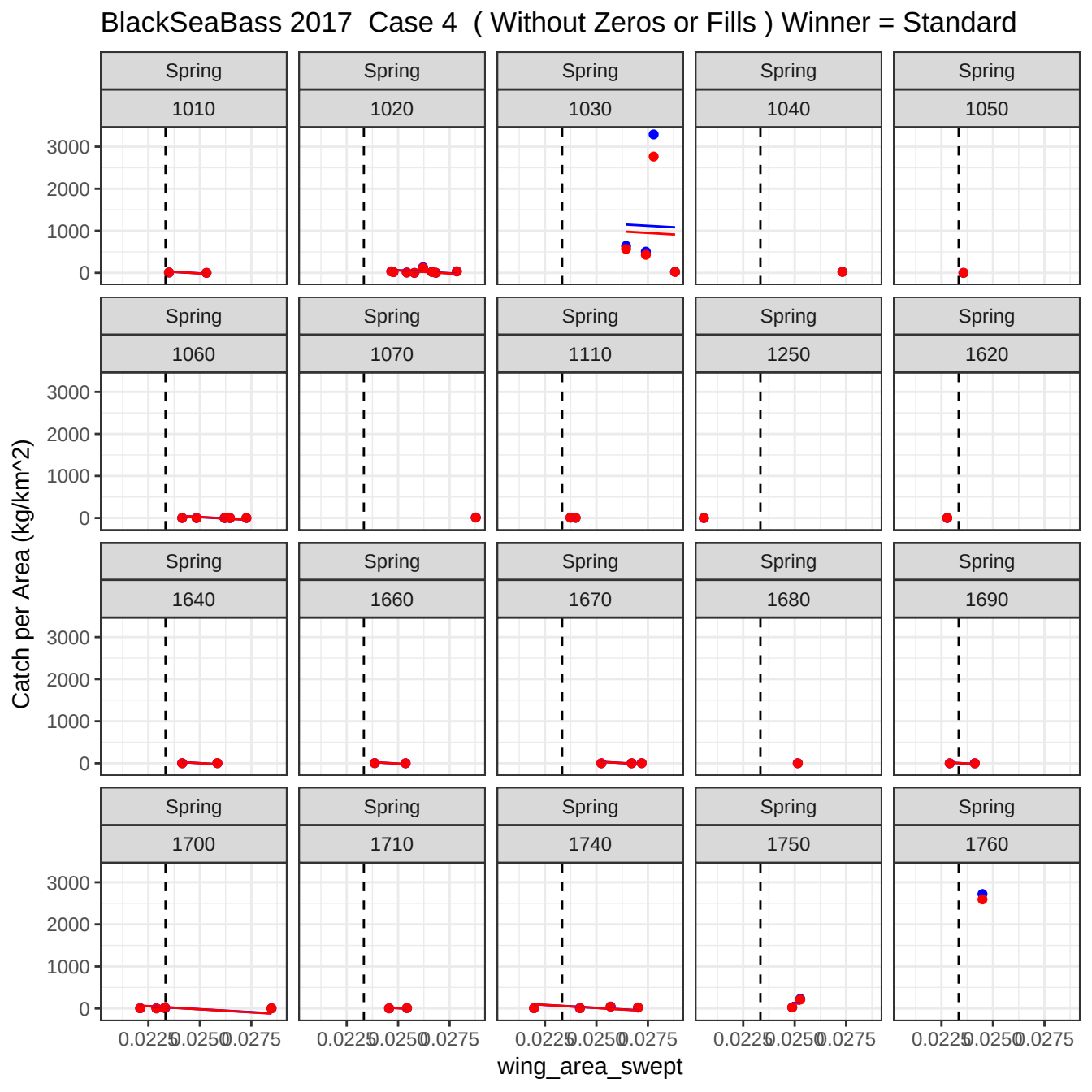

BlackSeaBass 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
1020
1050
1060
1090
1100
1610
1620
1650
1660
1690
1700
1710
1730
1740
1760
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
0.017
0.019
0.021
0.023
0.025

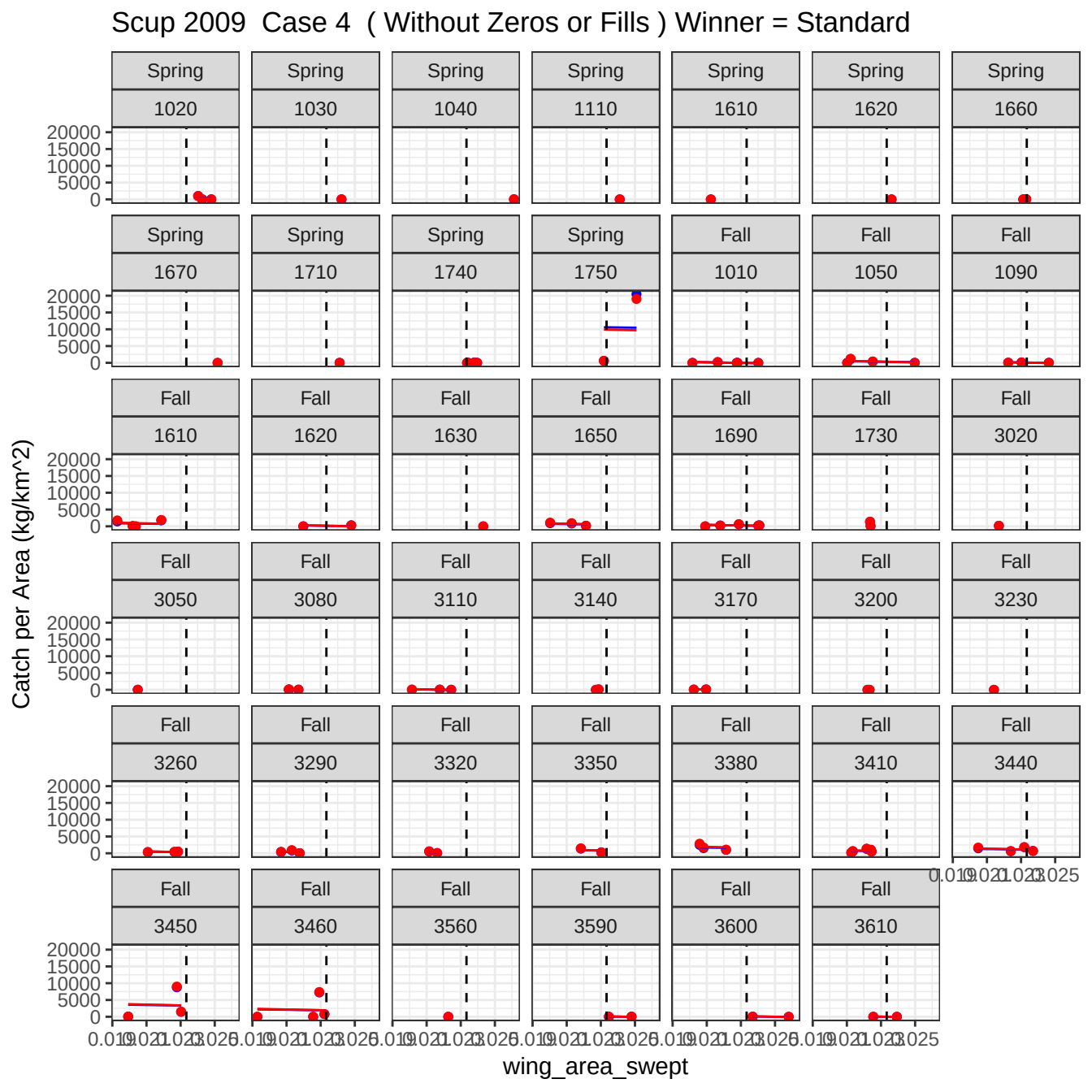

BlackSeaBass 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
1020
1030
1050
1060
1070
1100
1110
1620
1630
1640
1650
1660
1670
1680
1700
1710
1720
1740
1750
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
2000
2500
0.020
0.022
0.024


BlackSeaBass 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
1020
1030
1060
1070
1110
1730
1740
1750
3000
2000
1000
0
0.021
0.023
0.025
Catch per Area (kg/km^2)
wing_area_swept


BlackSeaBass 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1020
1030
1050
1060
1070
1110
1620
1630
1650
1660
1670
1680
1690
1700
1710
1730
1740
Catch per Area (kg/km^2)
wing_area_swept


BlackSeaBass 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
1020
1030
1050
1060
1090
1100
1250
1610
1620
1630
1660
1690
1700
1730
1740
1200
800
400
0
0.020
0.022
0.024
Catch per Area (kg/km^2)
wing_area_swept


BlackSeaBass 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
1020
1030
1040
1050
1060
1070
1110
1250
1620
1640
1660
1670
1680
1690
1700
1710
1740
1750
1760
3000
2000
1000
0
0.0225
0.0250
0.0275
Catch per Area (kg/km^2)
wing_area_swept

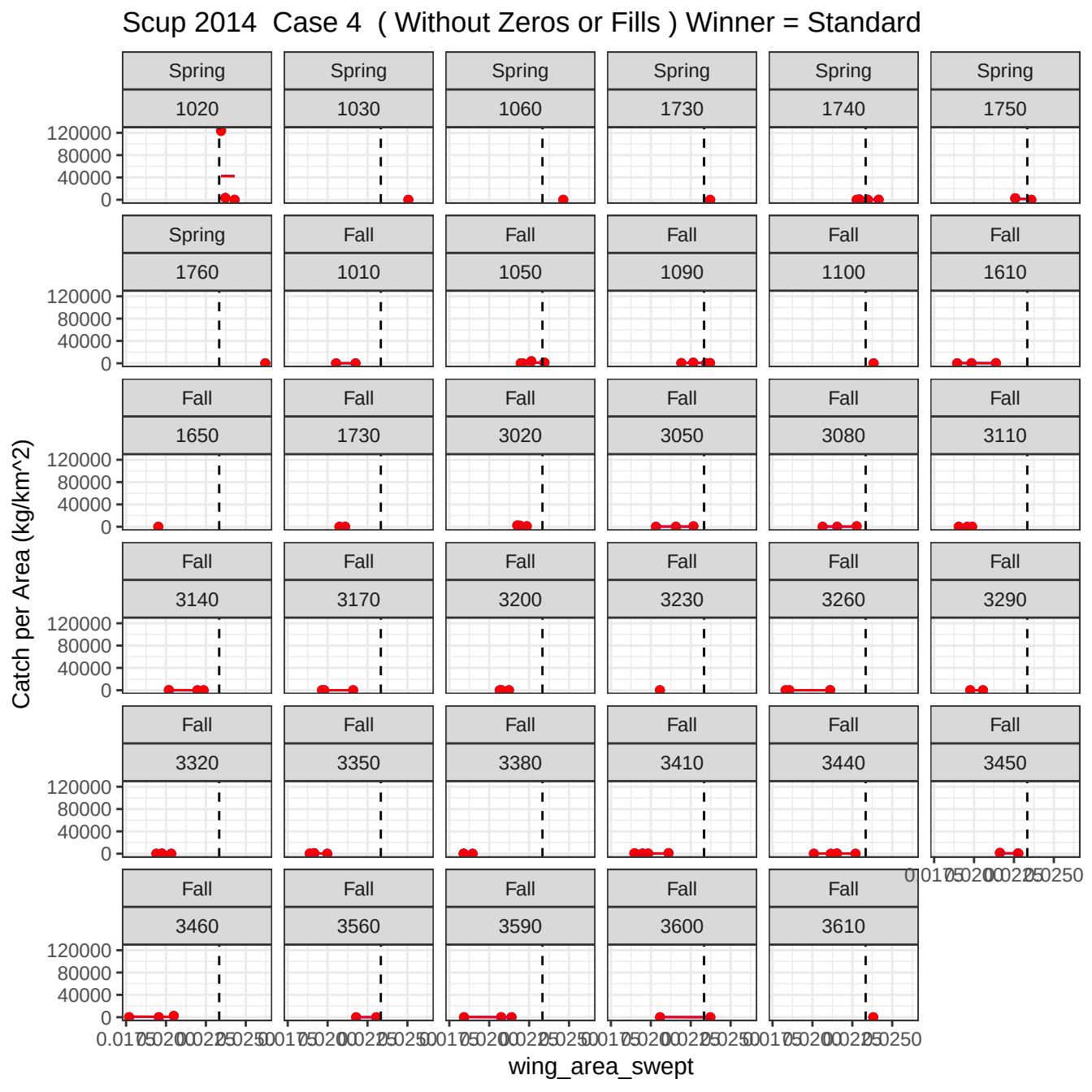

Scup 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1020
Spring 1030
Spring 1040
Spring 1110
Spring 1610
Spring 1620
Spring 1660
Spring 1670
Spring 1710
Spring 1740
Spring 1750
Fall 1010
Fall 1050
Fall 1090
Fall 1610
Fall 1620
Fall 1630
Fall 1650
Fall 1690
Fall 1730
Fall 3020
Fall 3050
Fall 3080
Fall 3110
Fall 3140
Fall 3170
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3560
Fall 3590
Fall 3600
Fall 3610
Catch per Area (kg/km^2)
0
5000
10000
15000
20000
wing_area_swept
0.019
0.021
0.023
0.025

Scup 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1020
Spring 1030
Spring 1040
Spring 1060
Spring 1610
Spring 1620
Spring 1630
Spring 1640
Spring 1650
Spring 1660
Spring 1670
Spring 1680
Spring 1700
Spring 1710
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1050
Fall 1060
Fall 1090
Fall 1100
Fall 1610
Fall 1650
Fall 1690
Fall 3020
Fall 3080
Fall 3110
Fall 3140
Fall 3170
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3560
Catch per Area (kg/km^2)
40000
30000
20000
10000
0
wing_area_swept

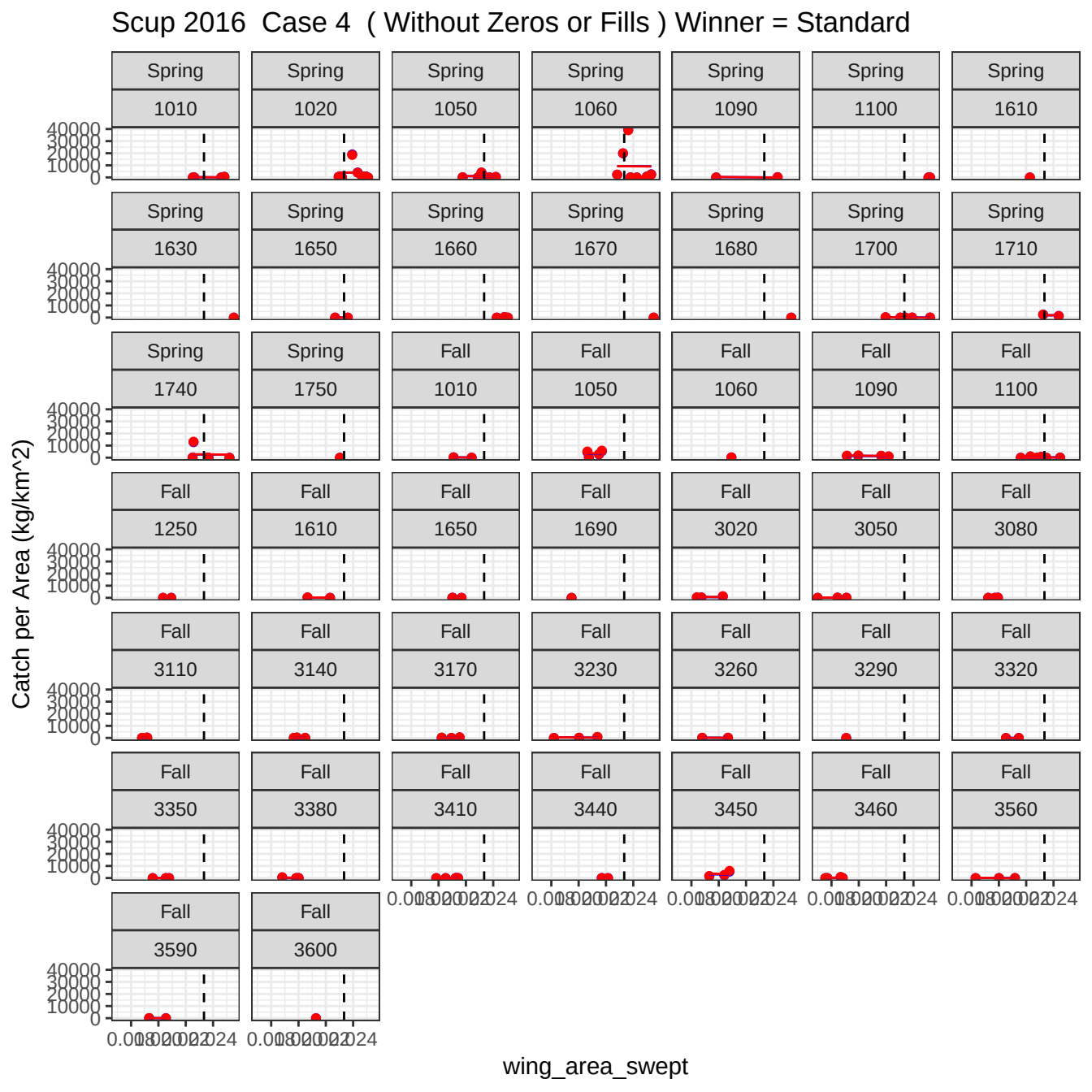
Scup 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1020
Spring 1030
Spring 1040
Spring 1620
Spring 1630
Spring 1660
Spring 1670
Spring 1700
Spring 1710
Spring 1720
Spring 1740
Spring 1750
Fall 1010
Fall 1020
Fall 1050
Fall 1090
Fall 1610
Fall 1620
Fall 1730
Fall 3020
Fall 3050
Fall 3080
Fall 3110
Fall 3140
Fall 3170
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3590
Fall 3600
Fall 3610
Catch per Area (kg/km^2)
0
5000
10000
15000
20000
0.020
0.025
0.030
wing_area_swept

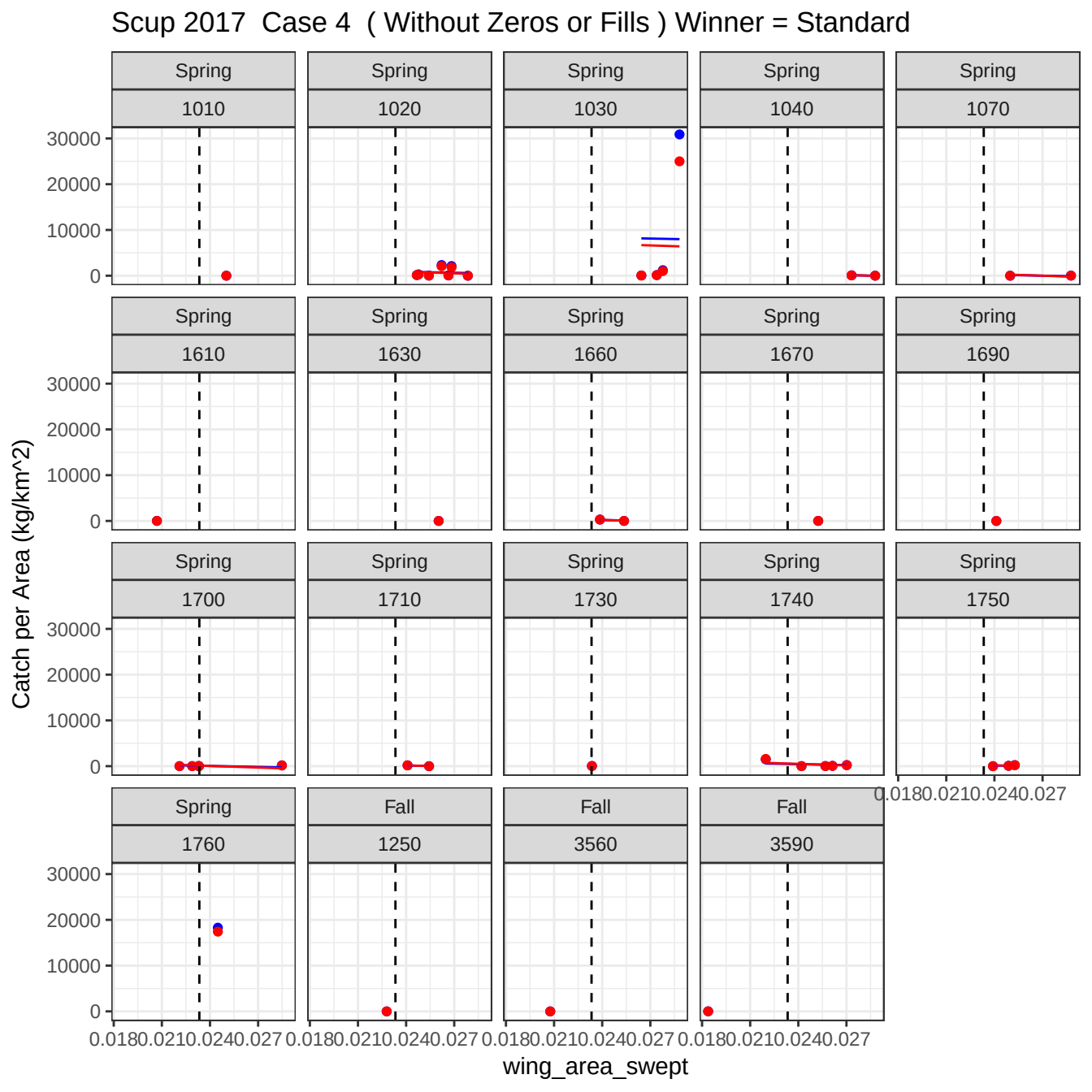
Scup 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1050
Spring 1060
Spring 1610
Spring 1620
Spring 1650
Spring 1660
Spring 1690
Spring 1700
Spring 1710
Spring 1730
Spring 1740
Fall 1010
Fall 1050
Fall 1060
Fall 1090
Fall 1100
Fall 1610
Fall 1650
Fall 3020
Fall 3050
Fall 3080
Fall 3110
Fall 3140
Fall 3170
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3590
Fall 3600
Fall 3610
10000
7500
5000
2500
0
0.015
0.018
0.021
0.024
Catch per Area (kg/km^2)
wing_area_swept

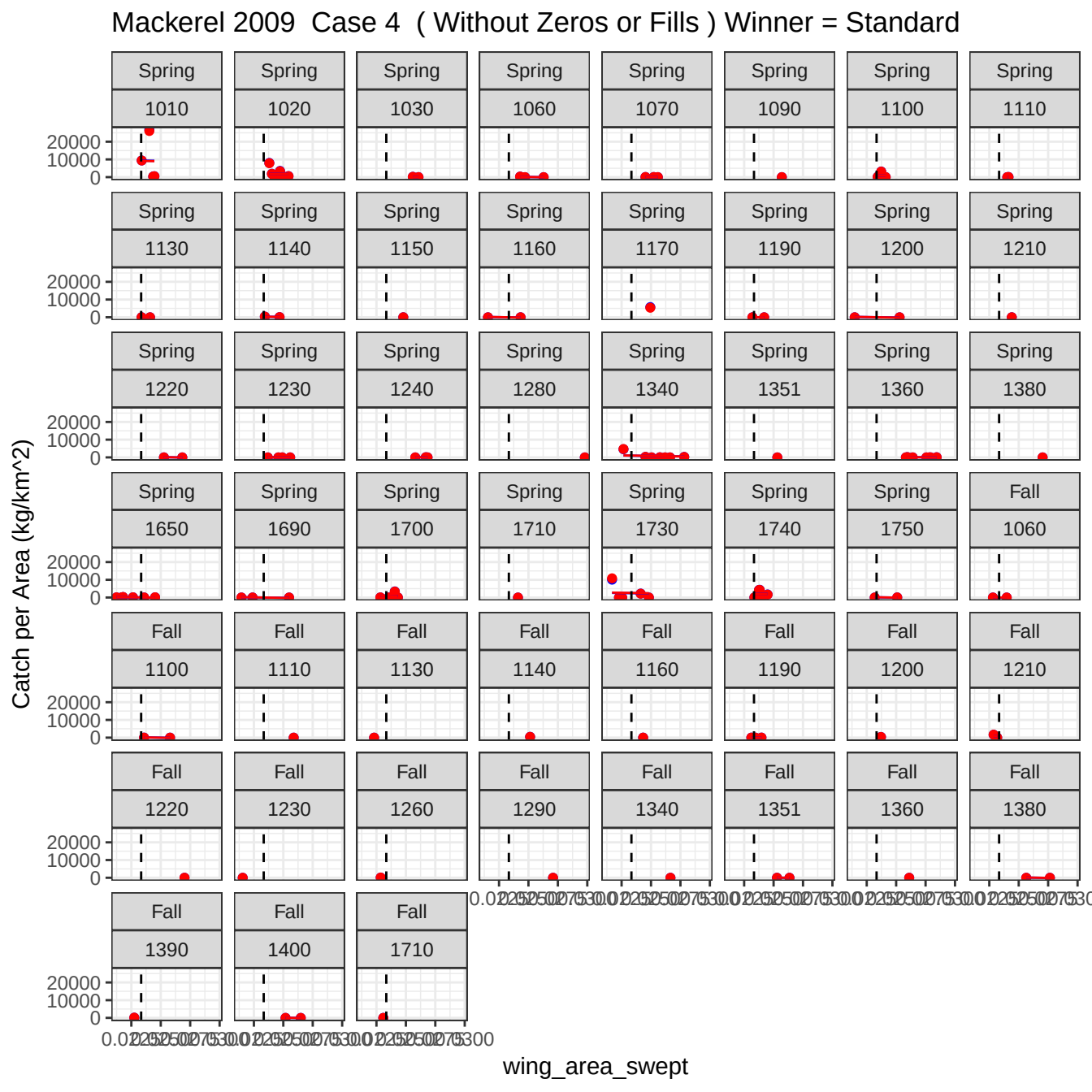
Scup 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1020
Spring 1030
Spring 1040
Spring 1060
Spring 1070
Spring 1080
Spring 1610
Spring 1620
Spring 1630
Spring 1650
Spring 1660
Spring 1670
Spring 1690
Spring 1700
Spring 1710
Spring 1740
Spring 1750
Spring 1760
Fall 1050
Fall 1060
Fall 1090
Fall 1230
Fall 1650
Fall 3020
Fall 3050
Fall 3080
Fall 3110
Fall 3140
Fall 3170
Fall 3200
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3560
Fall 3590
Fall 3600
Fall 3610
Catch per Area (kg/km^2)
0
2000
4000
6000
wing_area_swept
0.016
0.020
0.024
0.028

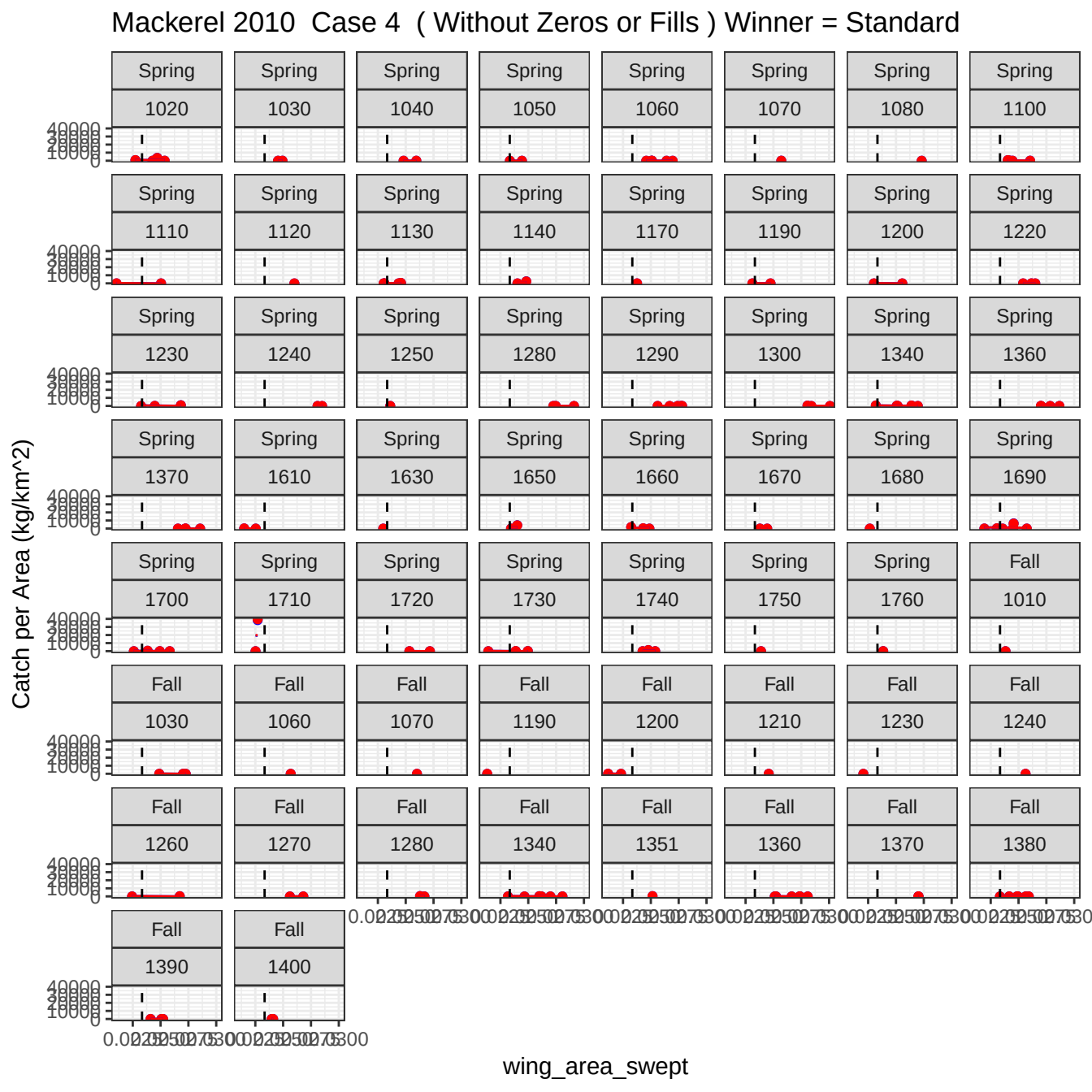

Scup 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1020
Spring 1030
Spring 1060
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1050
Fall 1090
Fall 1100
Fall 1610
Fall 1650
Fall 1730
Fall 3020
Fall 3050
Fall 3080
Fall 3110
Fall 3140
Fall 3170
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3560
Fall 3590
Fall 3600
Fall 3610
120000
80000
40000
0
Catch per Area (kg/km^2)
wing_area_swept

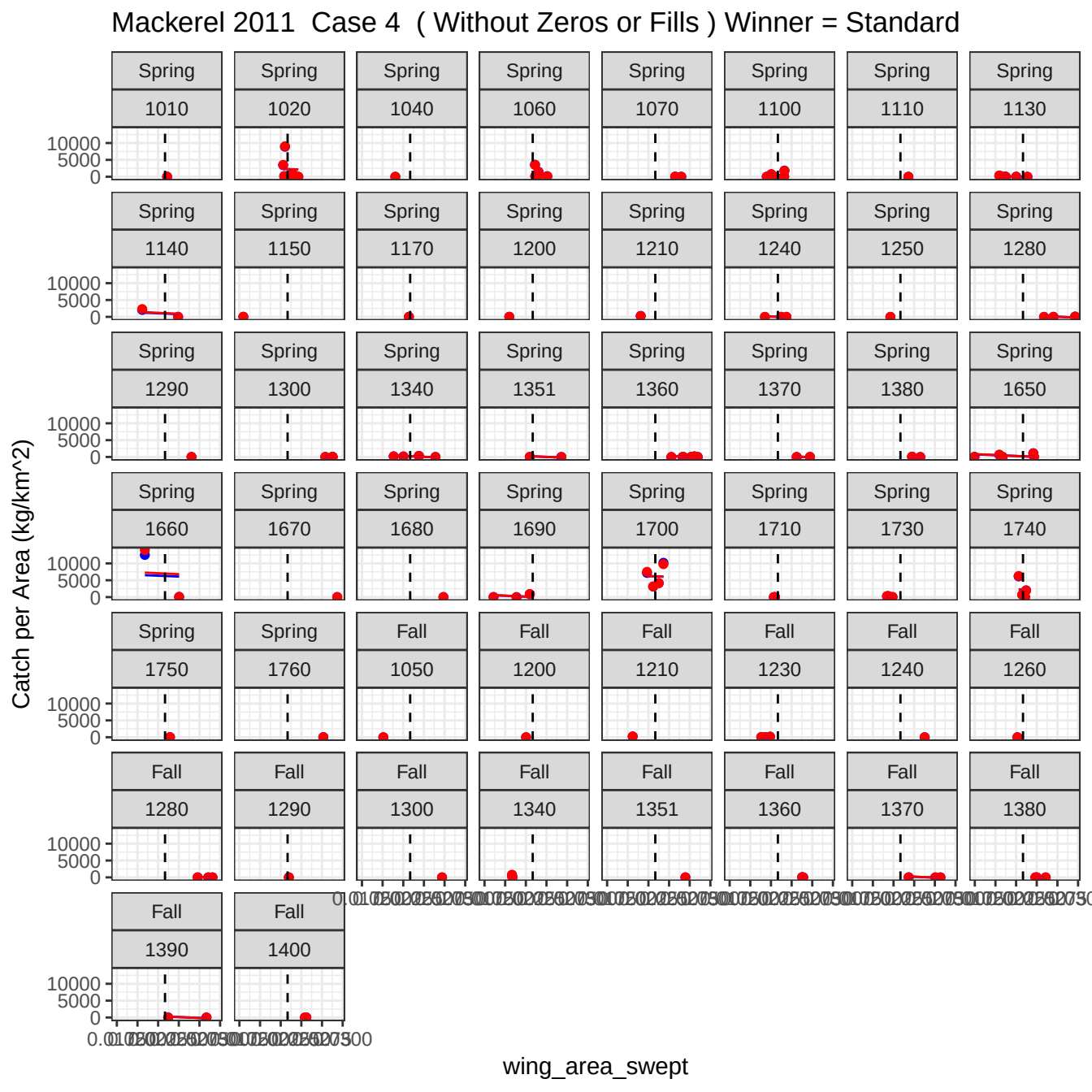
Scup 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1060
Spring 1070
Spring 1620
Spring 1660
Spring 1670
Spring 1700
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1050
Fall 1090
Fall 1610
Fall 1650
Fall 1690
Fall 3020
Fall 3050
Fall 3080
Fall 3110
Fall 3140
Fall 3170
Fall 3200
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3560
Fall 3590
Fall 3600
30000
20000
10000
0
Catch per Area (kg/km^2)
wing_area_swept

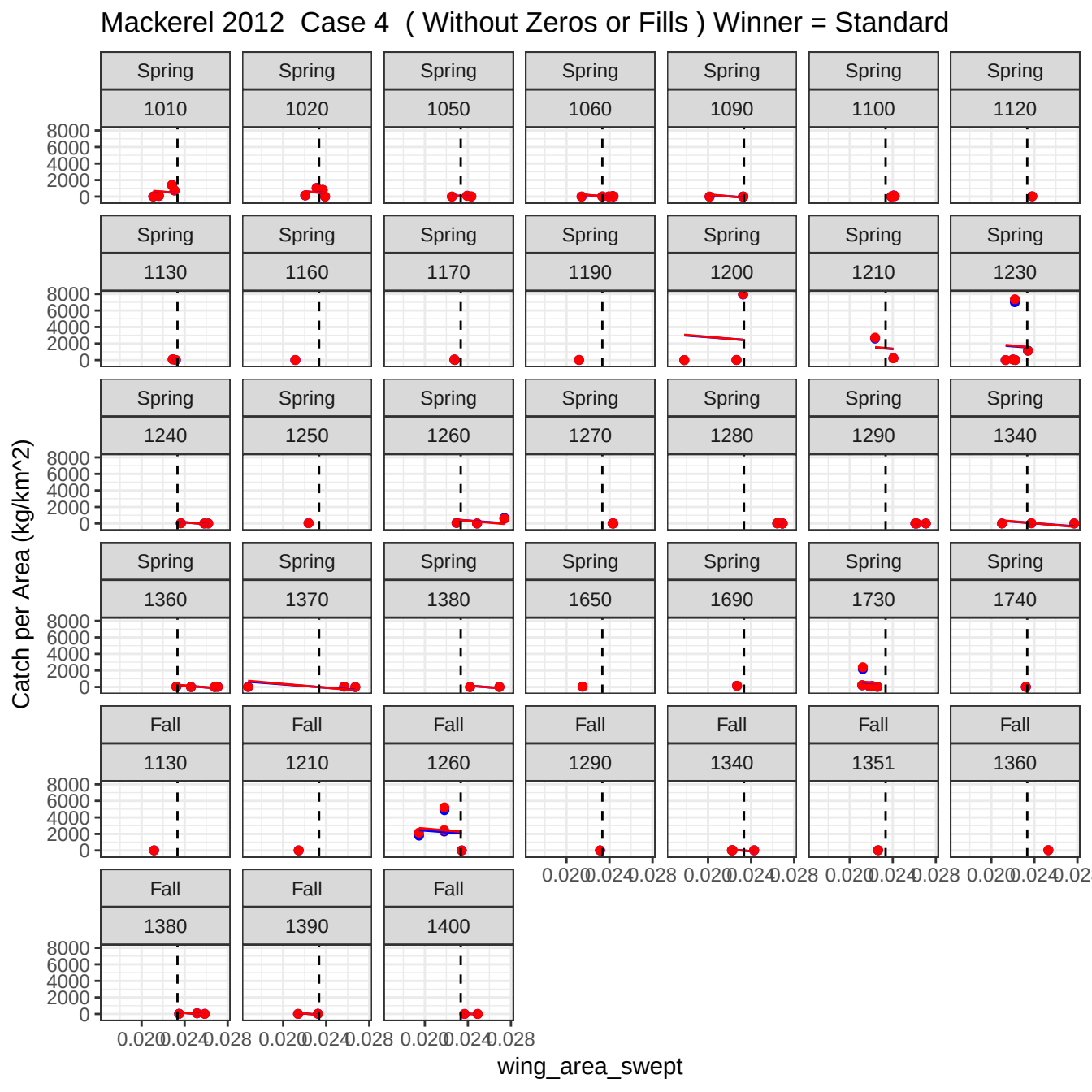

Scup 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1050
Spring 1060
Spring 1090
Spring 1100
Spring 1610
Spring 1630
Spring 1650
Spring 1660
Spring 1670
Spring 1680
Spring 1700
Spring 1710
Spring 1740
Spring 1750
Fall 1010
Fall 1050
Fall 1060
Fall 1090
Fall 1100
Fall 1250
Fall 1610
Fall 1650
Fall 1690
Fall 3020
Fall 3050
Fall 3080
Fall 3110
Fall 3140
Fall 3170
Fall 3230
Fall 3260
Fall 3290
Fall 3320
Fall 3350
Fall 3380
Fall 3410
Fall 3440
Fall 3450
Fall 3460
Fall 3560
Fall 3590
Fall 3600
40000
30000
20000
10000
0
0.018
0.020
0.022
0.024
Catch per Area (kg/km^2)
wing_area_swept

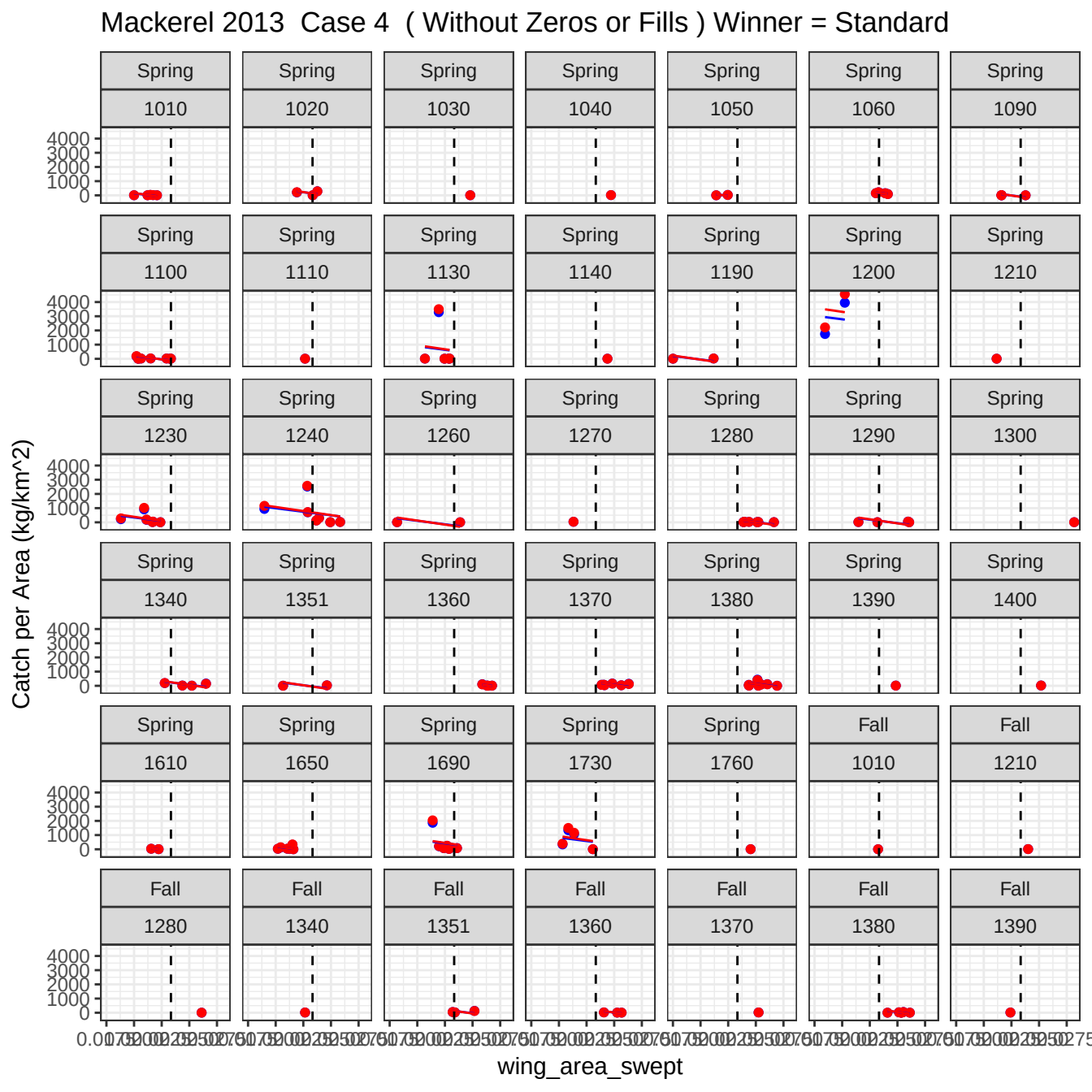

Scup 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
1020
1030
1040
1070
1610
1630
1660
1670
1690
1700
1710
1730
1740
1750
1760
Fall
1250
3560
3590
Catch per Area (kg/km^2)
wing_area_swept
0
10000
20000
30000
0.018
0.021
0.024
0.027

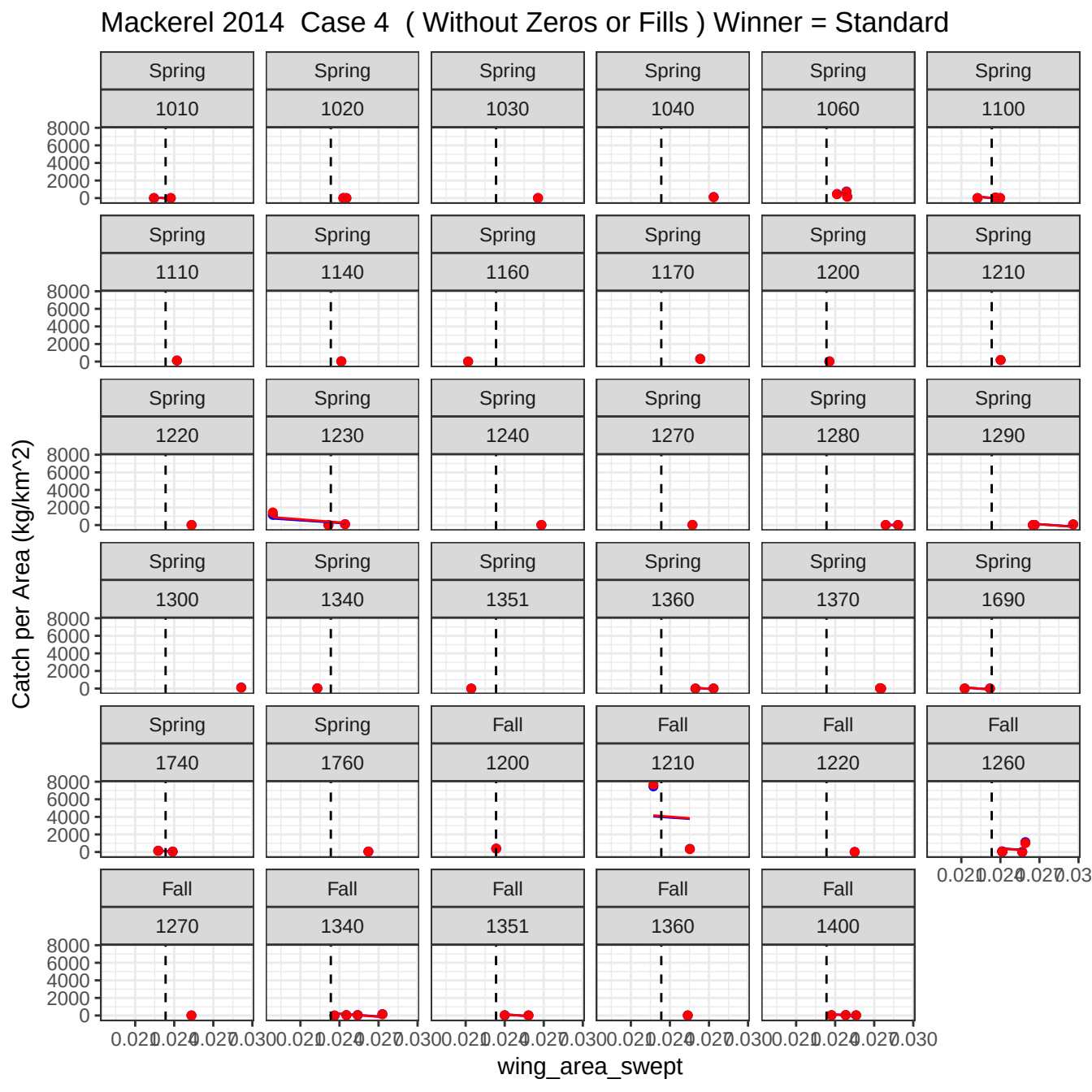

Mackerel 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1060
Spring 1070
Spring 1090
Spring 1100
Spring 1110
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1280
Spring 1340
Spring 1351
Spring 1360
Spring 1380
Spring 1650
Spring 1690
Spring 1700
Spring 1710
Spring 1730
Spring 1740
Spring 1750
Fall 1060
Fall 1100
Fall 1110
Fall 1130
Fall 1140
Fall 1160
Fall 1190
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1260
Fall 1290
Fall 1340
Fall 1351
Fall 1360
Fall 1380
Fall 1390
Fall 1400
Fall 1710
20000
10000
0
Catch per Area (kg/km^2)
wing_area_swept


Mackerel 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1070
Spring 1080
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1140
Spring 1170
Spring 1190
Spring 1200
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1360
Spring 1370
Spring 1610
Spring 1630
Spring 1650
Spring 1660
Spring 1670
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1720
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 1010
Fall 1030
Fall 1060
Fall 1070
Fall 1190
Fall 1200
Fall 1210
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1340
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept


Mackerel 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1040
Spring 1060
Spring 1070
Spring 1100
Spring 1110
Spring 1130
Spring 1140
Spring 1150
Spring 1170
Spring 1200
Spring 1210
Spring 1240
Spring 1250
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1351
Spring 1360
Spring 1370
Spring 1380
Spring 1650
Spring 1660
Spring 1670
Spring 1680
Spring 1690
Spring 1700
Spring 1710
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 1050
Fall 1200
Fall 1210
Fall 1230
Fall 1240
Fall 1260
Fall 1280
Fall 1290
Fall 1300
Fall 1340
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
10000
5000
0
Catch per Area (kg/km^2)
wing_area_swept


Mackerel 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1050
Spring 1060
Spring 1090
Spring 1100
Spring 1120
Spring 1130
Spring 1160
Spring 1170
Spring 1190
Spring 1200
Spring 1210
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1340
Spring 1360
Spring 1370
Spring 1380
Spring 1650
Spring 1690
Spring 1730
Spring 1740
Fall 1130
Fall 1210
Fall 1260
Fall 1290
Fall 1340
Fall 1351
Fall 1360
Fall 1380
Fall 1390
Fall 1400
0
2000
4000
6000
8000
0.020
0.024
0.028
Catch per Area (kg/km^2)
wing_area_swept


Mackerel 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1050
Spring 1060
Spring 1090
Spring 1100
Spring 1110
Spring 1130
Spring 1140
Spring 1190
Spring 1200
Spring 1210
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1351
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Spring 1610
Spring 1650
Spring 1690
Spring 1730
Spring 1760
Fall 1010
Fall 1210
Fall 1280
Fall 1340
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Catch per Area (kg/km^2)
0
1000
2000
3000
4000
wing_area_swept


Mackerel 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
Spring 1060
Spring 1100
Spring 1110
Spring 1140
Spring 1160
Spring 1170
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1340
Spring 1351
Spring 1360
Spring 1370
Spring 1690
Spring 1740
Spring 1760
Fall 1200
Fall 1210
Fall 1220
Fall 1260
Fall 1270
Fall 1340
Fall 1351
Fall 1360
Fall 1400
Catch per Area (kg/km^2)
0
2000
4000
6000
8000
0.021
0.024
0.027
0.030
wing_area_swept

Mackerel 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1020
Spring 1060
Spring 1070
Spring 1080
Spring 1090
Spring 1100
Spring 1110
Spring 1120
Spring 1130
Spring 1160
Spring 1170
Spring 1190
Spring 1200
Spring 1210
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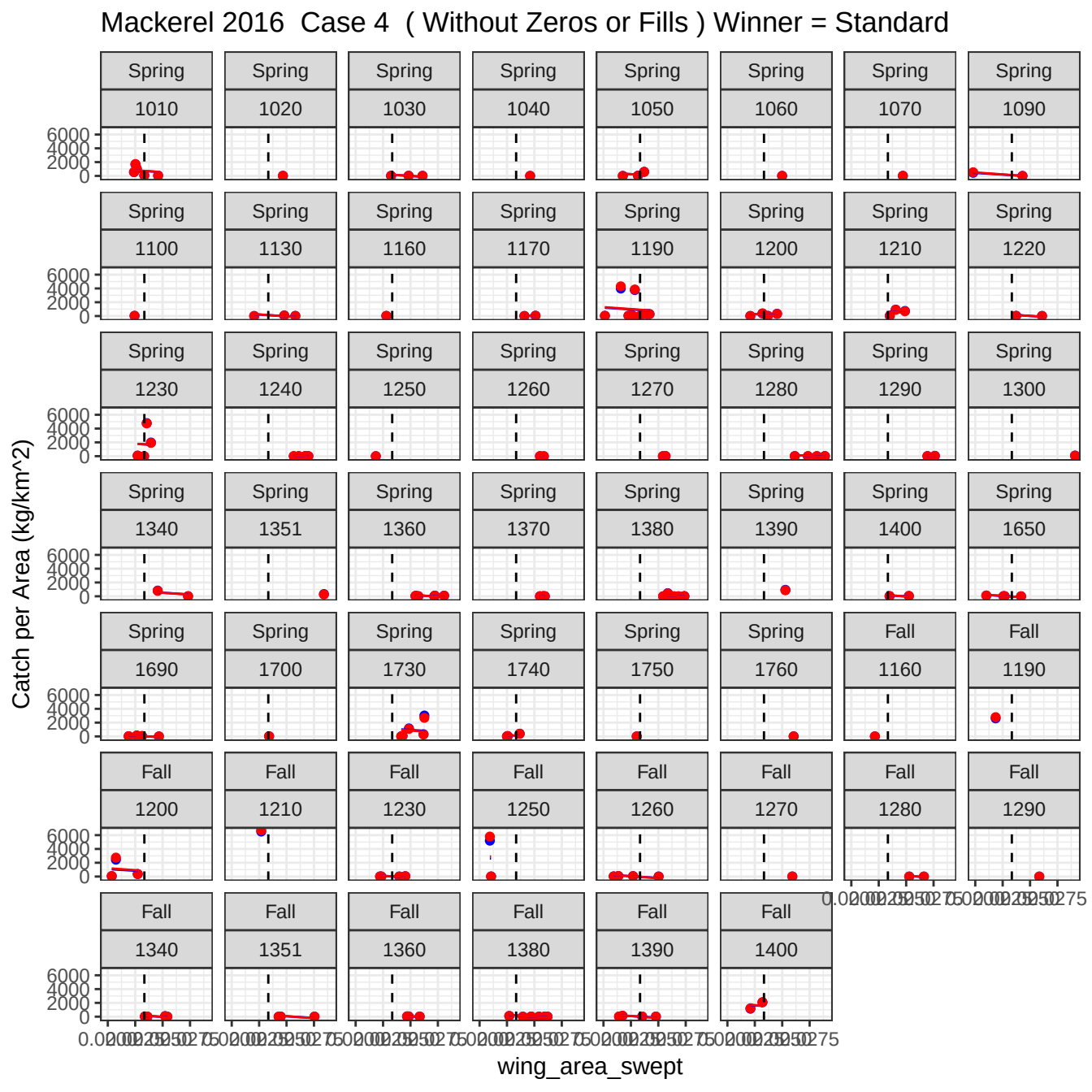
Spring 1290
Spring 1300
Spring 1340
Spring 1360
Spring 1370
Spring 1380
Spring 1610
Spring 1620
Spring 1660
Spring 1690
Spring 1700
Spring 1710
Spring 1740
Fall 1010
Fall 1060
Fall 1160
Fall 1190
Fall 1200
Fall 1210
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1340
Fall 1351
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
75000
50000
25000
0
Catch per Area (kg/km^2)
wing_area_swept


Mackerel 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1030
Spring 1040
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Spring 1060
Spring 1070
Spring 1090
Spring 1100
Spring 1130
Spring 1160
Spring 1170
Spring 1190
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Spring 1351
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Spring 1370
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Spring 1400
Spring 1650
Spring 1690
Spring 1700
Spring 1730
Spring 1740
Spring 1750
Spring 1760
Fall 1160
Fall 1190
Fall 1200
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Fall 1260
Fall 1270
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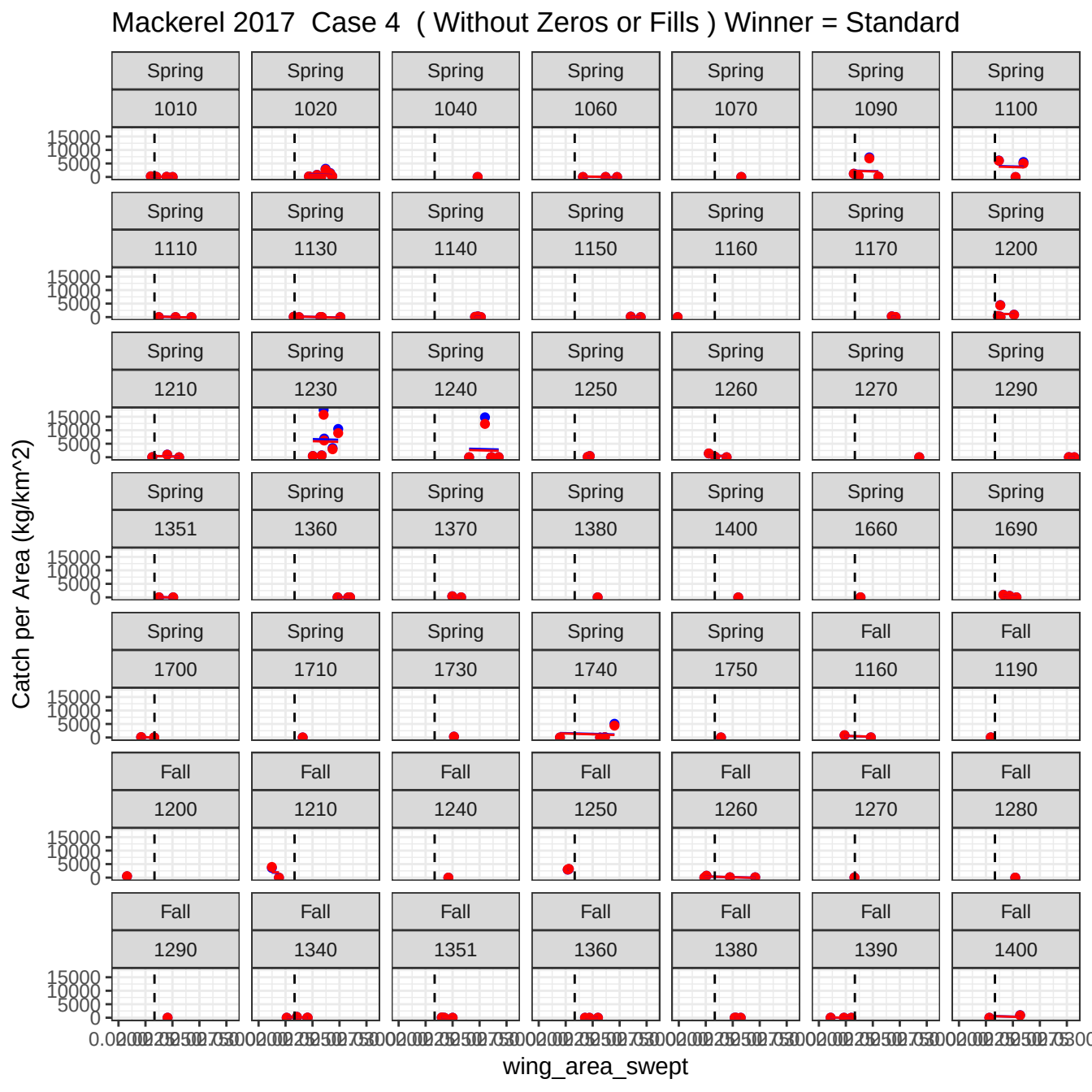
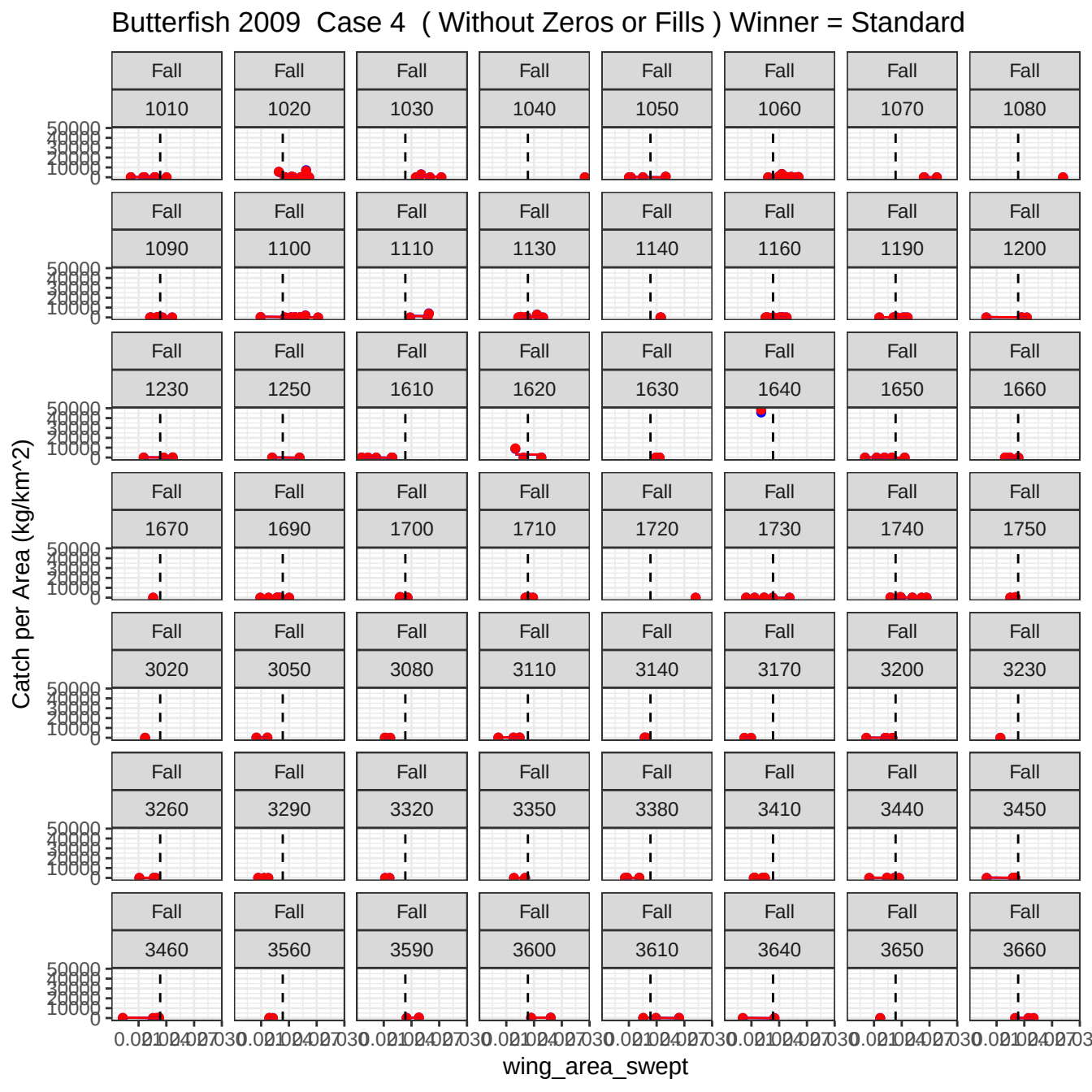
Fall 1290
Fall 1340
Fall 1351
Fall 1360
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept


Mackerel 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1040
Spring 1060
Spring 1070
Spring 1090
Spring 1100
Spring 1110
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1200
Spring 1210
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1290
Spring 1351
Spring 1360
Spring 1370
Spring 1380
Spring 1400
Spring 1660
Spring 1690
Spring 1700
Spring 1710
Spring 1730
Spring 1740
Spring 1750
Fall 1160
Fall 1190
Fall 1200
Fall 1210
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1340
Fall 1351
Fall 1360
Fall 1380
Fall 1390
Fall 1400
15000
10000
5000
0
Catch per Area (kg/km^2)
wing_area_swept


Butterfish 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1020
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1090
1100
1110
1130
1140
1160
1190
1200
1230
1250
1610
1620
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3020
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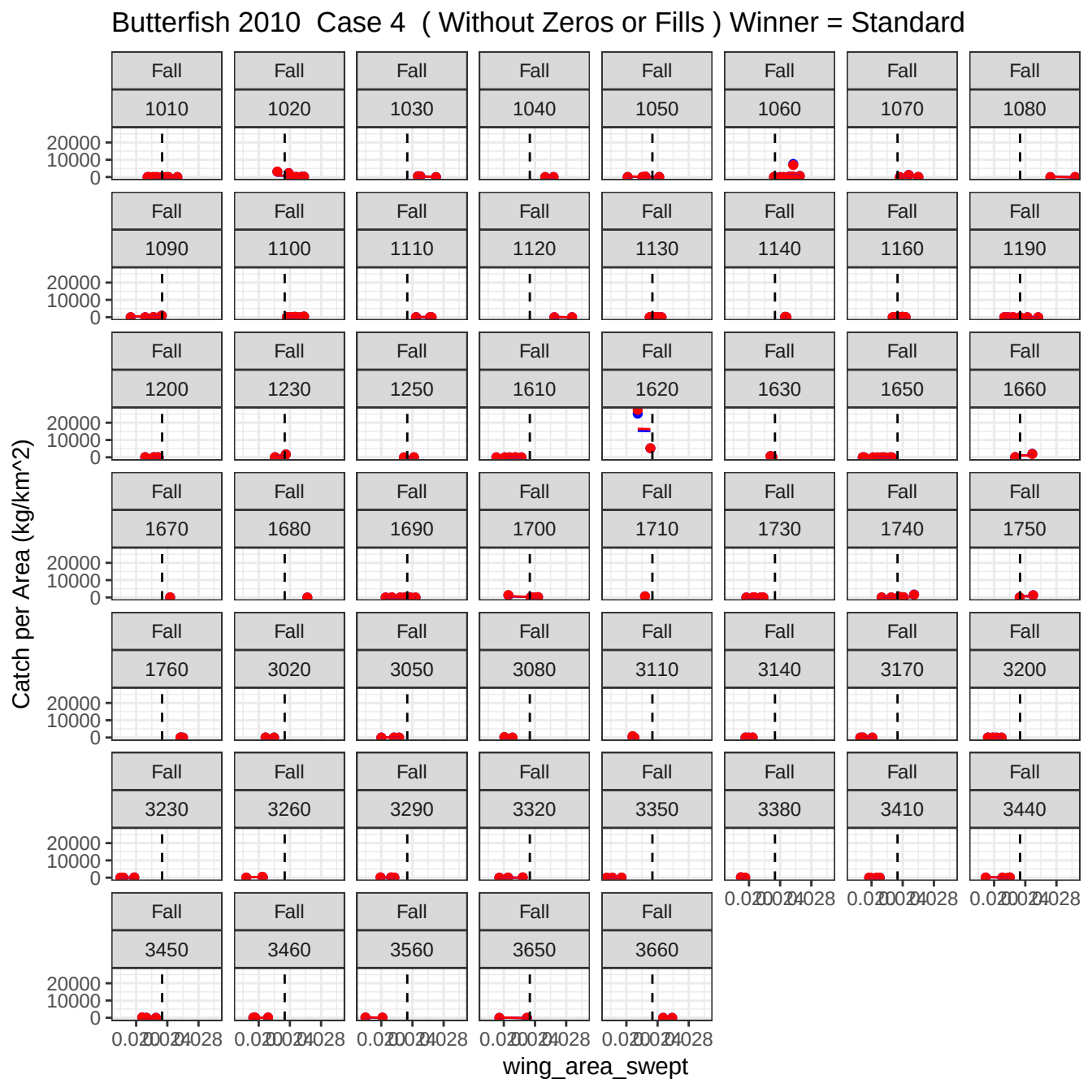
3080
3110
3140
3170
3200
3230
3260
3290
3320
3350
3380
3410
3440
3450
3460
3560
3590
3600
3610
3640
3650
3660
50000
40000
30000
20000
10000
0
Catch per Area (kg/km^2)
0.021
0.024
0.027
0.030
wing_area_swept


Butterfish 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
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1050
1060
1070
1080
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1100
1110
1120
1130
1140
1160
1190
1200
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1610
1620
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1670
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1750
1760
3020
3050
3080
3110
3140
3170
3200
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3290
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3380
3410
3440
3450
3460
3560
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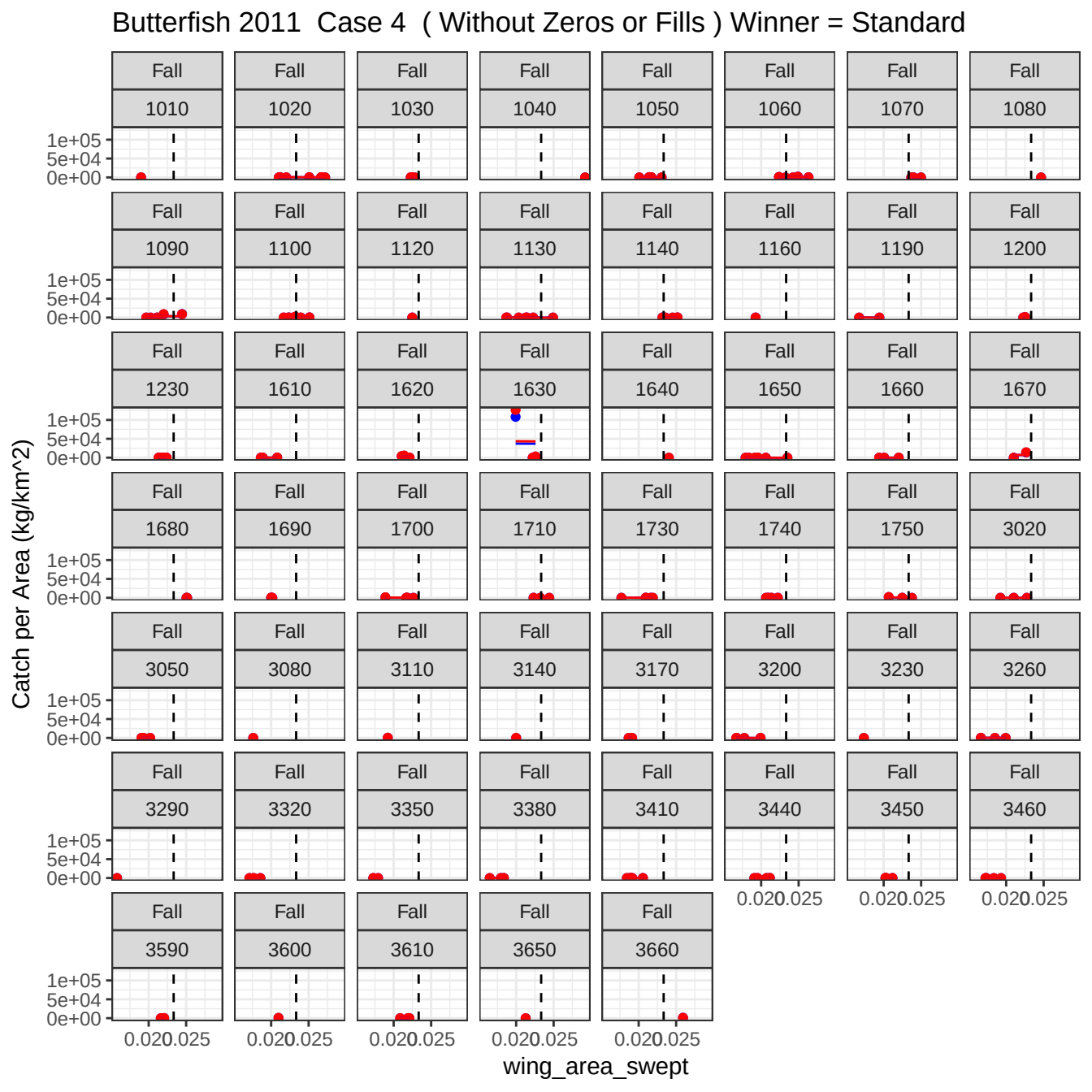
3660
20000
10000
0
0.02
0.024
0.028
Catch per Area (kg/km^2)
wing_area_swept


Butterfish 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1020
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1040
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1060
1070
1080
1090
1100
1120
1130
1140
1160
1190
1200
1230
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
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1740
1750
3020
3050
3080
3110
3140
3170
3200
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3260
3290
3320
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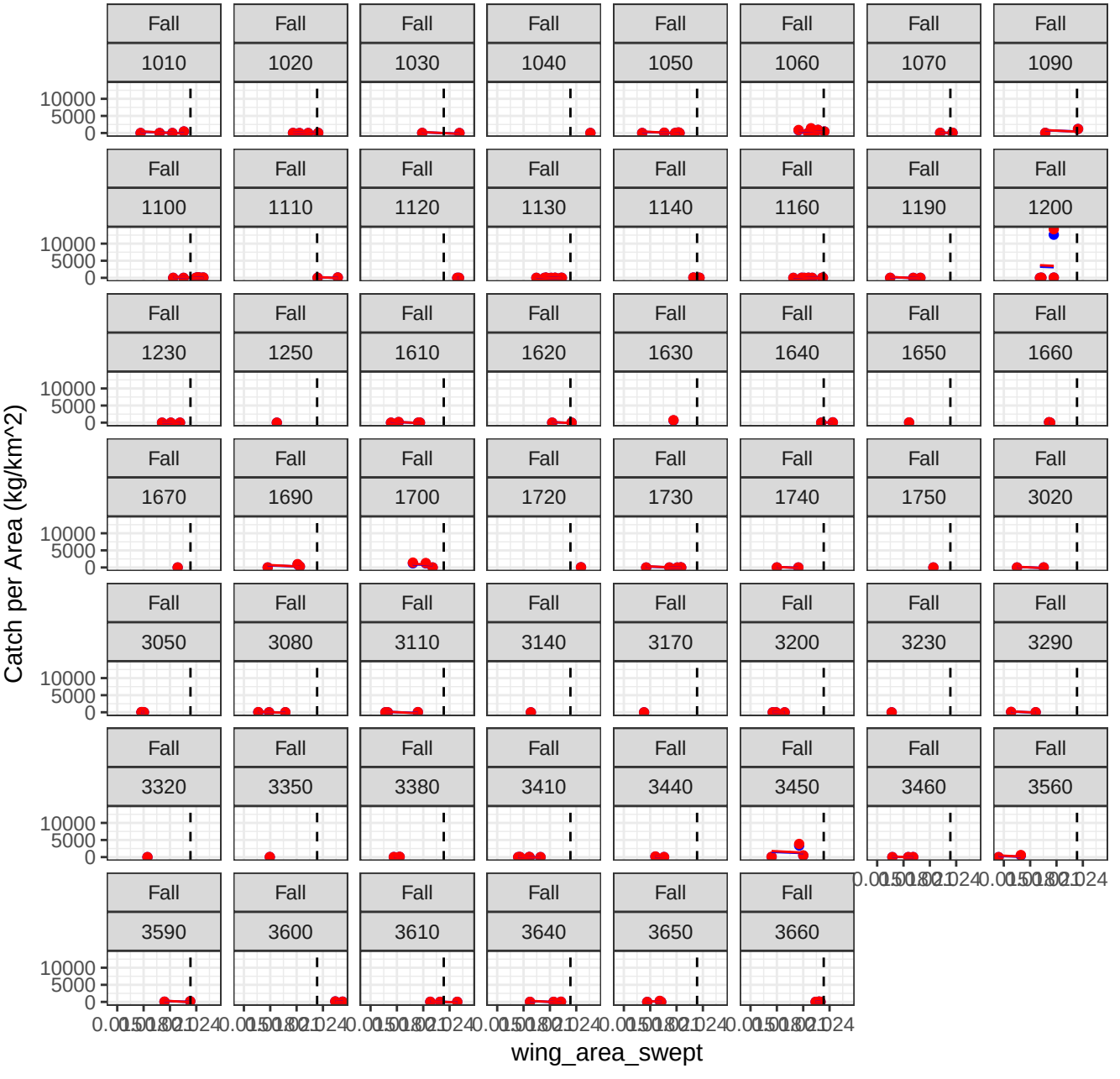
3380
3410
3440
3450
3460
3590
3600
3610
3650
3660
1e+05
5e+04
0e+00
0.020.025
Catch per Area (kg/km^2)
wing_area_swept


Butterfish 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1020
1030
1040
1050
1060
1070
1090
1100
1110
1120
1130
1140
1160
1190
1200
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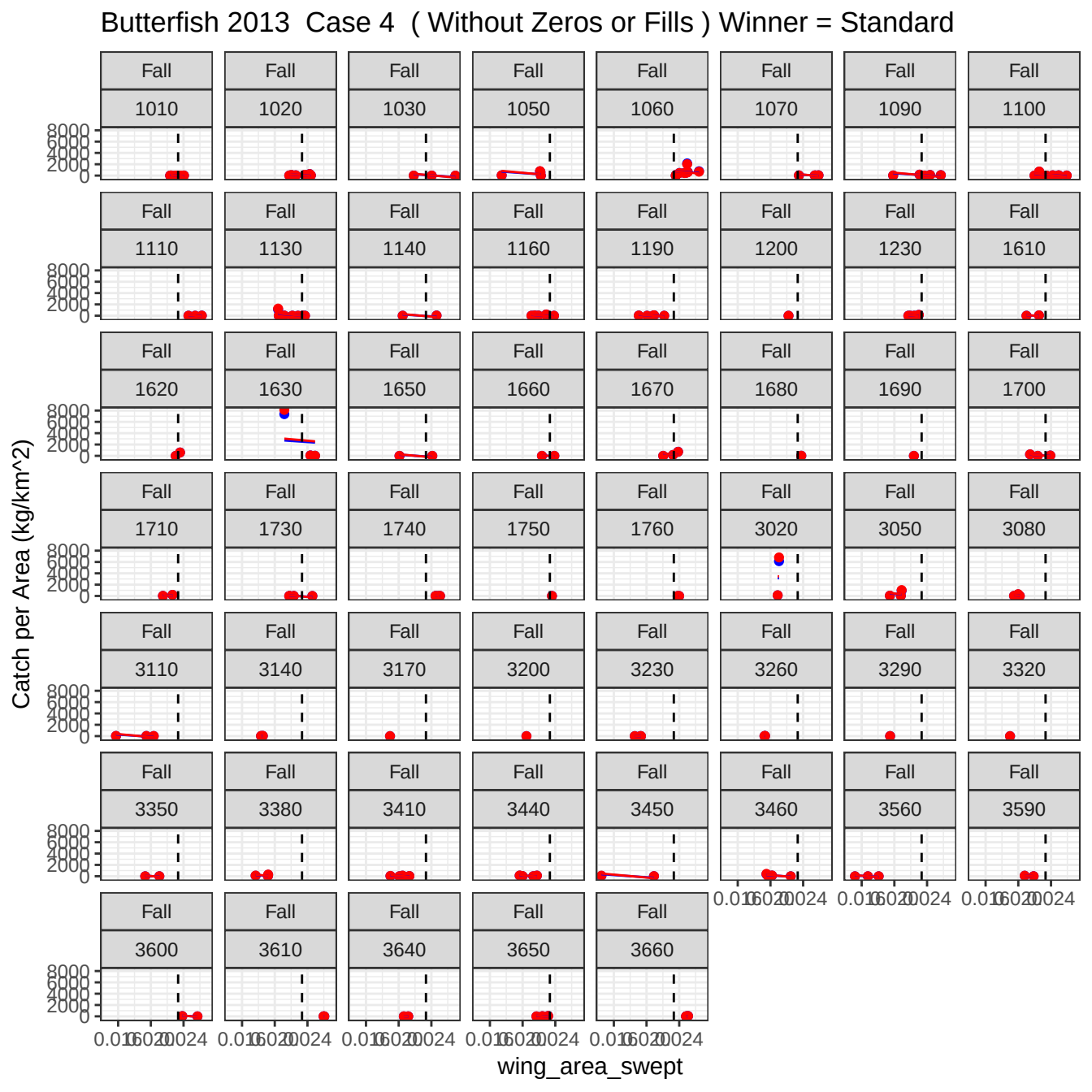
1250
1610
1620
1630
1640
1650
1660
1670
1690
1700
1720
1730
1740
1750
3020
3050
3080
3110
3140
3170
3200
3230
3290
3320
3350
3380
3410
3440
3450
3460
3560
3590
3600
3610
3640
3650
3660
10000
5000
0
0.00
0.05
0.10
0.15
0.20
0.24
Catch per Area (kg/km^2)
wing_area_swept


Butterfish 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1020
1030
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1070
1090
1100
1110
1130
1140
1160
1190
1200
1230
1610
1620
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1670
1680
1690
1700
1710
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1740
1750
1760
3020
3050
3080
3110
3140
3170
3200
3230
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3290
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3350
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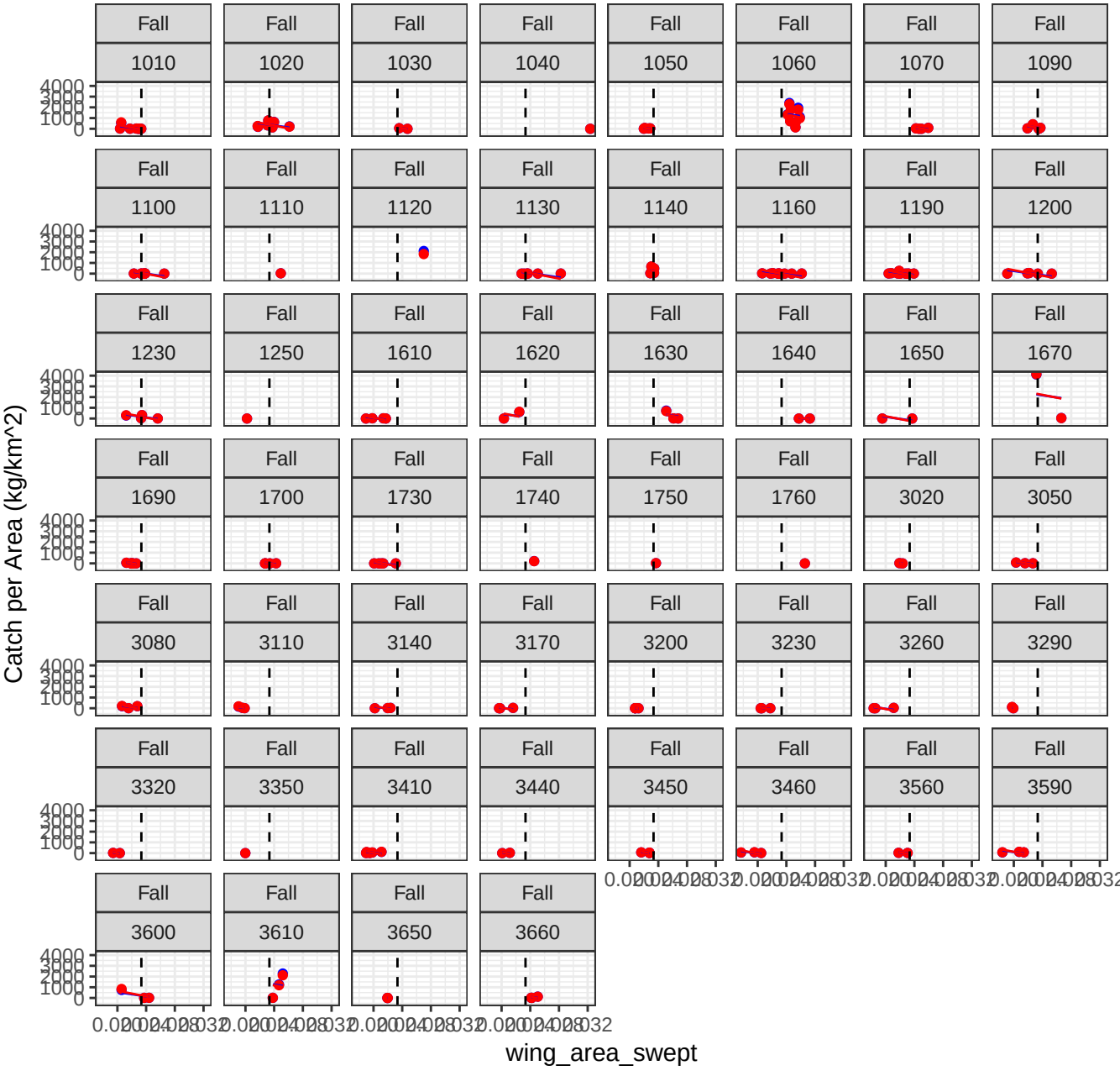
3590
3600
3610
3640
3650
3660
8000
6000
4000
2000
0
0.012
0.016
0.020
0.024
Catch per Area (kg/km^2)
wing_area_swept


Butterfish 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1020
1030
1040
1050
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1070
1090
1100
1110
1120
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1140
1160
1190
1200
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1250
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1630
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1650
1670
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3020
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3560
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3610
3650
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4000
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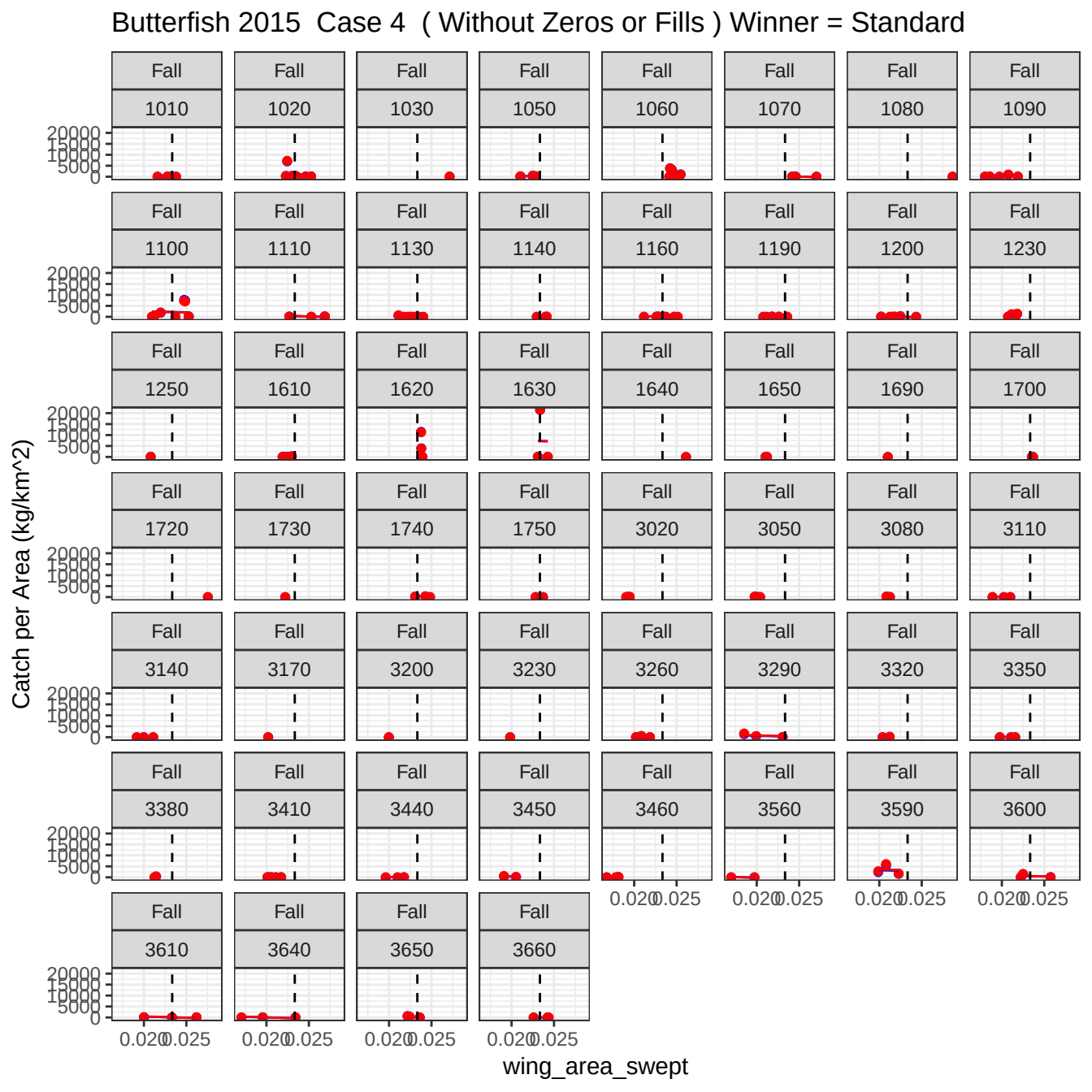
2000
1000
0
0.020
0.024
0.028
0.032
Catch per Area (kg/km^2)
wing_area_swept


Butterfish 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1020
1030
1050
1060
1070
1080
1090
1100
1110
1130
1140
1160
1190
1200
1230
1250
1610
1620
1630
1640
1650
1690
1700
1720
1730
1740
1750
3020
3050
3080
3110
3140
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3200
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3380
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3440
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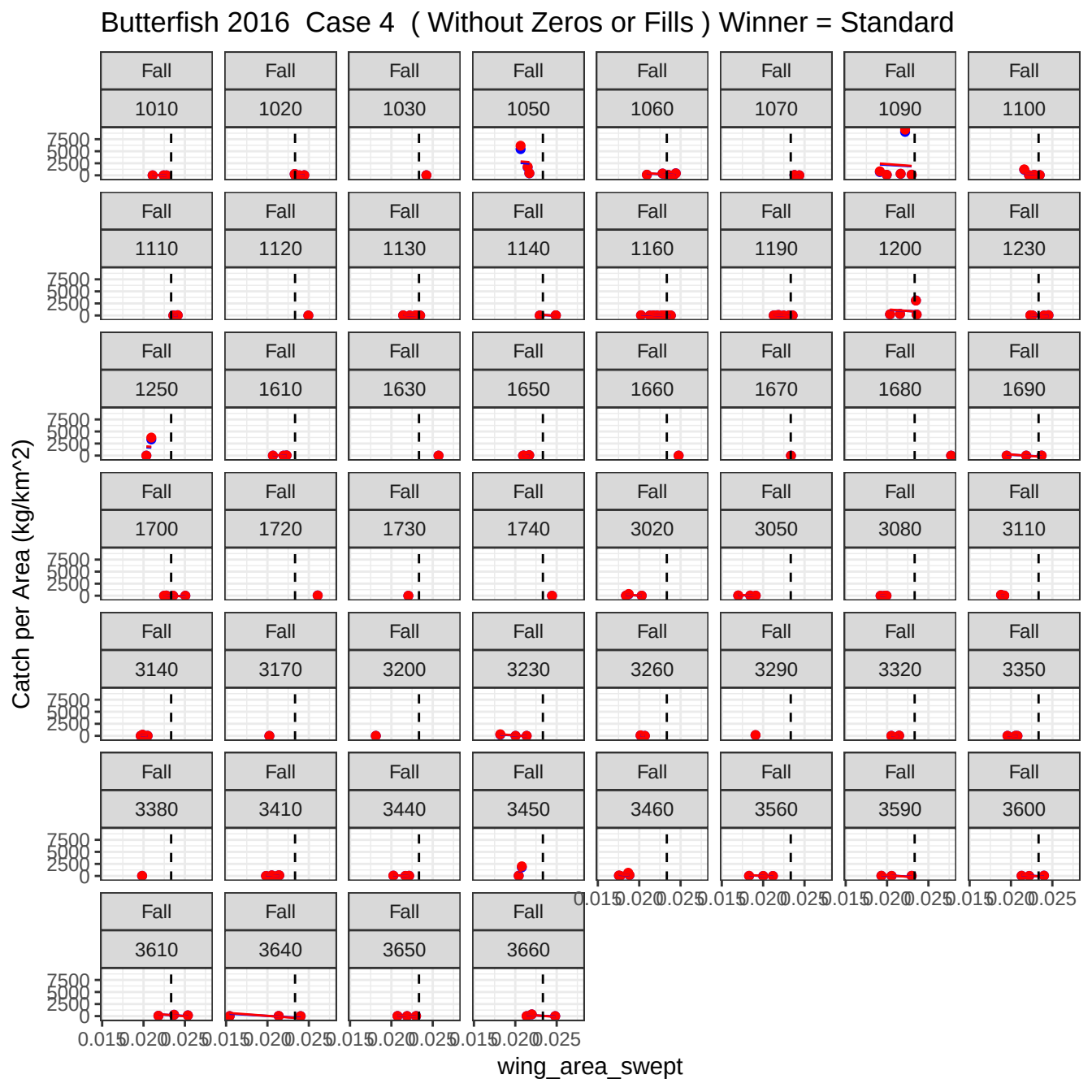
3460
3560
3590
3600
3610
3640
3650
3660
20000
15000
10000
5000
0
0.020
0.025
Catch per Area (kg/km^2)
wing_area_swept


Butterfish 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1020
1030
1050
1060
1070
1090
1100
1110
1120
1130
1140
1160
1190
1200
1230
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1670
1680
1690
1700
1720
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3140
3170
3200
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3450
3460
3560
3590
3600
3610
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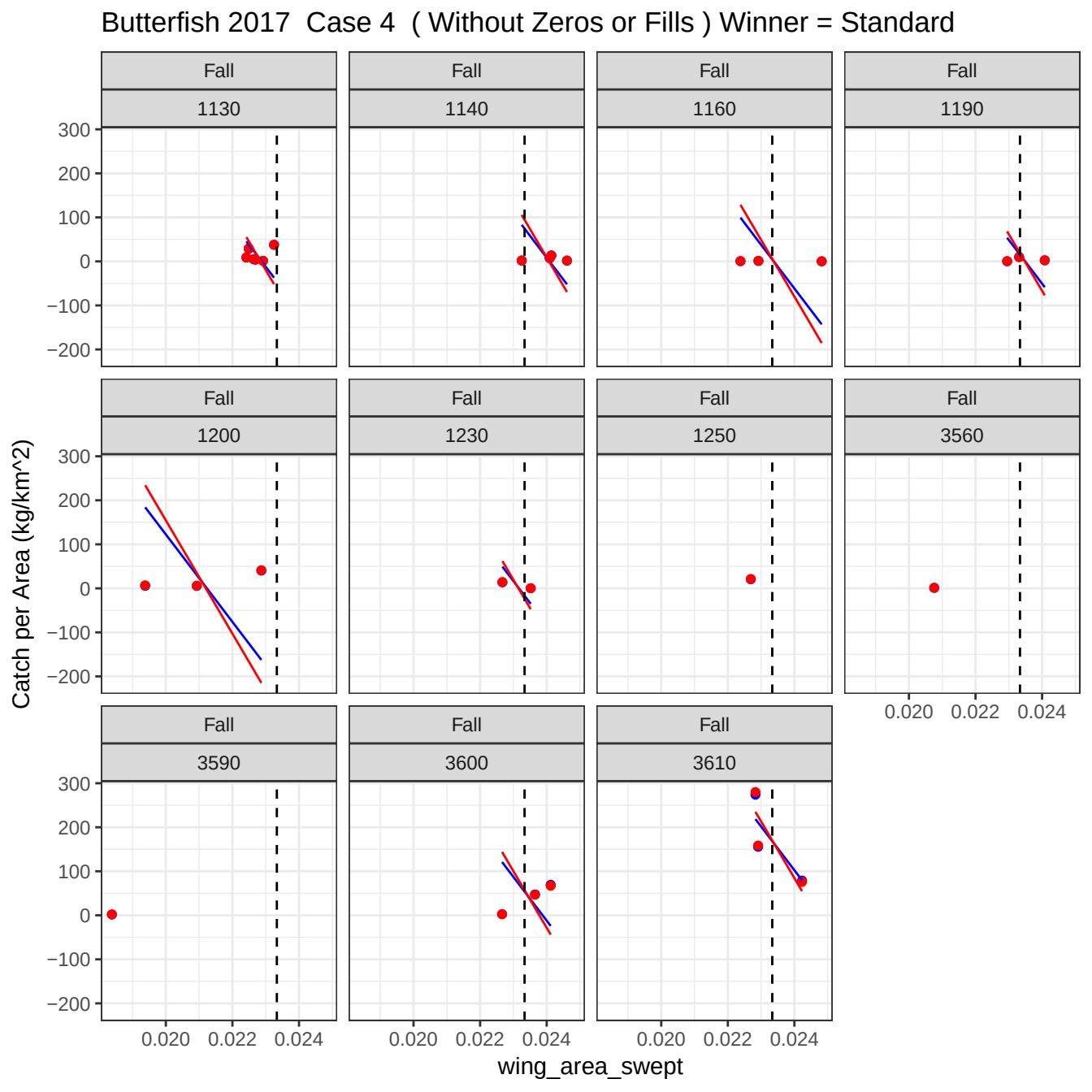
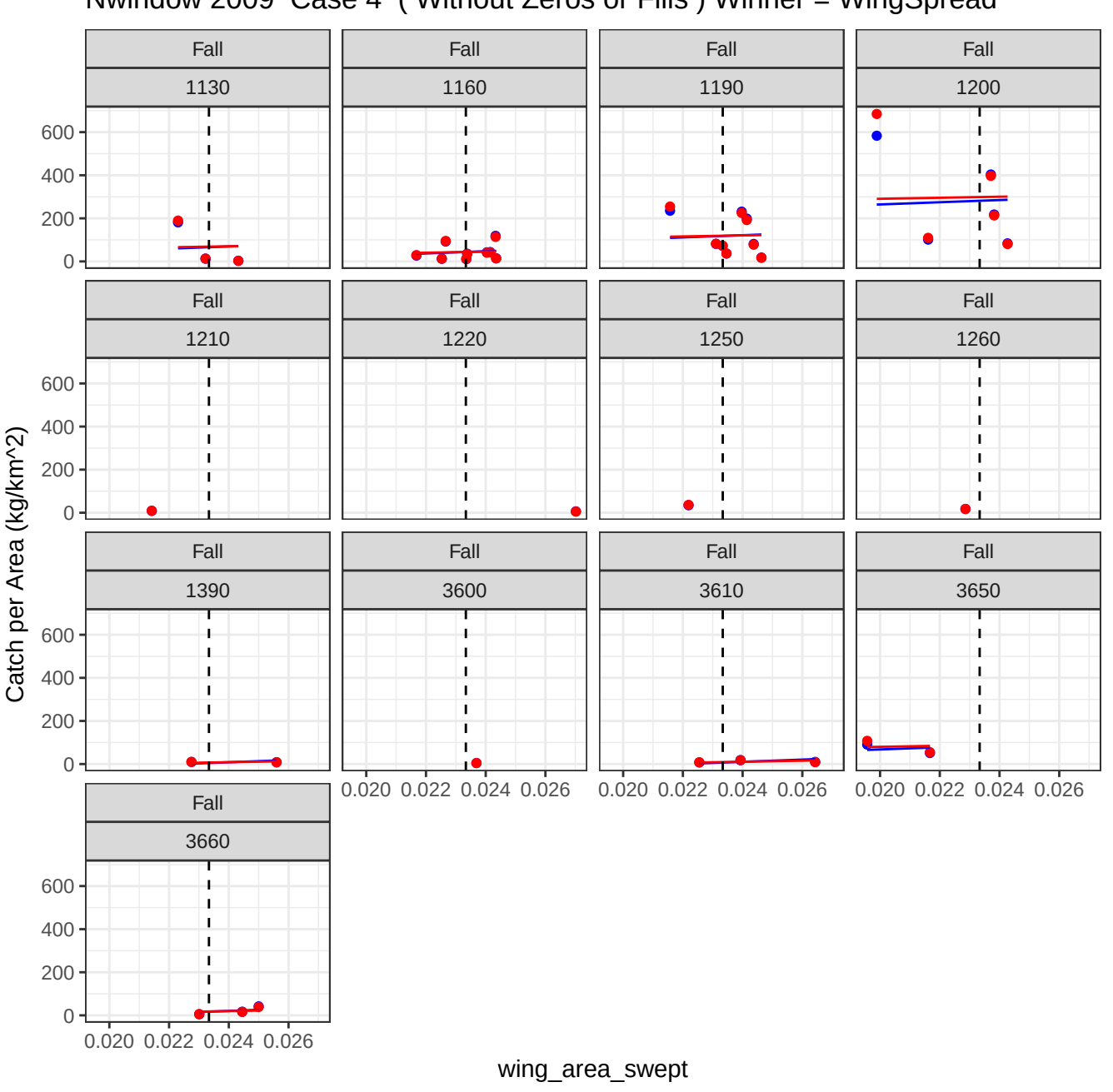
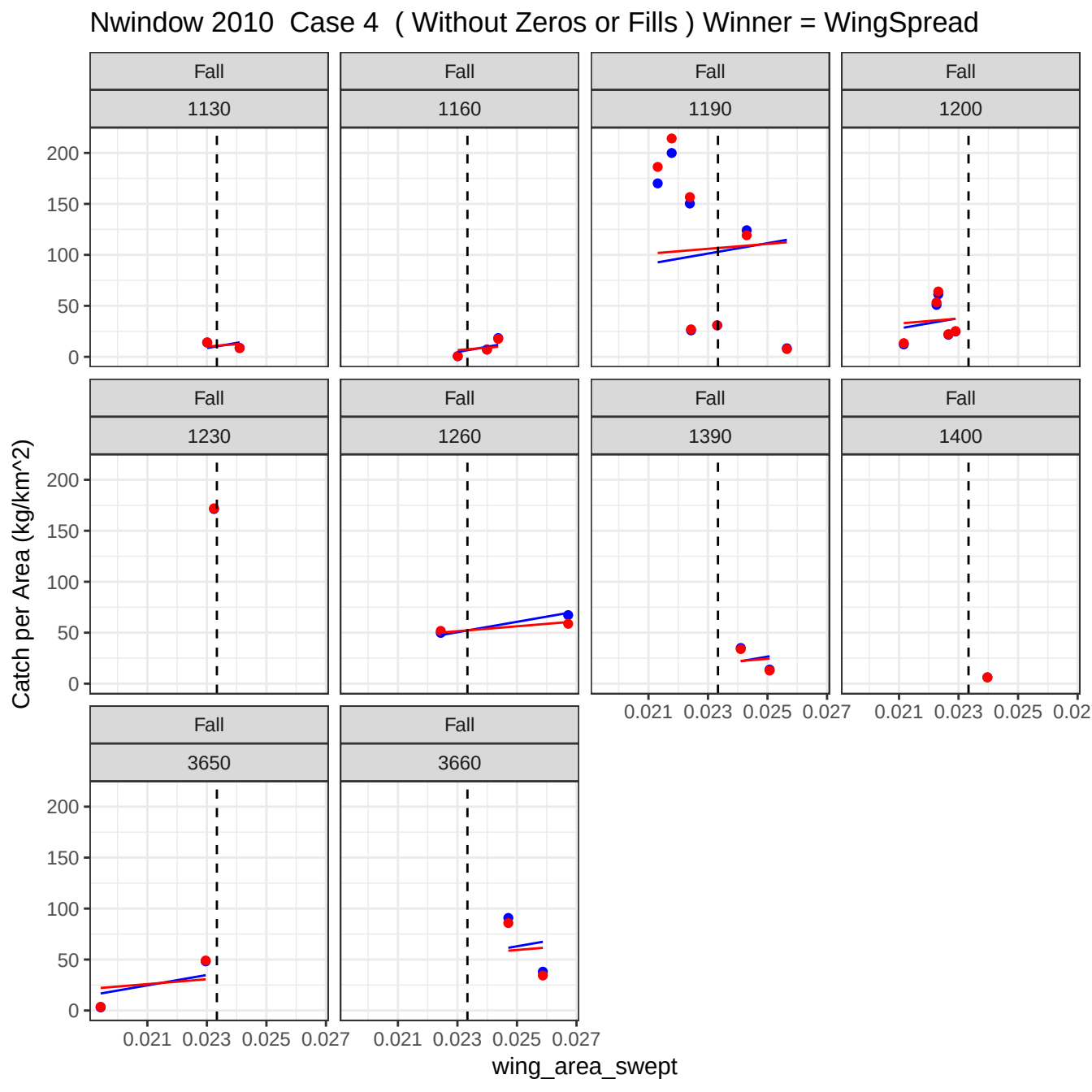
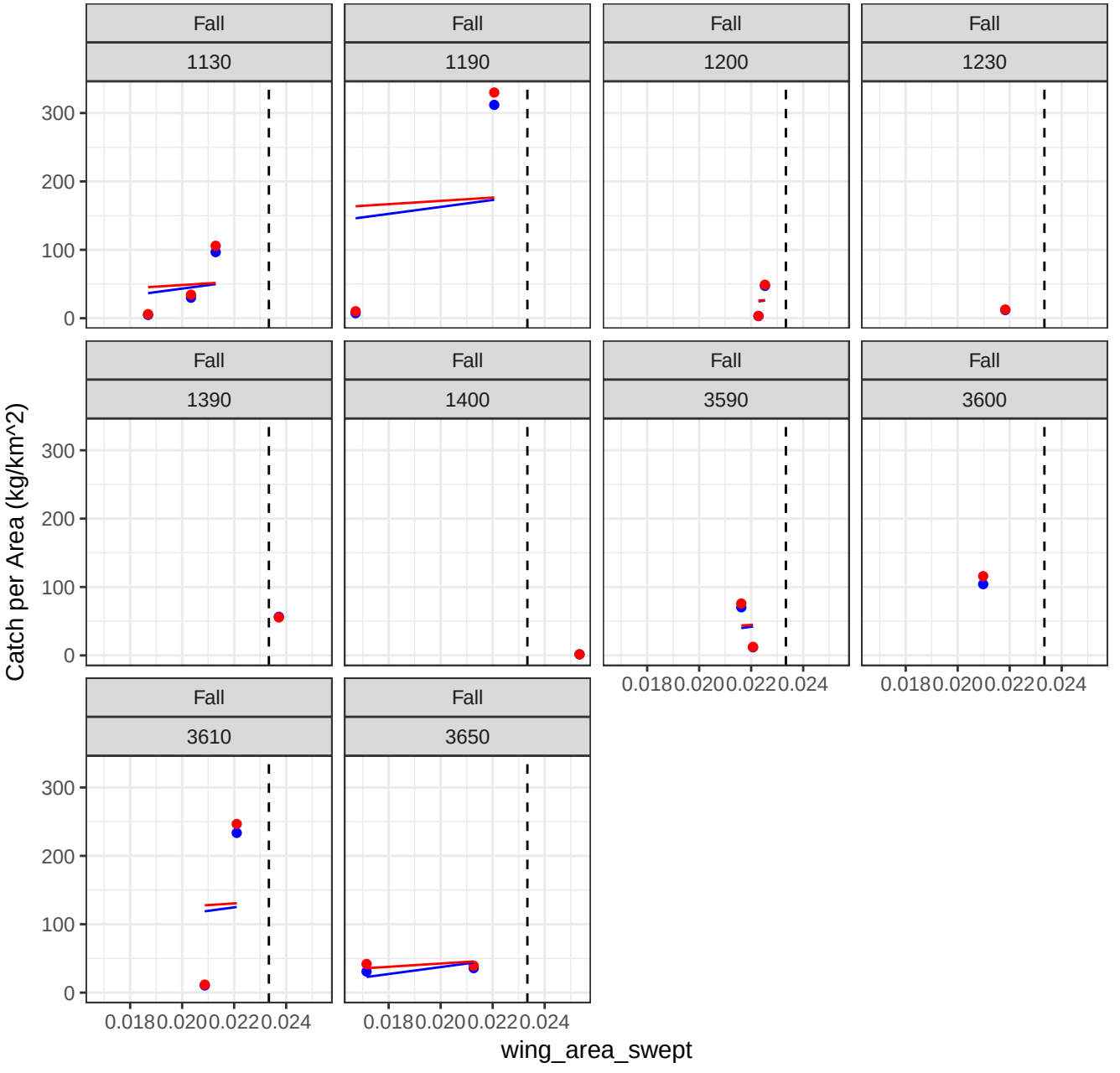
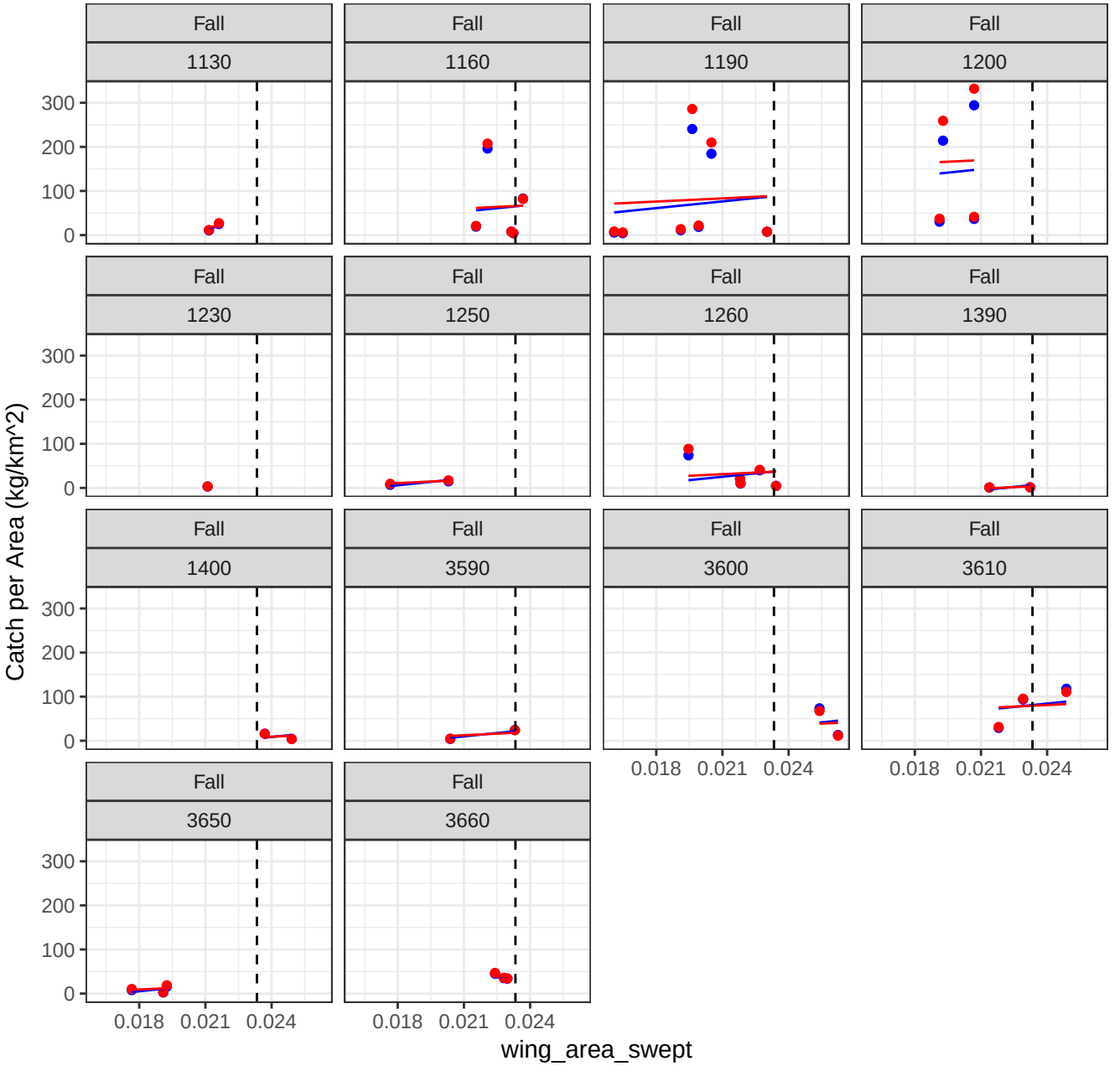
3650
3660
7500
5000
2500
0
0.015
0.020
0.025
Catch per Area (kg/km^2)
wing_area_swept

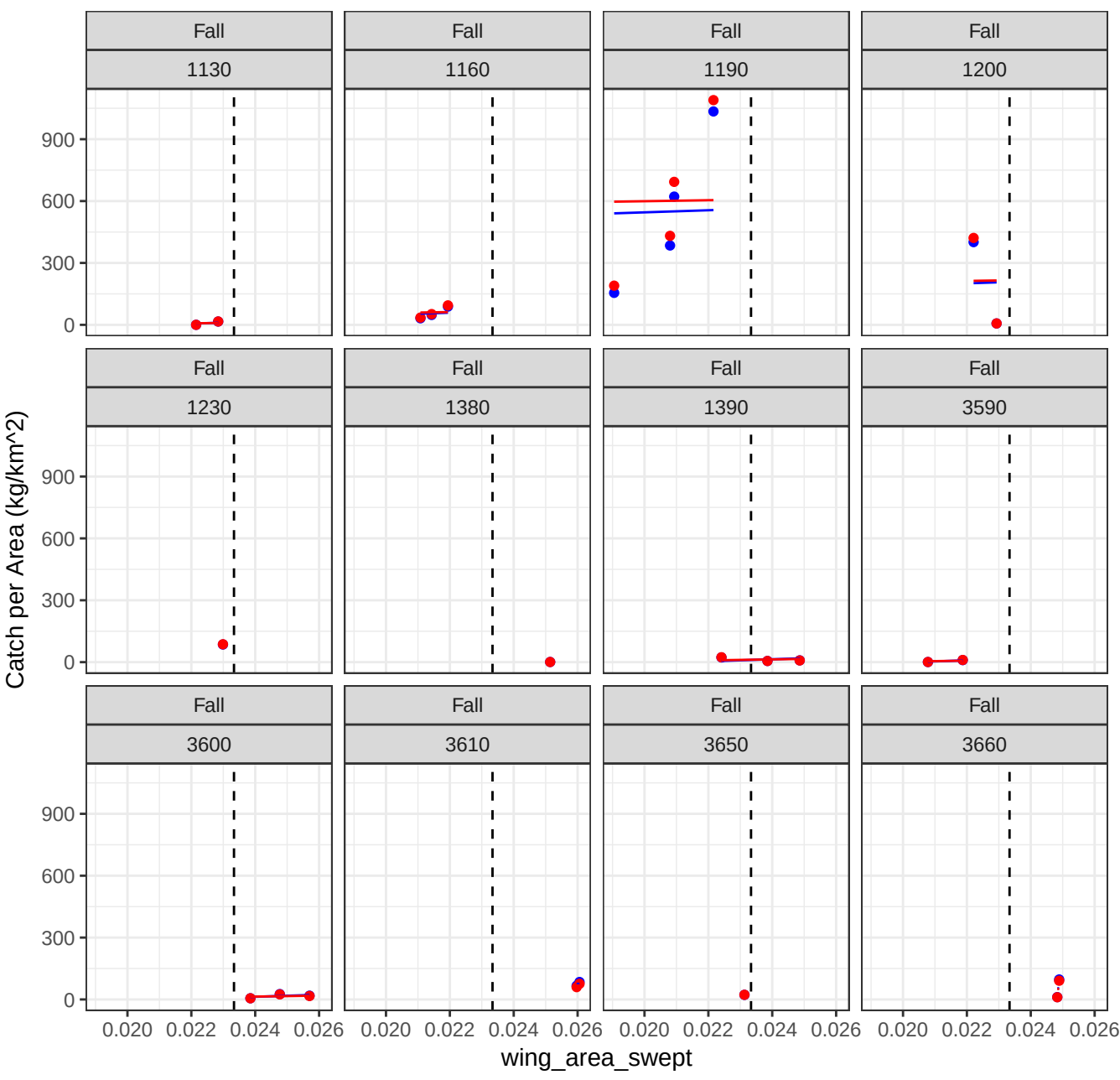

Butterfish 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1130
1140
1160
1190
1200
1230
1250
3560
3590
3600
3610
Catch per Area (kg/km^2)
wing_area_swept
300
200
100
0
−100
−200
0.020
0.022
0.024

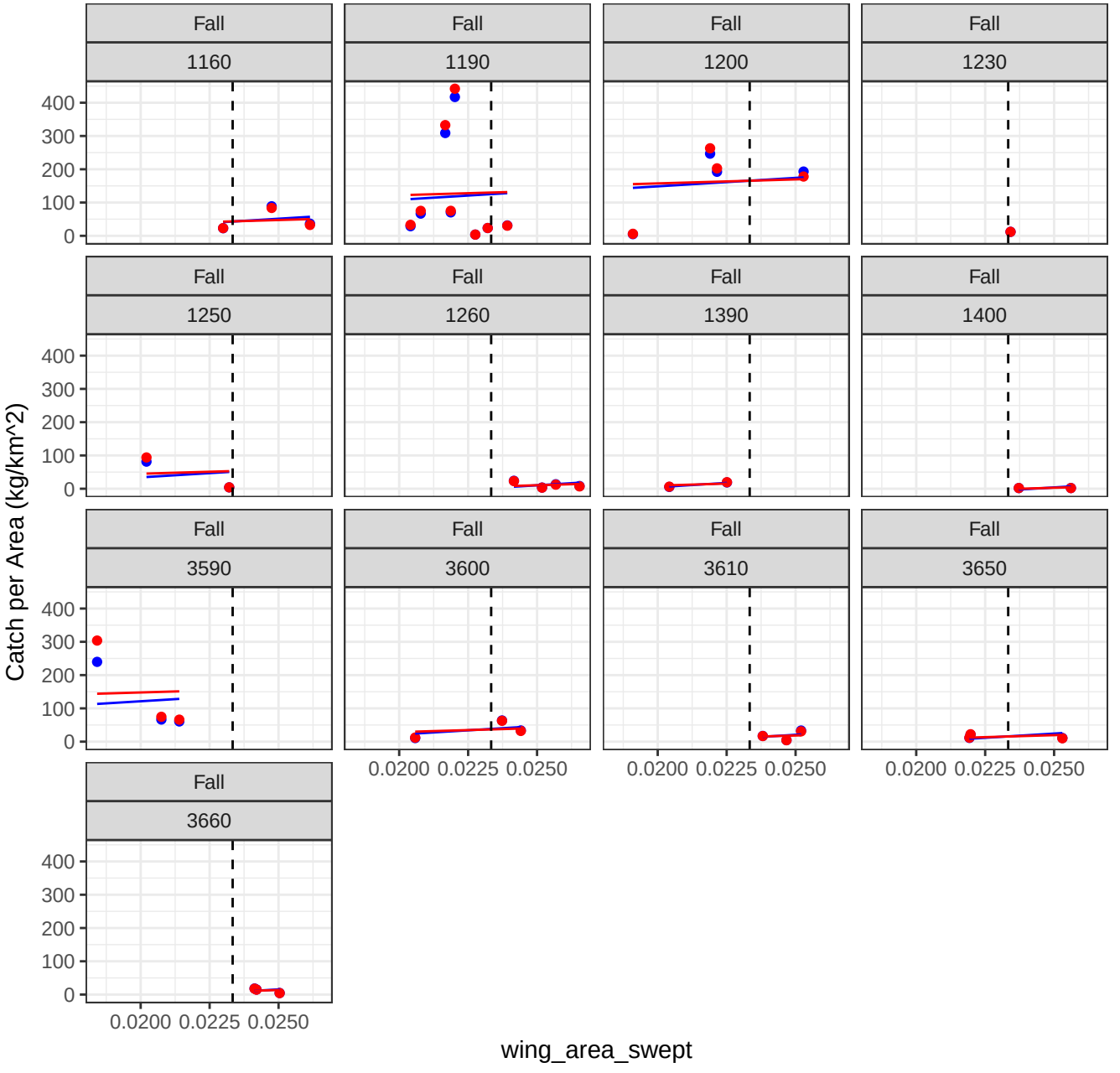

Nwindow 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1130
1160
1190
1200
1210
1220
1250
1260
1390
3600
3610
3650
3660
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
0.020
0.022
0.024
0.026

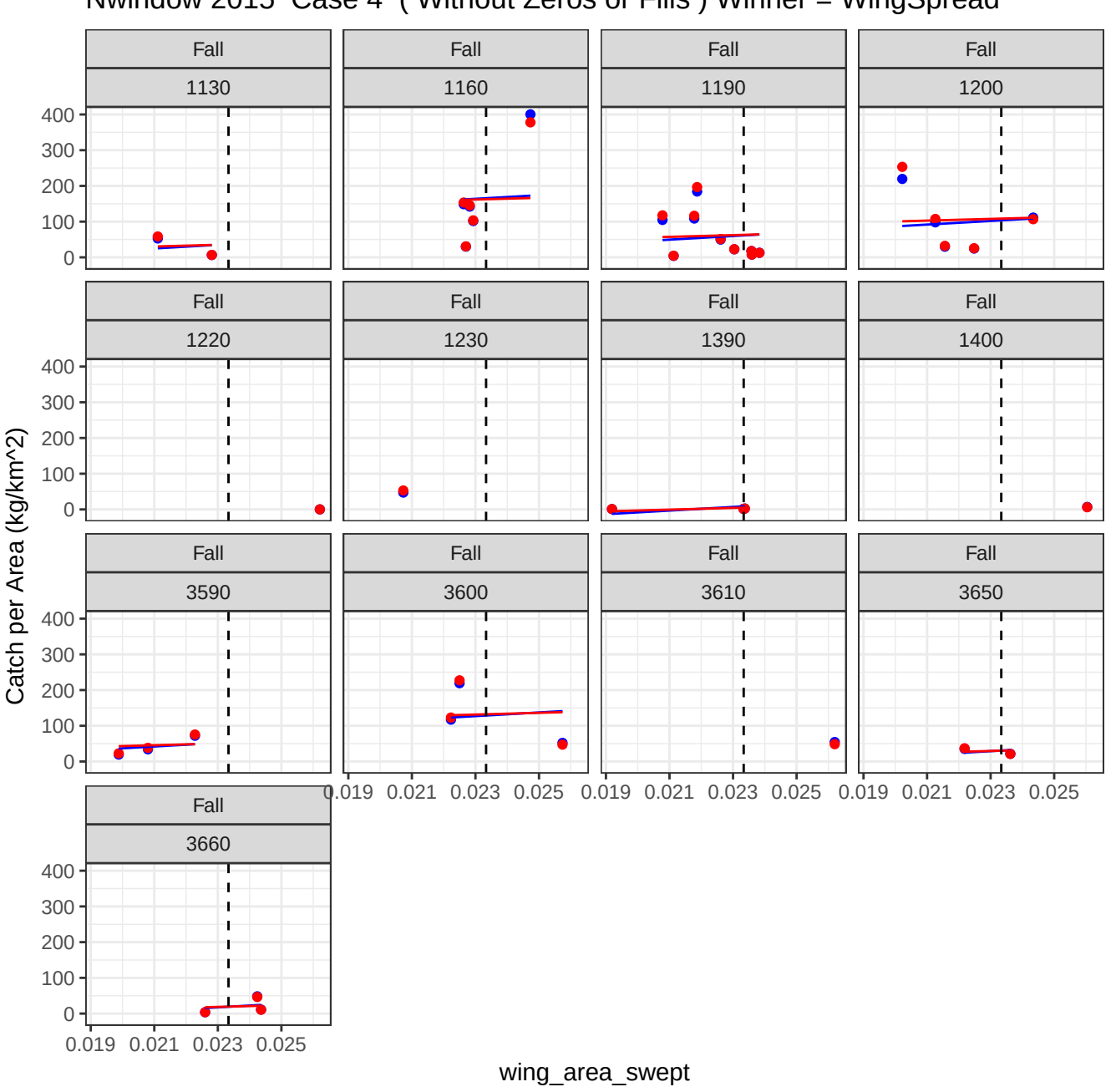

Nwindow 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1130
1160
1190
1200
1230
1260
1390
1400
3650
3660
Catch per Area (kg/km^2)
wing_area_swept
0
50
100
150
200
0.021
0.023
0.025
0.027

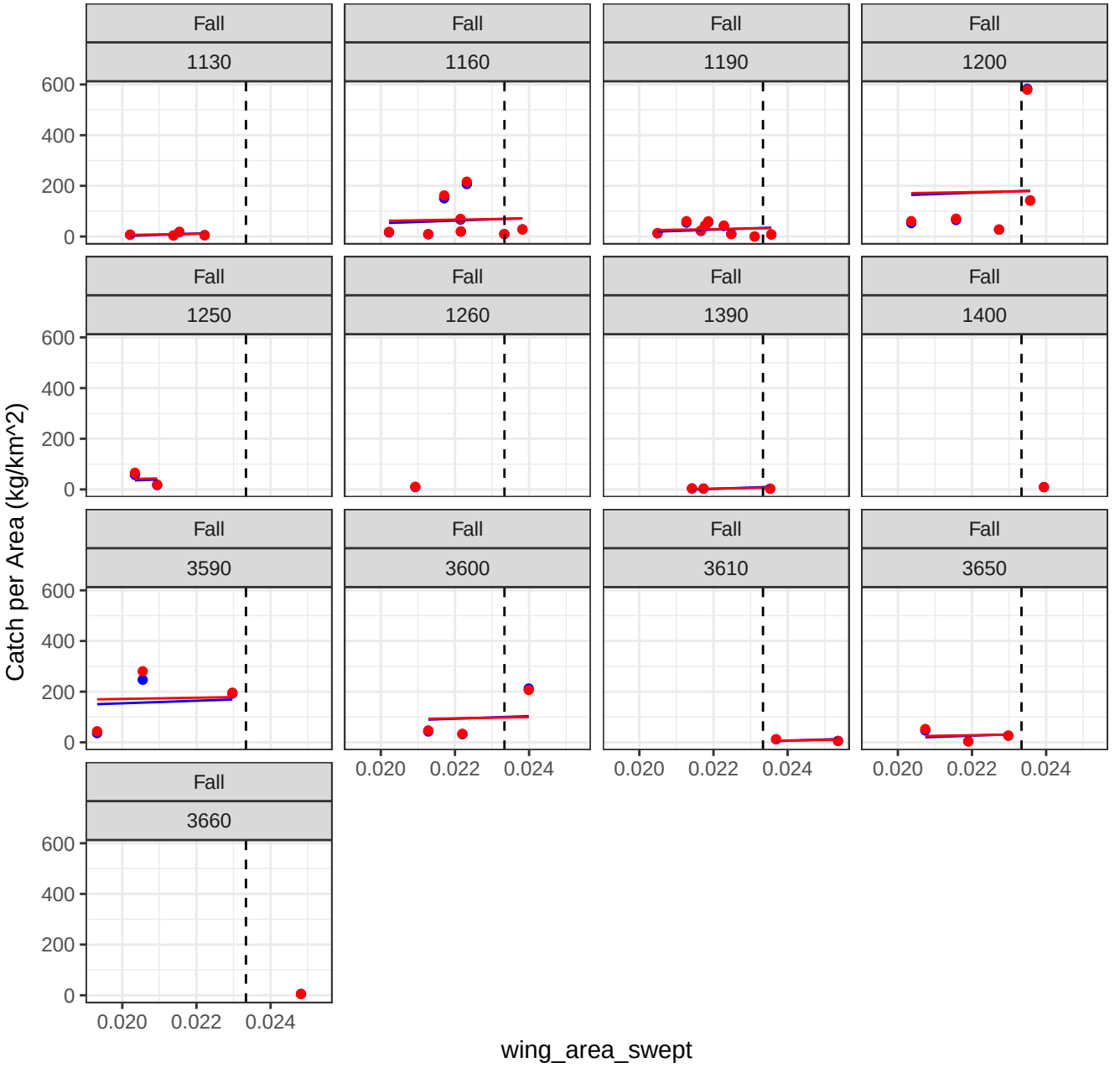

Nwindow 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1130
1190
1200
1230
1390
1400
3590
3600
3610
3650
Catch per Area (kg/km^2)
0
100
200
300
0.018
0.020
0.022
0.024
wing_area_swept

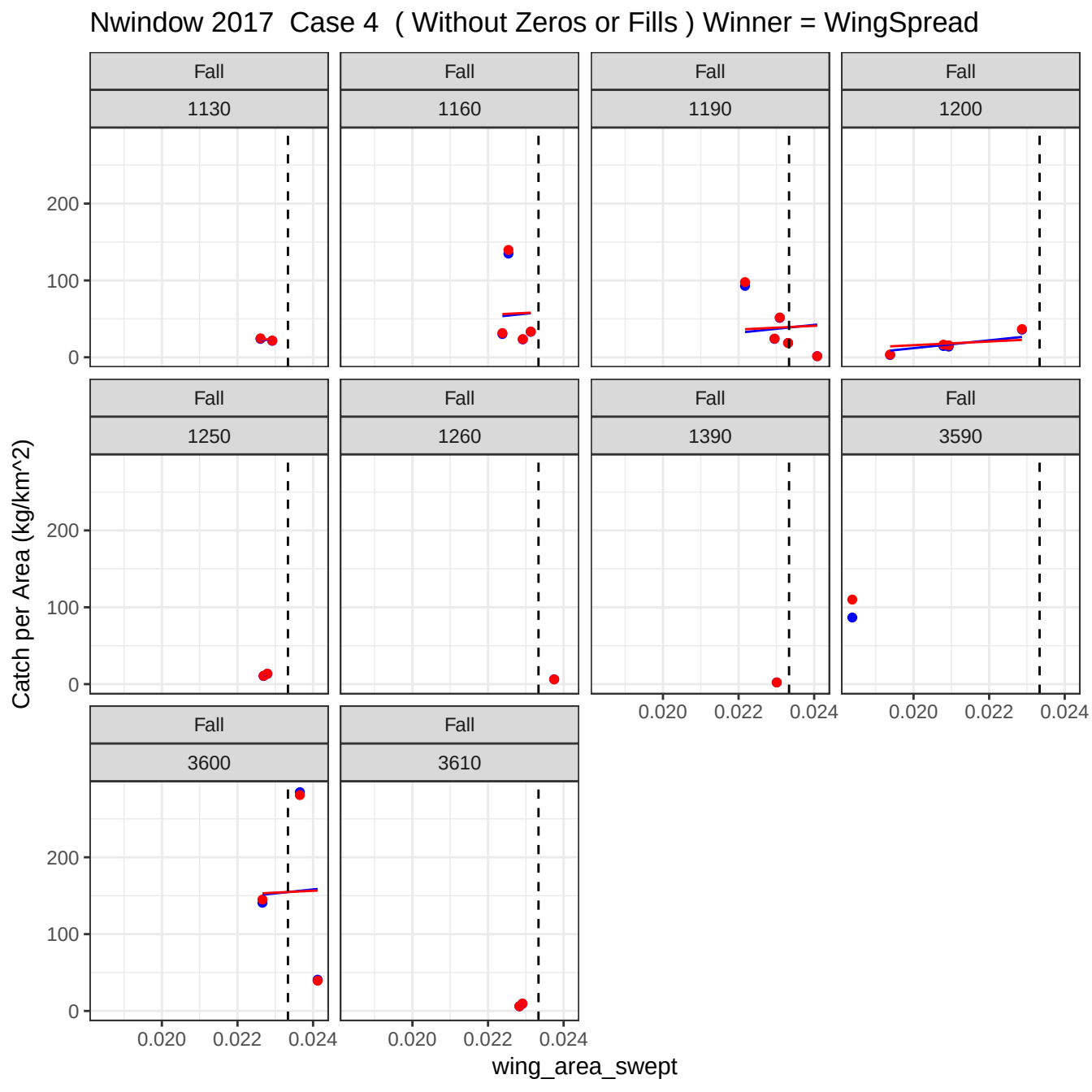

Nwindow 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1130
1160
1190
1200
1230
1250
1260
1390
1400
3590
3600
3610
3650
3660
Catch per Area (kg/km^2)
0
100
200
300
0.018
0.021
0.024
wing_area_swept

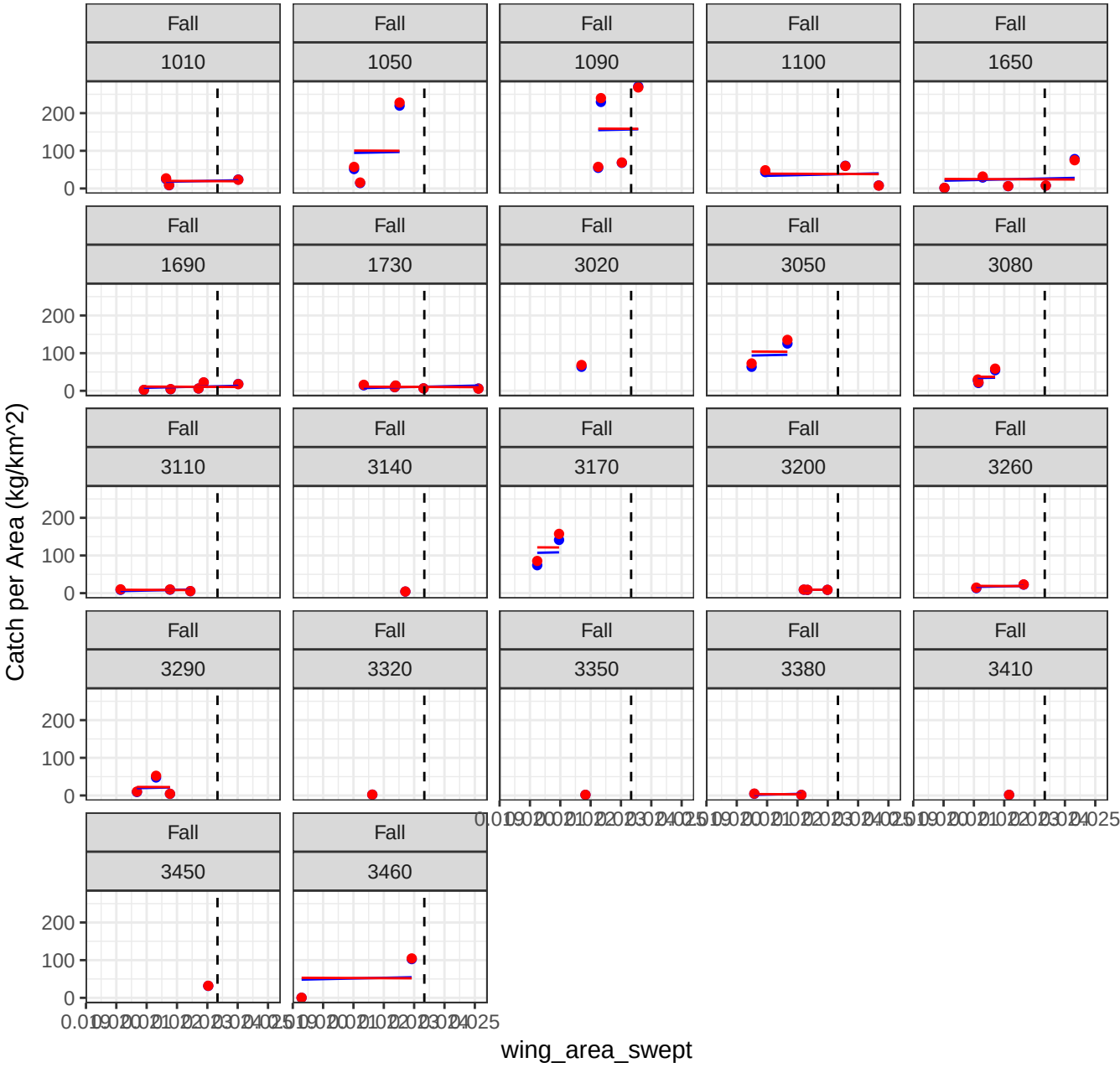

Nwindow 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1130
1160
1190
1200
1230
1380
1390
3590
3600
3610
3650
3660
Catch per Area (kg/km^2)
0
300
600
900
0.020
0.022
0.024
0.026
wing_area_swept

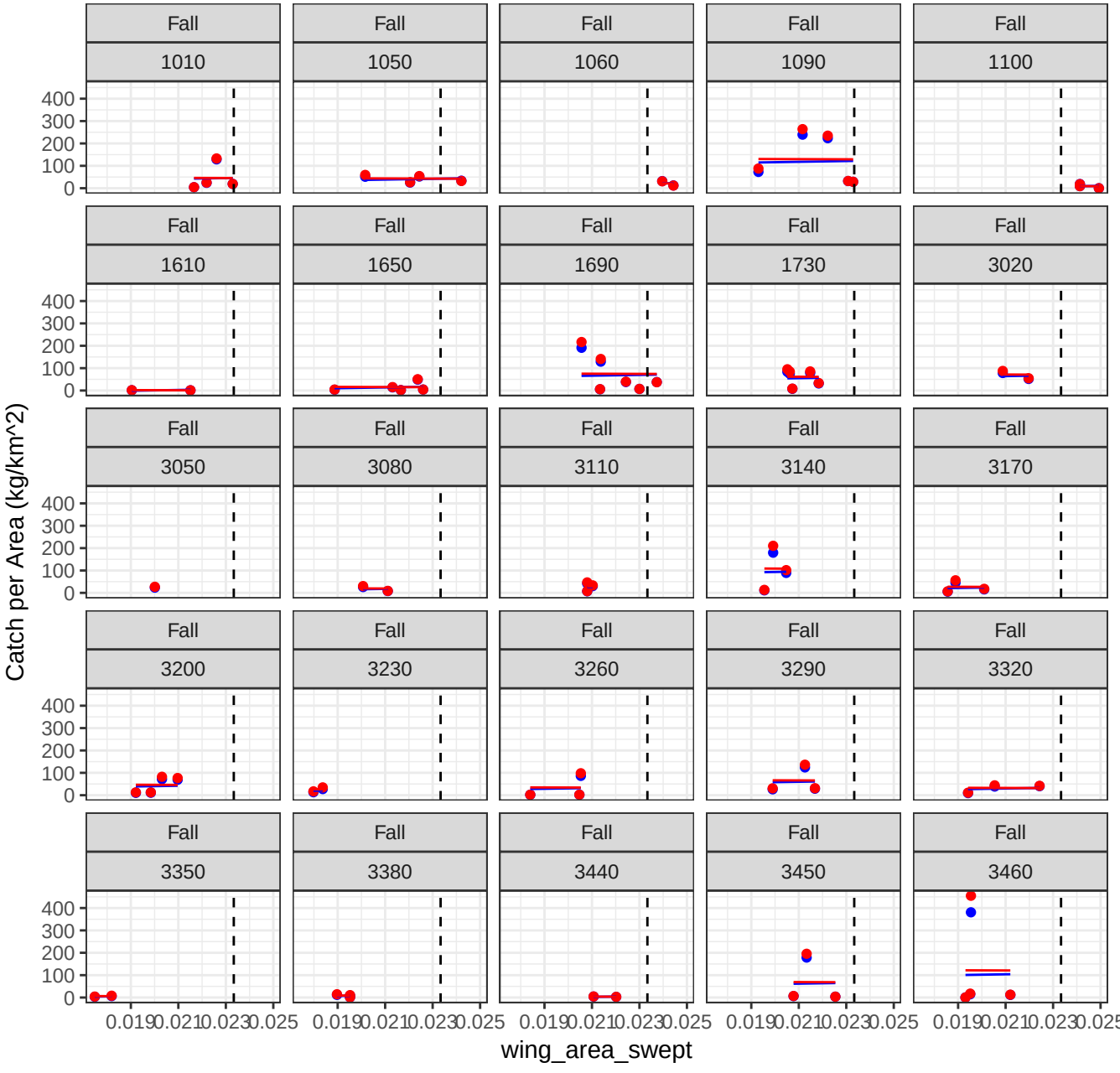

Nwindow 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1160
1190
1200
1230
1250
1260
1390
1400
3590
3600
3610
3650
3660
Catch per Area (kg/km^2)
0
100
200
300
400
0.0200
0.0225
0.0250
wing_area_swept

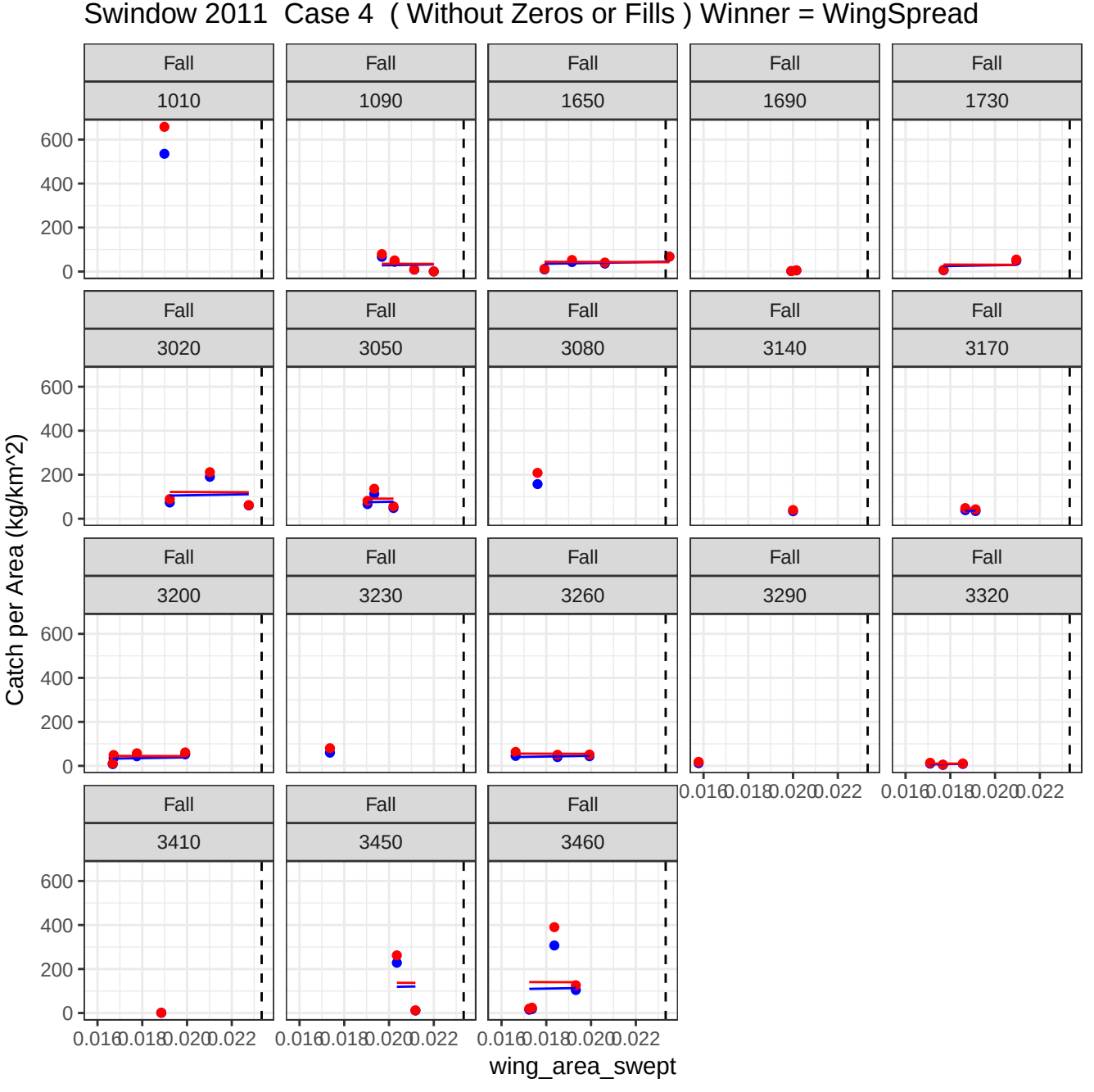

Nwindow 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1130
1160
1190
1200
1220
1230
1390
1400
3590
3600
3610
3650
3660
Catch per Area (kg/km^2)
wing_area_swept
0
100
200
300
400
0.019
0.021
0.023
0.025

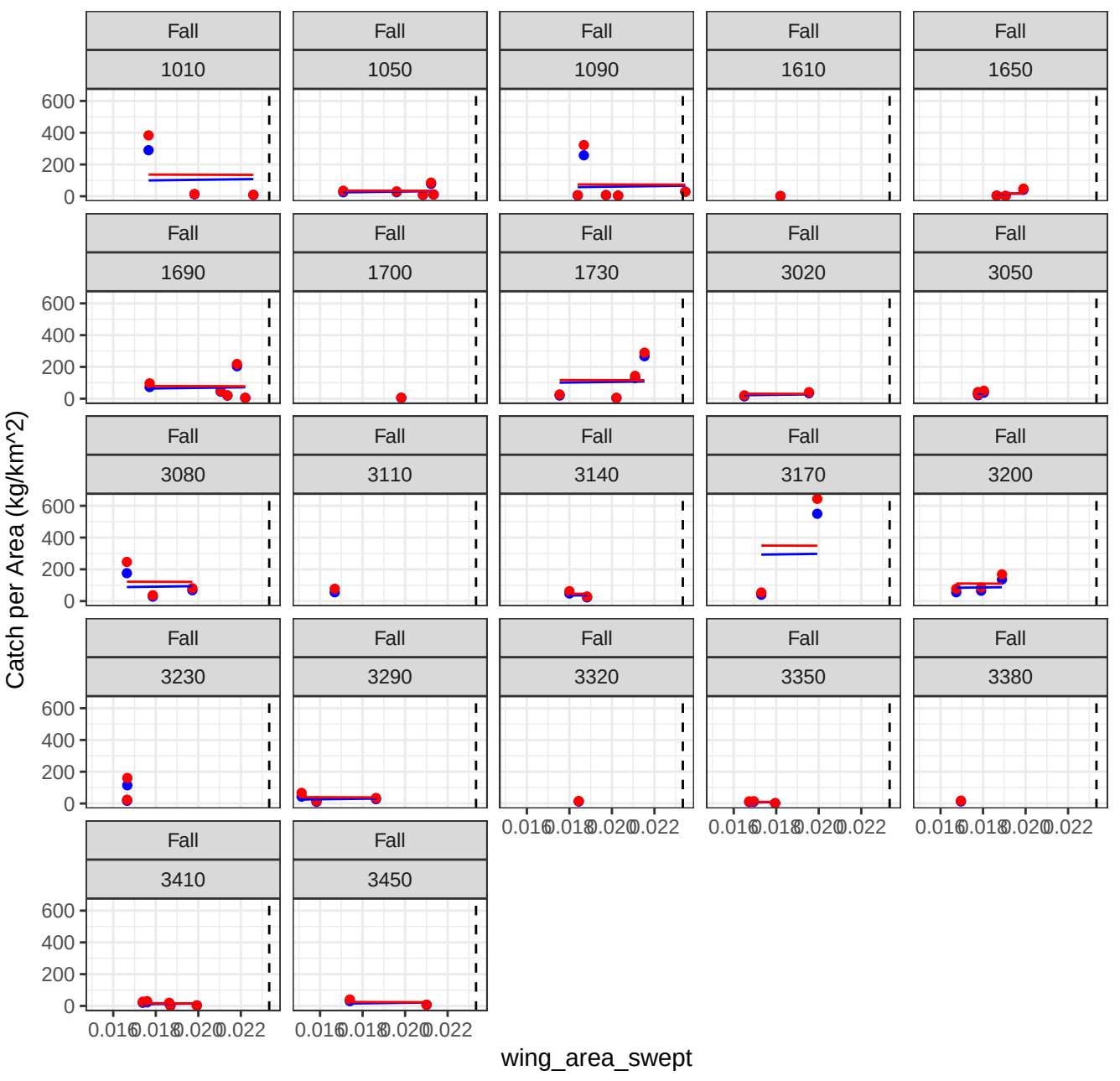

Nwindow 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1130
1160
1190
1200
1250
1260
1390
1400
3590
3600
3610
3650
3660
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
0.020
0.022
0.024

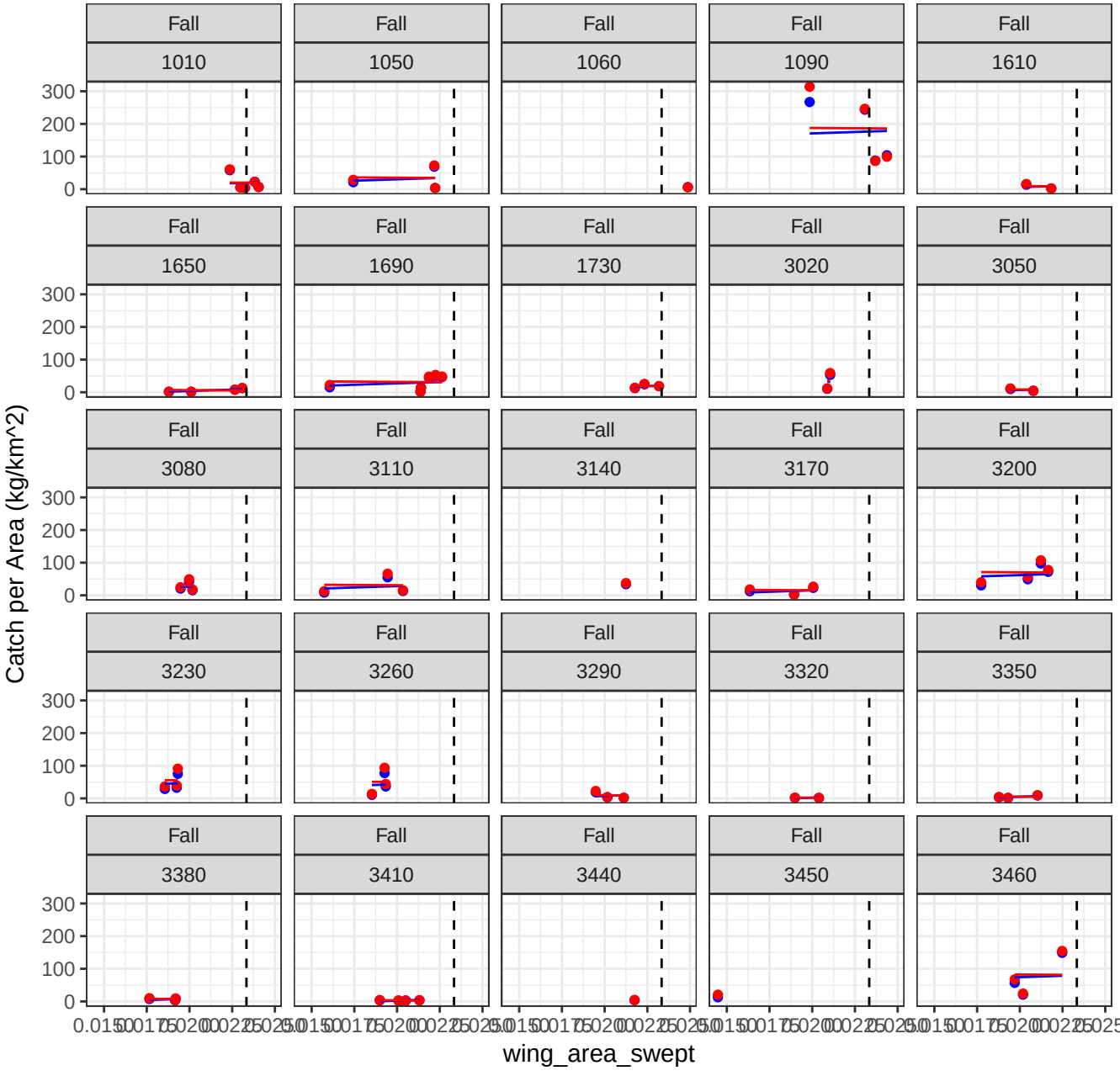

Nwindow 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1130
1160
1190
1200
1250
1260
1390
3590
3600
3610
Catch per Area (kg/km^2)
wing_area_swept
0
100
200
0.020
0.022
0.024

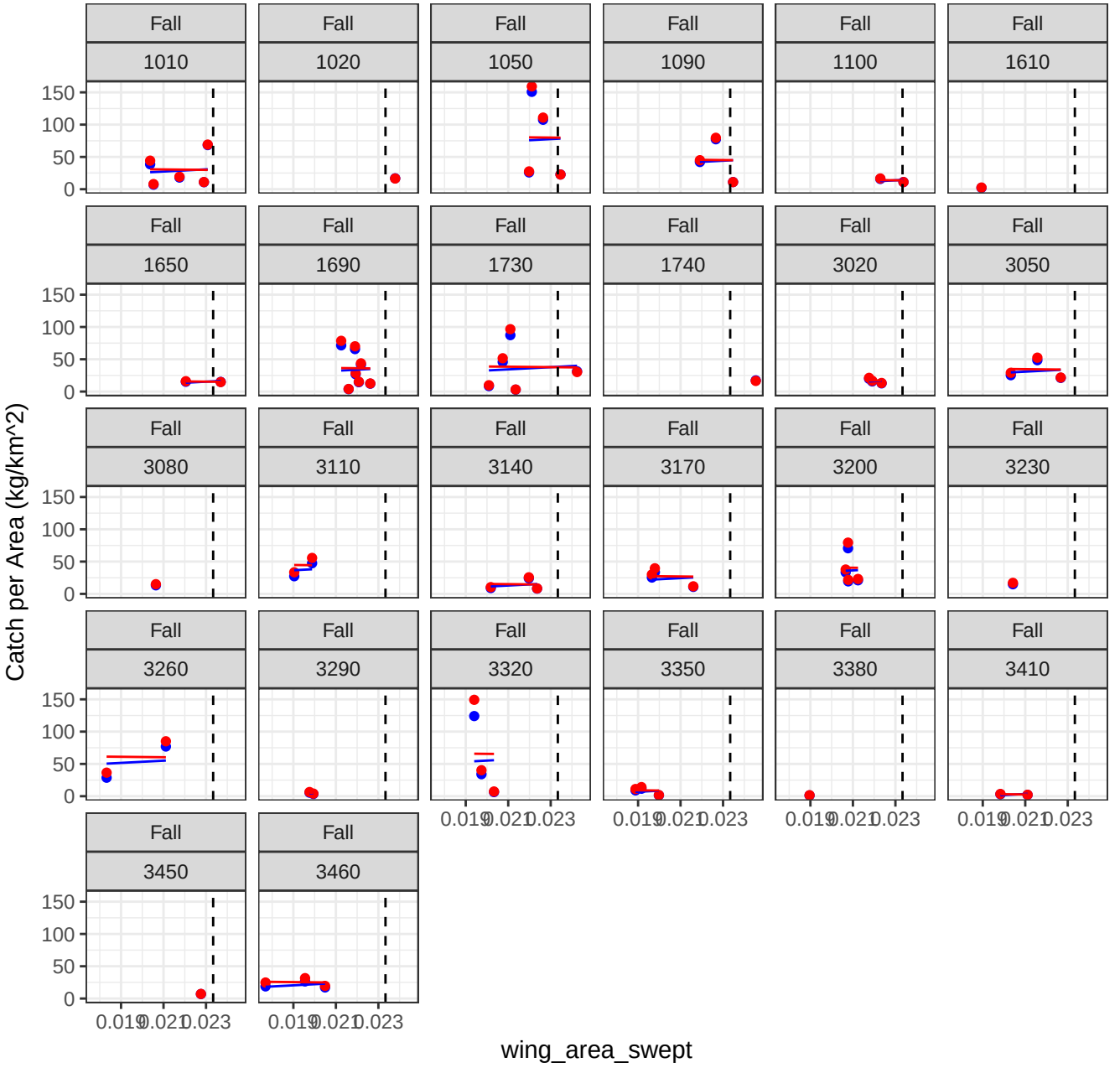

Swindow 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1010
1050
1090
1100
1650
1690
1730
3020
3050
3080
3110
3140
3170
3200
3260
3290
3320
3350
3380
3410
3450
3460
Catch per Area (kg/km^2)
wing_area_swept

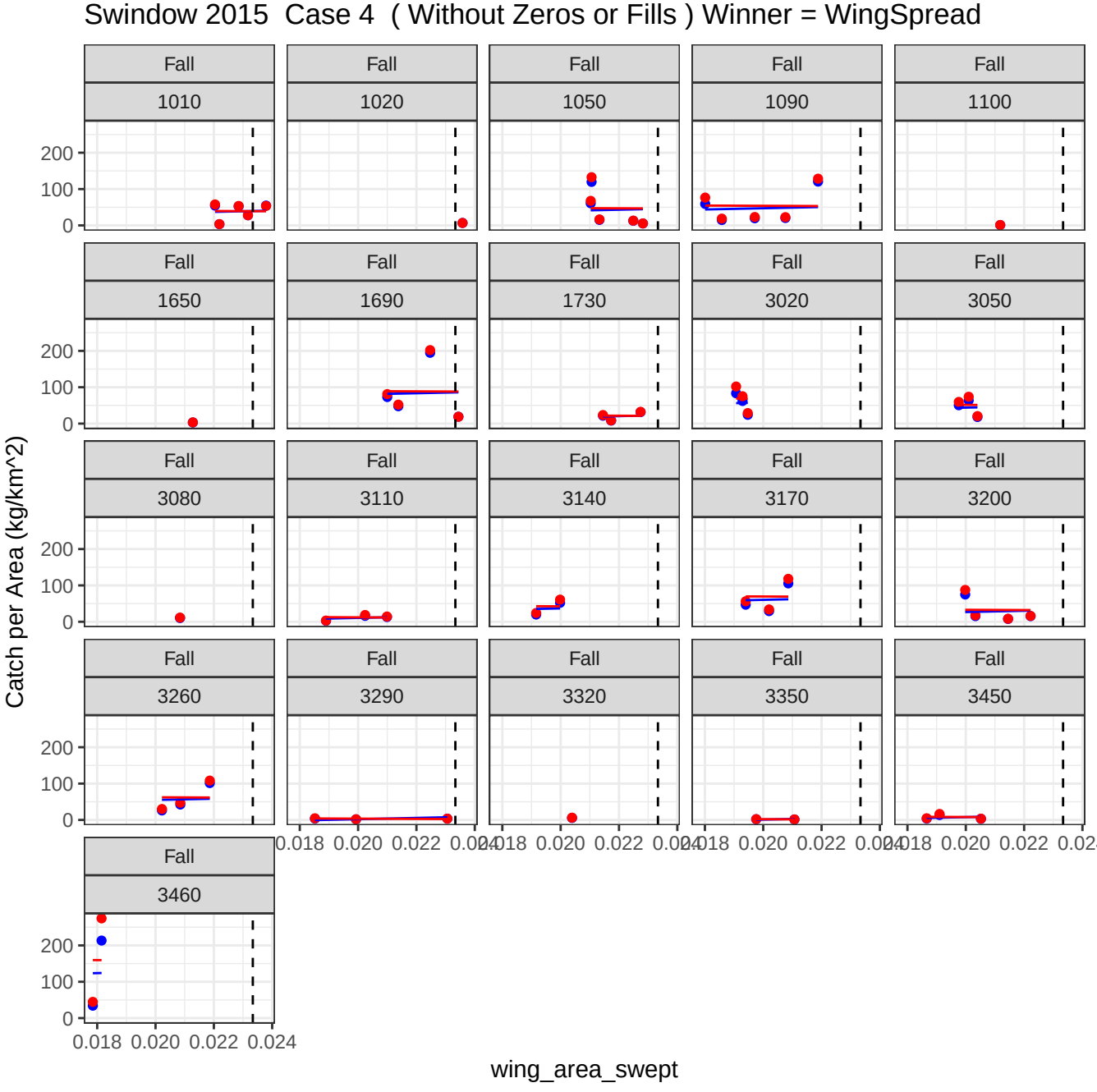

Swindow 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1010
1050
1060
1090
1100
1610
1650
1690
1730
3020
3050
3080
3110
3140
3170
3200
3230
3260
3290
3320
3350
3380
3440
3450
3460
Catch per Area (kg/km^2)
0
100
200
300
400
0.019
0.021
0.023
0.025
wing_area_swept

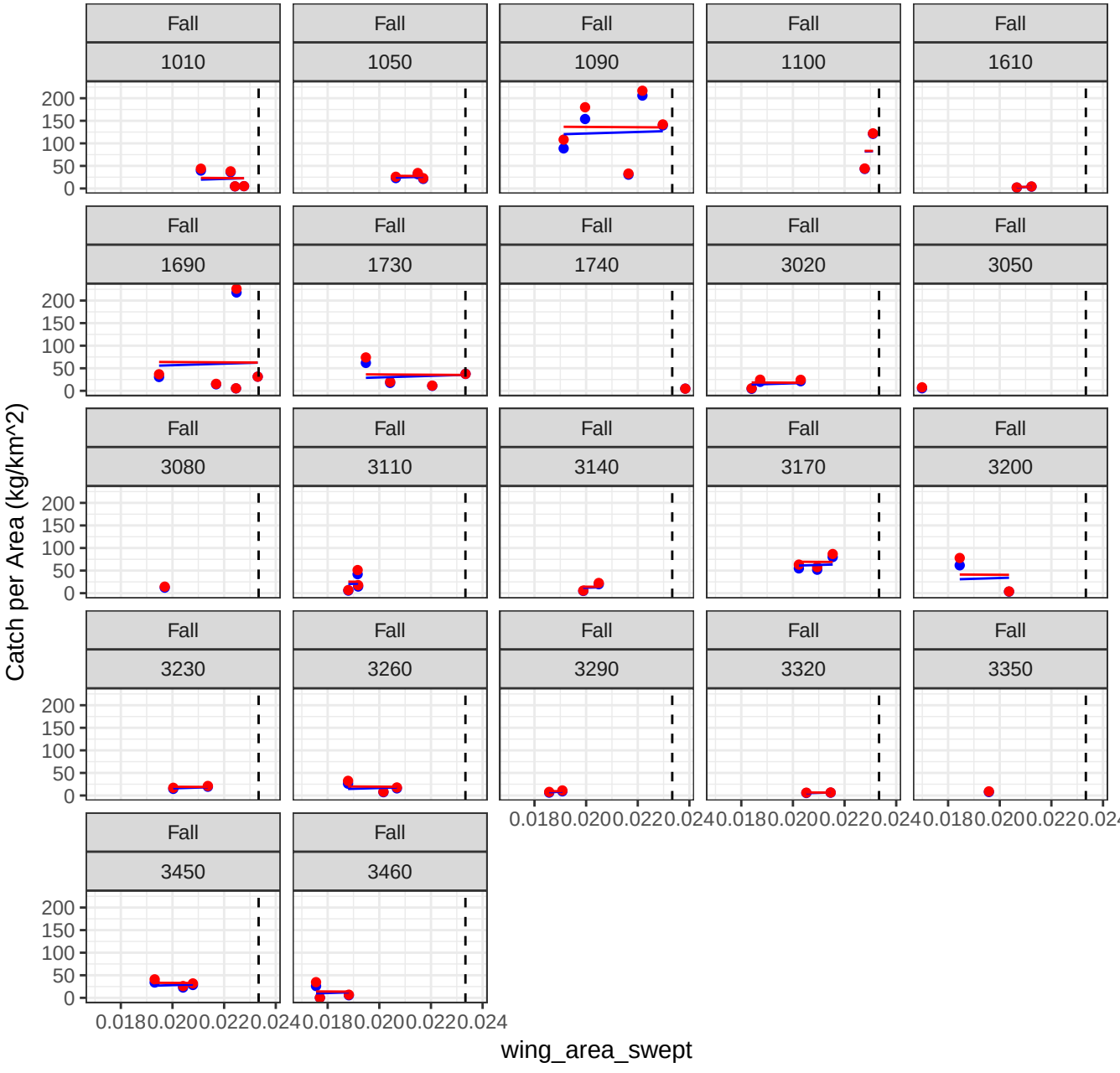

Swindow 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1010
1090
1650
1690
1730
3020
3050
3080
3140
3170
3200
3230
3260
3290
3320
3410
3450
3460
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
0.016
0.018
0.020
0.022

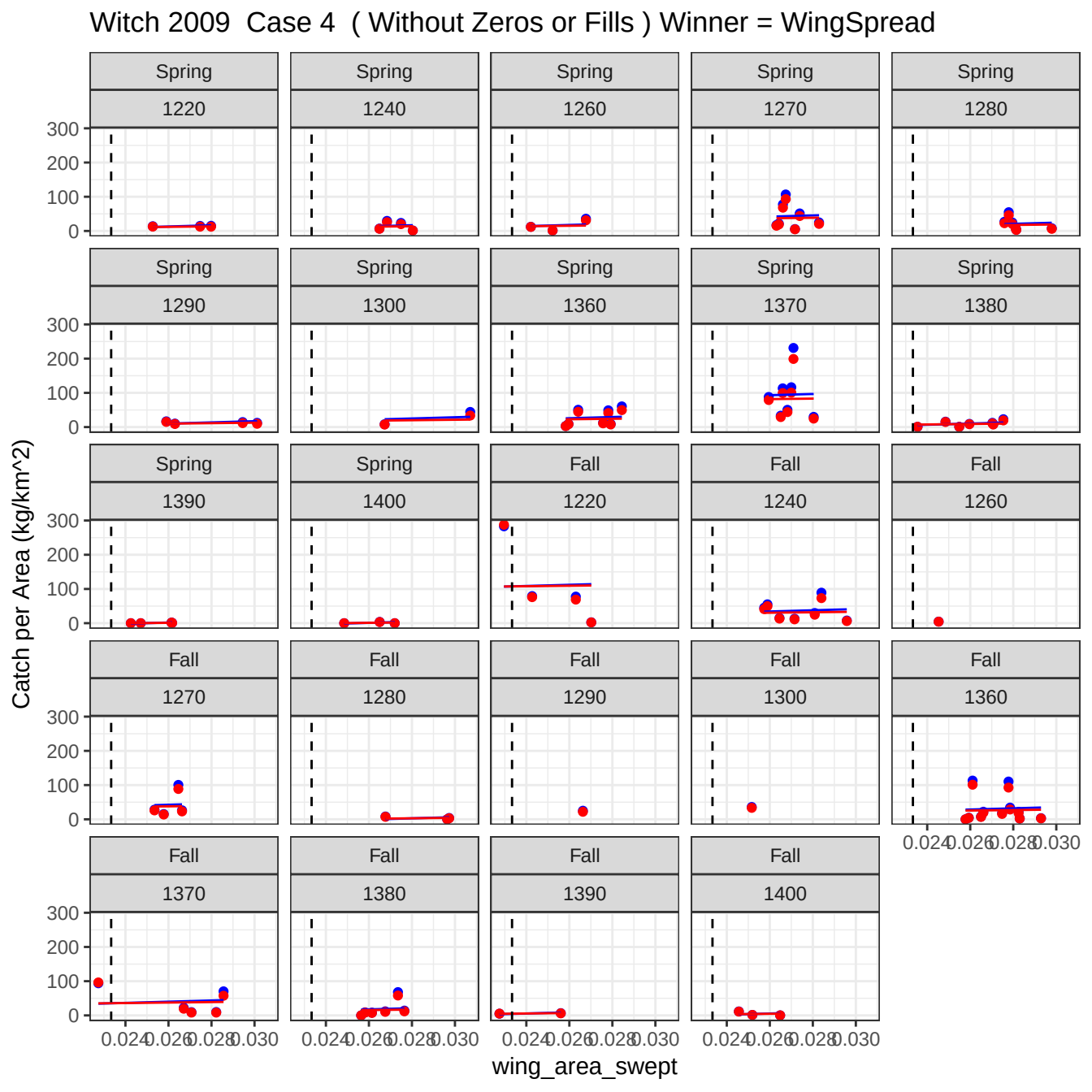

Swindow 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1010
1050
1090
1610
1650
1690
1700
1730
3020
3050
3080
3110
3140
3170
3200
3230
3290
3320
3350
3380
3410
3450
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
0.016
0.018
0.020
0.022

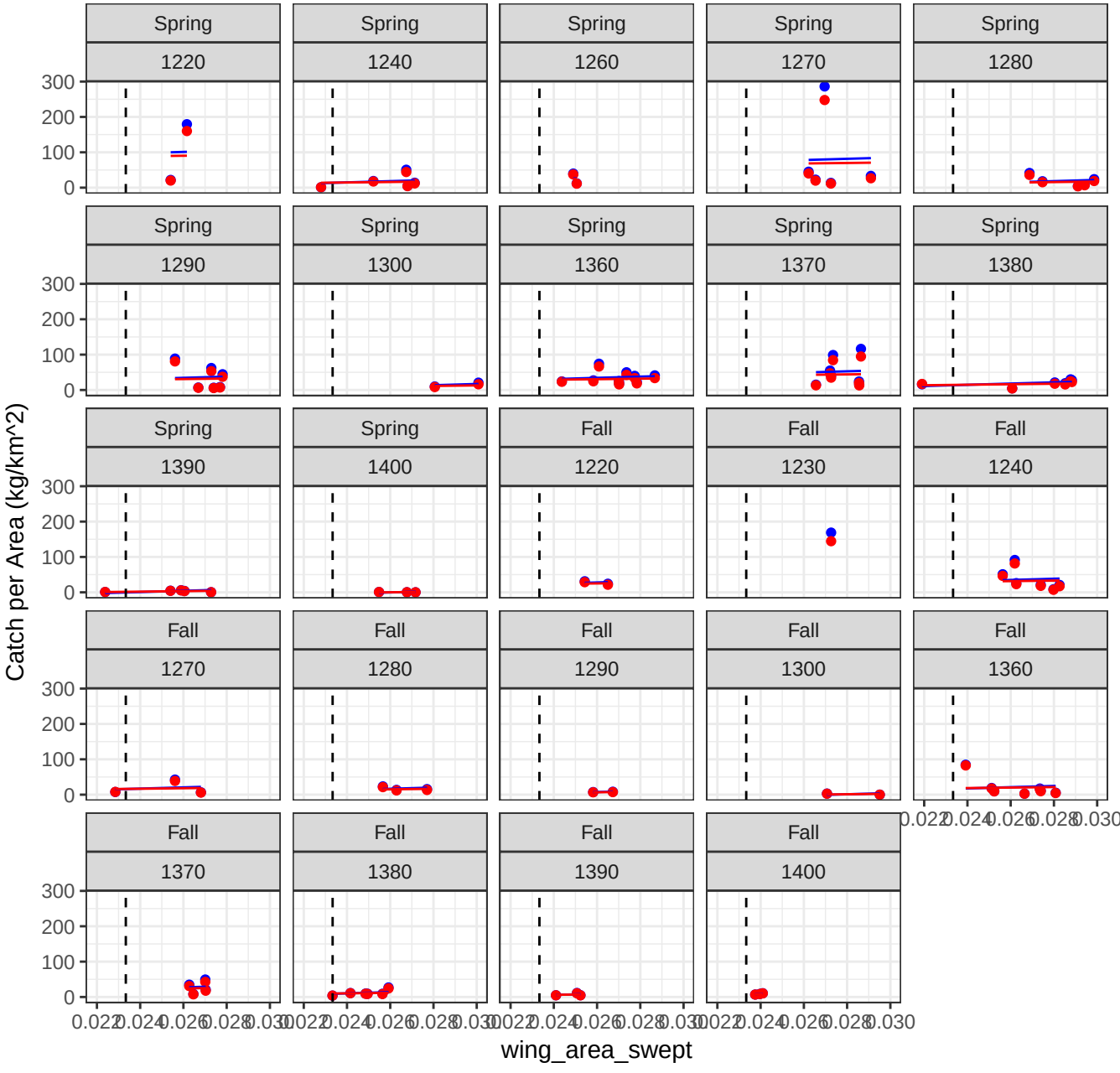

Swindow 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1010
1050
1060
1090
1610
1650
1690
1730
3020
3050
3080
3110
3140
3170
3200
3230
3260
3290
3320
3350
3380
3410
3440
3450
3460
Catch per Area (kg/km^2)
wing_area_swept

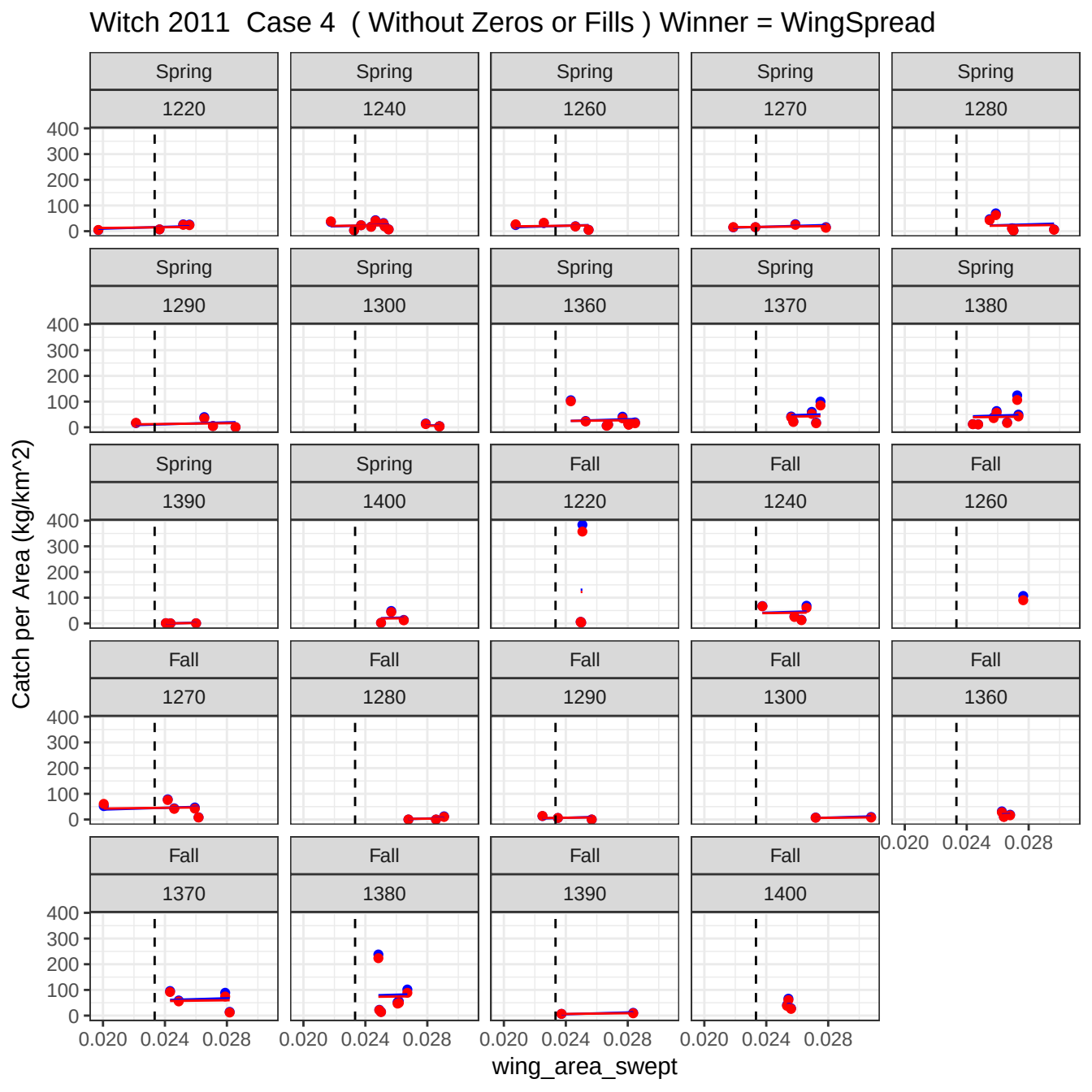

Swindow 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1010
1020
1050
1090
1100
1610
1650
1690
1730
1740
3020
3050
3080
3110
3140
3170
3200
3230
3260
3290
3320
3350
3380
3410
3450
3460
Catch per Area (kg/km^2)
wing_area_swept
0
50
100
150
0.019
0.021
0.023

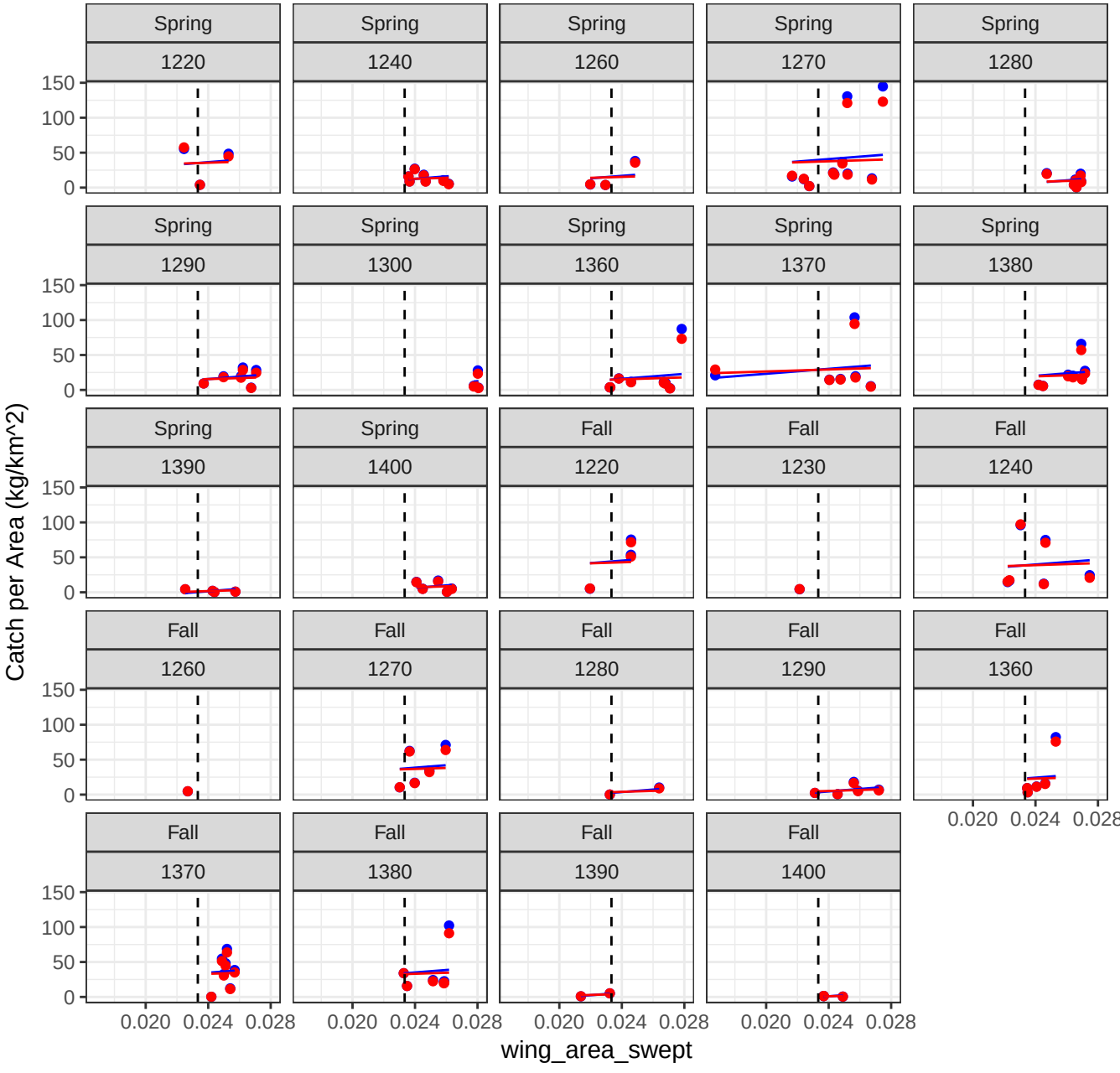

Swindow 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1010
1020
1050
1090
1100
1650
1690
1730
3020
3050
3080
3110
3140
3170
3200
3260
3290
3320
3350
3450
3460
Catch per Area (kg/km^2)
wing_area_swept
0
100
200
0.018
0.020
0.022
0.024

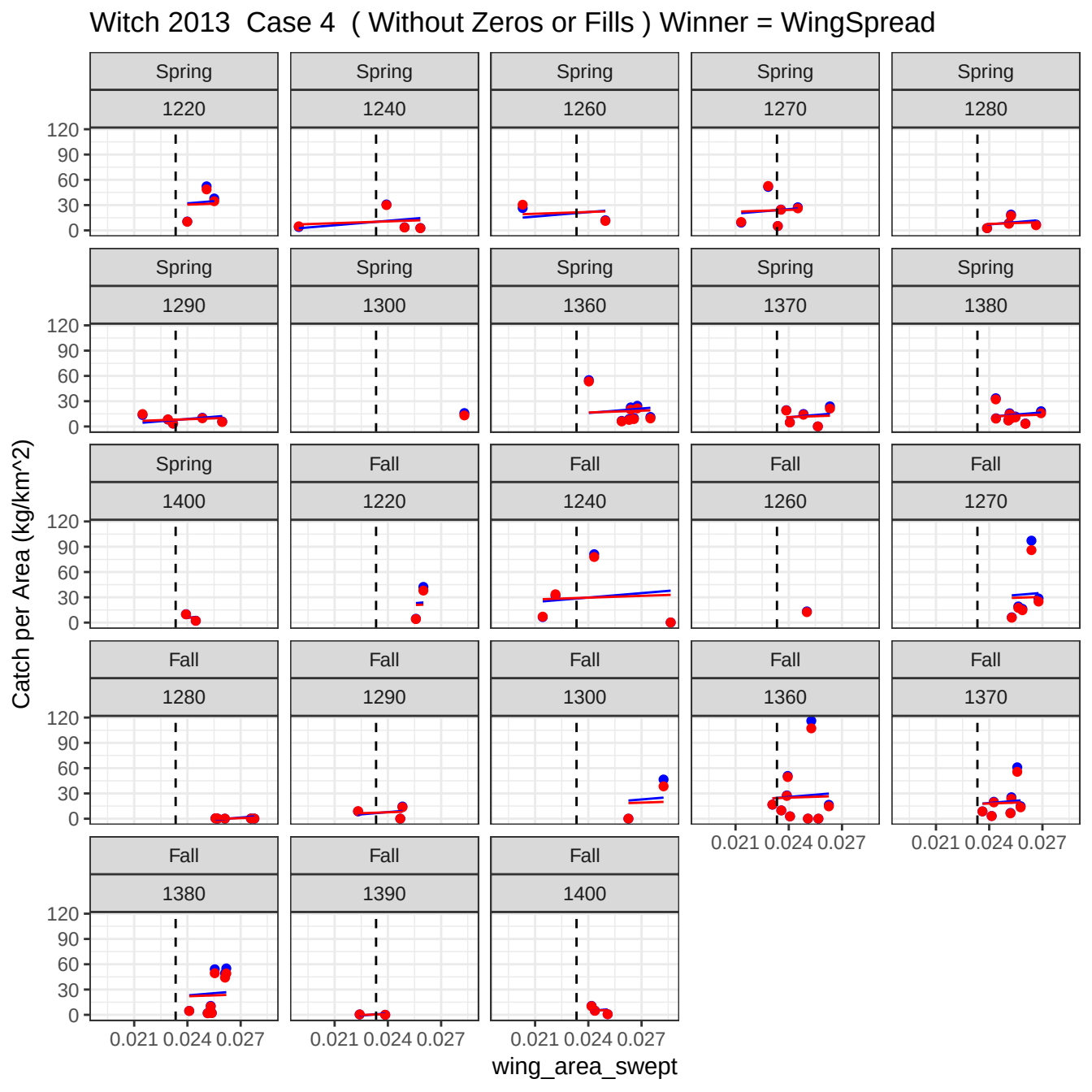

Swindow 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1010
1050
1090
1100
1610
1690
1730
1740
3020
3050
3080
3110
3140
3170
3200
3230
3260
3290
3320
3350
3450
3460
Catch per Area (kg/km^2)
0
50
100
150
200
0.018
0.020
0.022
0.024
wing_area_swept

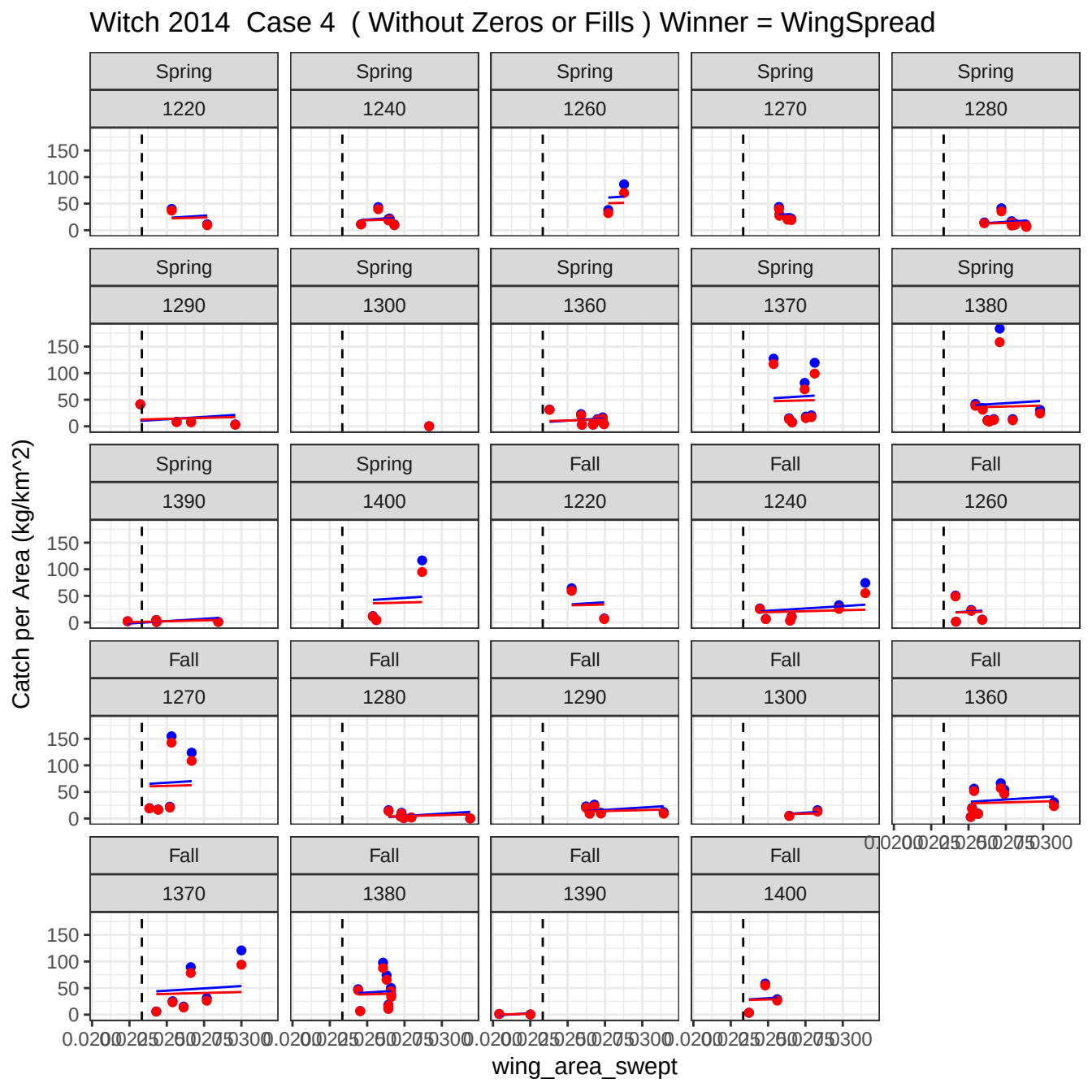

Witch 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
100
200
300
0.024
0.026
0.028
0.030
wing_area_swept

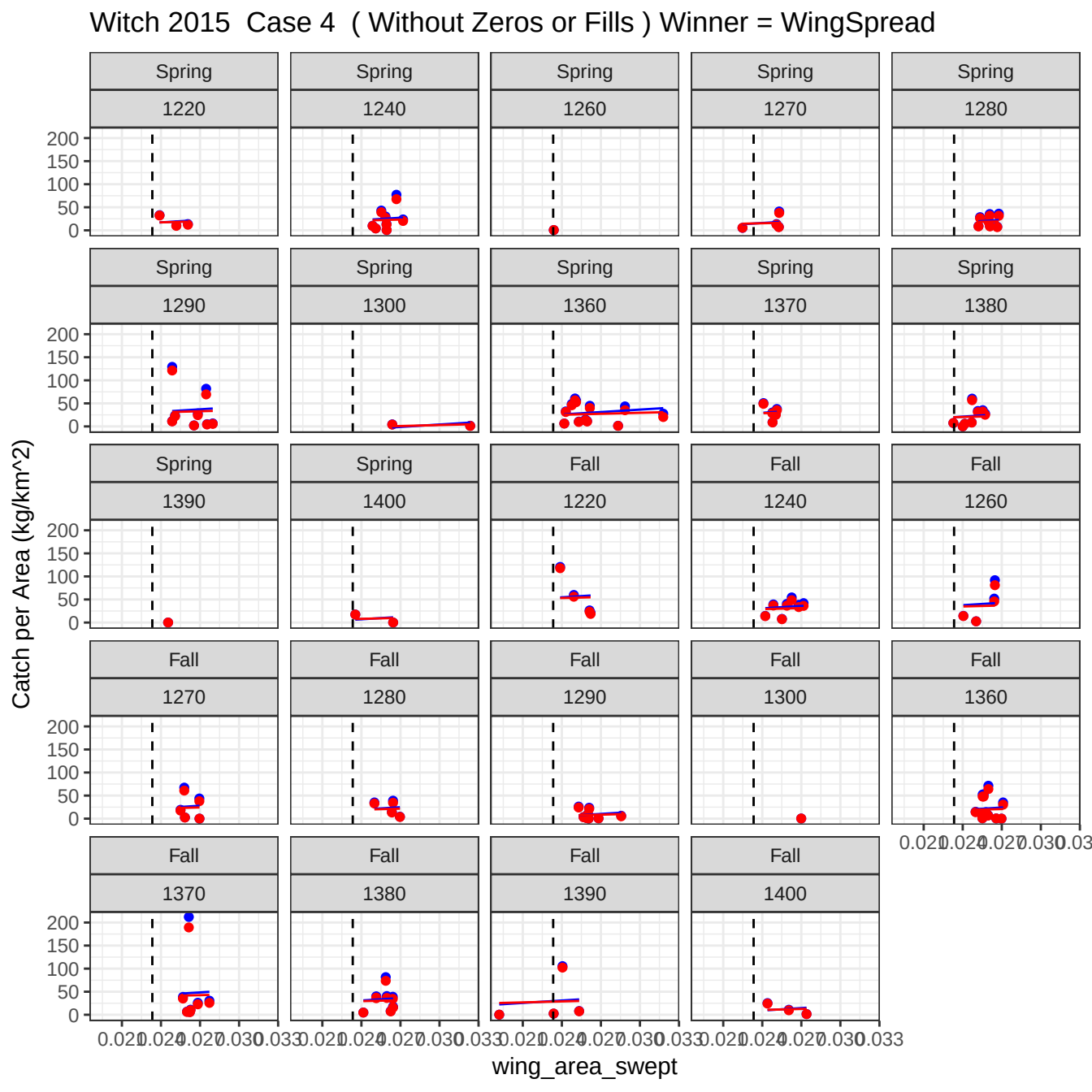

Witch 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1230
Fall 1240
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
100
200
300
wing_area_swept
0.022
0.024
0.026
0.028
0.030

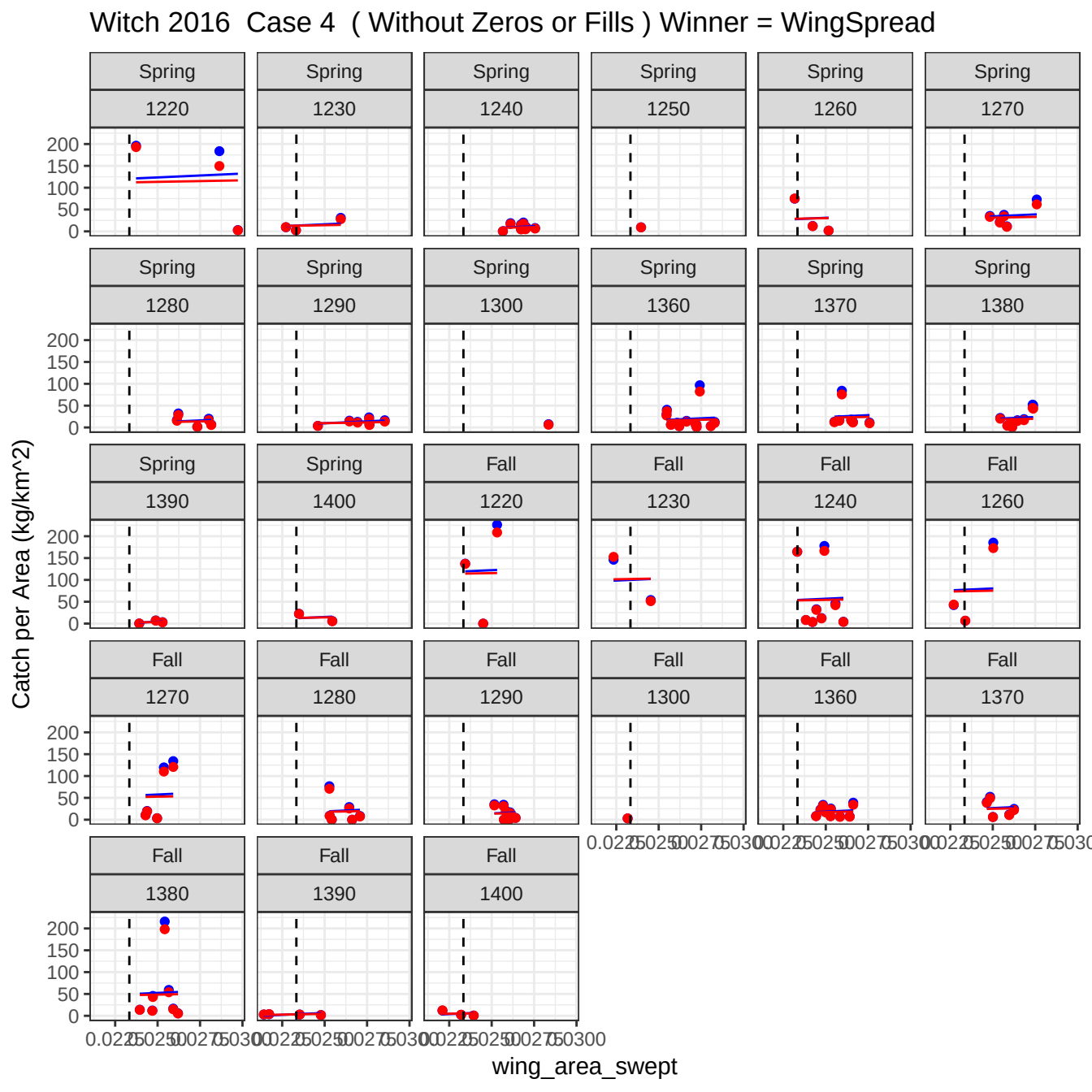

Witch 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
100
200
300
400
0.020
0.024
0.028
wing_area_swept

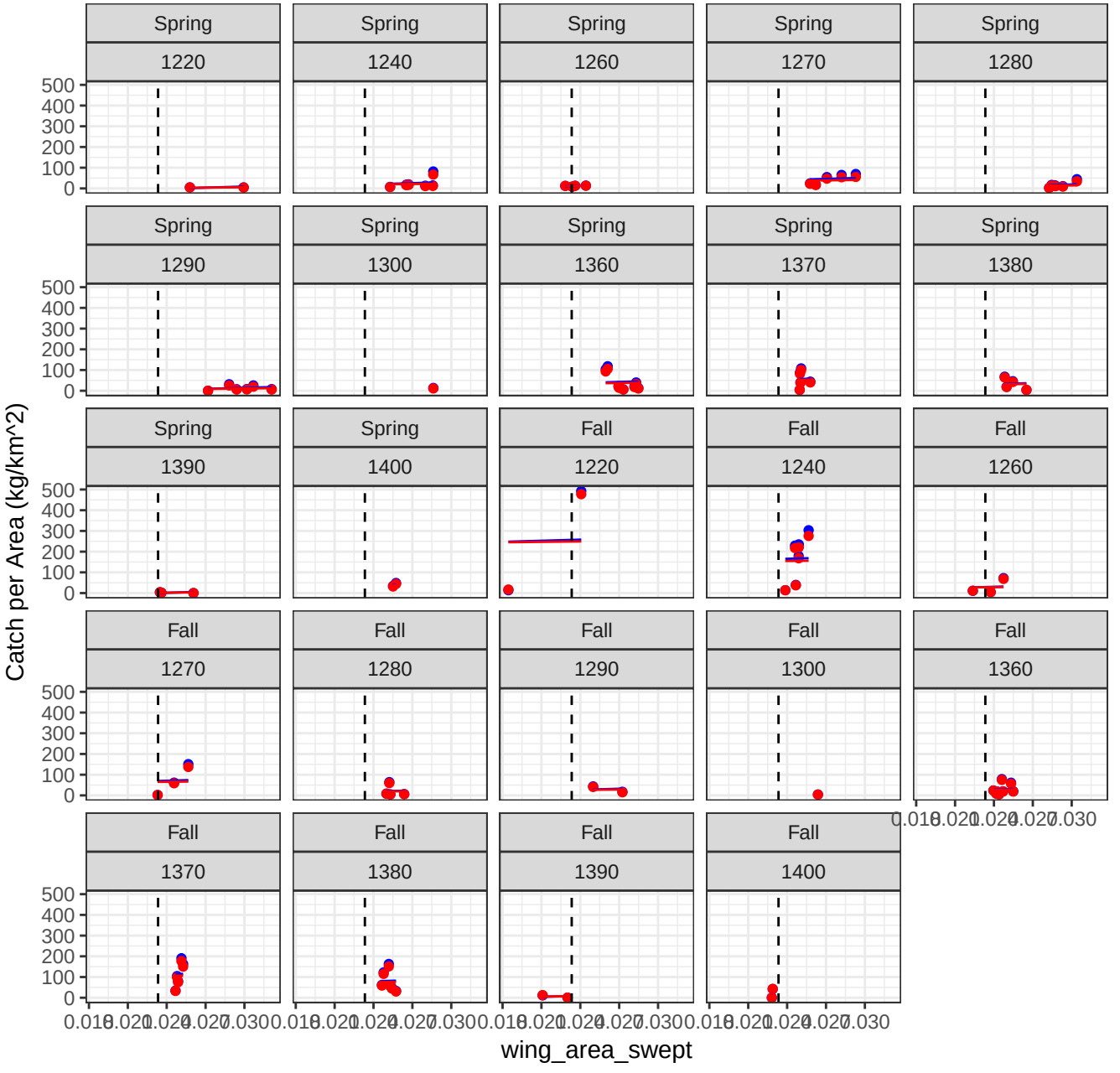

Witch 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
50
100
150
0.020
0.024
0.028
wing_area_swept

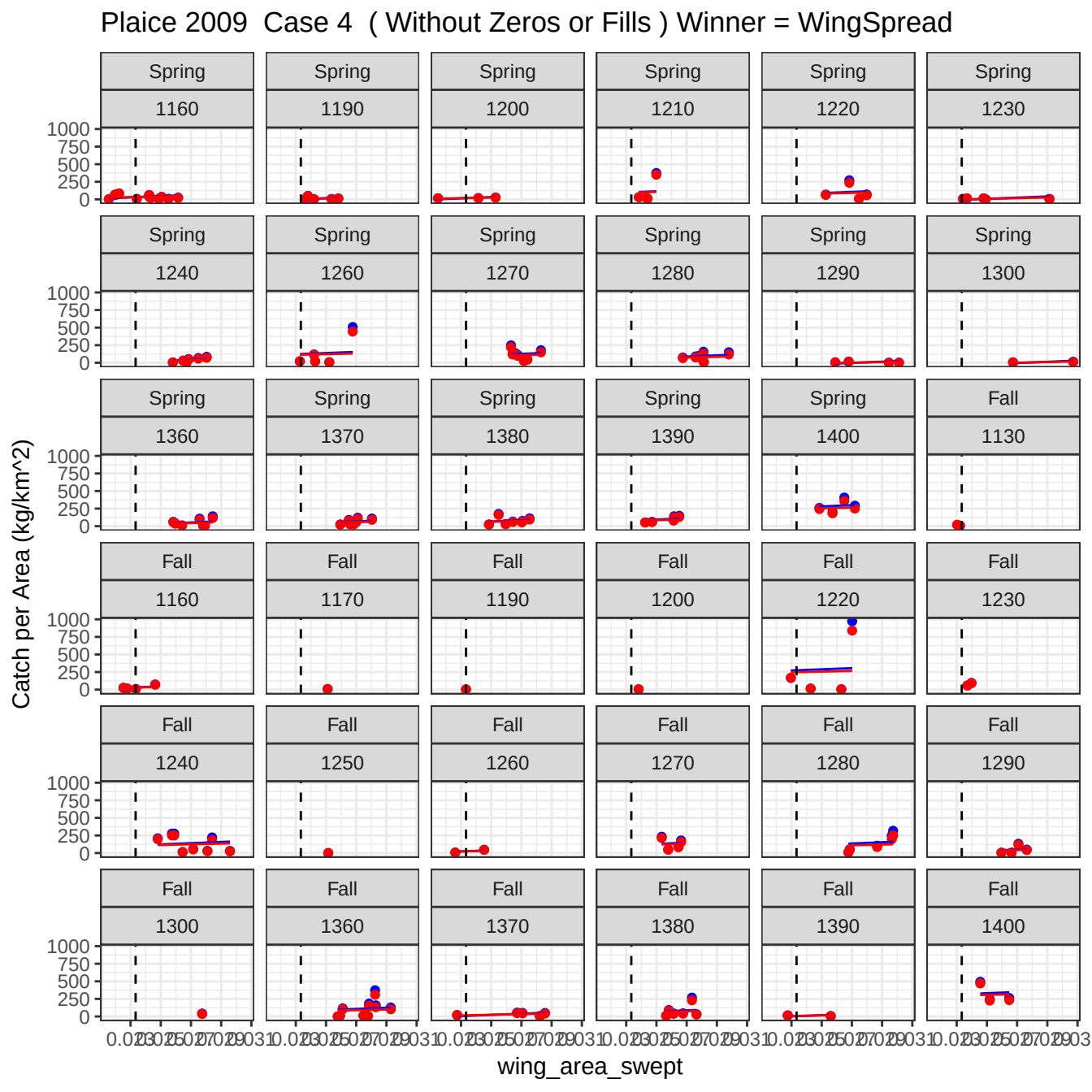

Witch 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1400
Fall 1220
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0 30 60 90 120
0.021 0.024 0.027
wing_area_swept

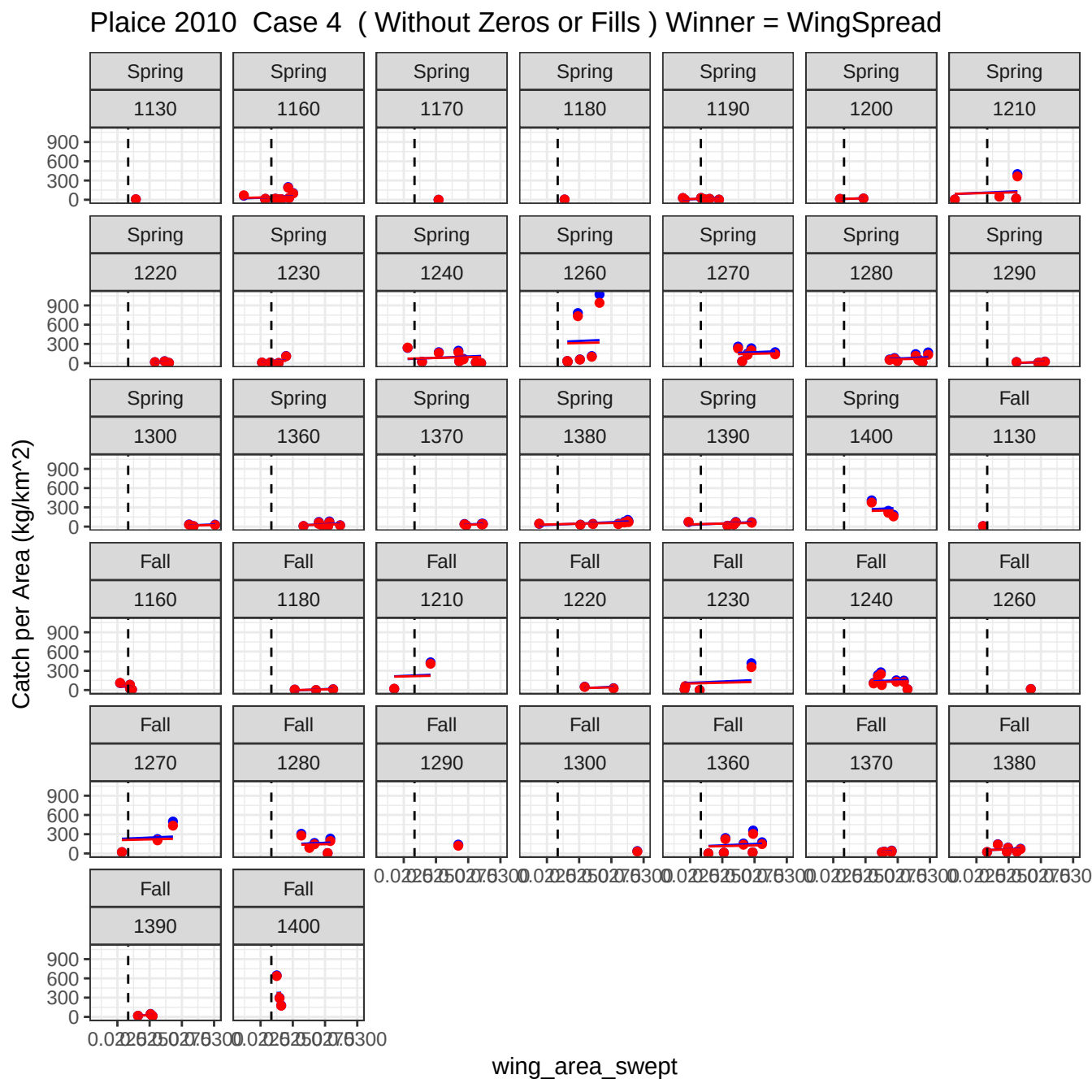

Witch 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept

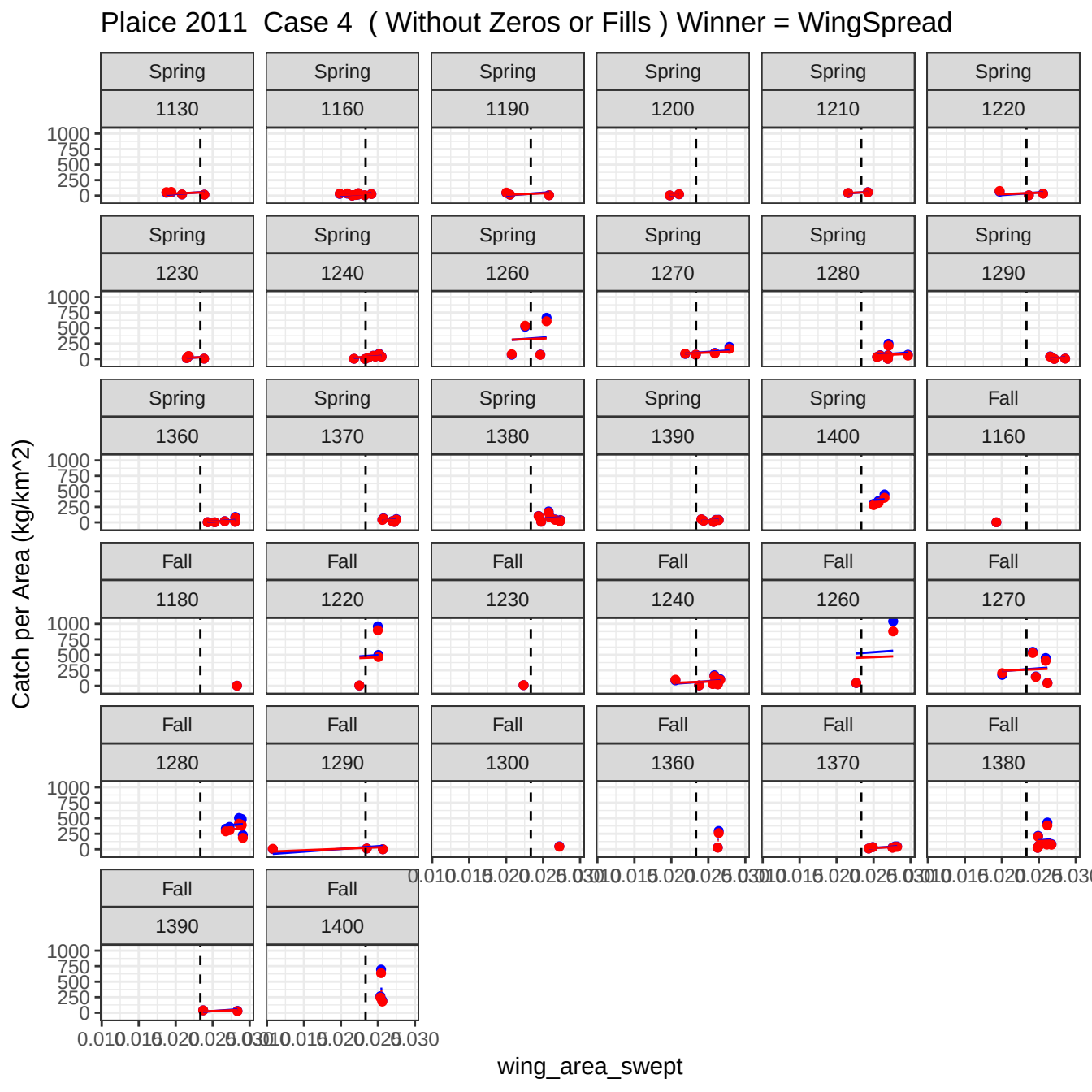

Witch 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
50
100
150
200
0.021
0.024
0.027
0.030
0.033
wing_area_swept


Witch 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept

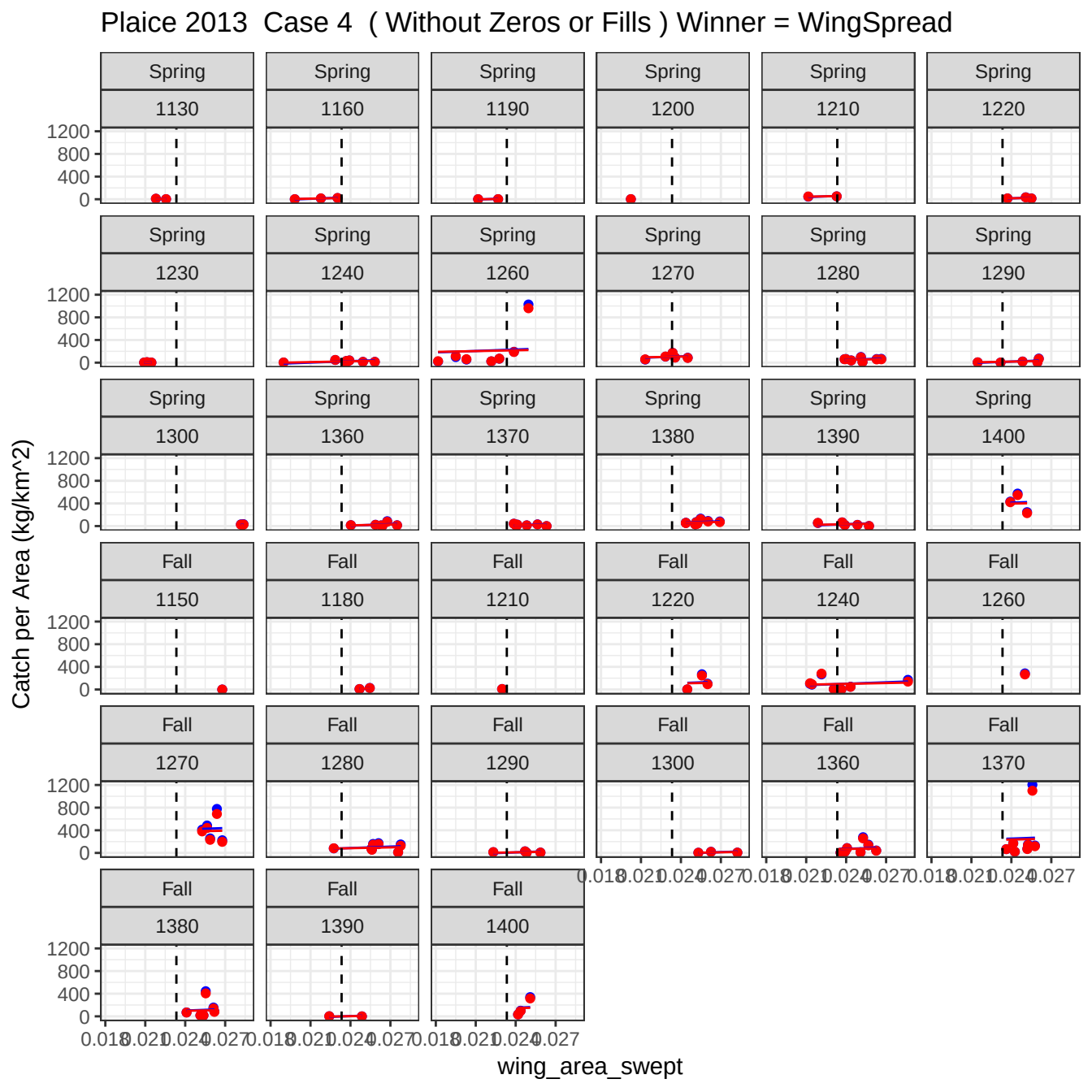

Witch 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1220
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1220
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
100
200
300
400
500
0.018
0.021
0.024
0.027
0.030
wing_area_swept

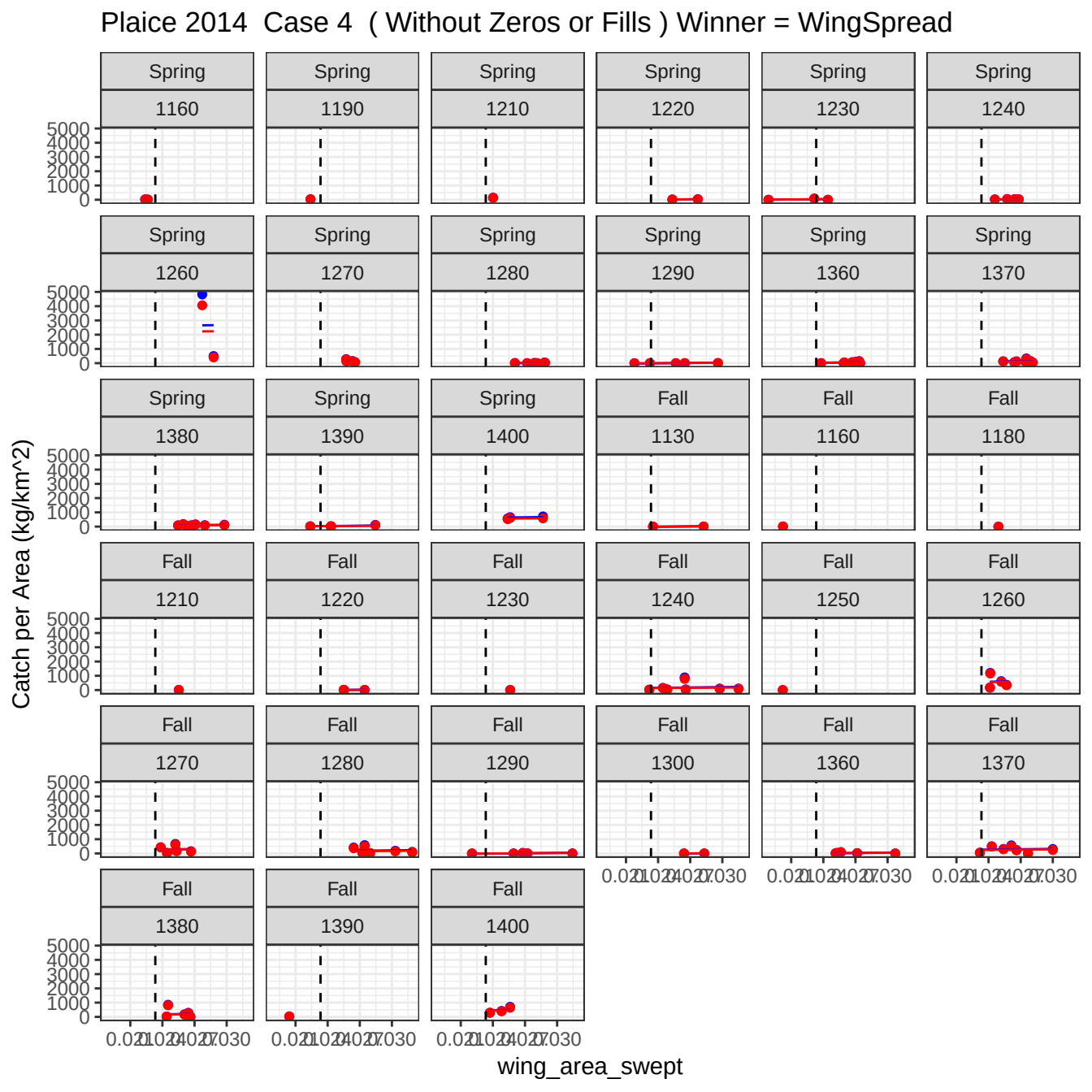

Plaice 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1160
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1130
Fall 1160
Fall 1170
Fall 1190
Fall 1200
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
wing_area_swept

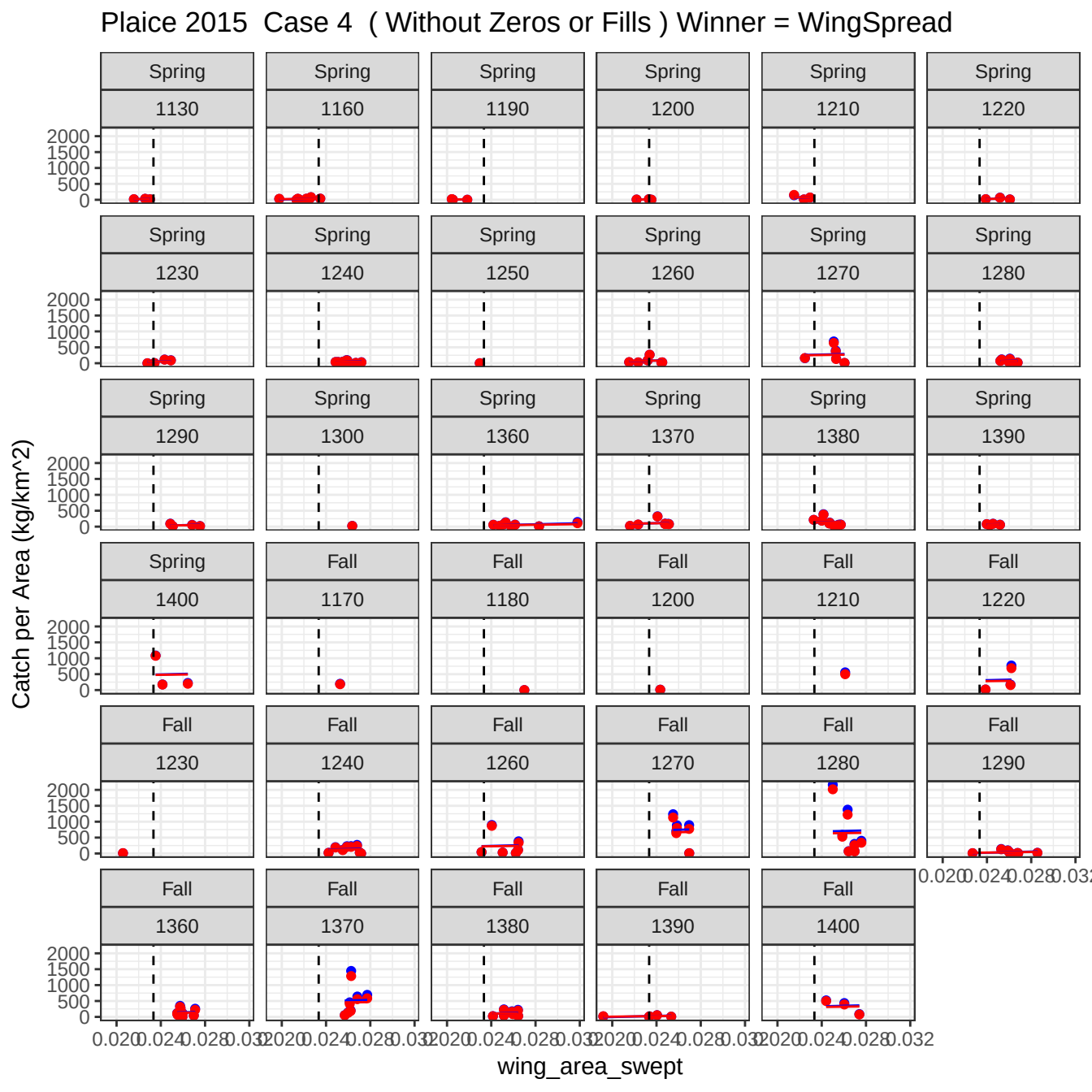

Plaice 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1130
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1130
Fall 1160
Fall 1180
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
900
600
300
0
Catch per Area (kg/km^2)
wing_area_swept


Plaice 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1130
Spring 1160
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1160
Fall 1180
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
250
500
750
1000
0.010
0.015
0.020
0.025
0.030
wing_area_swept

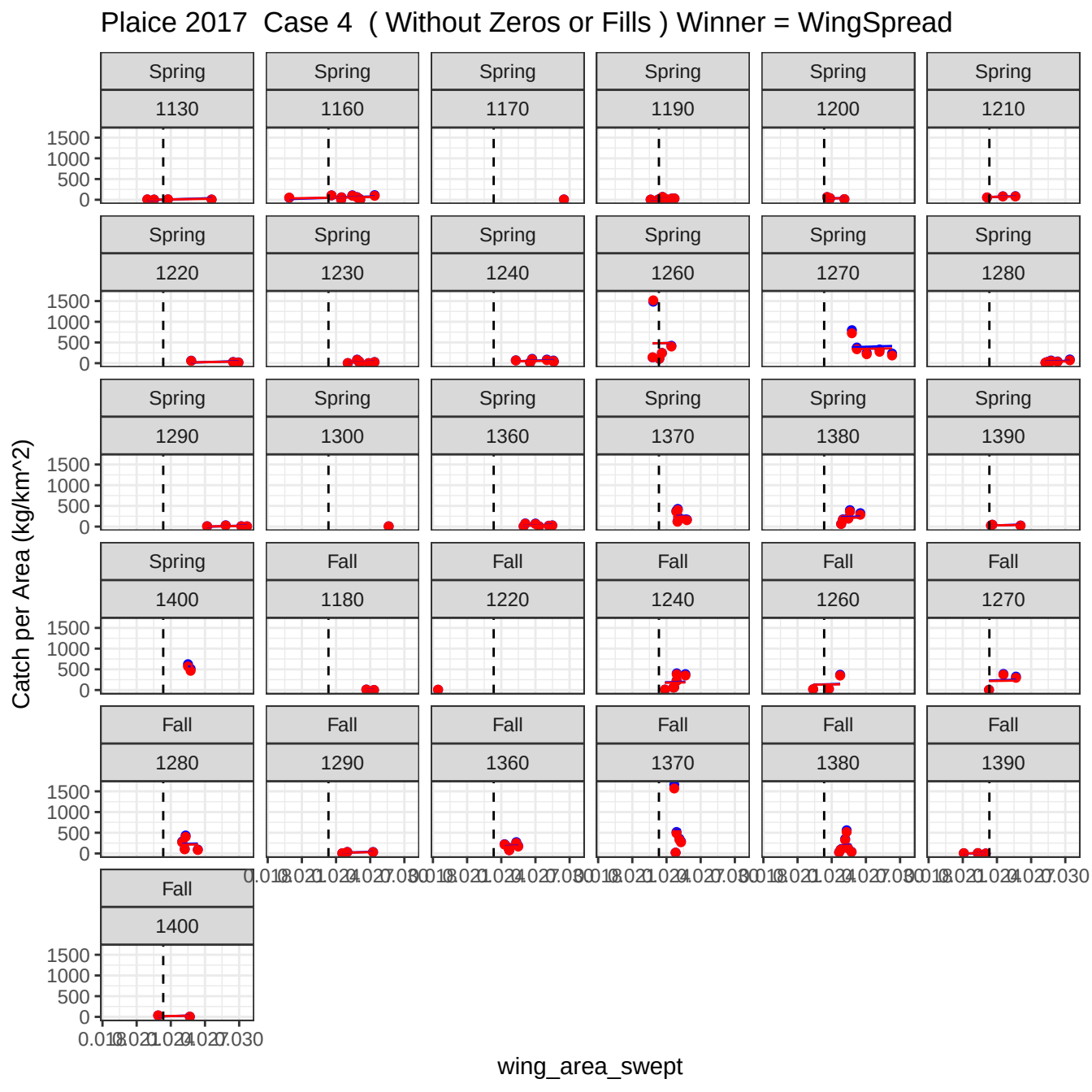
Plaice 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1130
Spring 1160
Spring 1190
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1130
Fall 1160
Fall 1170
Fall 1180
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
900
600
300
0
0.020 0.024 0.028
Catch per Area (kg/km^2)
wing_area_swept

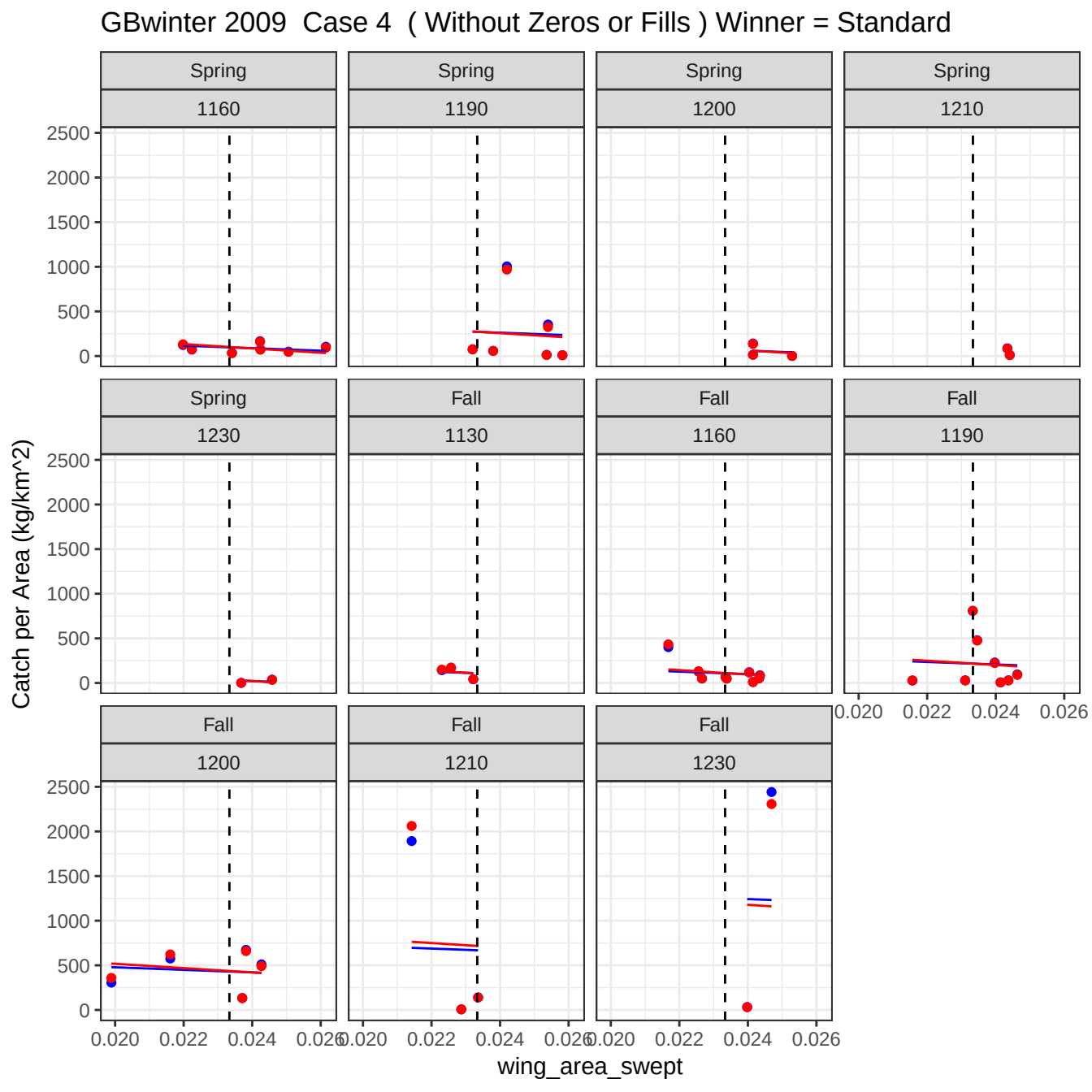

Plaice 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1130
Spring 1160
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1150
Fall 1180
Fall 1210
Fall 1220
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
0
400
800
1200
0.018
0.021
0.024
0.027
Catch per Area (kg/km^2)
wing_area_swept

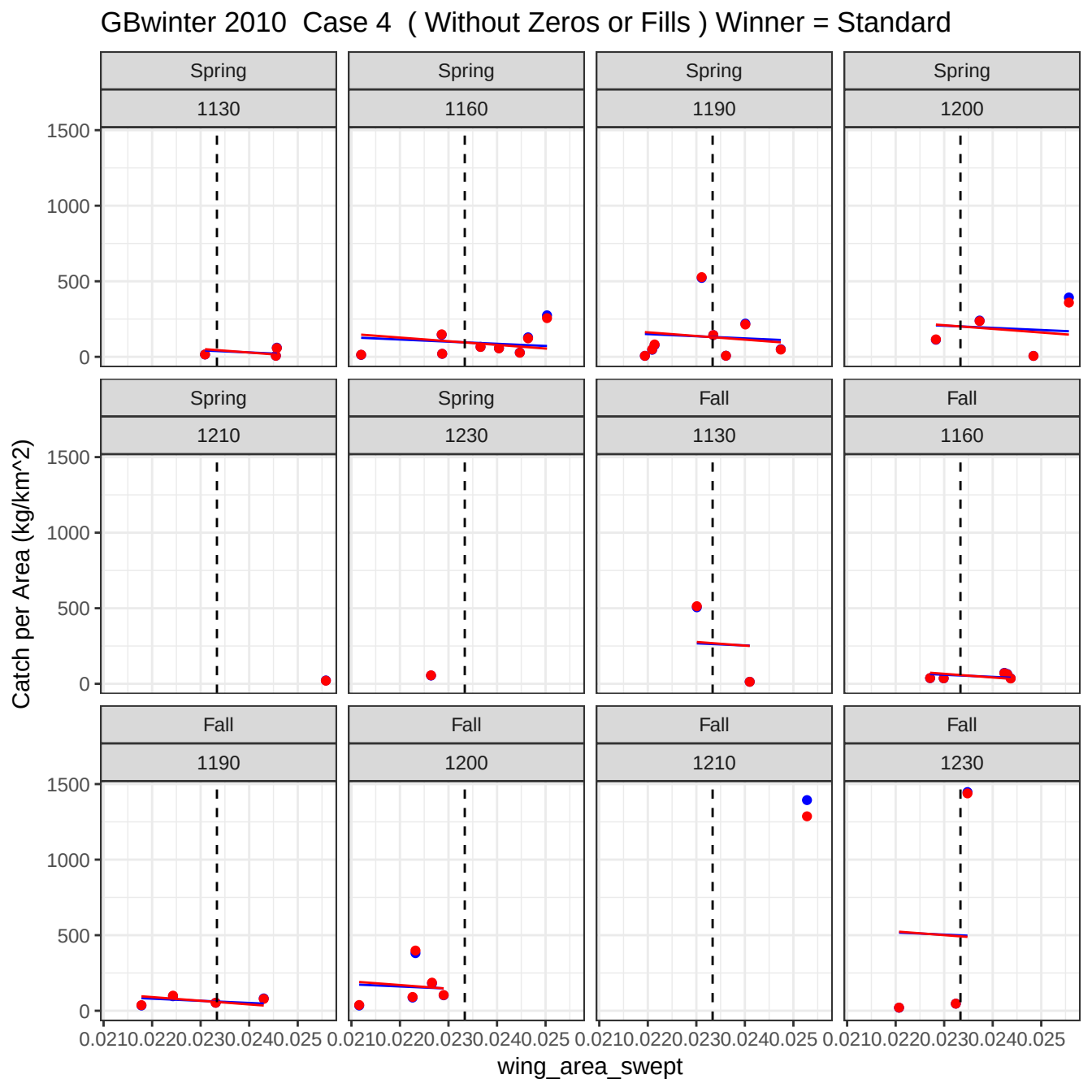

Plaice 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1160
Spring 1190
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1130
Fall 1160
Fall 1180
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1250
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1300
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
0
1000
2000
3000
4000
5000
Catch per Area (kg/km^2)
wing_area_swept

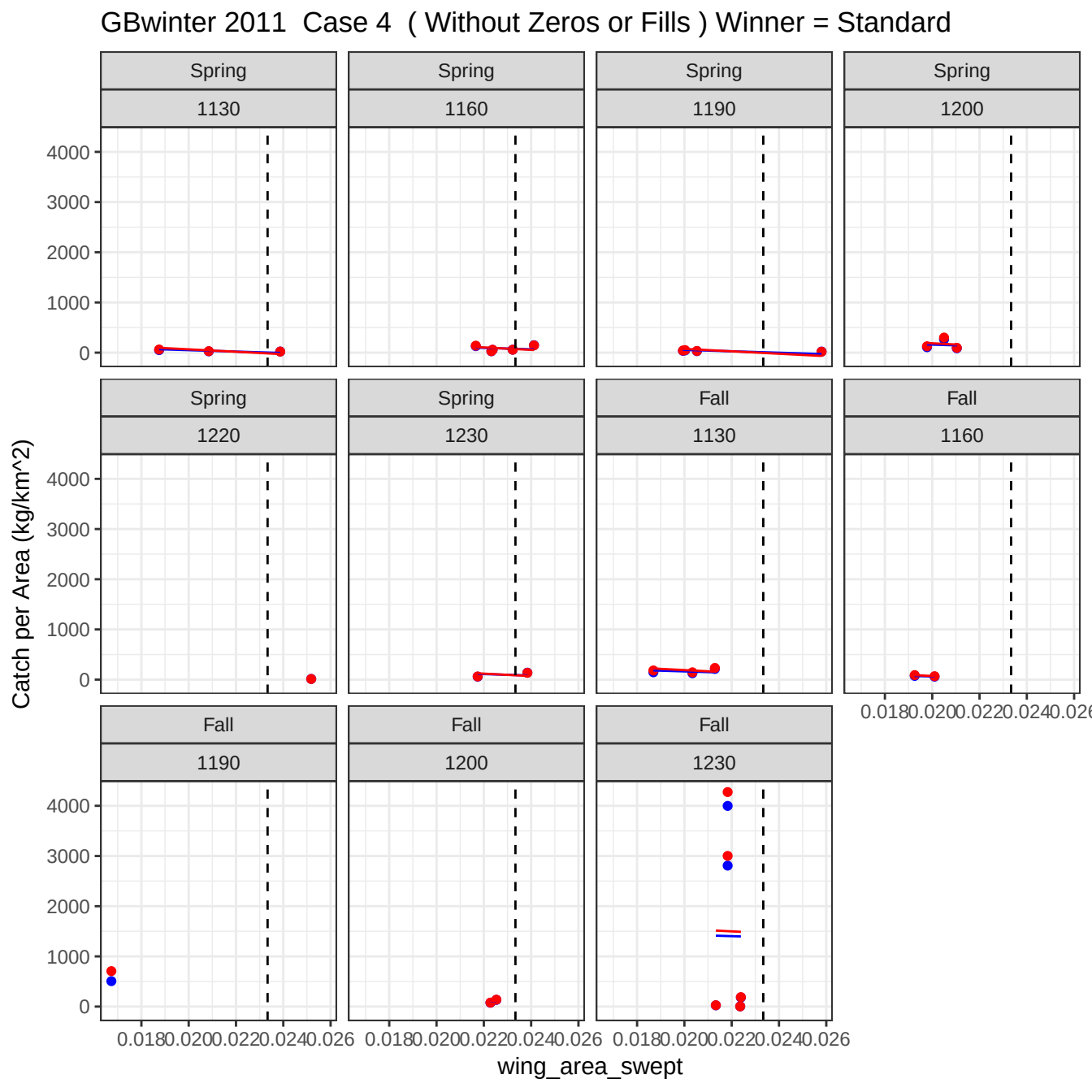

Plaice 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1130
Spring 1160
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1170
Fall 1180
Fall 1200
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
Catch per Area (kg/km^2)
0
500
1000
1500
2000
0.020
0.024
0.028
0.032
wing_area_swept

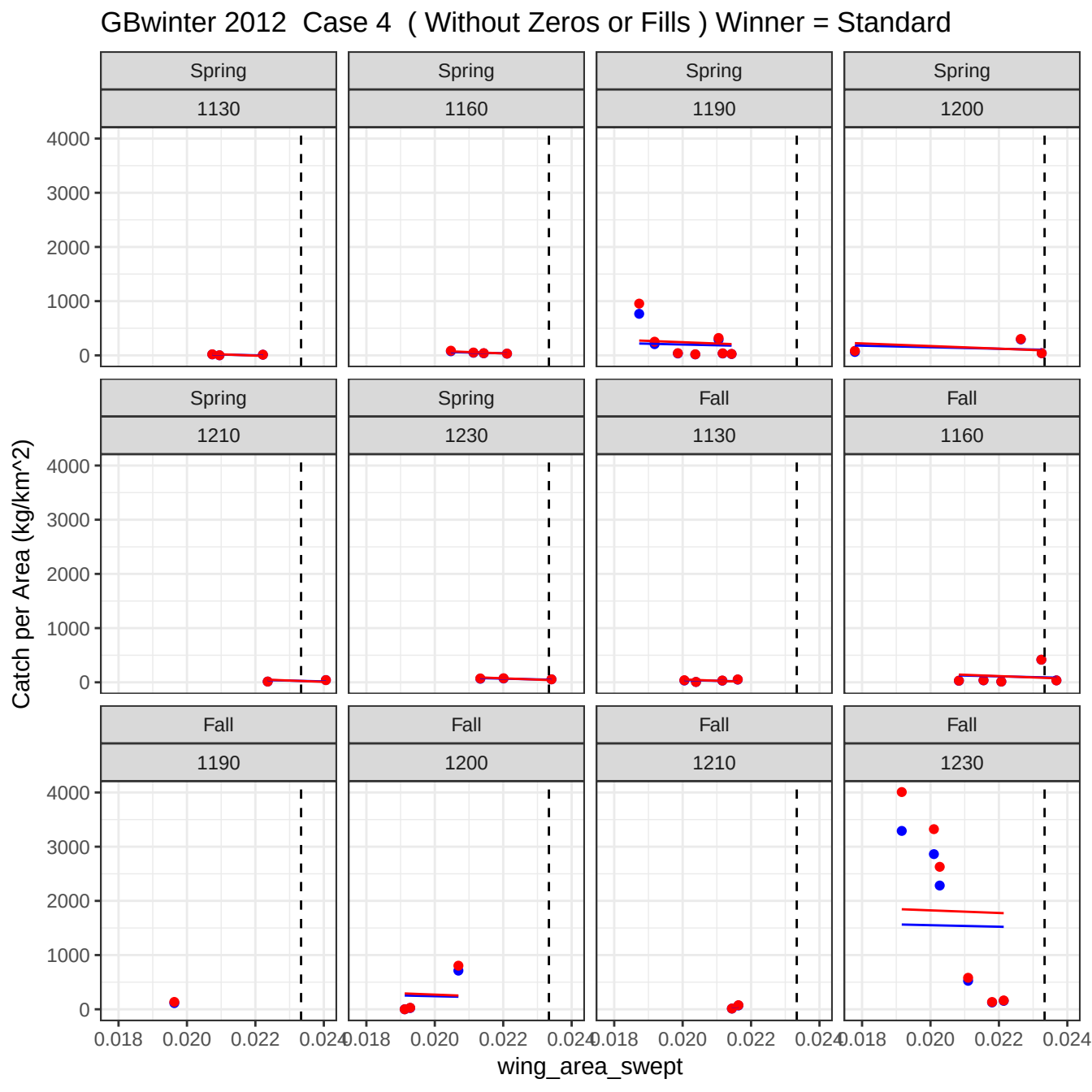
Plaice 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1130
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1210
Fall 1220
Fall 1230
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
3000
2000
1000
0
Catch per Area (kg/km^2)
wing_area_swept

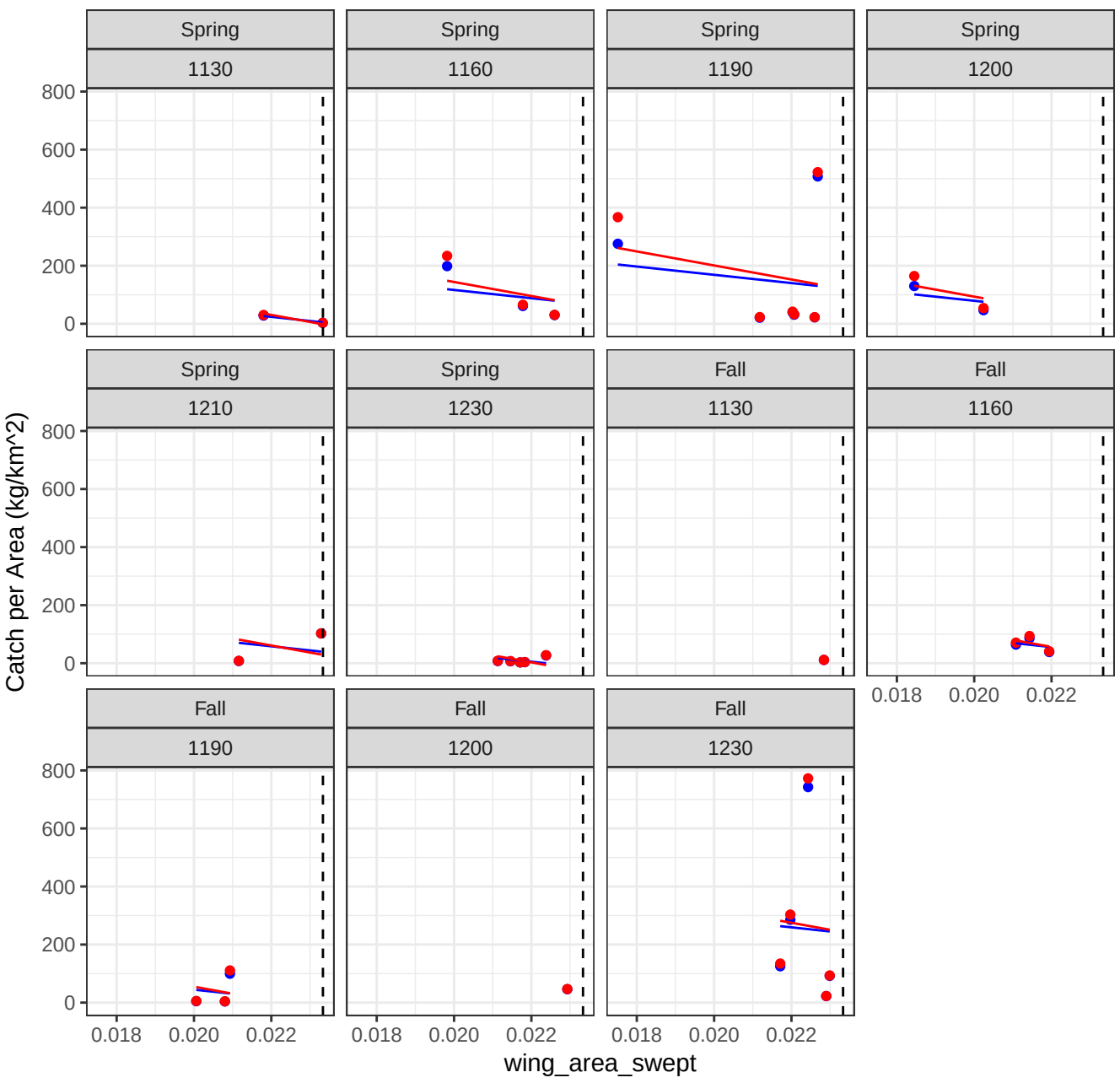

Plaice 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1130
Spring 1160
Spring 1170
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1260
Spring 1270
Spring 1280
Spring 1290
Spring 1300
Spring 1360
Spring 1370
Spring 1380
Spring 1390
Spring 1400
Fall 1180
Fall 1220
Fall 1240
Fall 1260
Fall 1270
Fall 1280
Fall 1290
Fall 1360
Fall 1370
Fall 1380
Fall 1390
Fall 1400
1500
1000
500
0
0.018
0.021
0.024
0.027
0.030
Catch per Area (kg/km^2)
wing_area_swept

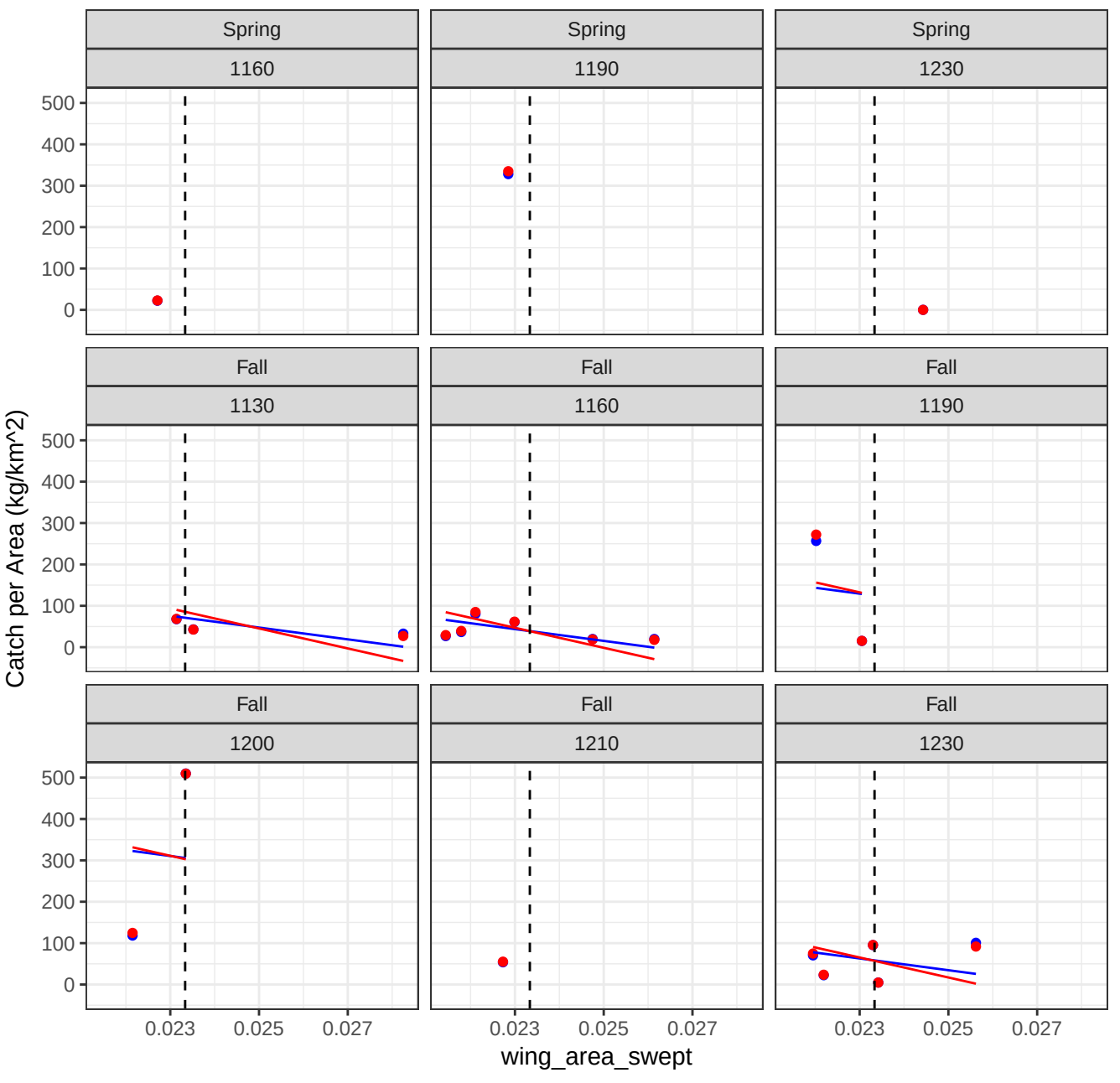

GBwinter 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1160
Spring
1190
Spring
1200
Spring
1210
Spring
1230
Fall
1130
Fall
1160
Fall
1190
Fall
1200
Fall
1210
Fall
1230
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
2000
2500
0.020
0.022
0.024
0.026

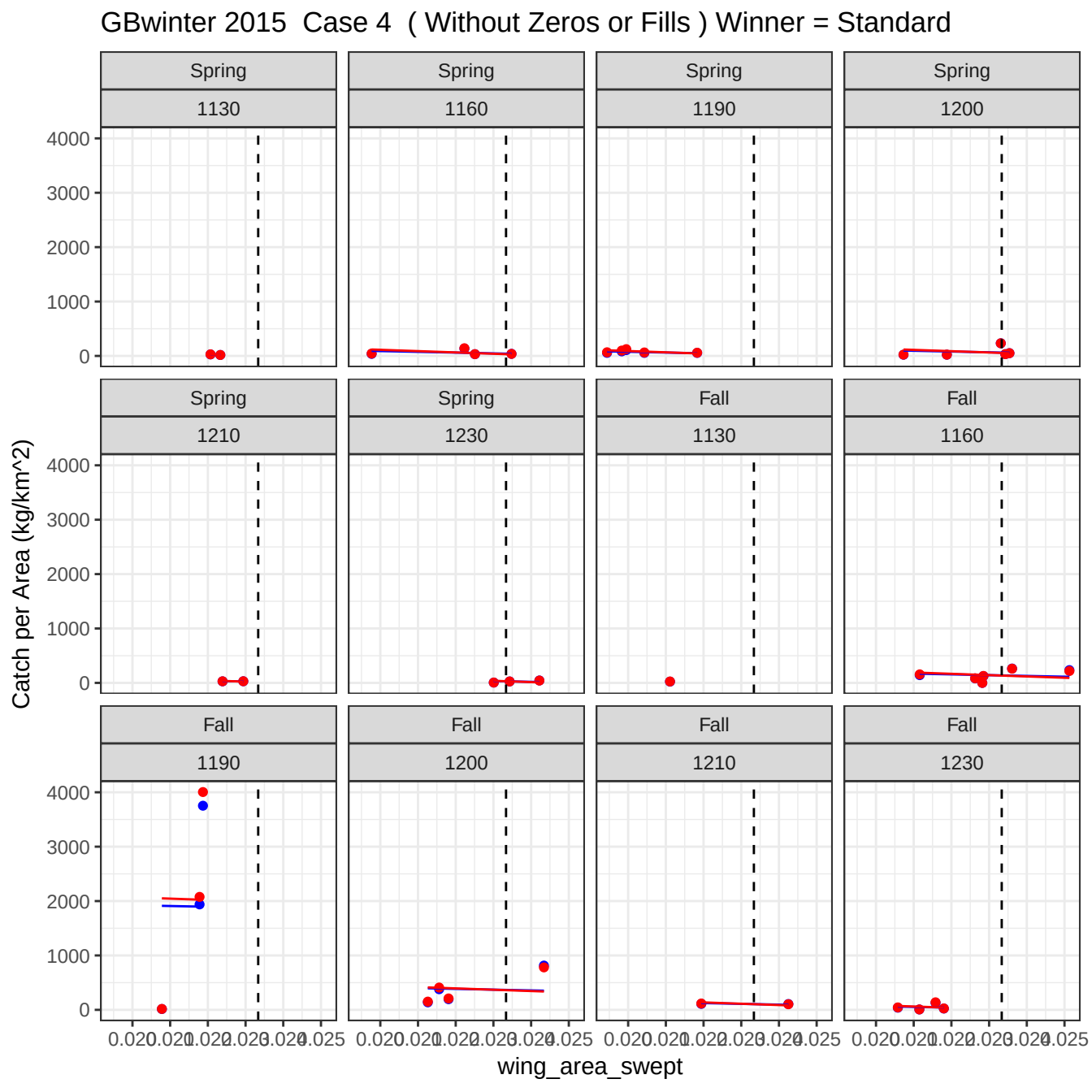

GBwinter 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Spring
1210
Spring
1230
Fall
1130
Fall
1160
Fall
1190
Fall
1200
Fall
1210
Fall
1230
Catch per Area (kg/km^2)
0
500
1000
1500
0.021
0.022
0.023
0.024
0.025
wing_area_swept

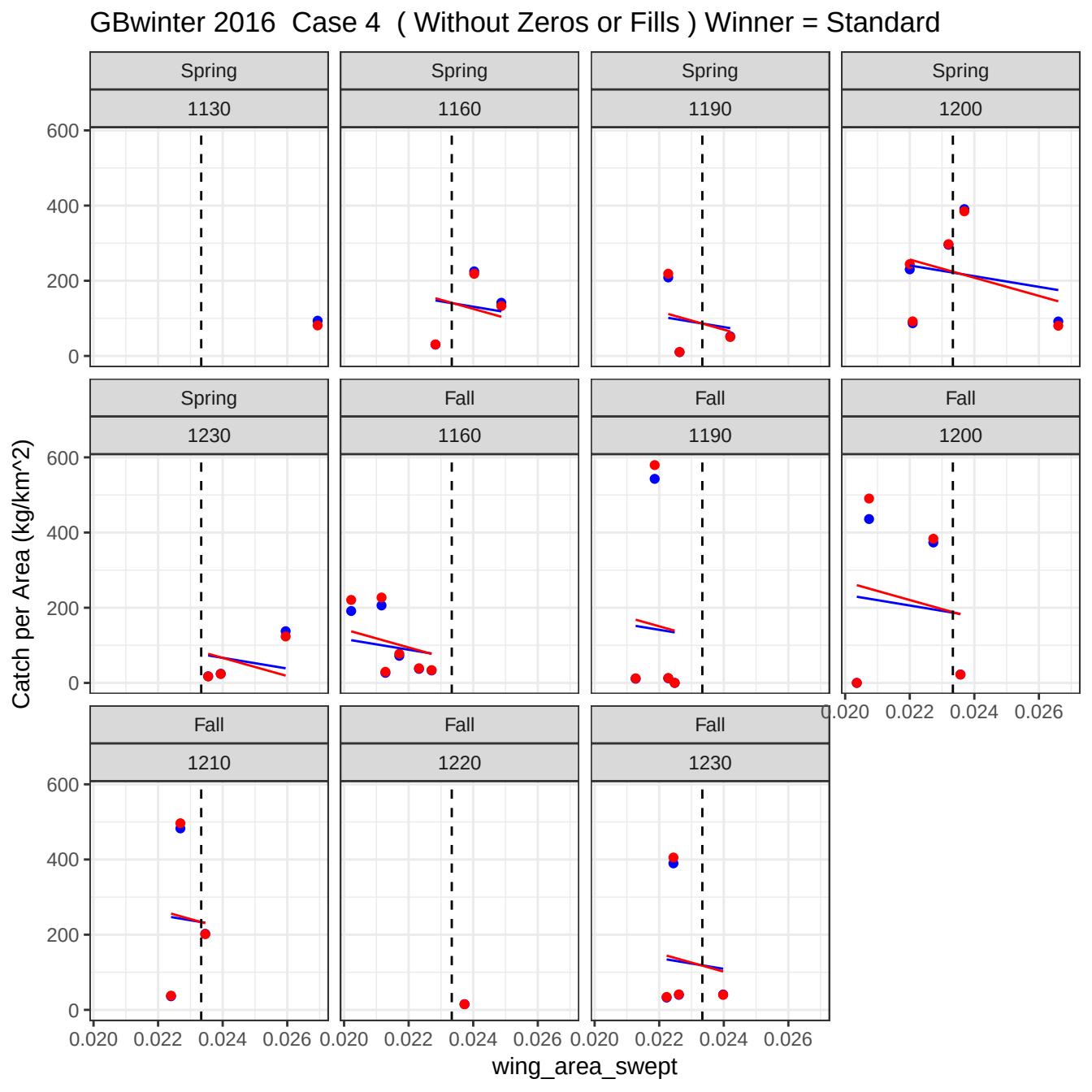

GBwinter 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Spring
1220
Spring
1230
Fall
1130
Fall
1160
Fall
1190
Fall
1200
Fall
1230
Catch per Area (kg/km^2)
wing_area_swept
0
1000
2000
3000
4000
0.018
0.020
0.022
0.024
0.026

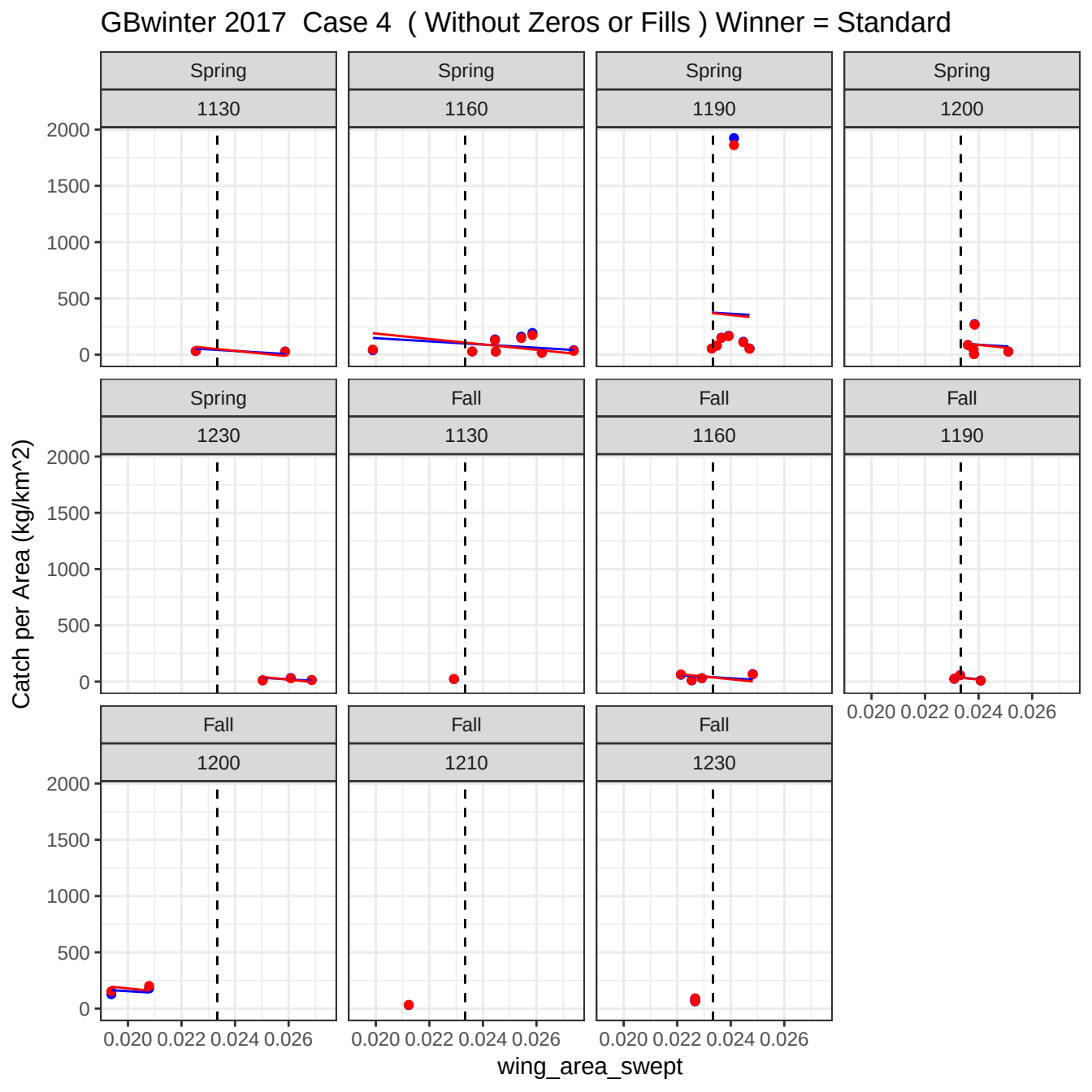

GBwinter 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Spring
1210
Spring
1230
Fall
1130
Fall
1160
Fall
1190
Fall
1200
Fall
1210
Fall
1230
Catch per Area (kg/km^2)
wing_area_swept
0
1000
2000
3000
4000
0.018
0.020
0.022
0.024

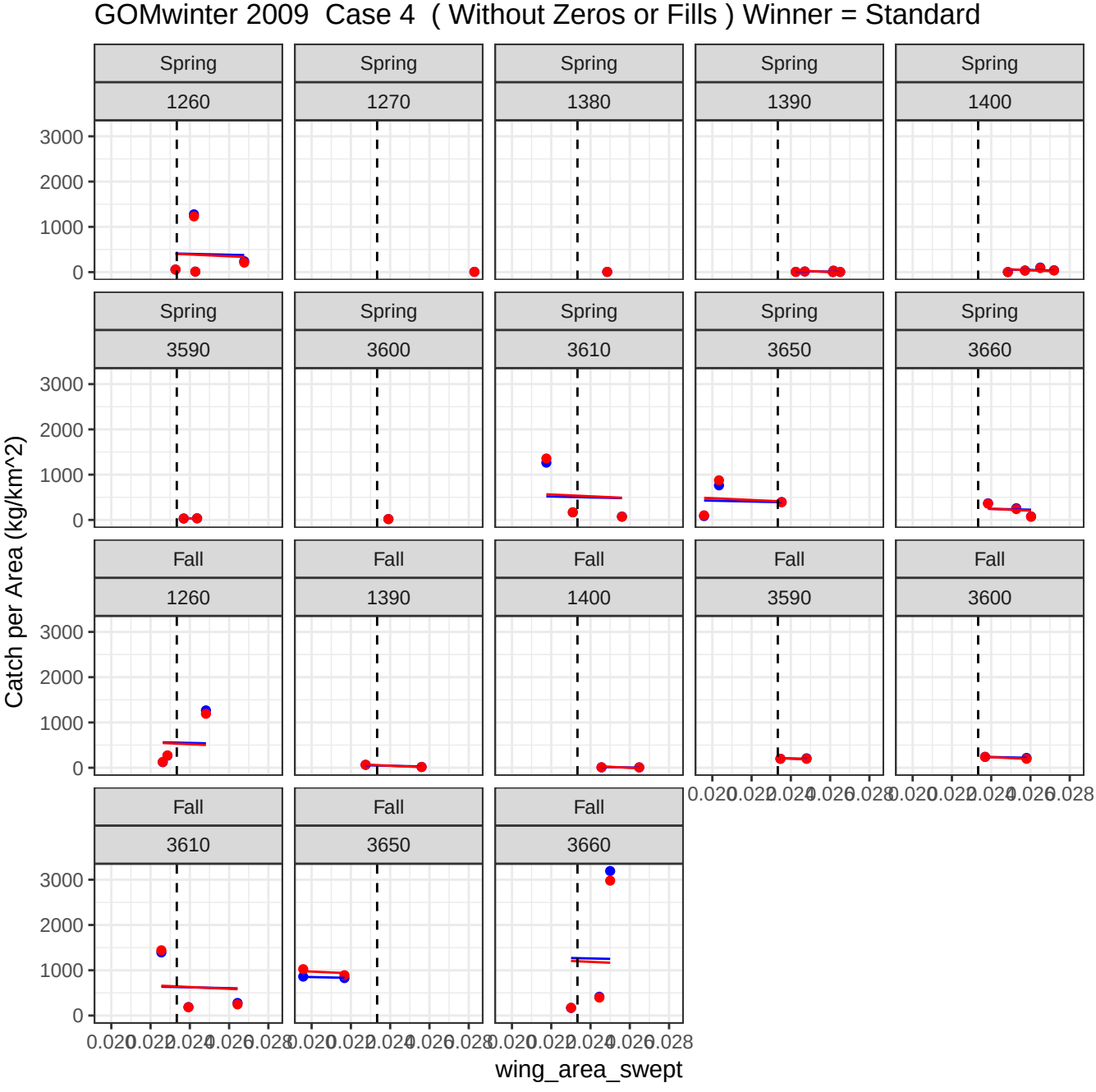

GBwinter 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Spring
1210
Spring
1230
Fall
1130
Fall
1160
Fall
1190
Fall
1200
Fall
1230
Catch per Area (kg/km^2)
0
200
400
600
800
0.018
0.020
0.022
wing_area_swept

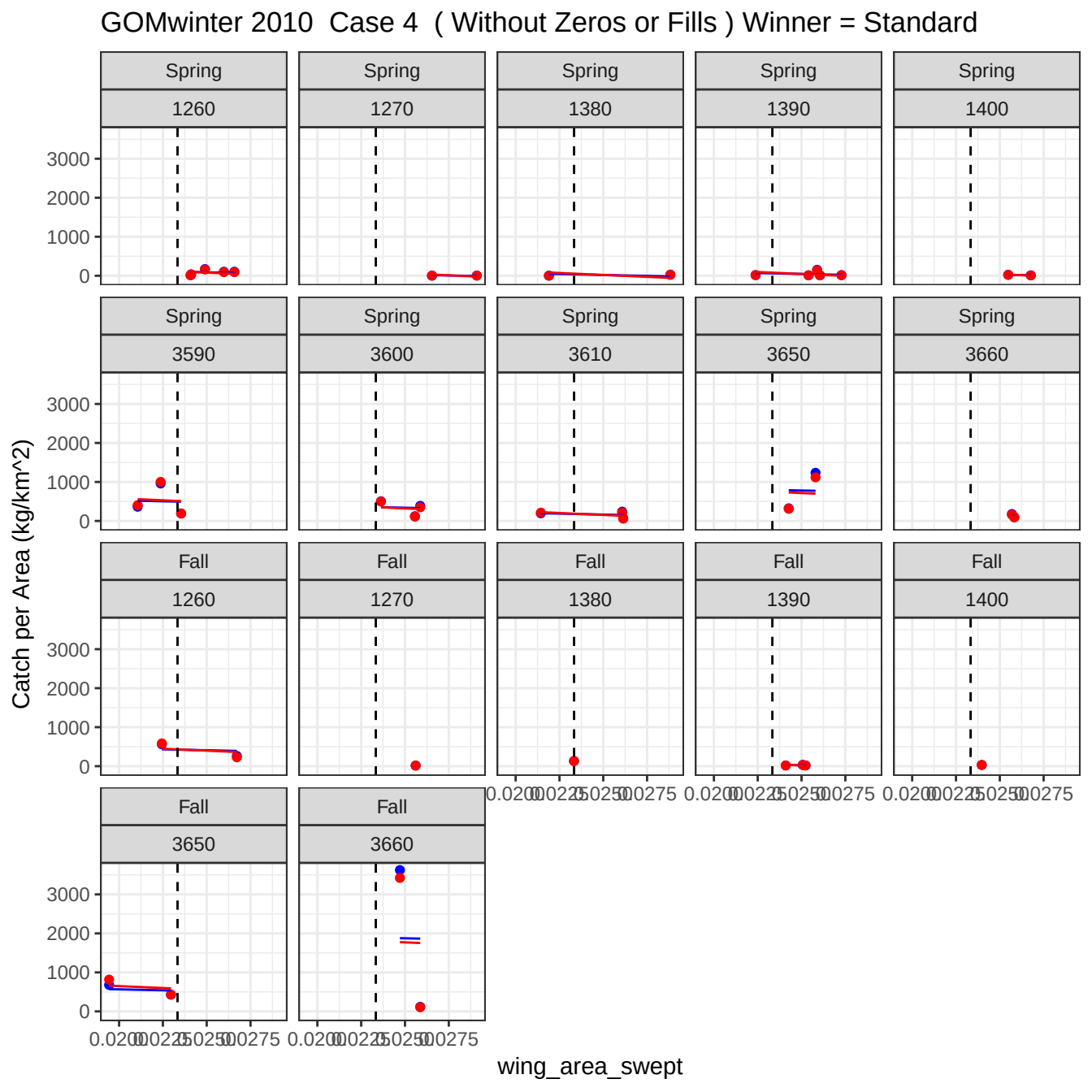

GBwinter 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1160
Spring
1190
Spring
1230
Fall
1130
Fall
1160
Fall
1190
Fall
1200
Fall
1210
Fall
1230
Catch per Area (kg/km^2)
0
100
200
300
400
500
0.023
0.025
0.027
wing_area_swept

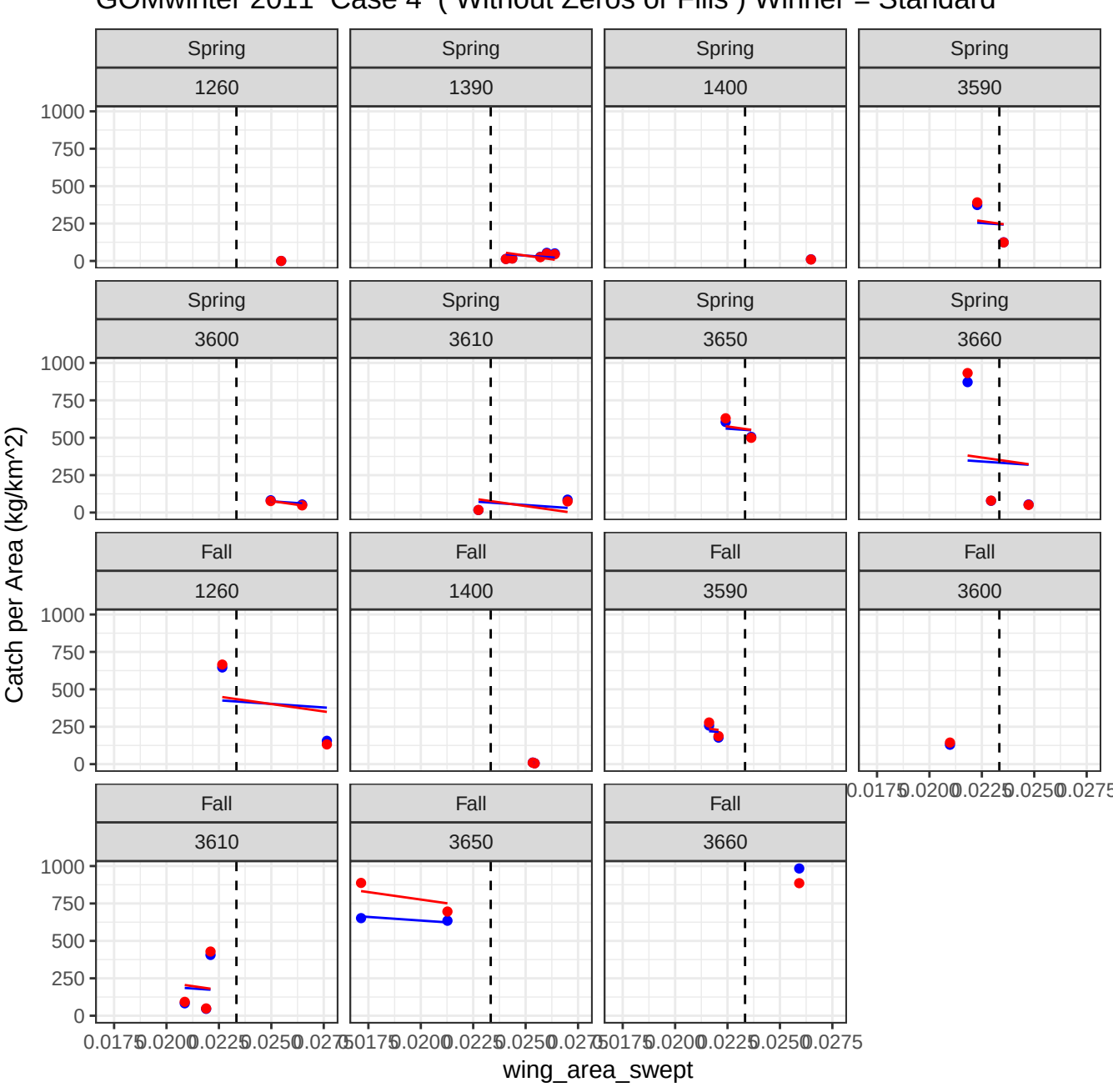

GBwinter 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Spring
1210
Spring
1230
Fall
1130
Fall
1160
Fall
1190
Fall
1200
Fall
1210
Fall
1230
Catch per Area (kg/km^2)
wing_area_swept

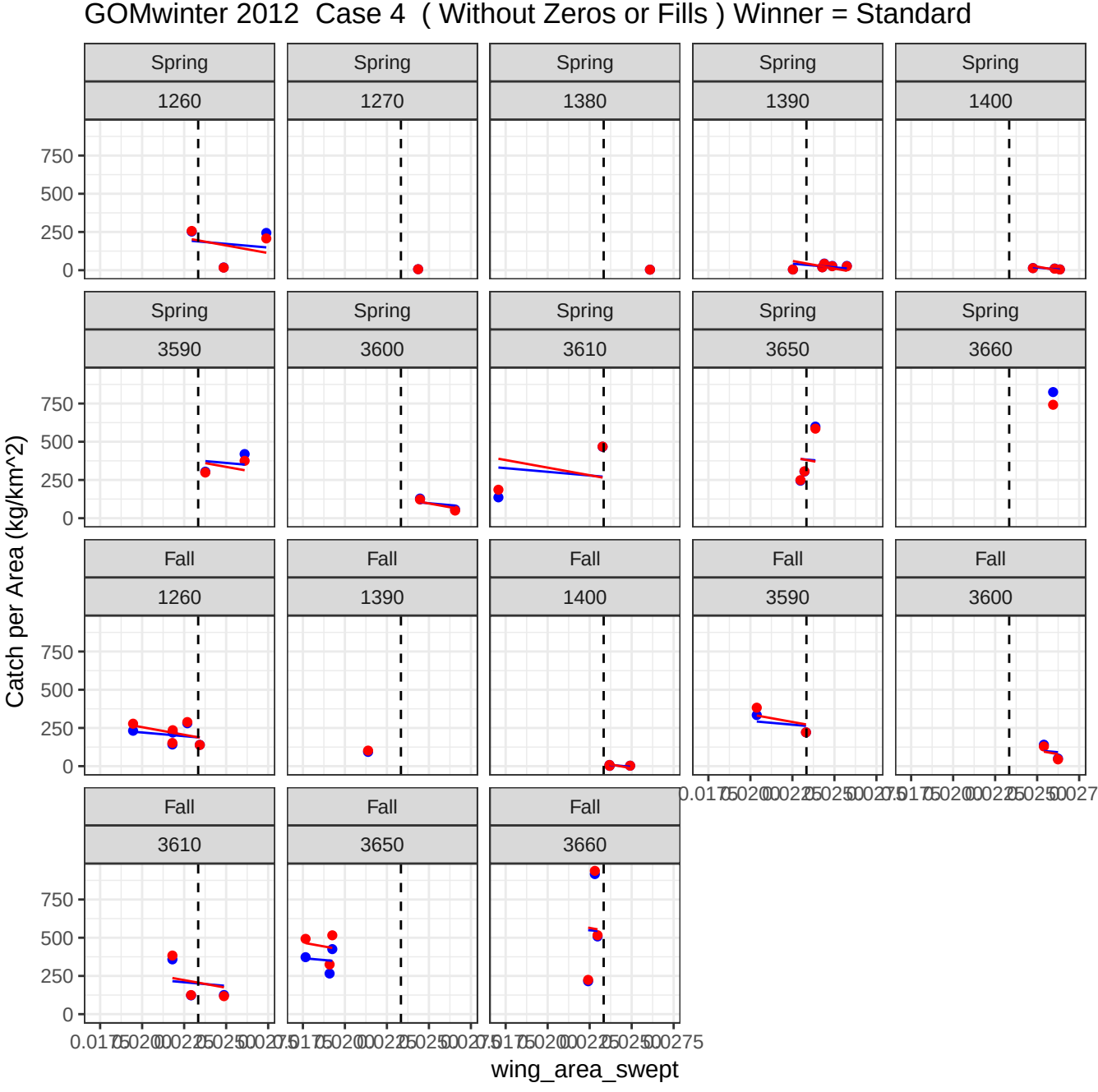

GBwinter 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Spring
1230
Fall
1160
Fall
1190
Fall
1200
Fall
1210
Fall
1220
Fall
1230
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
0.020
0.022
0.024
0.026

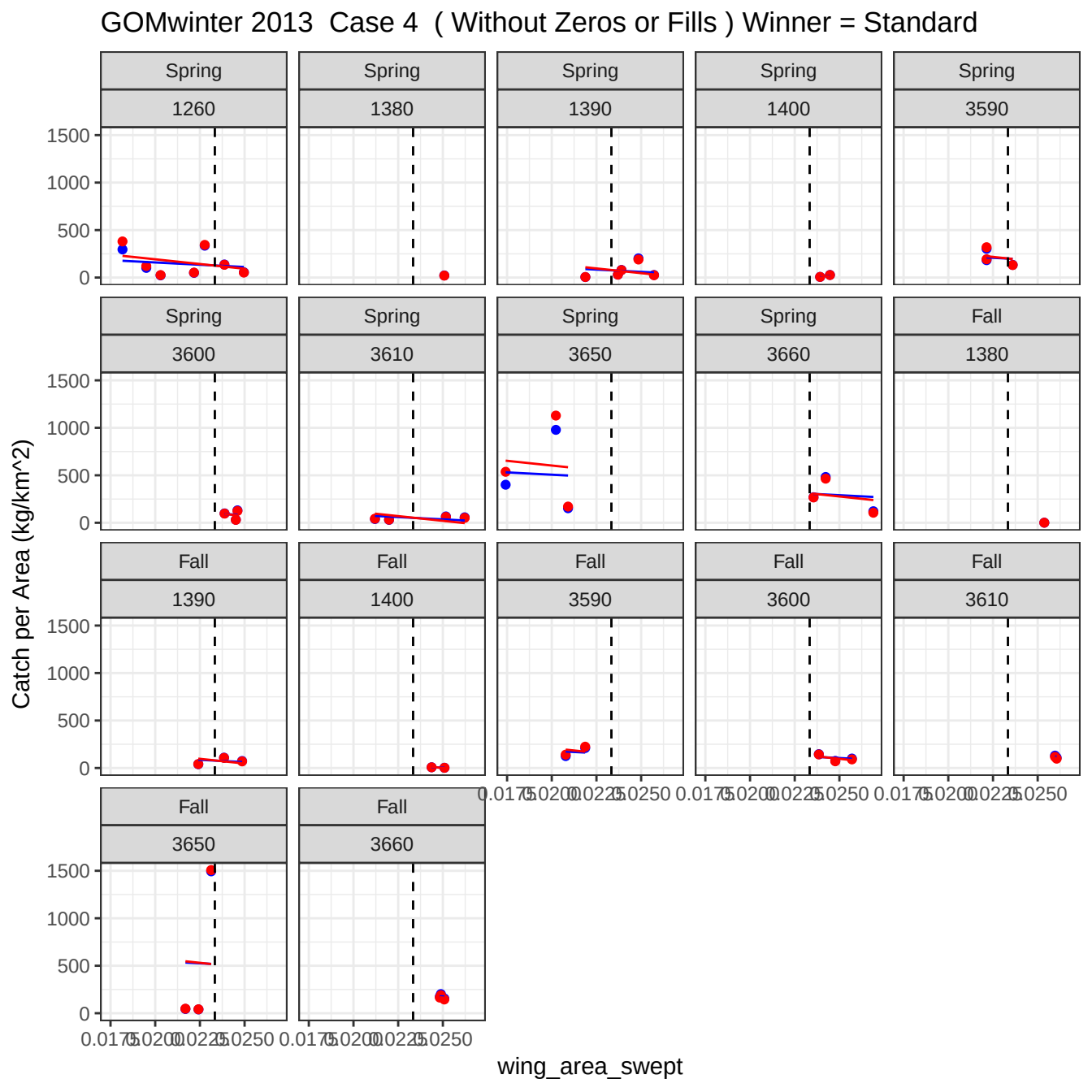

GBwinter 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1130
Spring
1160
Spring
1190
Spring
1200
Spring
1230
Fall
1130
Fall
1160
Fall
1190
Fall
1200
Fall
1210
Fall
1230
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
2000
0.020 0.022 0.024 0.026

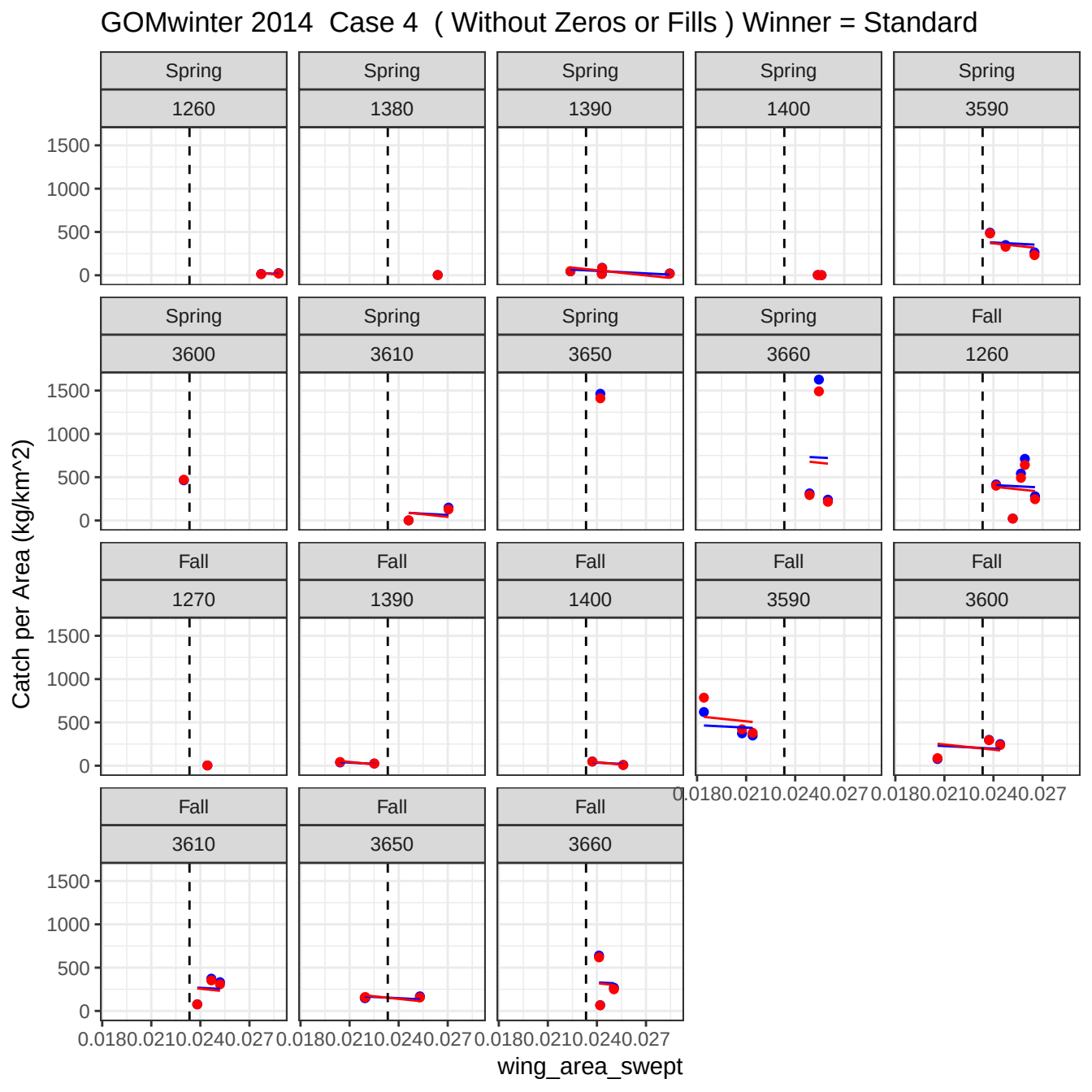

GOMwinter 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1270
Spring
1380
Spring
1390
Spring
1400
Spring
3590
Spring
3600
Spring
3610
Spring
3650
Spring
3660
Fall
1260
Fall
1390
Fall
1400
Fall
3590
Fall
3600
Fall
3610
Fall
3650
Fall
3660
Catch per Area (kg/km^2)
wing_area_swept
0
1000
2000
3000
0.020
0.022
0.024
0.026
0.028

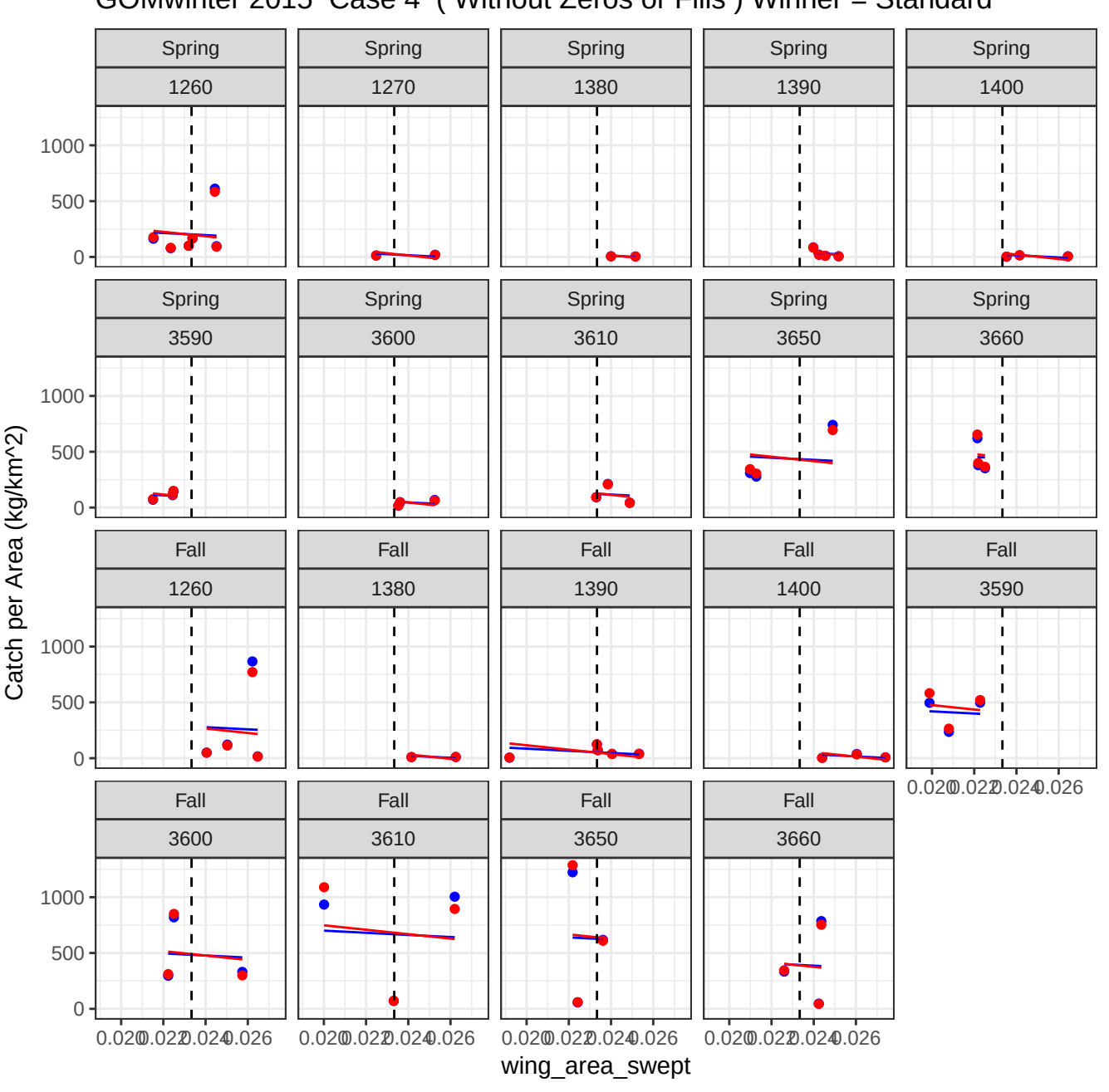

GOMwinter 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1270
1380
1390
1400
3590
3600
3610
3650
3660
Fall
Catch per Area (kg/km^2)
wing_area_swept

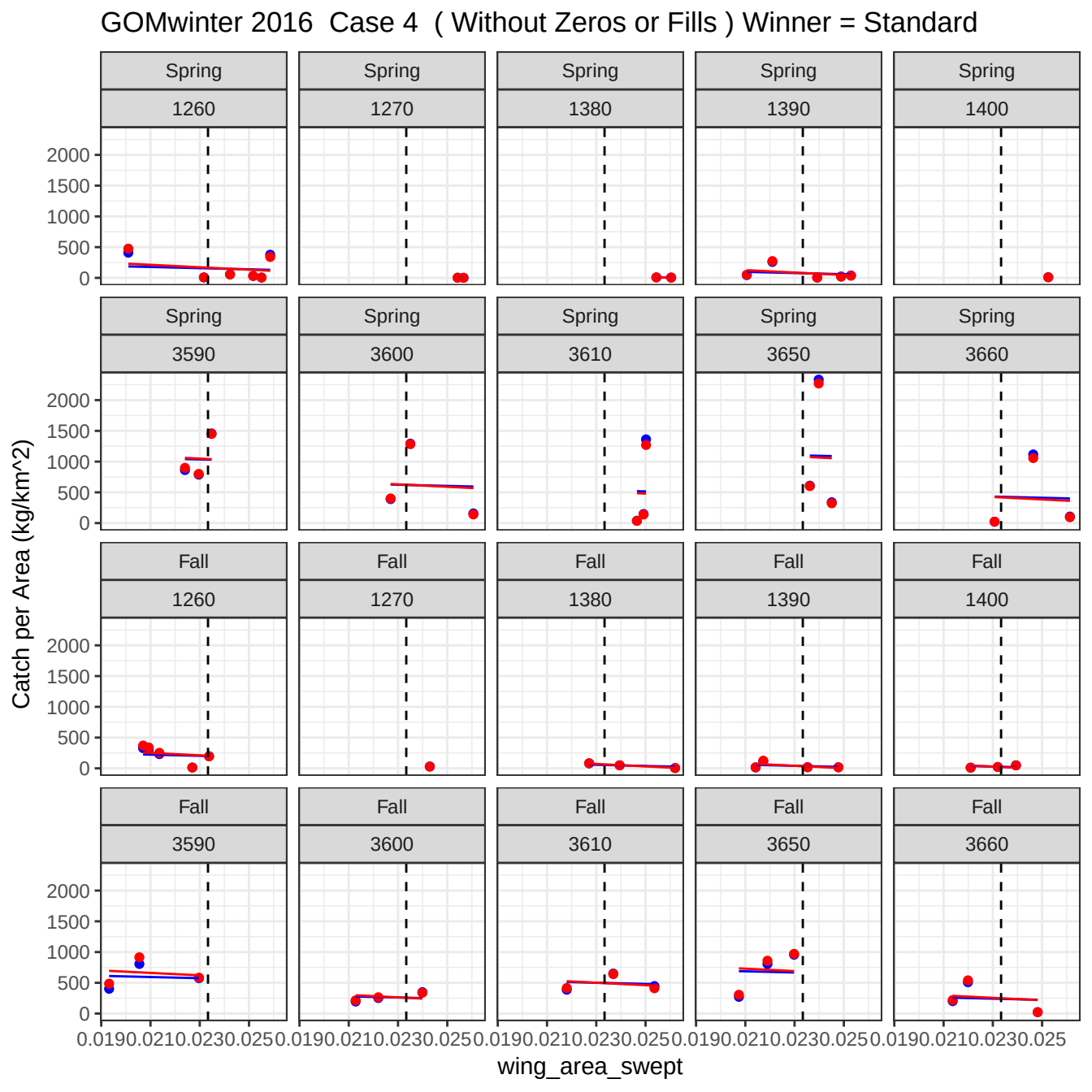

GOMwinter 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1390
1400
3590
3600
3610
3650
3660
Fall
1260
1400
3590
3600
3610
3650
3660
Catch per Area (kg/km^2)
wing_area_swept
0
250
500
750
1000
0.0175
0.0200
0.0225
0.0250
0.0275

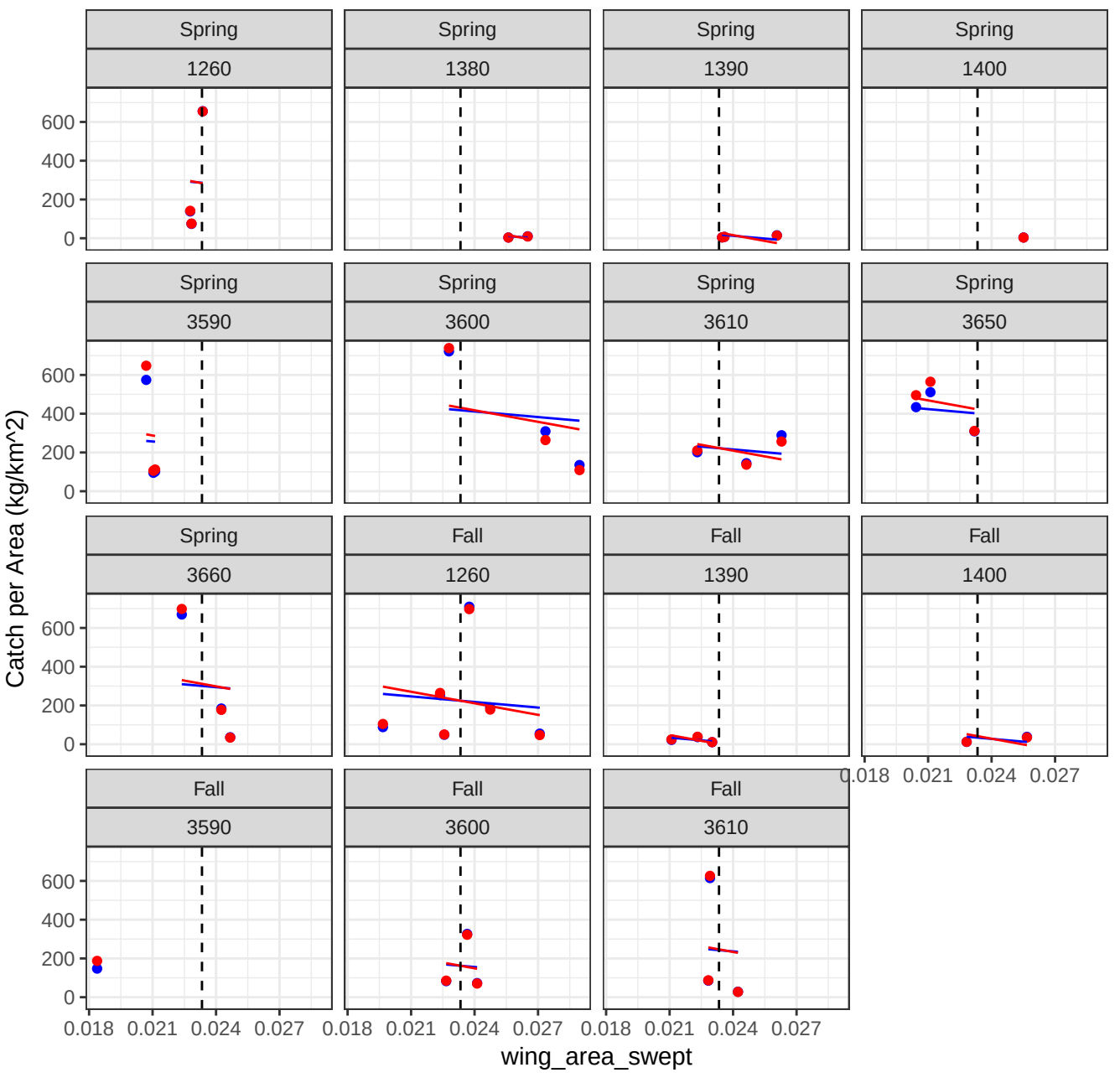

GOMwinter 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1270
1380
1390
1400
3590
3600
3610
3650
3660
Fall
1260
1390
1400
3590
3600
3610
3650
3660
Catch per Area (kg/km^2)
wing_area_swept

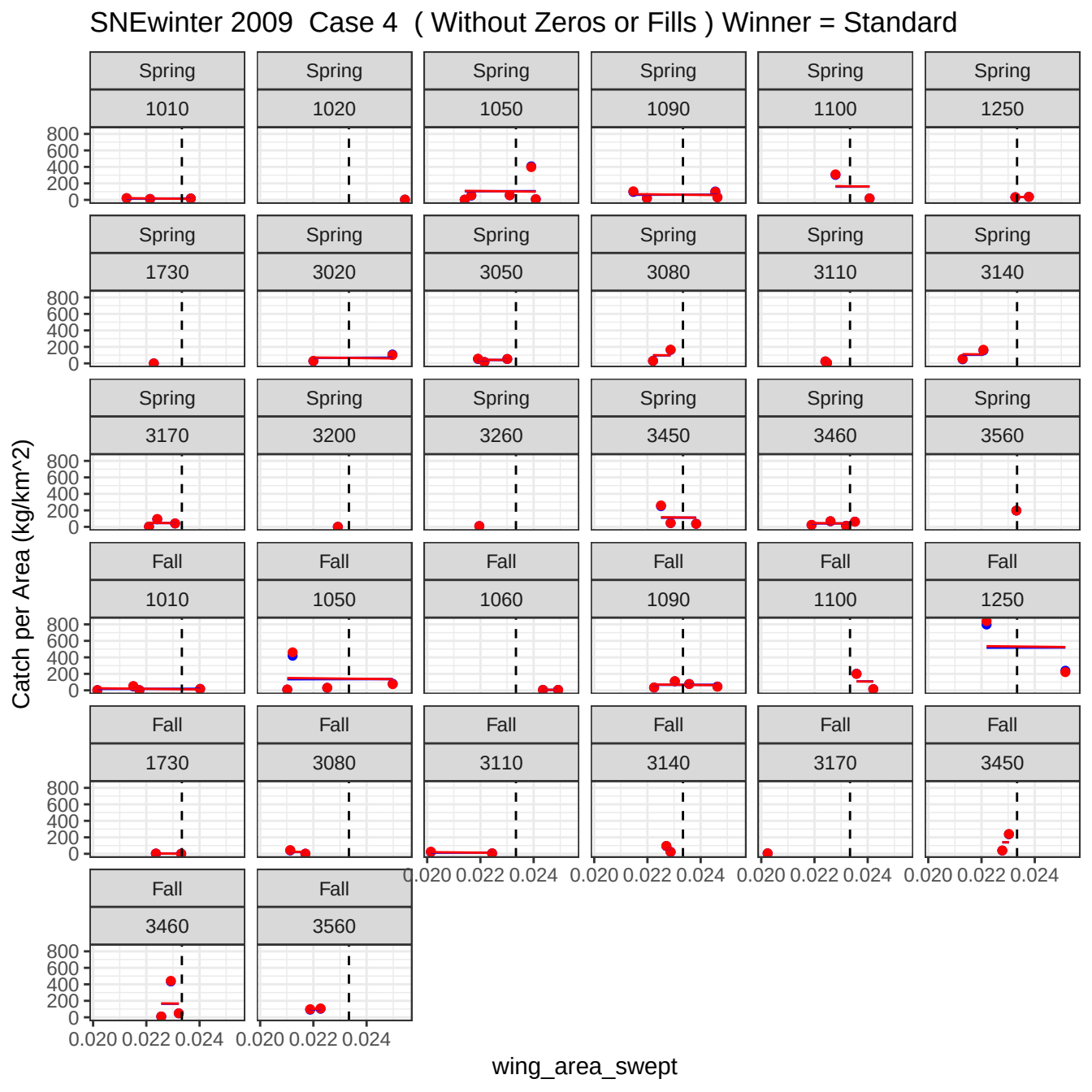

GOMwinter 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1380
1390
1400
3590
3600
3610
3650
3660
Fall
1380
1390
1400
3590
3600
3610
3650
3660
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
0.0175
0.0200
0.0225
0.0250

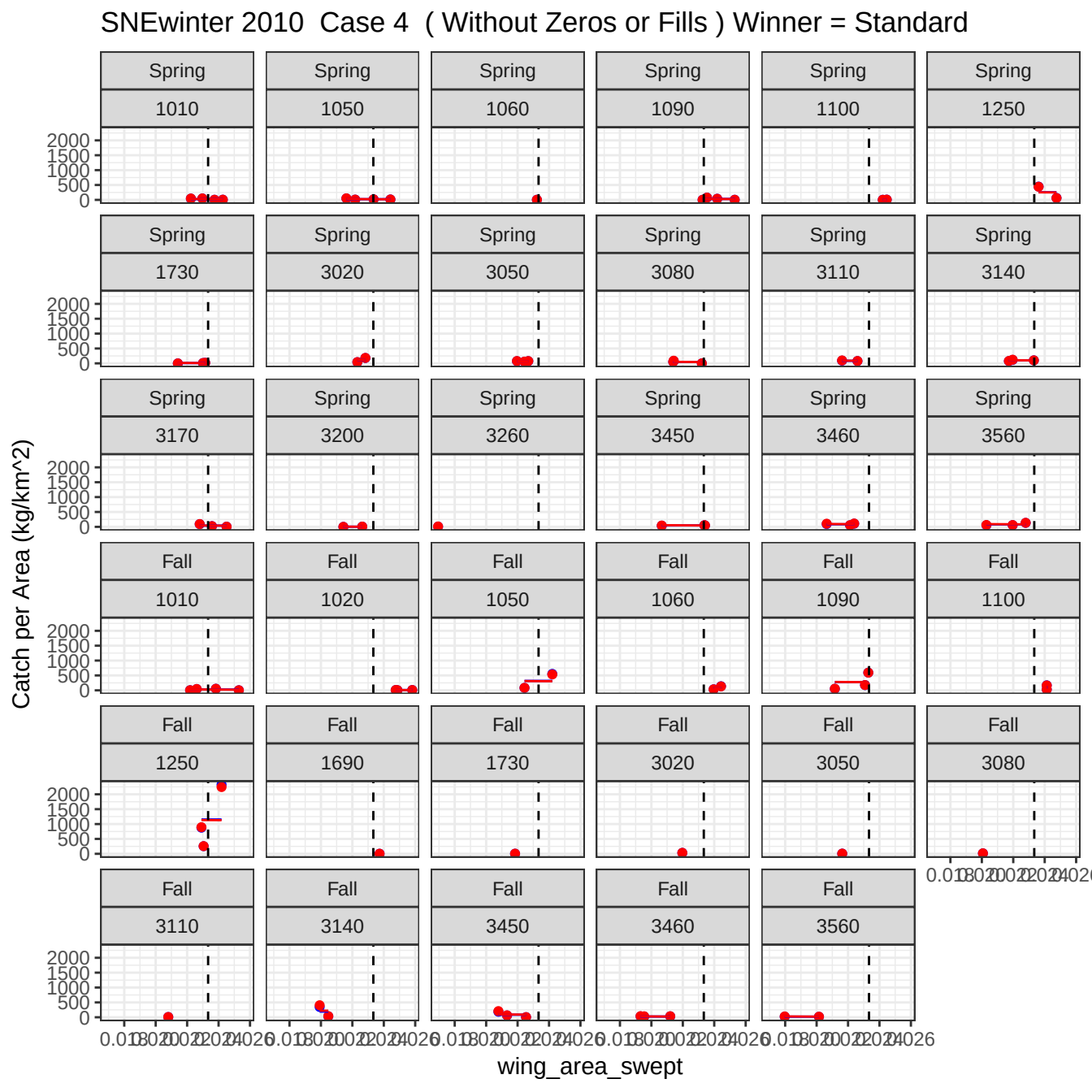

GOMwinter 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1380
Spring
1390
Spring
1400
Spring
3590
Spring
3600
Spring
3610
Spring
3650
Spring
3660
Fall
1260
Fall
1270
Fall
1390
Fall
1400
Fall
3590
Fall
3600
Fall
3610
Fall
3650
Fall
3660
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
0.018
0.021
0.024
0.027

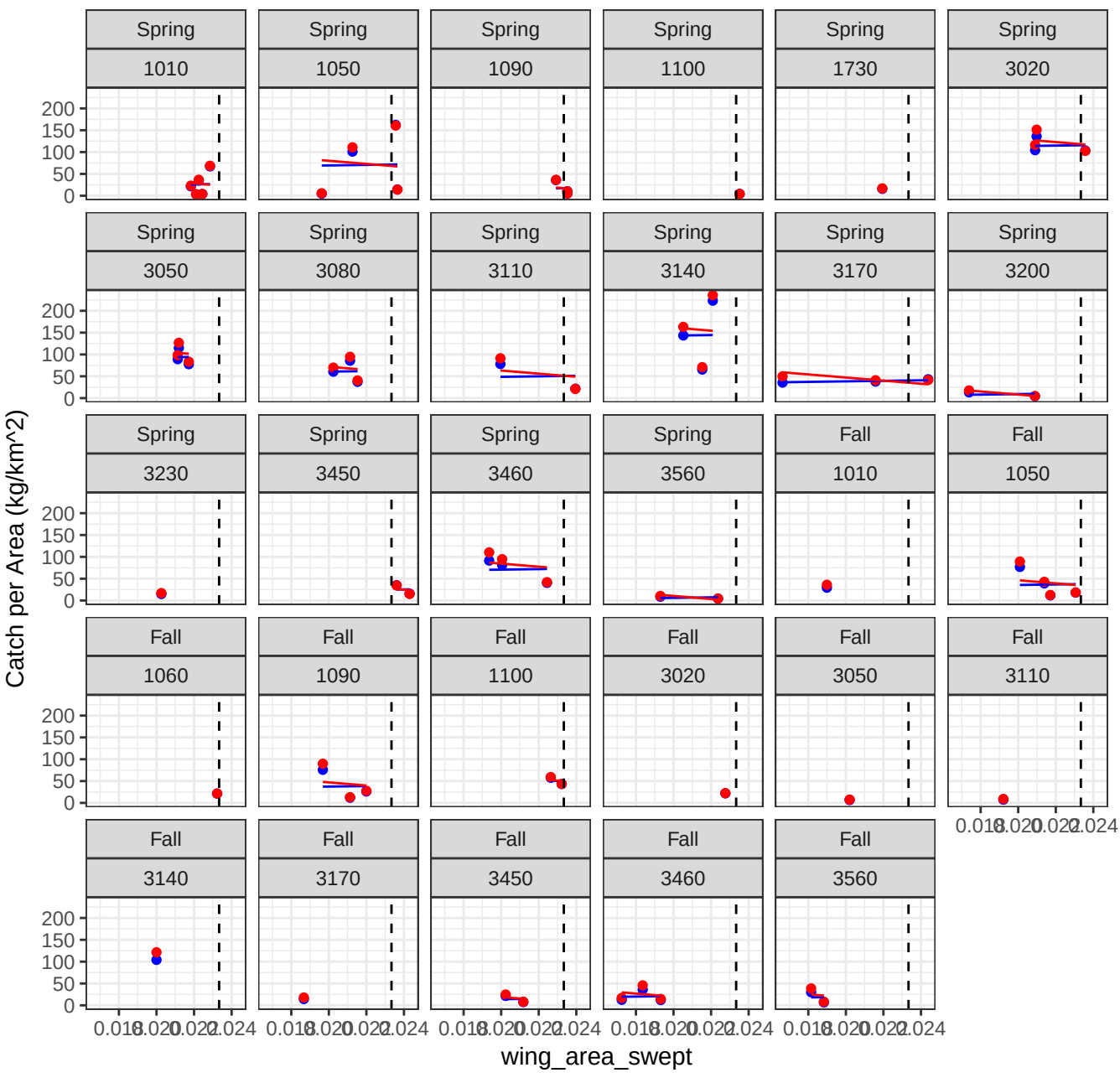

GOMwinter 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1270
1380
1390
1400
3590
3600
3610
3650
3660
Fall
1260
1380
1390
1400
3590
3600
3610
3650
3660
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
0.020
0.022
0.024
0.026

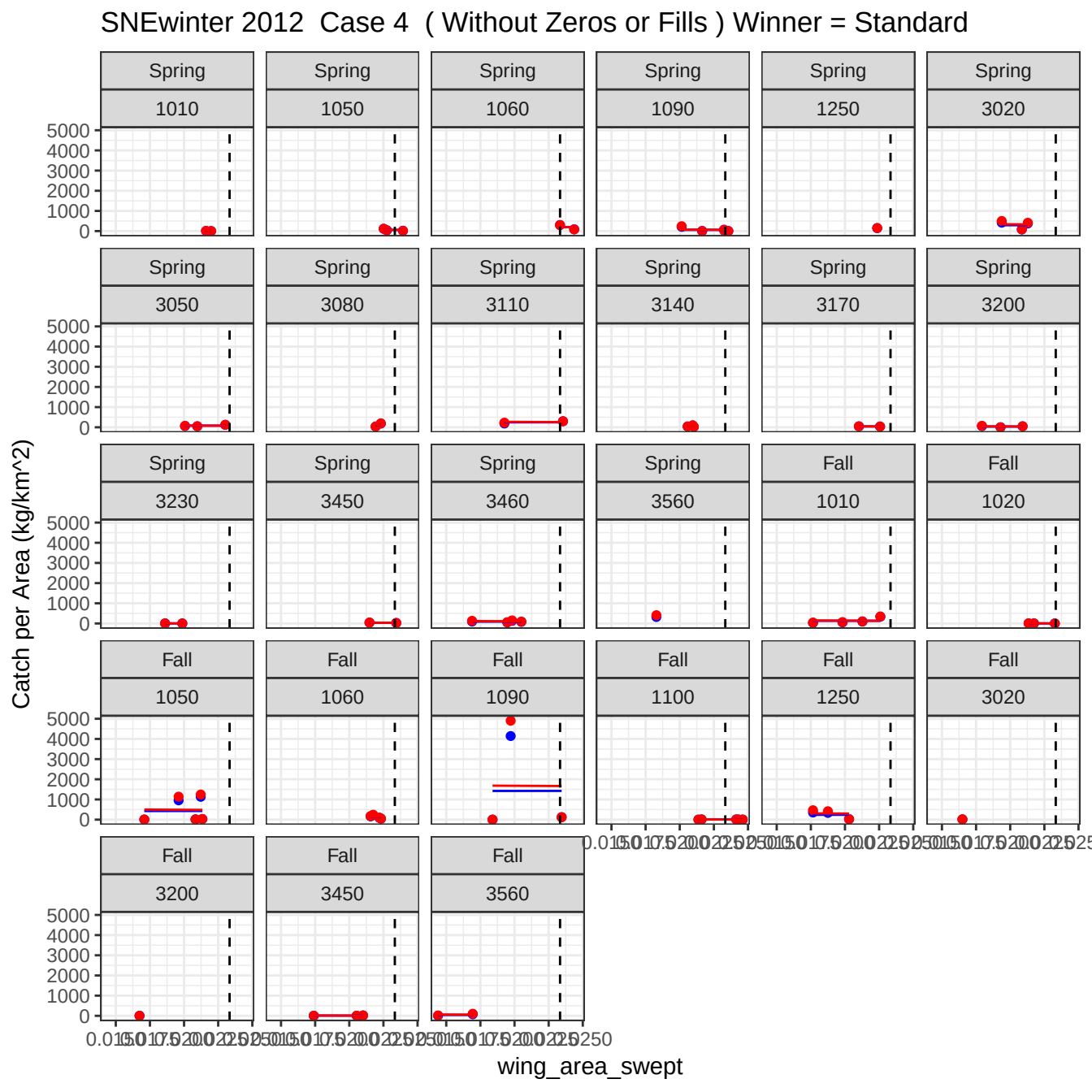

GOMwinter 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1270
1380
1390
1400
3590
3600
3610
3650
3660
Fall
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
2000
0.019
0.021
0.023
0.025

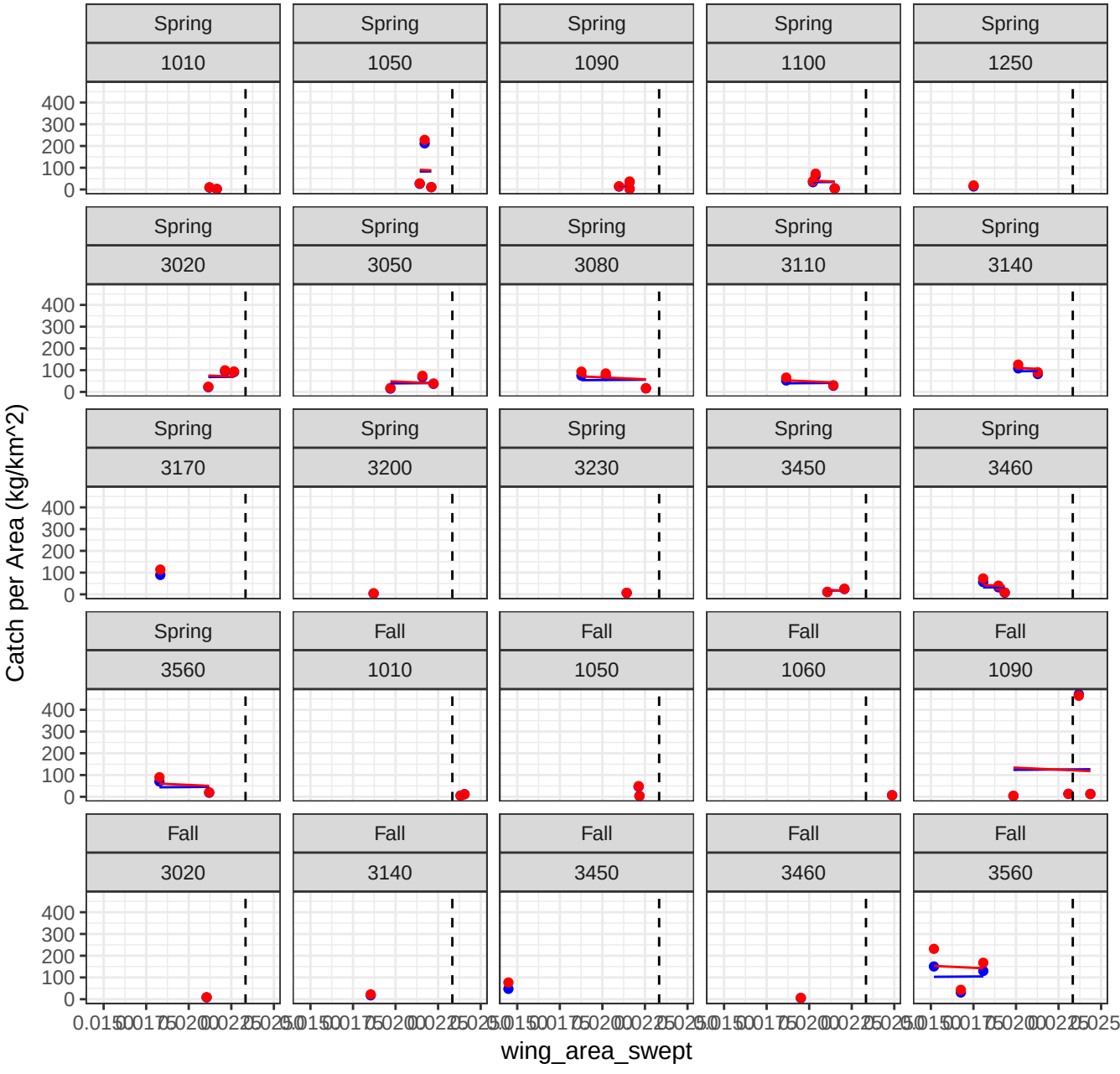

GOMwinter 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
Spring
1380
Spring
1390
Spring
1400
Spring
3590
Spring
3600
Spring
3610
Spring
3650
Spring
3660
Fall
1260
Fall
1390
Fall
1400
Fall
3590
Fall
3600
Fall
3610
Catch per Area (kg/km^2)
0
200
400
600
0.018
0.021
0.024
0.027
wing_area_swept

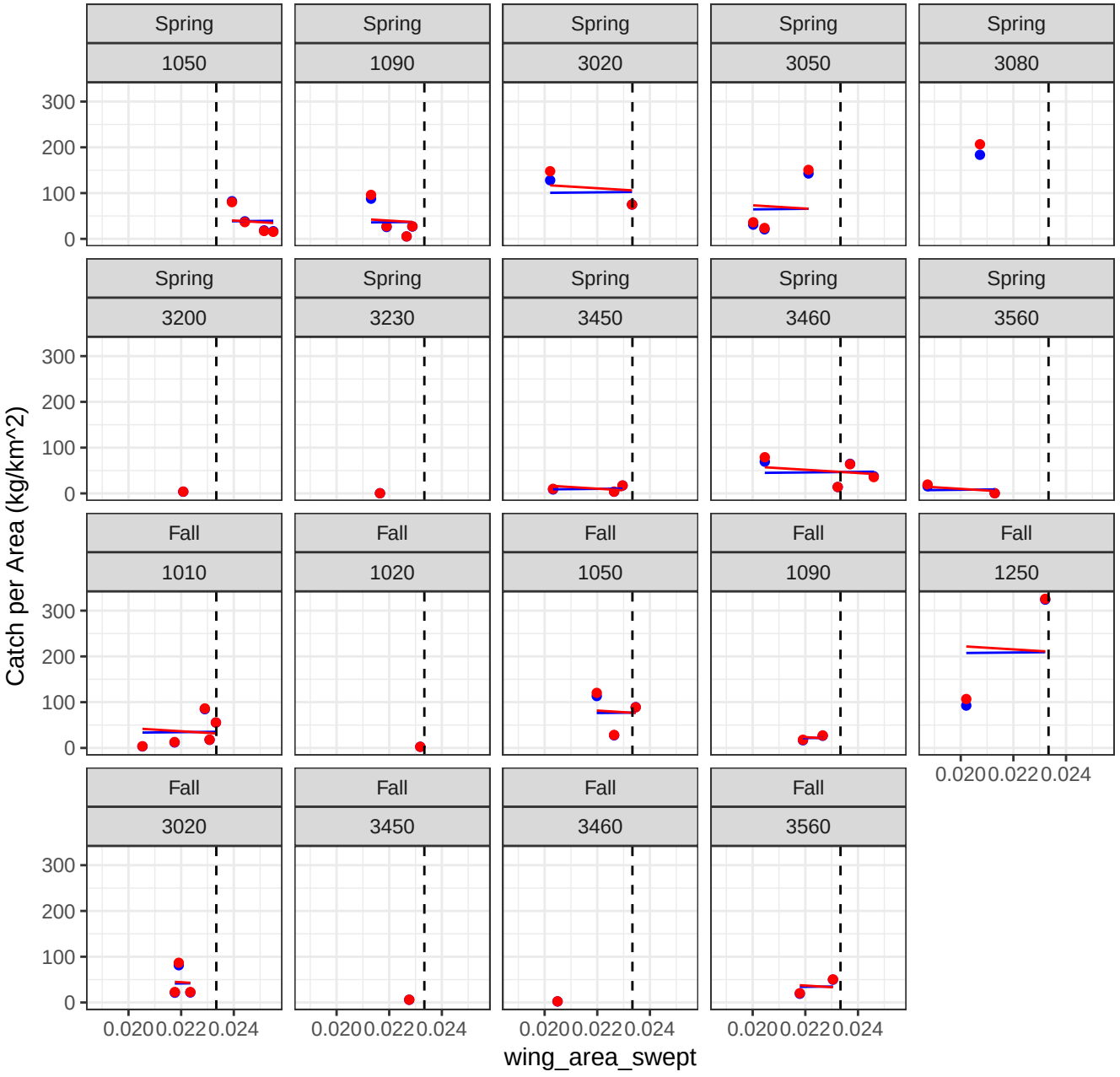

SNEwinter 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1020
Spring 1050
Spring 1090
Spring 1100
Spring 1250
Spring 1730
Spring 3020
Spring 3050
Spring 3080
Spring 3110
Spring 3140
Spring 3170
Spring 3200
Spring 3260
Spring 3450
Spring 3460
Spring 3560
Fall 1010
Fall 1050
Fall 1060
Fall 1090
Fall 1100
Fall 1250
Fall 1730
Fall 3080
Fall 3110
Fall 3140
Fall 3170
Fall 3450
Fall 3460
Fall 3560
0 200 400 600 800
0.020 0.022 0.024
Catch per Area (kg/km^2)
wing_area_swept

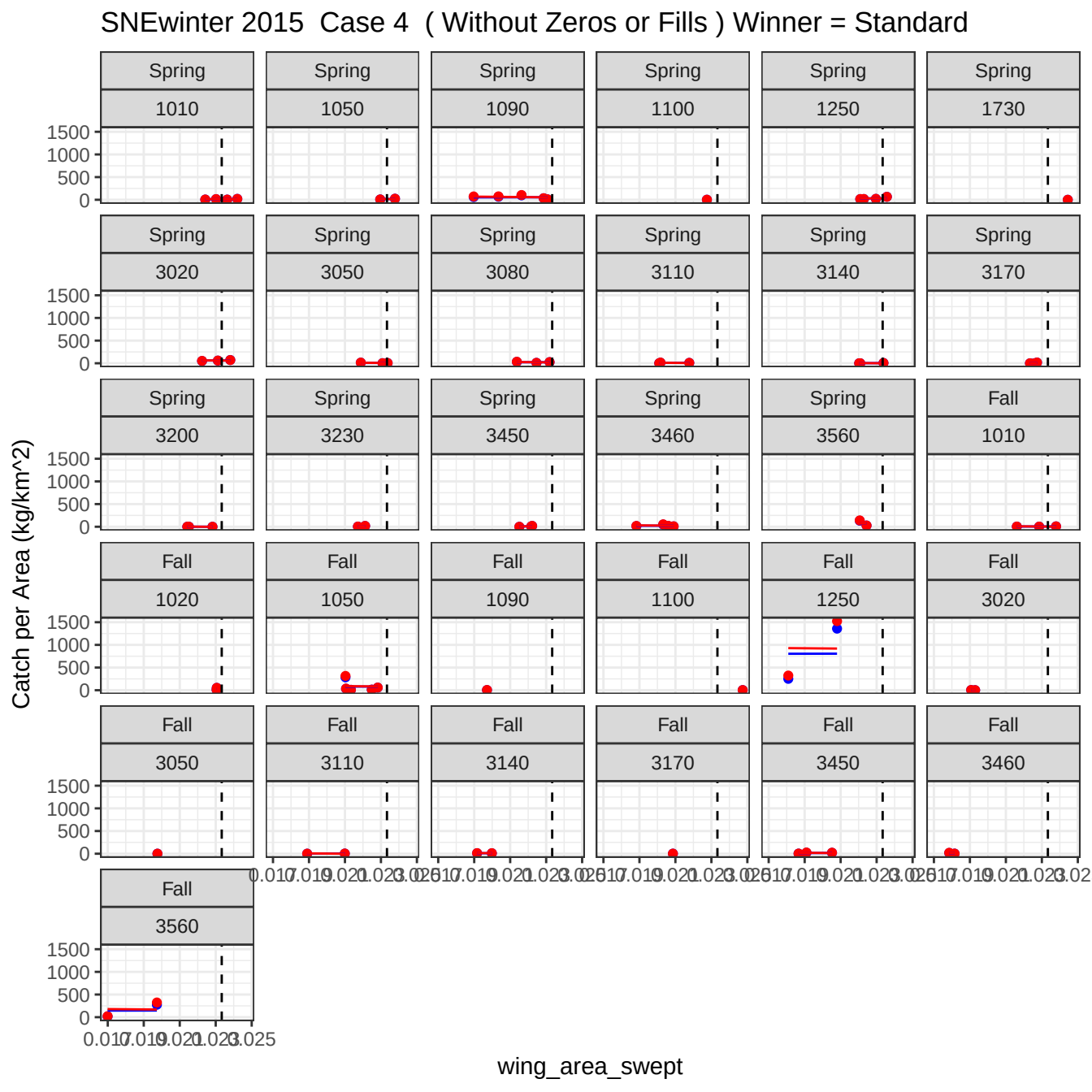

SNEwinter 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1050
Spring 1060
Spring 1090
Spring 1100
Spring 1250
Spring 1730
Spring 3020
Spring 3050
Spring 3080
Spring 3110
Spring 3140
Spring 3170
Spring 3200
Spring 3260
Spring 3450
Spring 3460
Spring 3560
Fall 1010
Fall 1020
Fall 1050
Fall 1060
Fall 1090
Fall 1100
Fall 1250
Fall 1690
Fall 1730
Fall 3020
Fall 3050
Fall 3080
Fall 3110
Fall 3140
Fall 3450
Fall 3460
Fall 3560
Catch per Area (kg/km^2)
0
500
1000
1500
2000
wing_area_swept

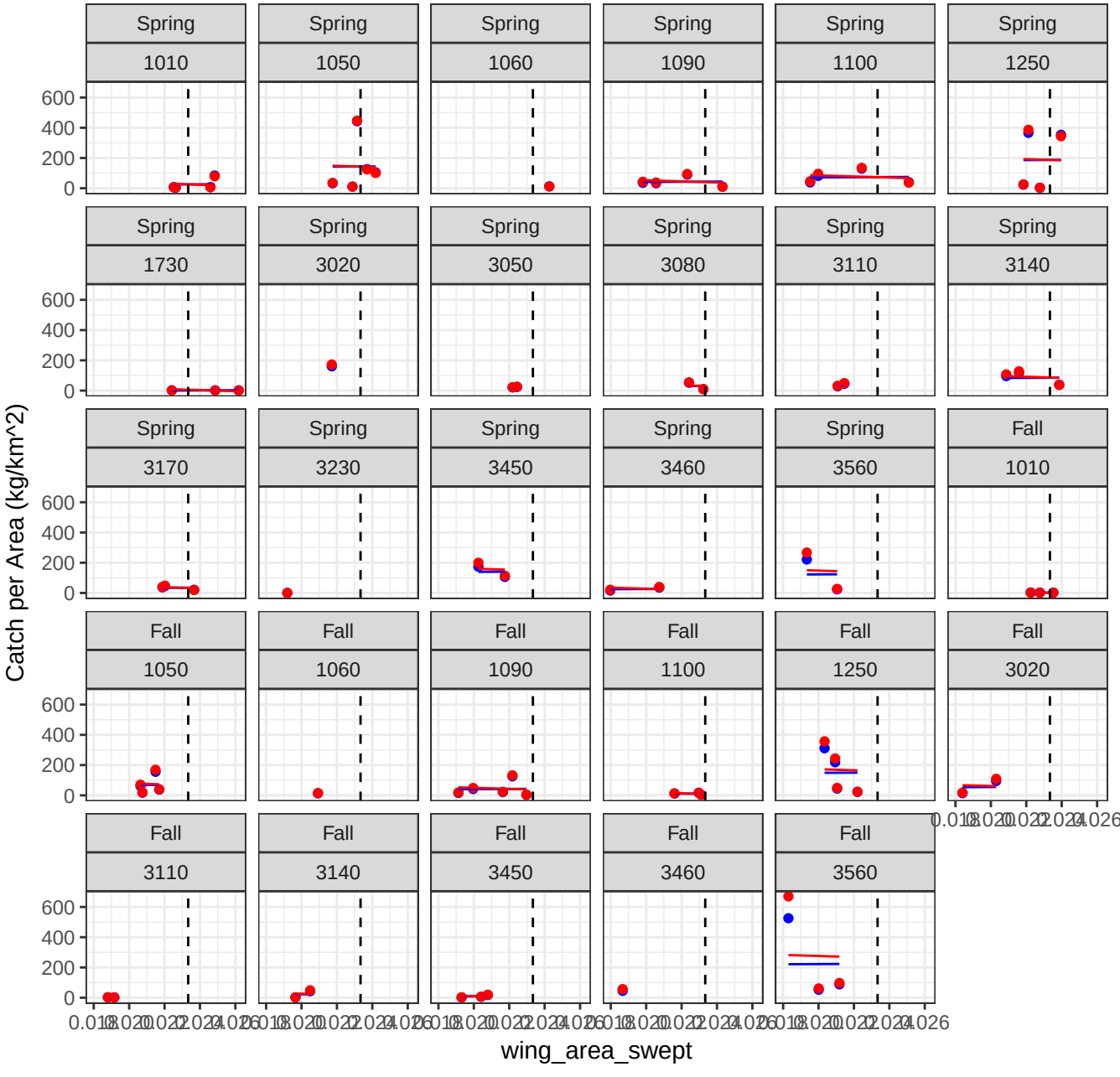

SNEwinter 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1050
Spring 1090
Spring 1100
Spring 1730
Spring 3020
Spring 3050
Spring 3080
Spring 3110
Spring 3140
Spring 3170
Spring 3200
Spring 3230
Spring 3450
Spring 3460
Spring 3560
Fall 1010
Fall 1050
Fall 1060
Fall 1090
Fall 1100
Fall 3020
Fall 3050
Fall 3110
Fall 3140
Fall 3170
Fall 3450
Fall 3460
Fall 3560
0
50
100
150
200
0.016
0.020
0.024
Catch per Area (kg/km^2)
wing_area_swept

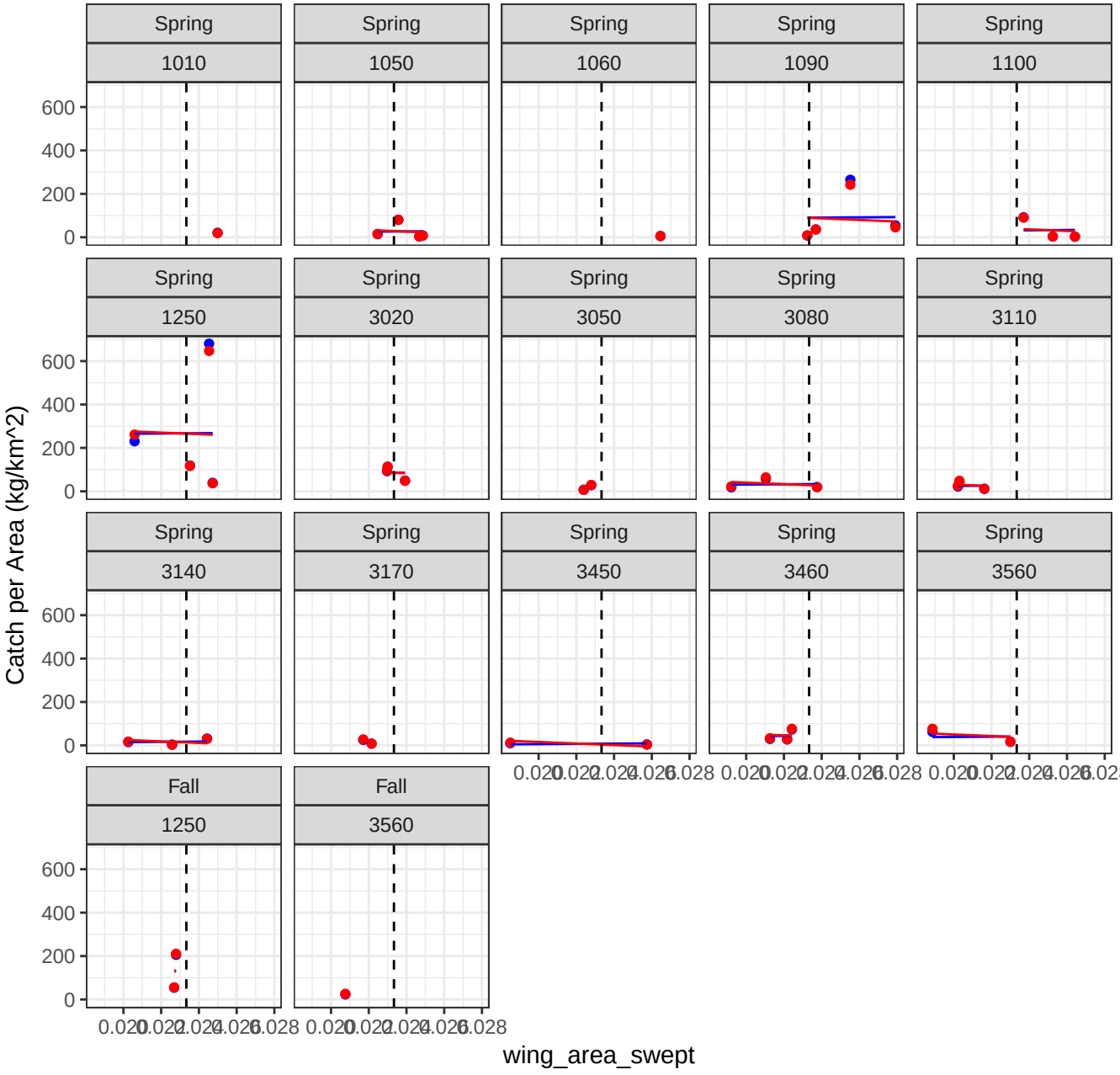

SNEwinter 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1050
Spring 1060
Spring 1090
Spring 1250
Spring 3020
Spring 3050
Spring 3080
Spring 3110
Spring 3140
Spring 3170
Spring 3200
Spring 3230
Spring 3450
Spring 3460
Spring 3560
Fall 1010
Fall 1020
Fall 1050
Fall 1060
Fall 1090
Fall 1100
Fall 1250
Fall 3020
Fall 3200
Fall 3450
Fall 3560
Catch per Area (kg/km^2)
wing_area_swept

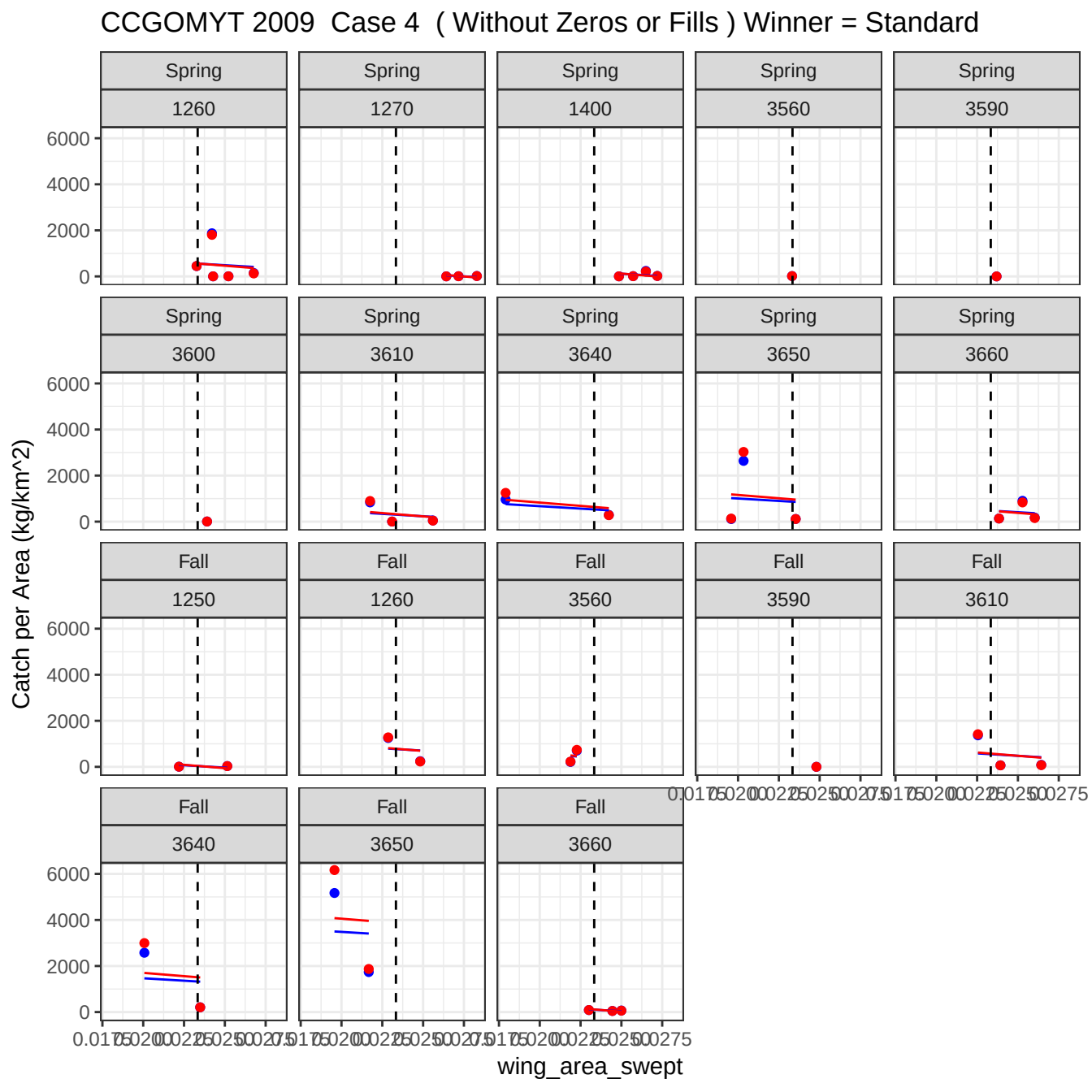

SNEwinter 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1050
Spring 1090
Spring 1100
Spring 1250
Spring 3020
Spring 3050
Spring 3080
Spring 3110
Spring 3140
Spring 3170
Spring 3200
Spring 3230
Spring 3450
Spring 3460
Spring 3560
Fall 1010
Fall 1050
Fall 1060
Fall 1090
Fall 3020
Fall 3140
Fall 3450
Fall 3460
Fall 3560
Catch per Area (kg/km^2)
0
100
200
300
400
wing_area_swept

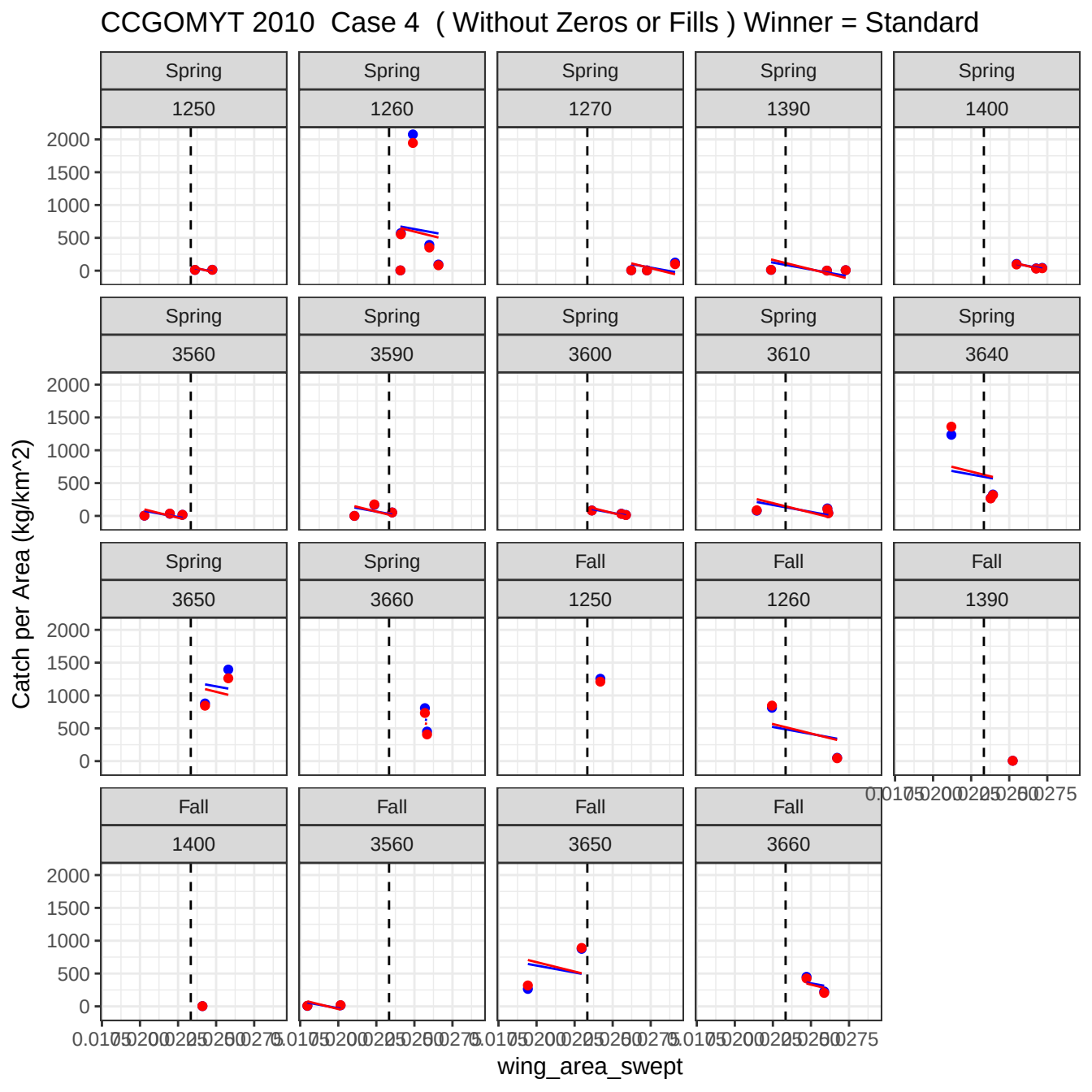

SNEwinter 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1050
1090
3020
3050
3080
3200
3230
3450
3460
3560
Fall
1010
1020
1050
1090
1250
3020
3450
3460
3560
Catch per Area (kg/km^2)
wing_area_swept
0
100
200
300
0.020
0.022
0.024

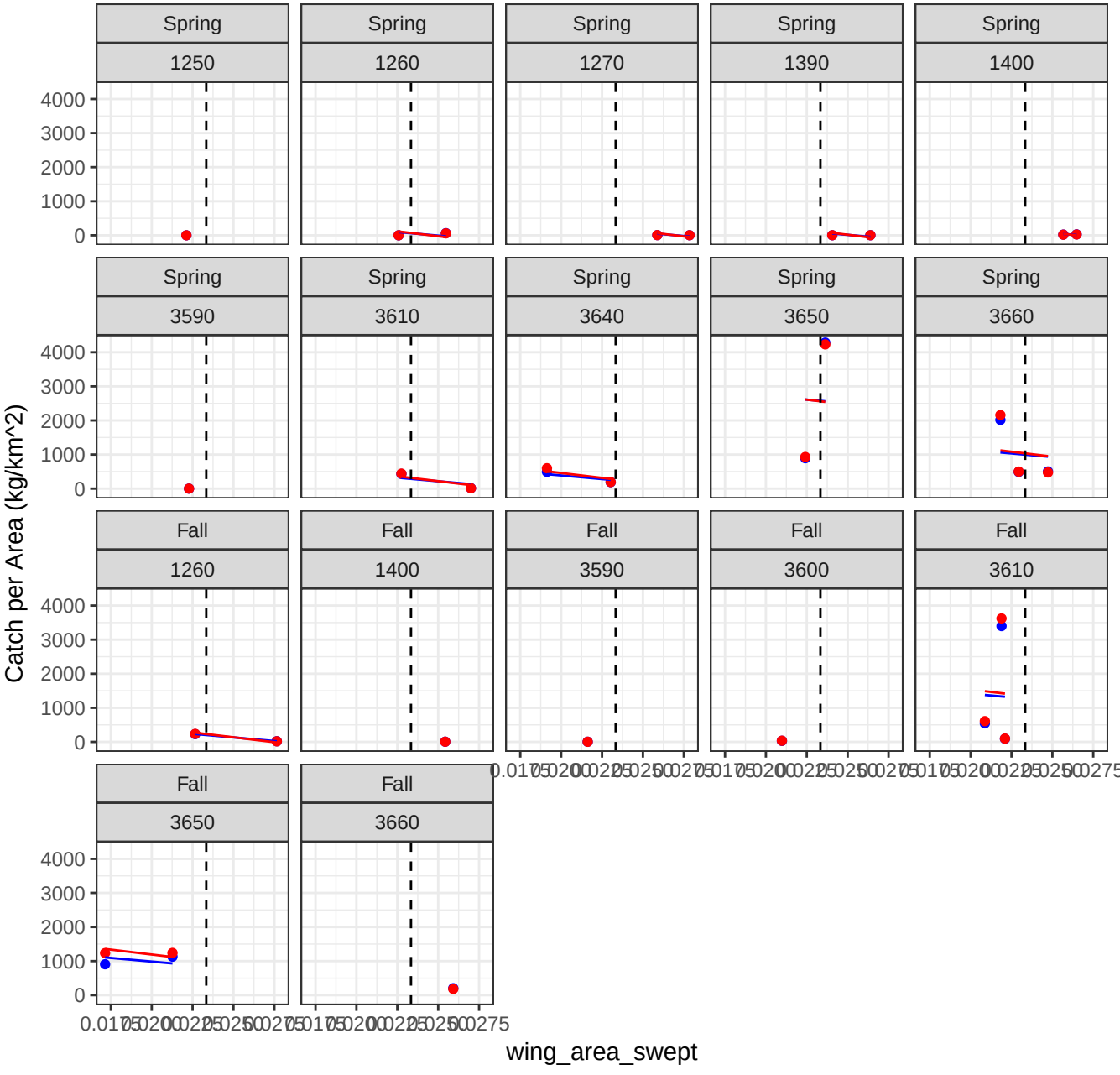

SNEwinter 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1050
Spring 1090
Spring 1100
Spring 1250
Spring 1730
Spring 3020
Spring 3050
Spring 3080
Spring 3110
Spring 3140
Spring 3170
Spring 3200
Spring 3230
Spring 3450
Spring 3460
Spring 3560
Fall 1010
Fall 1020
Fall 1050
Fall 1090
Fall 1100
Fall 1250
Fall 3020
Fall 3050
Fall 3110
Fall 3140
Fall 3170
Fall 3450
Fall 3460
Fall 3560
Catch per Area (kg/km^2)
wing_area_swept

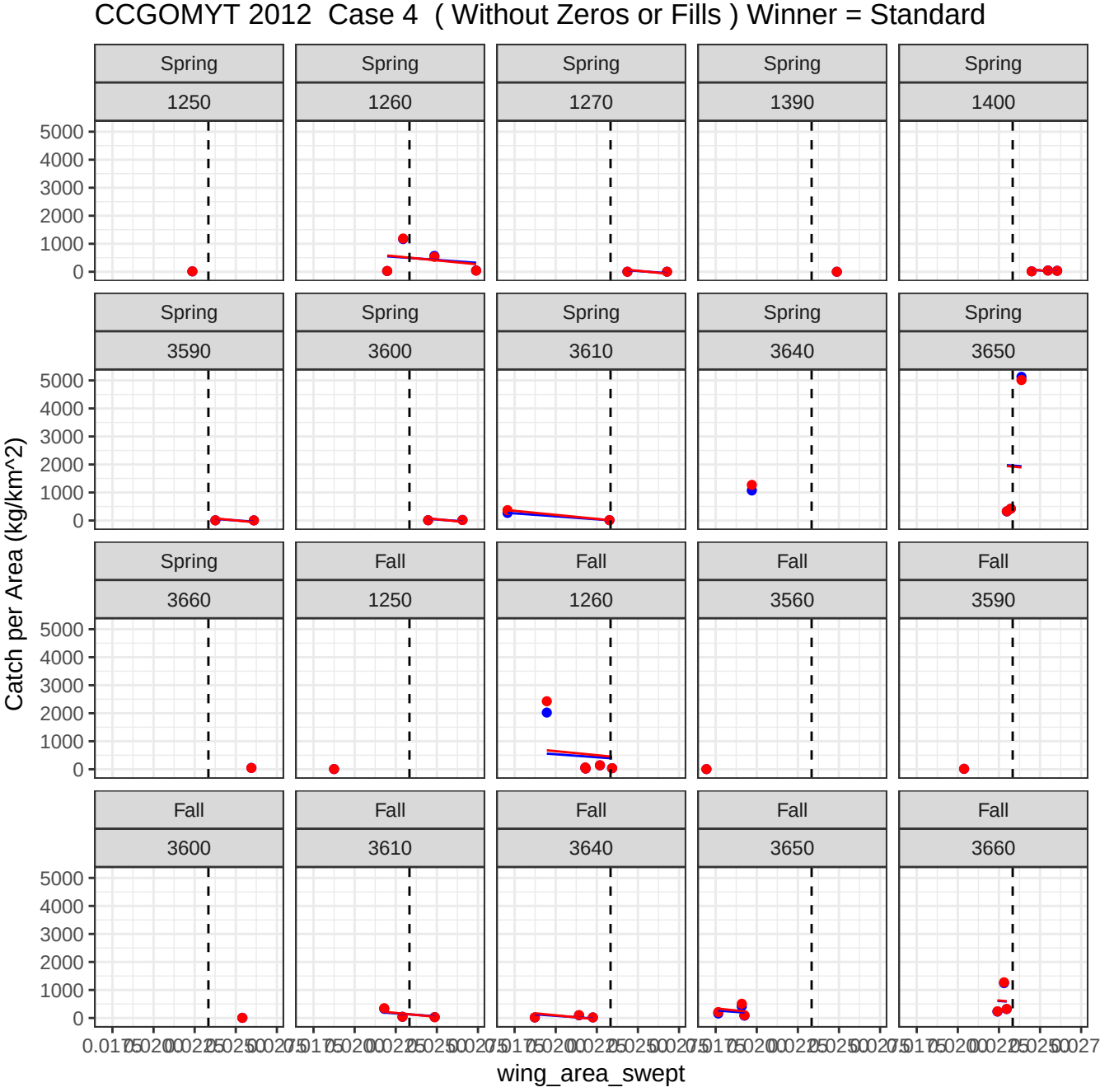

SNEwinter 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1010
Spring 1050
Spring 1060
Spring 1090
Spring 1100
Spring 1250
Spring 1730
Spring 3020
Spring 3050
Spring 3080
Spring 3110
Spring 3140
Spring 3170
Spring 3230
Spring 3450
Spring 3460
Spring 3560
Fall 1010
Fall 1050
Fall 1060
Fall 1090
Fall 1100
Fall 1250
Fall 3020
Fall 3110
Fall 3140
Fall 3450
Fall 3460
Fall 3560
Catch per Area (kg/km^2)
0
200
400
600
wing_area_swept
0.016
0.018
0.020
0.022
0.024
0.026

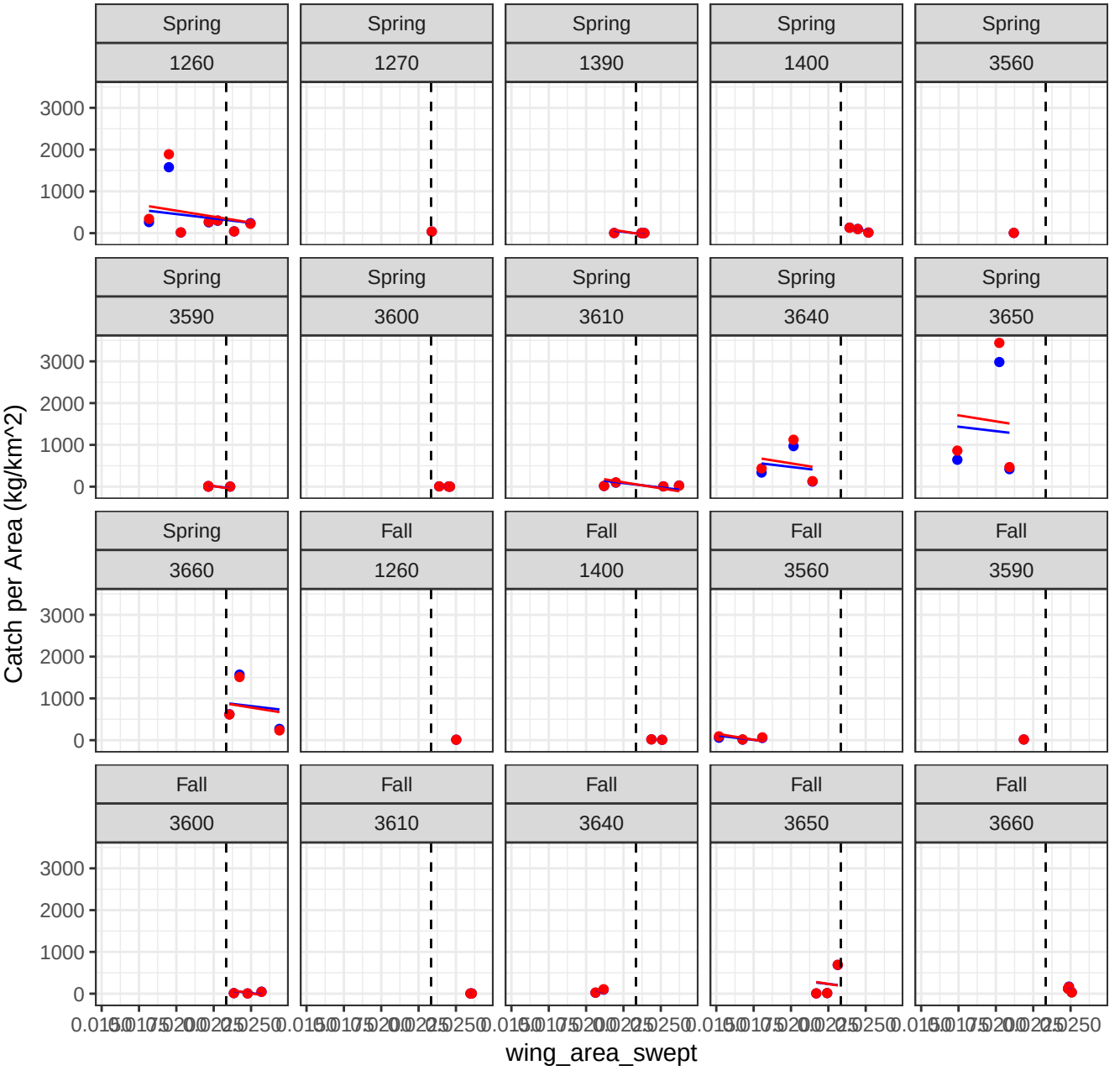

SNEwinter 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
1050
1060
1090
1100
1250
3020
3050
3080
3110
3140
3170
3450
3460
3560
Fall
1250
3560
Catch per Area (kg/km^2)
wing_area_swept

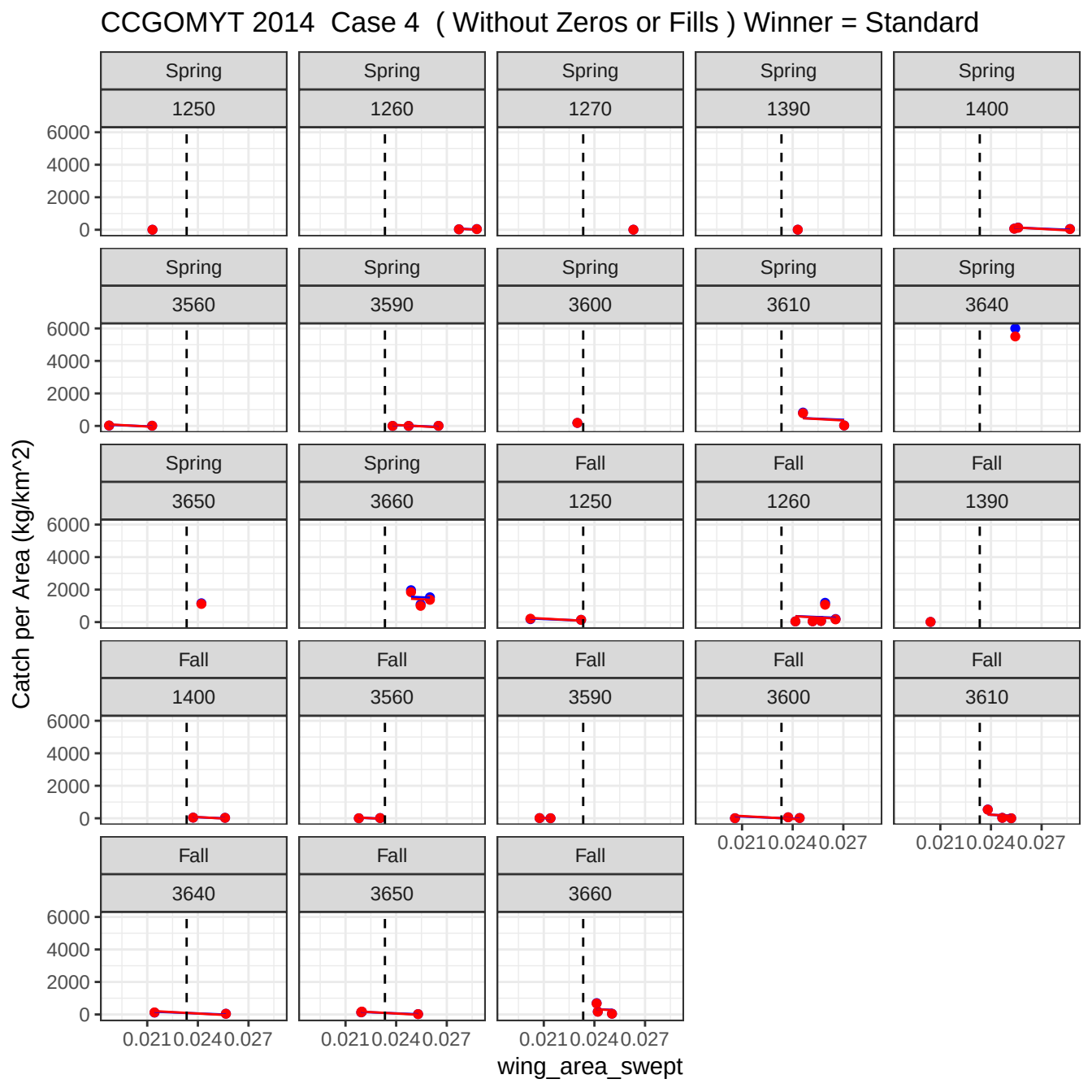

CCGOMYT 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1260
1270
1400
3560
3590
3600
3610
3640
3650
3660
Fall
1250
1260
3560
3590
3610
3640
3650
3660
Catch per Area (kg/km^2)
wing_area_swept
0
2000
4000
6000
0.01750
0.02000
0.02250
0.02500
0.02750

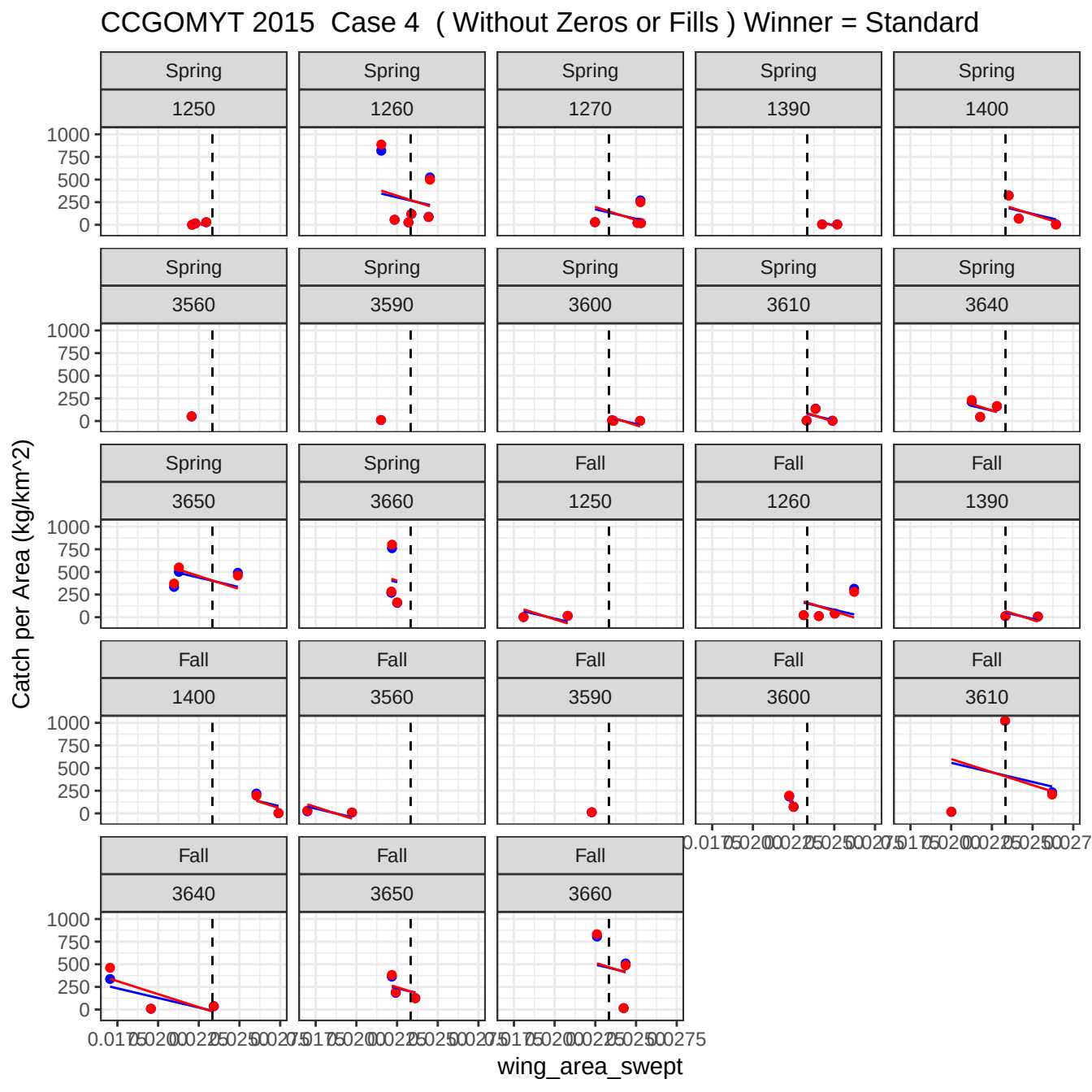

CCGOMYT 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1250
1260
1270
1390
1400
3560
3590
3600
3610
3640
3650
3660
Fall
1250
1260
1390
1400
3560
3650
3660
Catch per Area (kg/km^2)
wing_area_swept
0
500
1000
1500
2000
0.0175
0.0200
0.0225
0.0250
0.0275

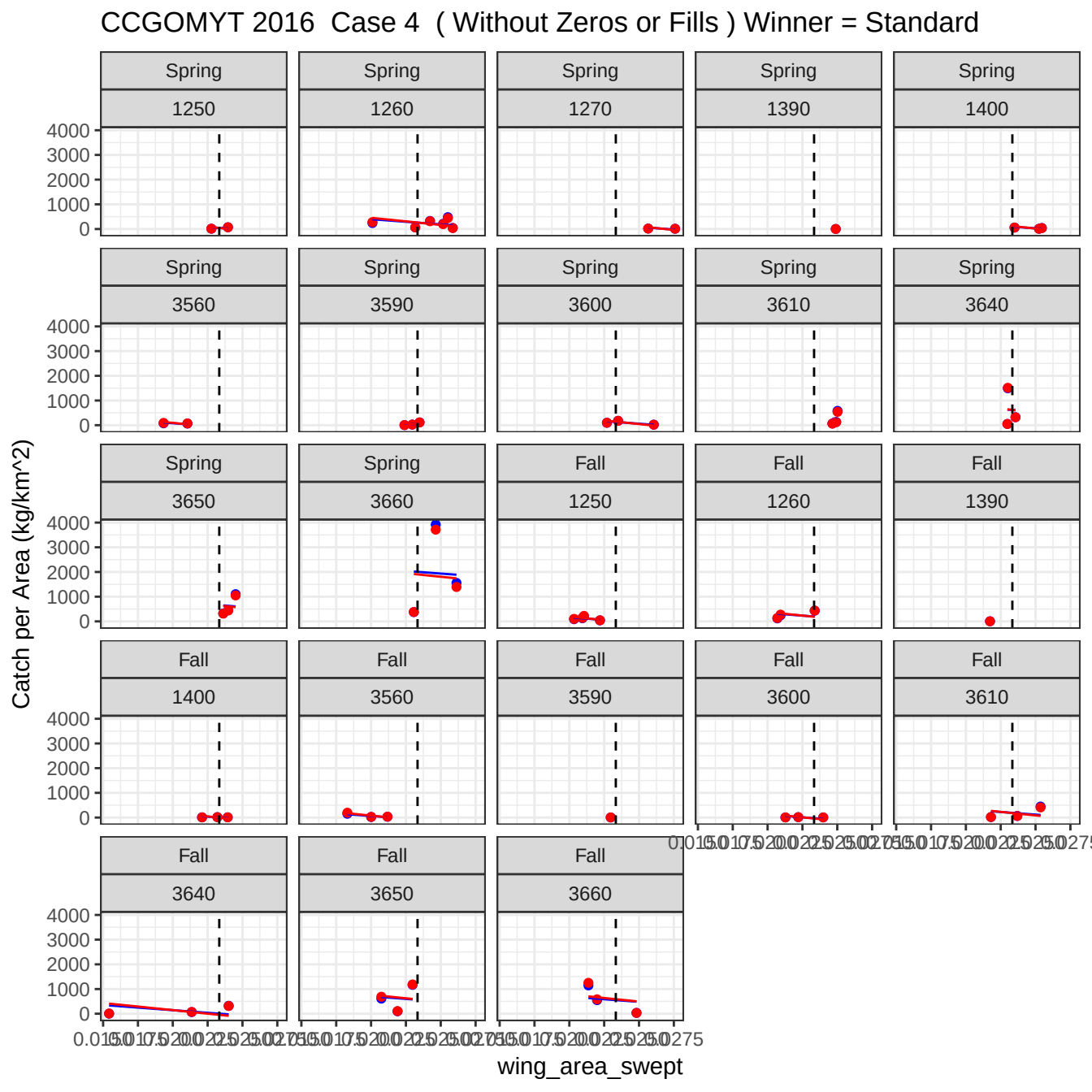

CCGOMYT 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1250
1260
1270
1390
1400
3590
3610
3640
3650
3660
Fall
1260
1400
3590
3600
3610
3650
3660
Catch per Area (kg/km^2)
wing_area_swept

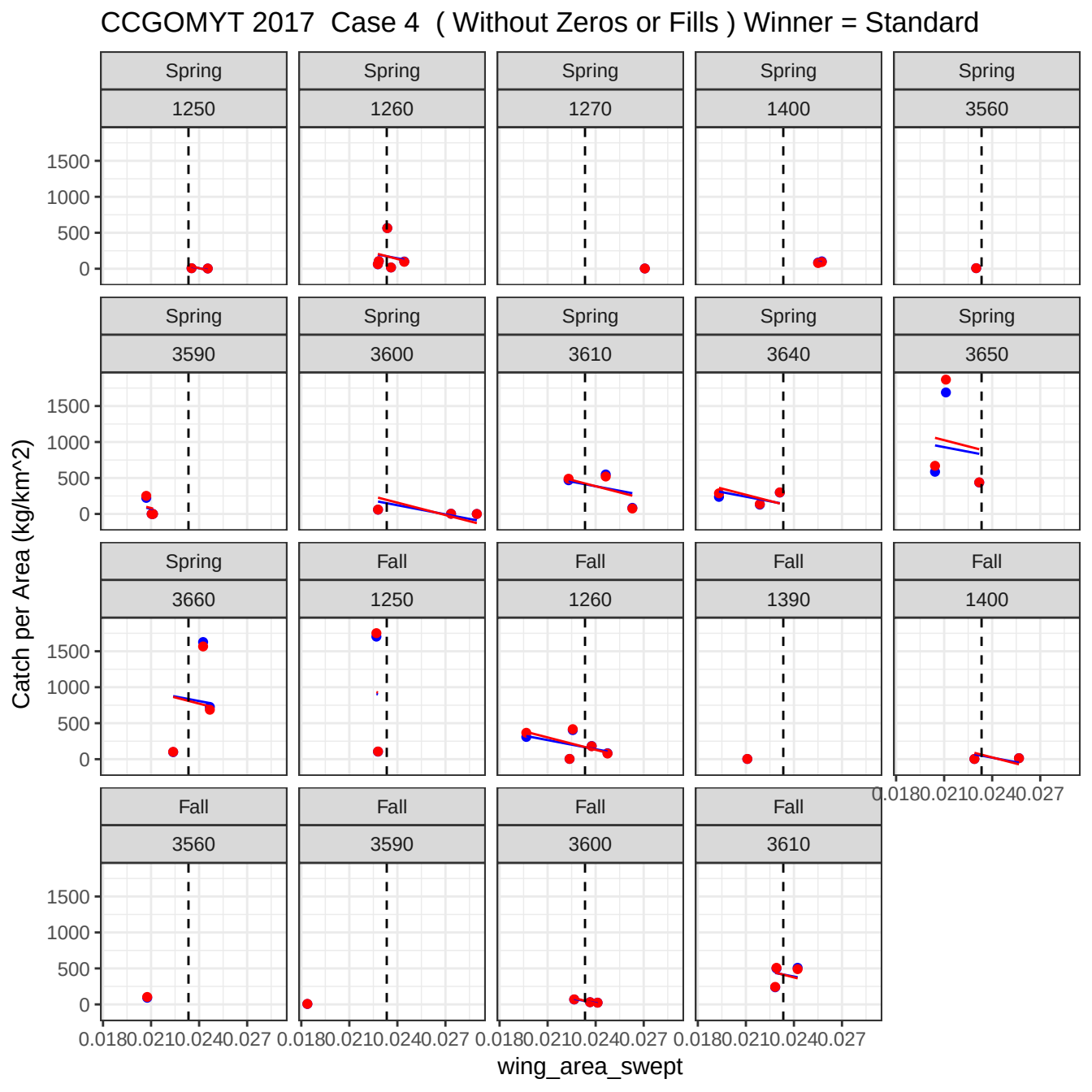

CCGOMYT 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1250
Spring 1260
Spring 1270
Spring 1390
Spring 1400
Spring 3590
Spring 3600
Spring 3610
Spring 3640
Spring 3650
Spring 3660
Fall 1250
Fall 1260
Fall 3560
Fall 3590
Fall 3600
Fall 3610
Fall 3640
Fall 3650
Fall 3660
Catch per Area (kg/km^2)
wing_area_swept

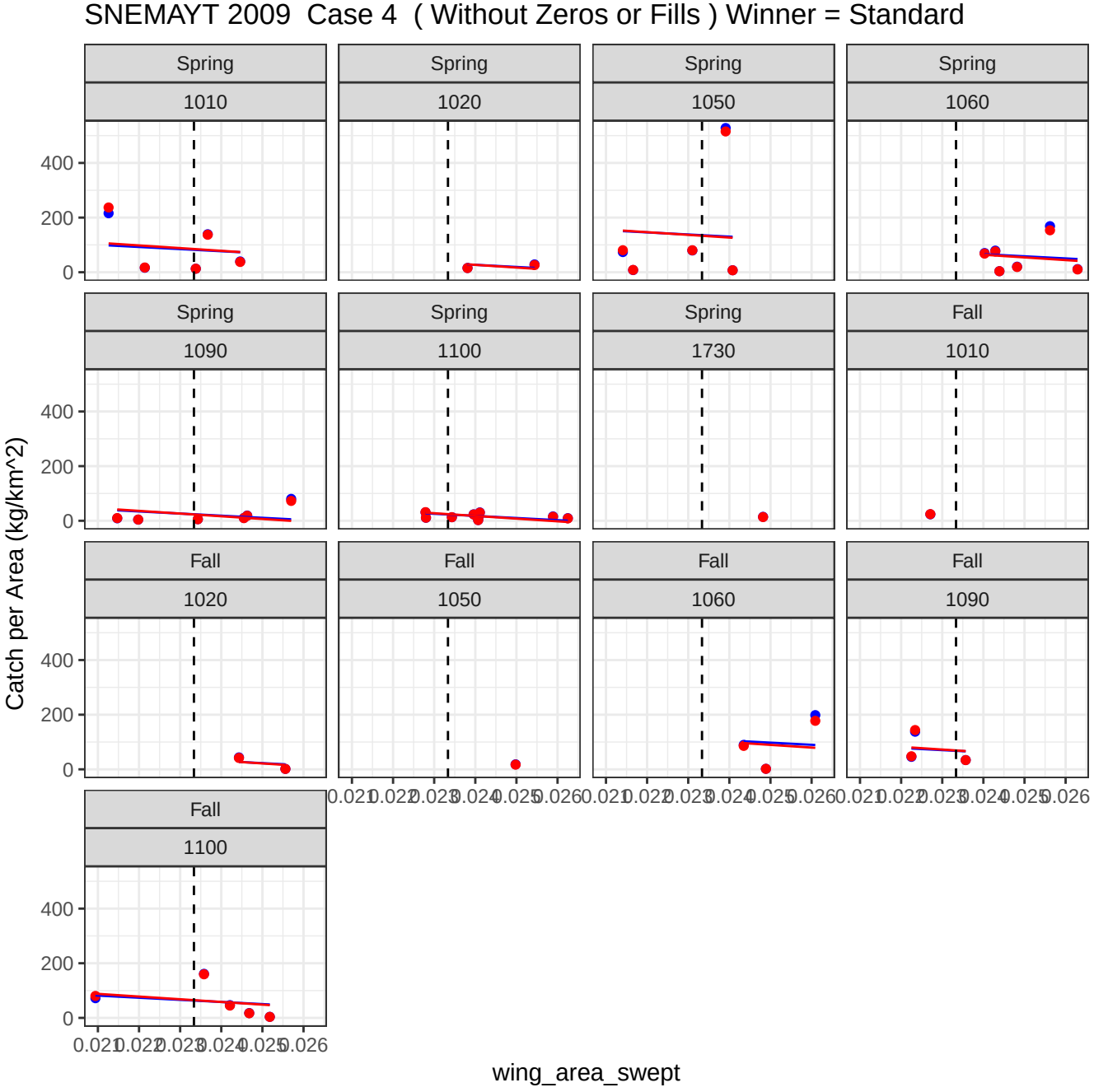

CCGOMYT 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1260
Spring 1270
Spring 1390
Spring 1400
Spring 3560
Spring 3590
Spring 3600
Spring 3610
Spring 3640
Spring 3650
Spring 3660
Fall 1260
Fall 1400
Fall 3560
Fall 3590
Fall 3600
Fall 3610
Fall 3640
Fall 3650
Fall 3660
Catch per Area (kg/km^2)
0
1000
2000
3000
wing_area_swept
0.0150.0175.0200.0225.0250

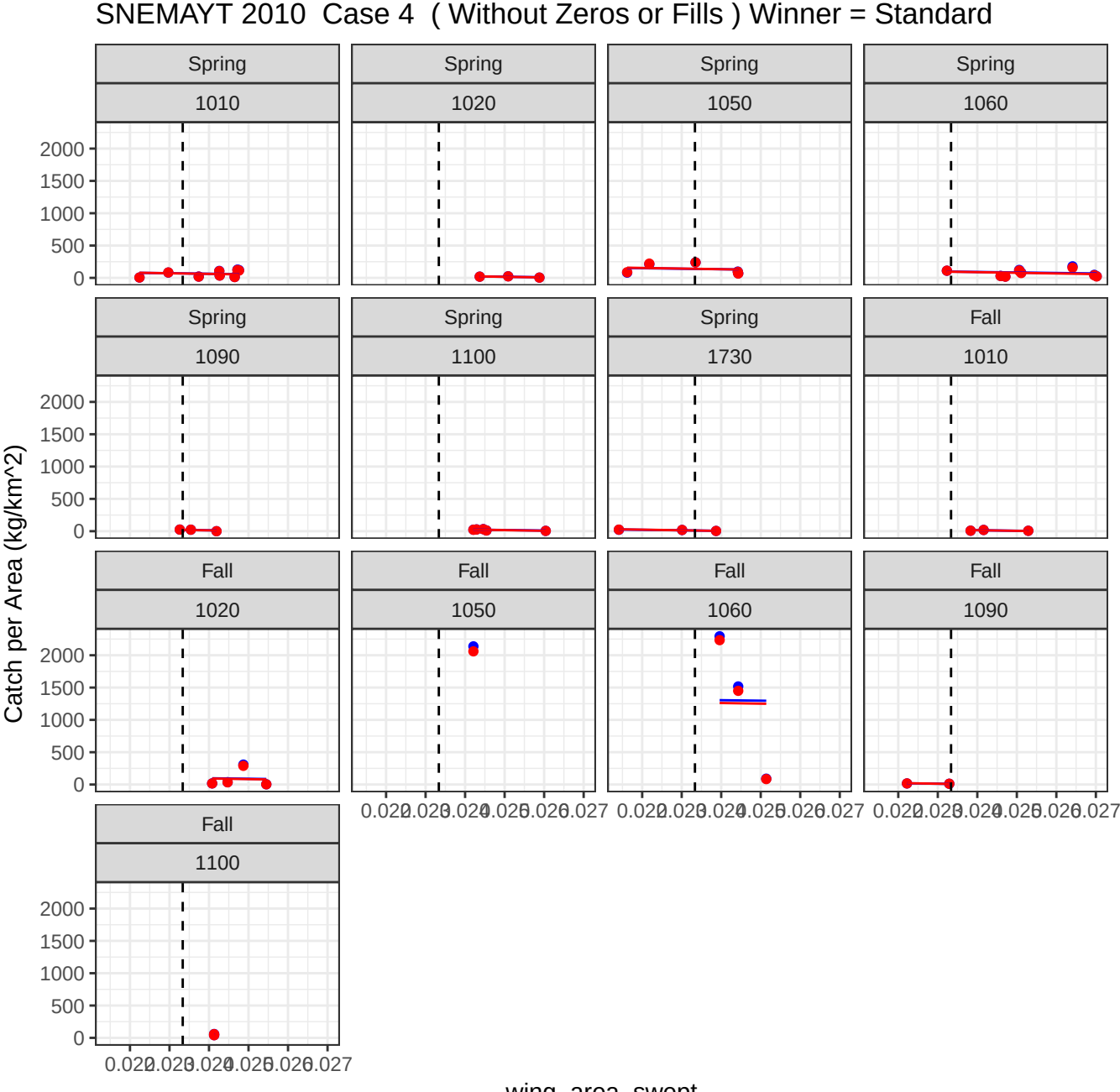

CCGOMYT 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1250
Spring 1260
Spring 1270
Spring 1390
Spring 1400
Spring 3560
Spring 3590
Spring 3600
Spring 3610
Spring 3640
Spring 3650
Spring 3660
Fall 1250
Fall 1260
Fall 1390
Fall 1400
Fall 3560
Fall 3590
Fall 3600
Fall 3610
Fall 3640
Fall 3650
Fall 3660
Catch per Area (kg/km^2)
0
2000
4000
6000
0.021 0.024 0.027
wing_area_swept

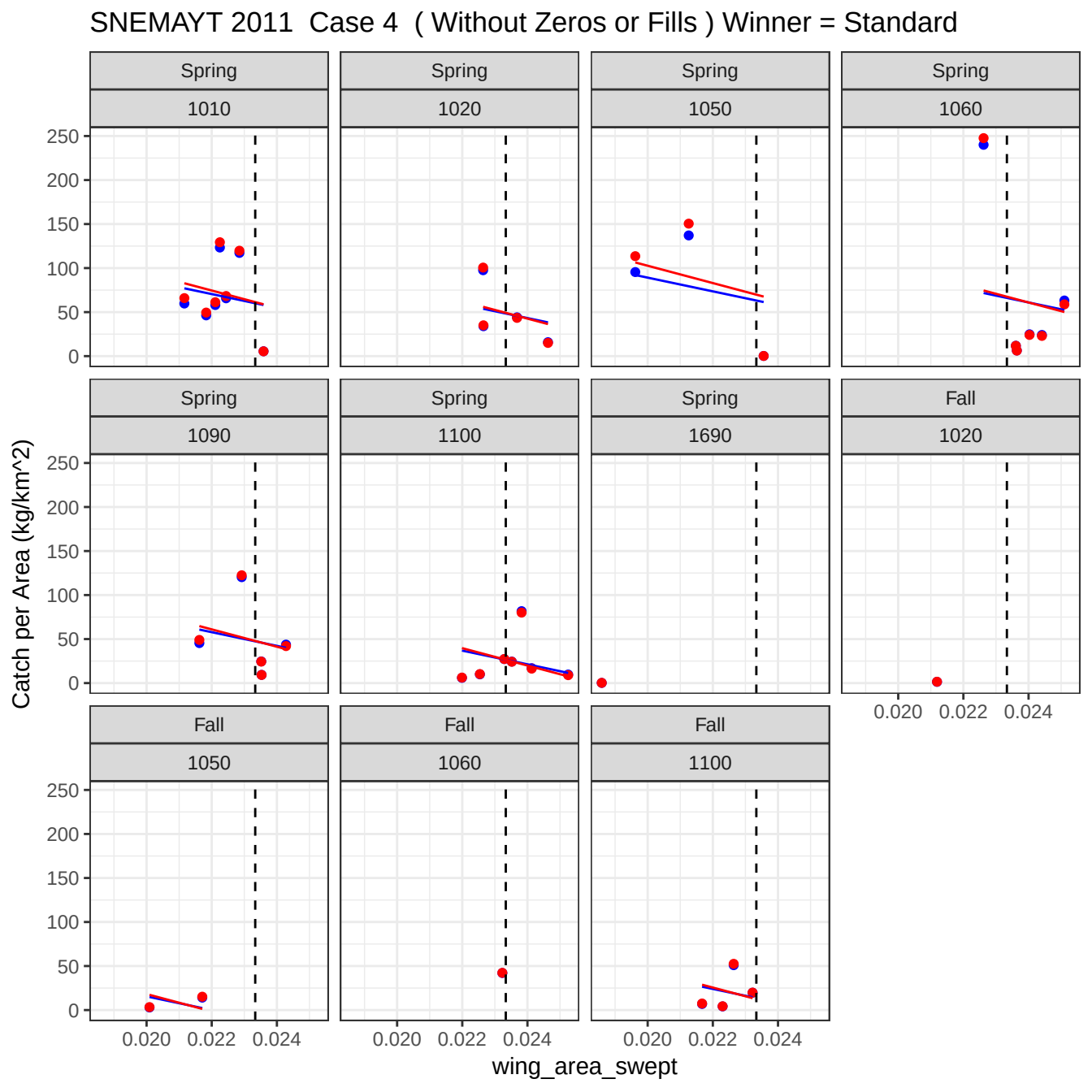

CCGOMYT 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1250
Spring 1260
Spring 1270
Spring 1390
Spring 1400
Spring 3560
Spring 3590
Spring 3600
Spring 3610
Spring 3640
Spring 3650
Spring 3660
Fall 1250
Fall 1260
Fall 1390
Fall 1400
Fall 3560
Fall 3590
Fall 3600
Fall 3610
Fall 3640
Fall 3650
Fall 3660
Catch per Area (kg/km^2)
wing_area_swept

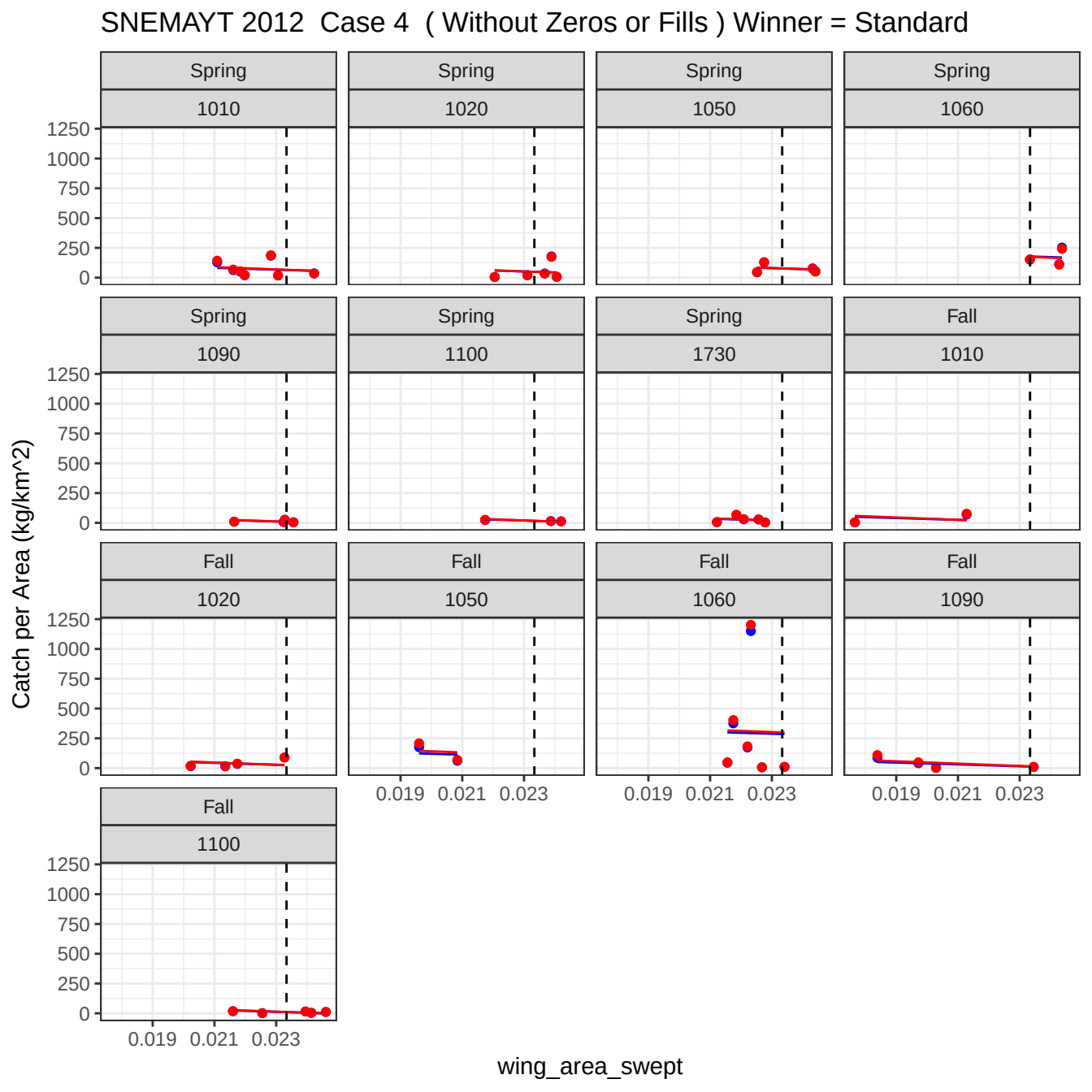

CCGOMYT 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1250
Spring 1260
Spring 1270
Spring 1390
Spring 1400
Spring 3560
Spring 3590
Spring 3600
Spring 3610
Spring 3640
Spring 3650
Spring 3660
Fall 1250
Fall 1260
Fall 1390
Fall 1400
Fall 3560
Fall 3590
Fall 3600
Fall 3610
Fall 3640
Fall 3650
Fall 3660
Catch per Area (kg/km^2)
wing_area_swept

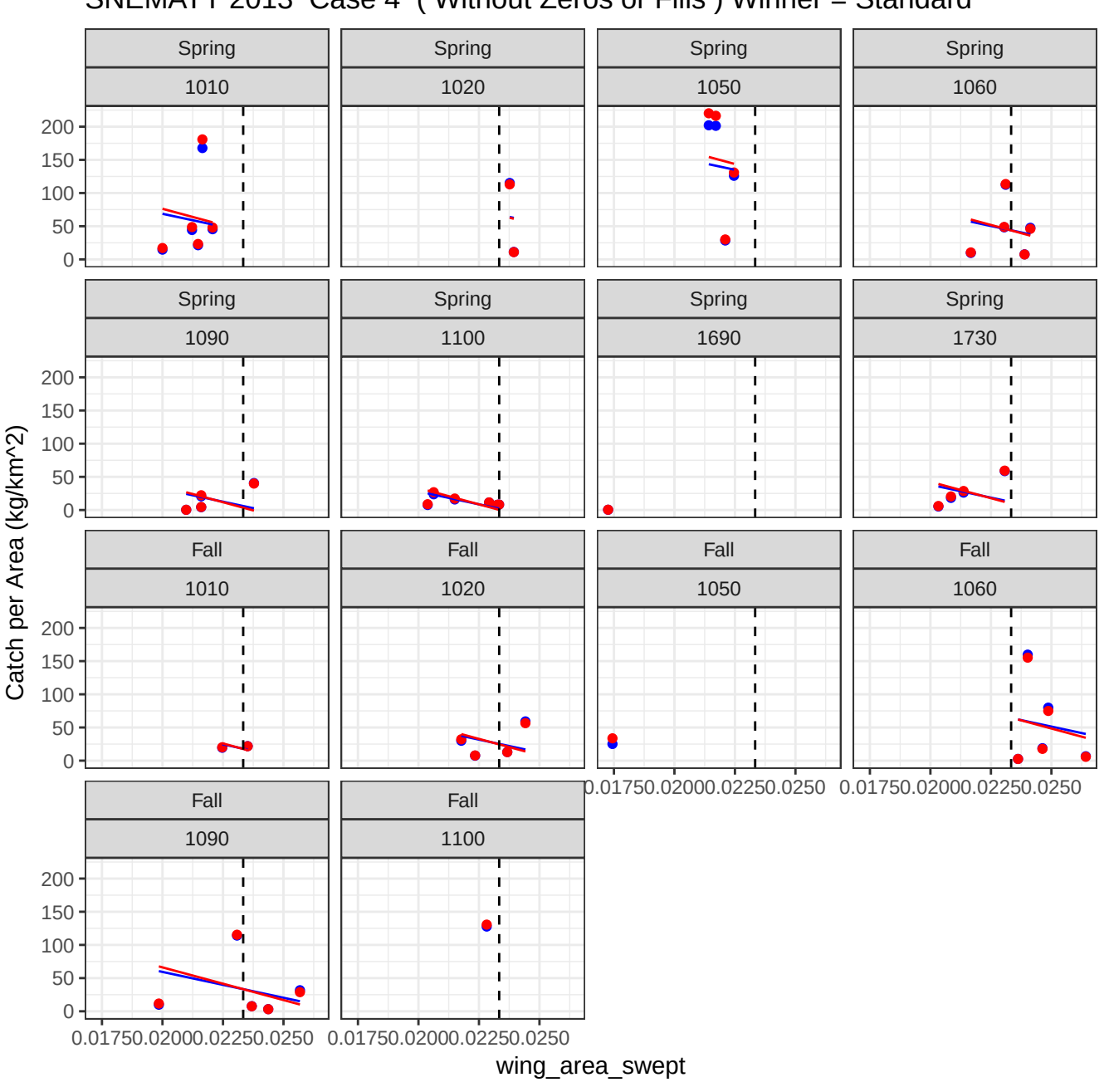

CCGOMYT 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring 1250
Spring 1260
Spring 1270
Spring 1400
Spring 3560
Spring 3590
Spring 3600
Spring 3610
Spring 3640
Spring 3650
Spring 3660
Fall 1250
Fall 1260
Fall 1390
Fall 1400
Fall 3560
Fall 3590
Fall 3600
Fall 3610
Catch per Area (kg/km^2)
0
500
1000
1500
0.018
0.021
0.024
0.027
wing_area_swept

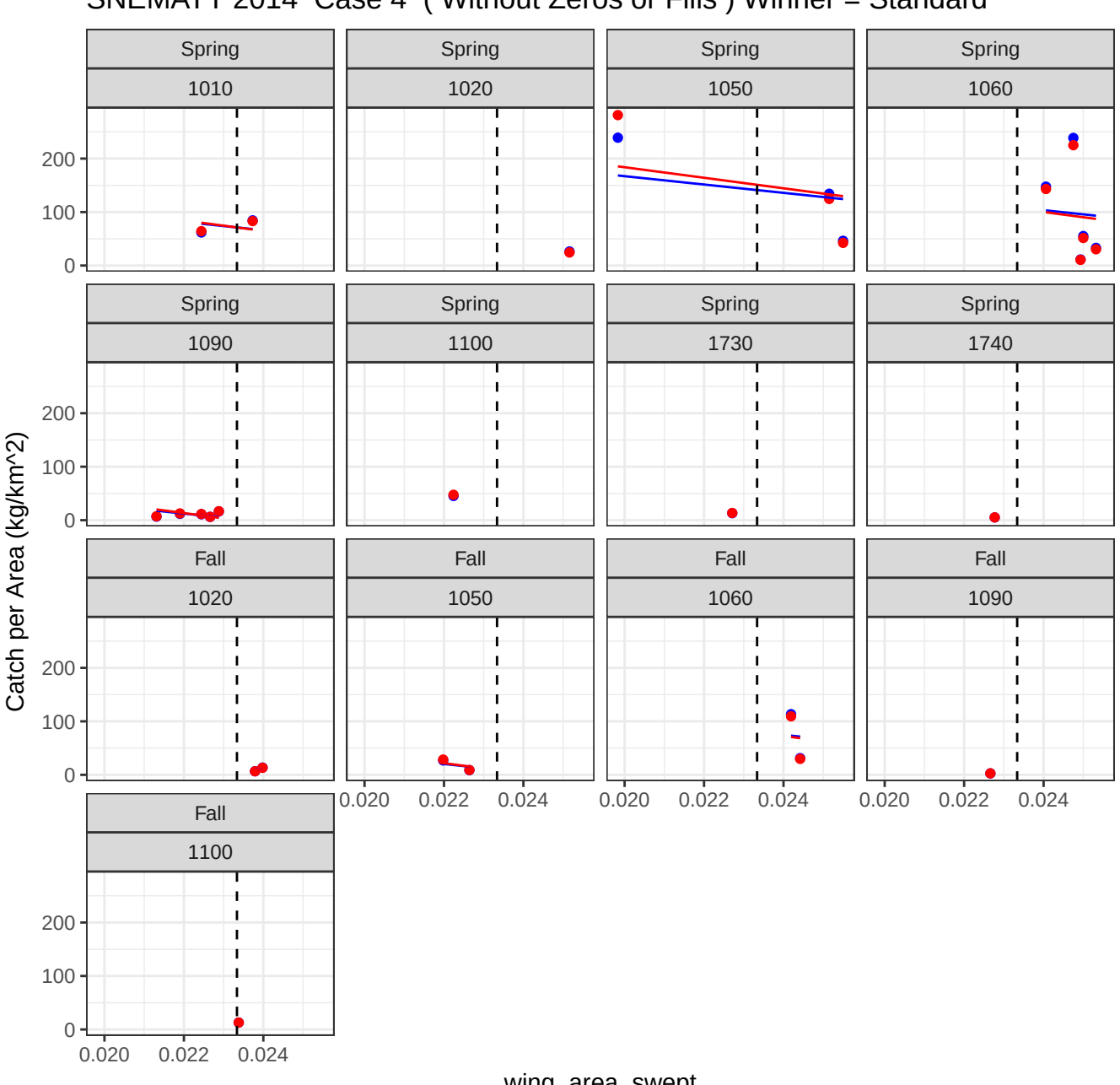

SNEMAYT 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
Spring
1020
Spring
1050
Spring
1060
Spring
1090
Spring
1100
Spring
1730
Fall
1010
Fall
1020
Fall
1050
Fall
1060
Fall
1090
Fall
1100
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
0.021
0.022
0.023
0.024
0.025
0.026

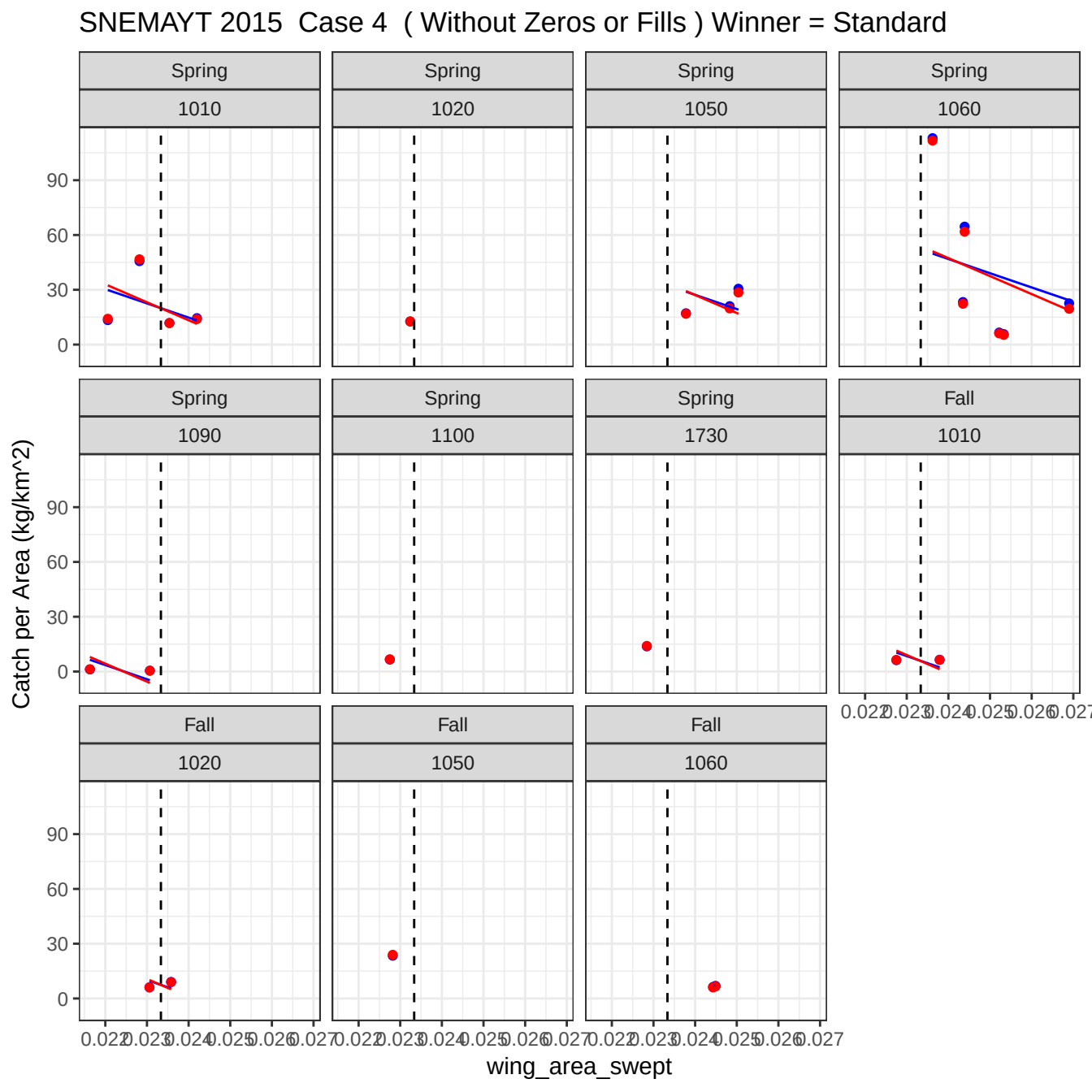

SNEMAYT 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
Spring
1020
Spring
1050
Spring
1060
Spring
1090
Spring
1100
Spring
1730
Fall
1010
Fall
1020
Fall
1050
Fall
1060
Fall
1090
Fall
1100
Catch per Area (kg/km^2)
wing_area_swept

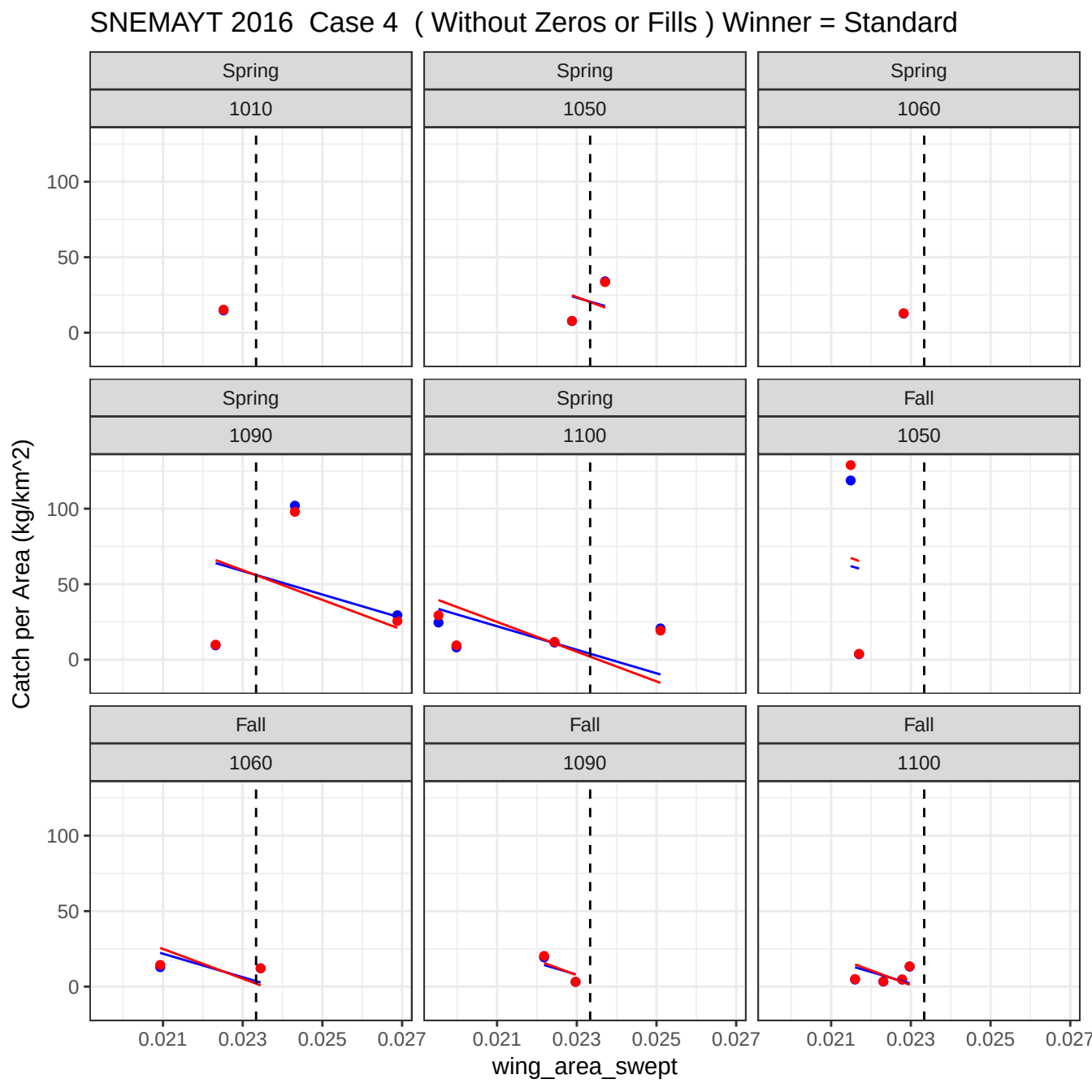

SNEMAYT 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
Spring
1020
Spring
1050
Spring
1060
Spring
1090
Spring
1100
Spring
1690
Fall
1020
Fall
1050
Fall
1060
Fall
1100
Catch per Area (kg/km^2)
wing_area_swept
0
50
100
150
200
250
0.020
0.022
0.024

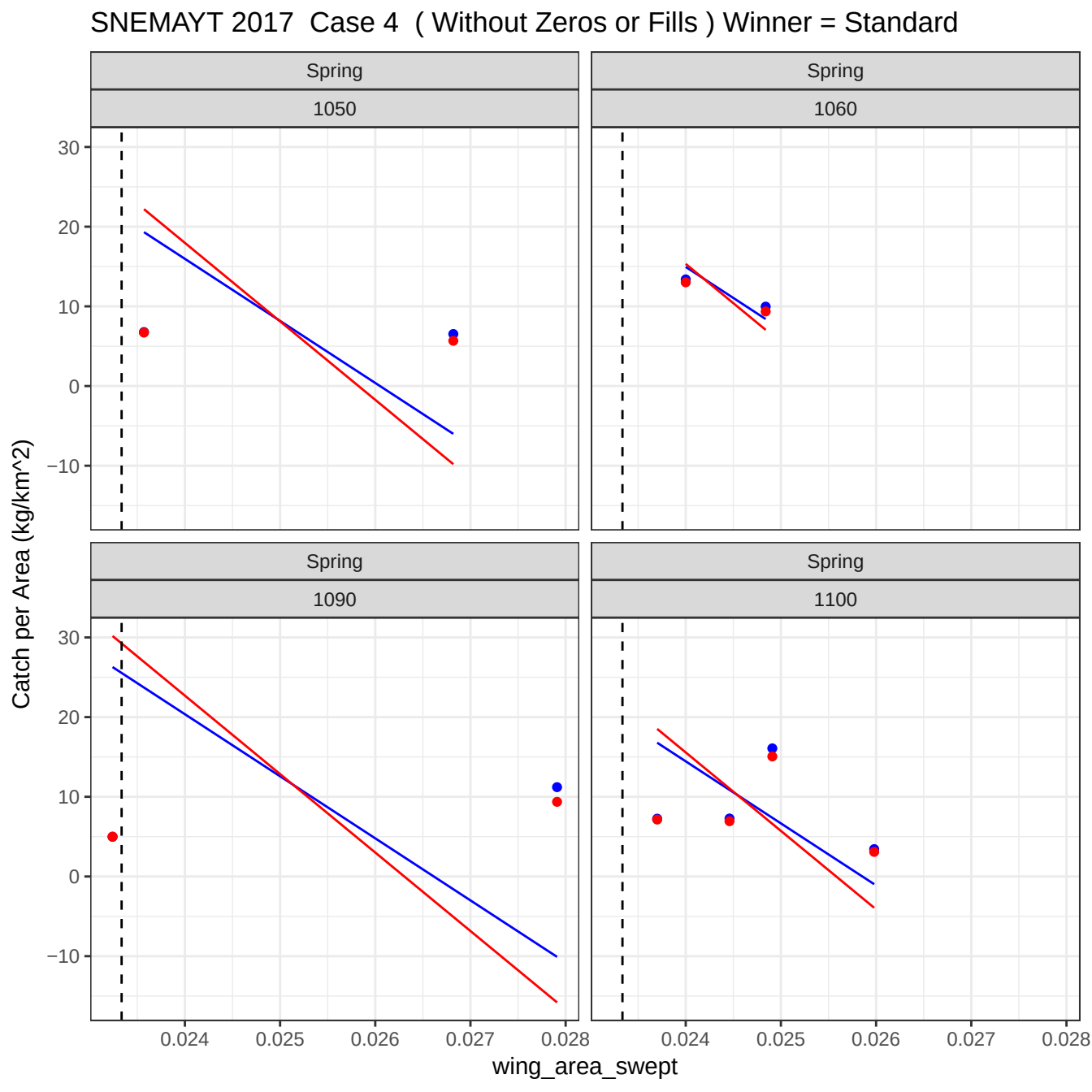

SNEMAYT 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
Spring
1020
Spring
1050
Spring
1060
Spring
1090
Spring
1100
Spring
1730
Fall
1010
Fall
1020
Fall
1050
Fall
1060
Fall
1090
Fall
1100
1250
1000
750
500
250
0
0.019
0.021
0.023
Catch per Area (kg/km^2)
wing_area_swept

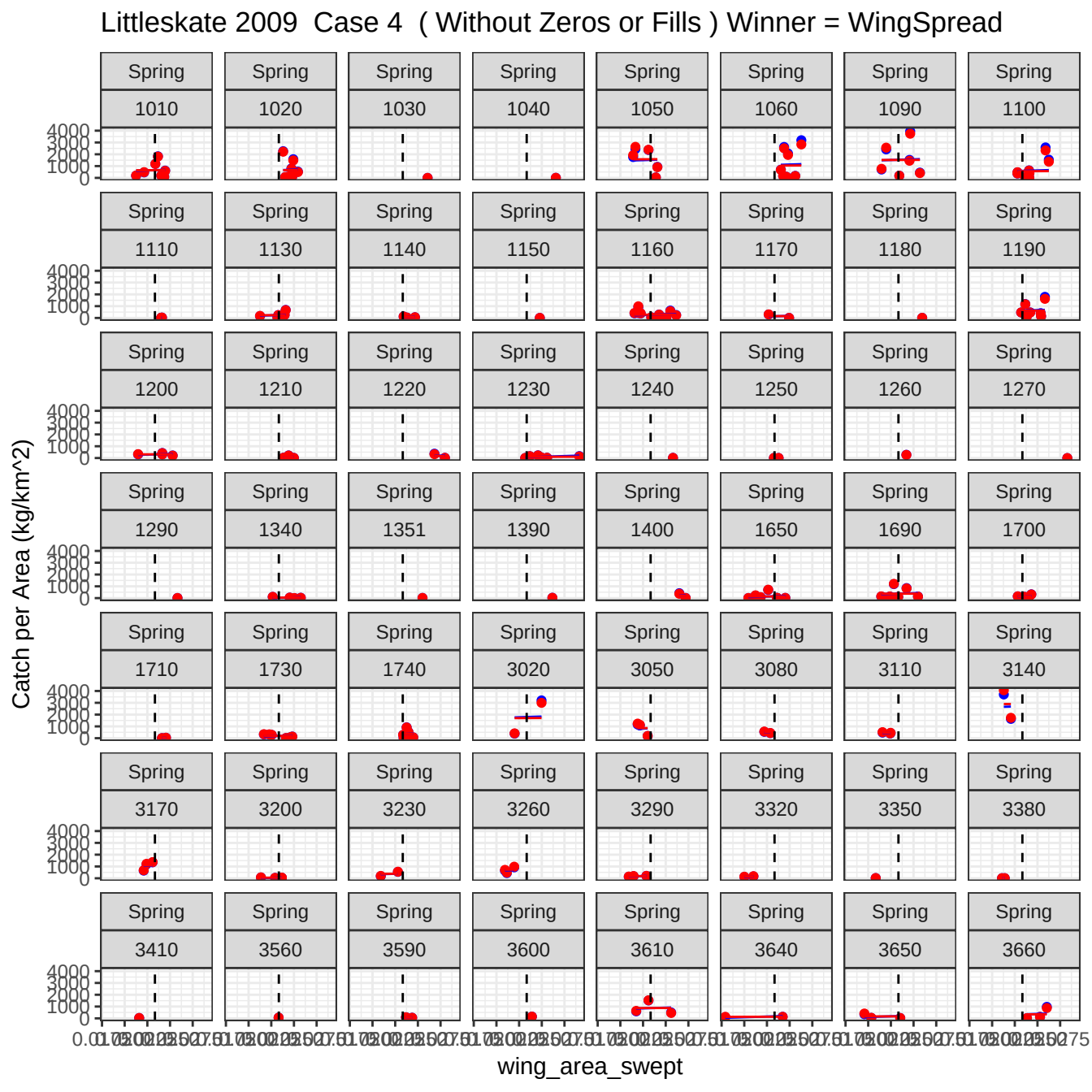

SNEMAYT 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
1020
1050
1060
1090
1100
1690
1730
Fall
1010
1020
1050
1060
1090
1100
Catch per Area (kg/km^2)
0
50
100
150
200
0.01750.02000.02250.0250
wing_area_swept

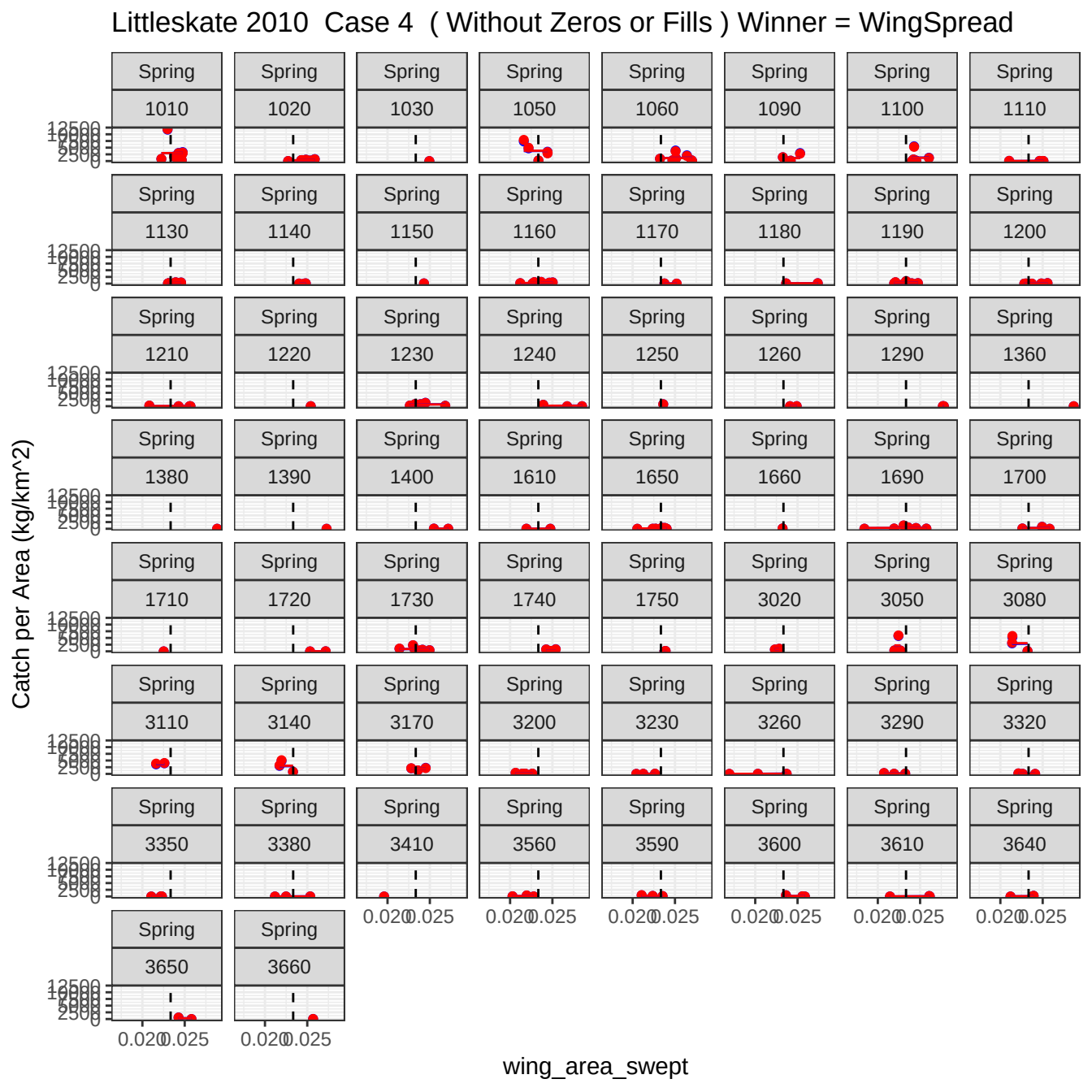

SNEMAYT 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
Spring
1020
Spring
1050
Spring
1060
Spring
1090
Spring
1100
Spring
1730
Spring
1740
Fall
1020
Fall
1050
Fall
1060
Fall
1090
Fall
1100
Catch per Area (kg/km^2)
wing_area_swept
0
100
200
0.020
0.022
0.024

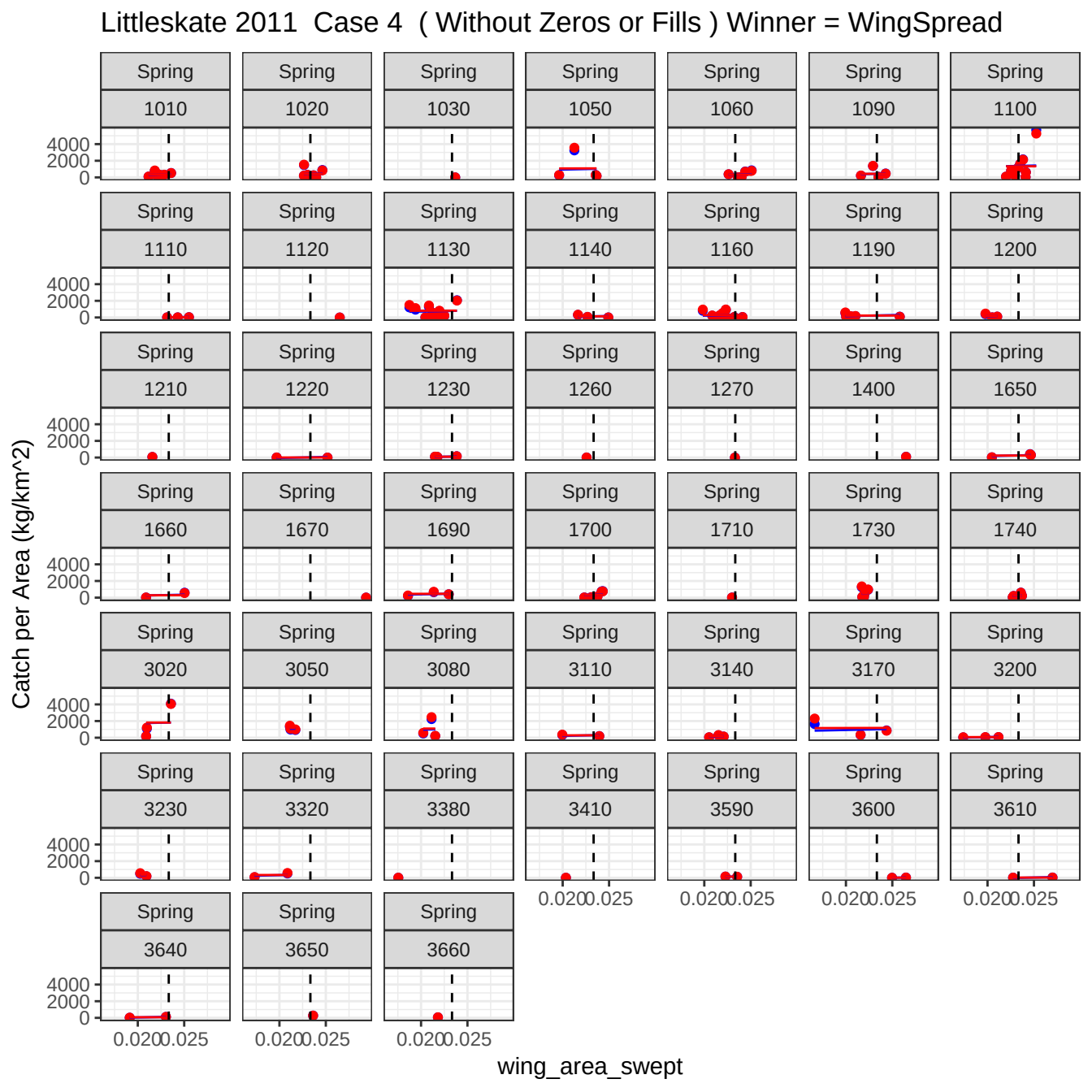

SNEMAYT 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
Spring
1020
Spring
1050
Spring
1060
Spring
1090
Spring
1100
Spring
1730
Fall
1010
Fall
1020
Fall
1050
Fall
1060
Catch per Area (kg/km^2)
wing_area_swept
0
30
60
90
0.022
0.023
0.024
0.025
0.026
0.027

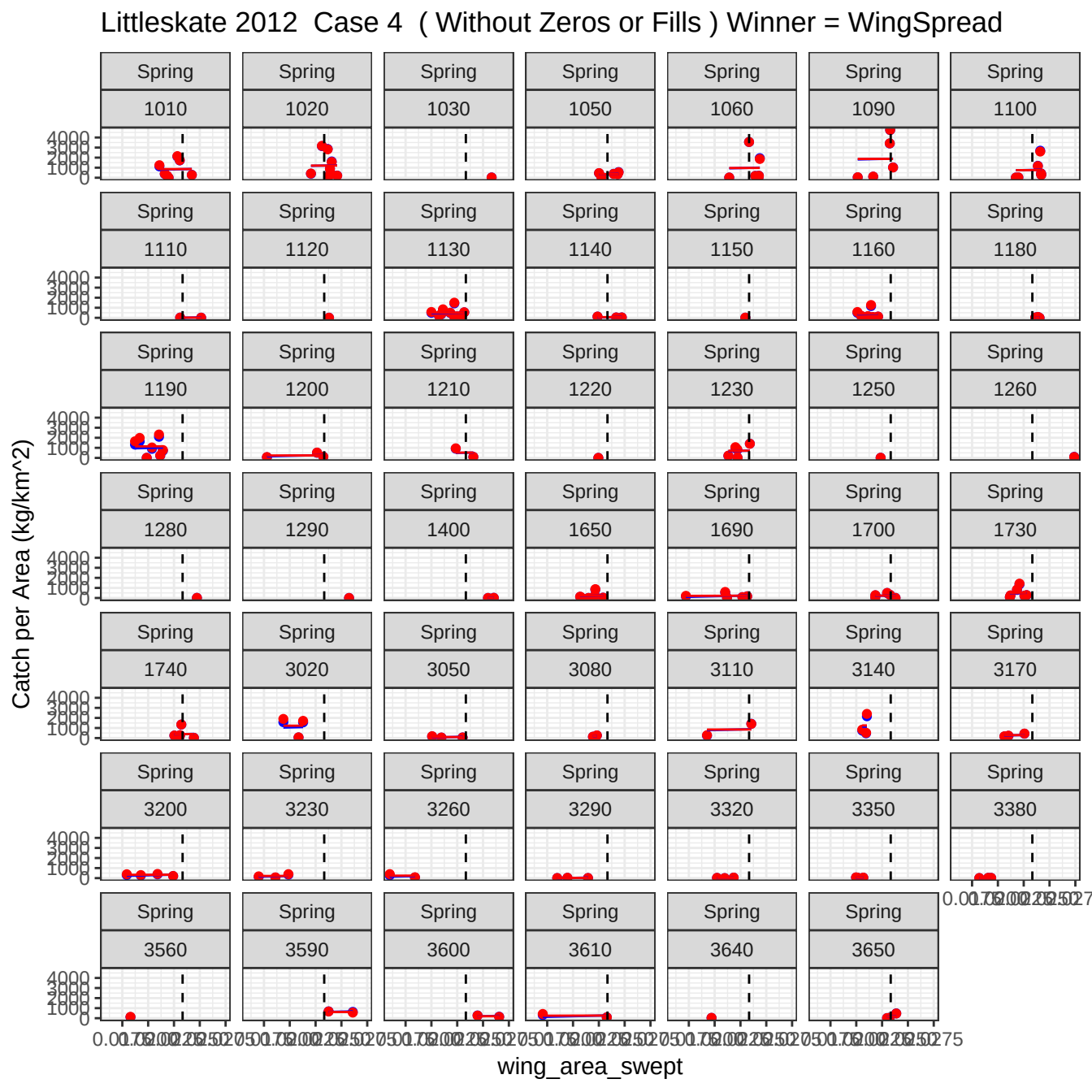

SNEMAYT 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1010
Spring
1050
Spring
1060
Spring
1090
Spring
1100
Fall
1050
Fall
1060
Fall
1090
Fall
1100
Catch per Area (kg/km^2)
0
50
100
0.021
0.023
0.025
0.027
wing_area_swept

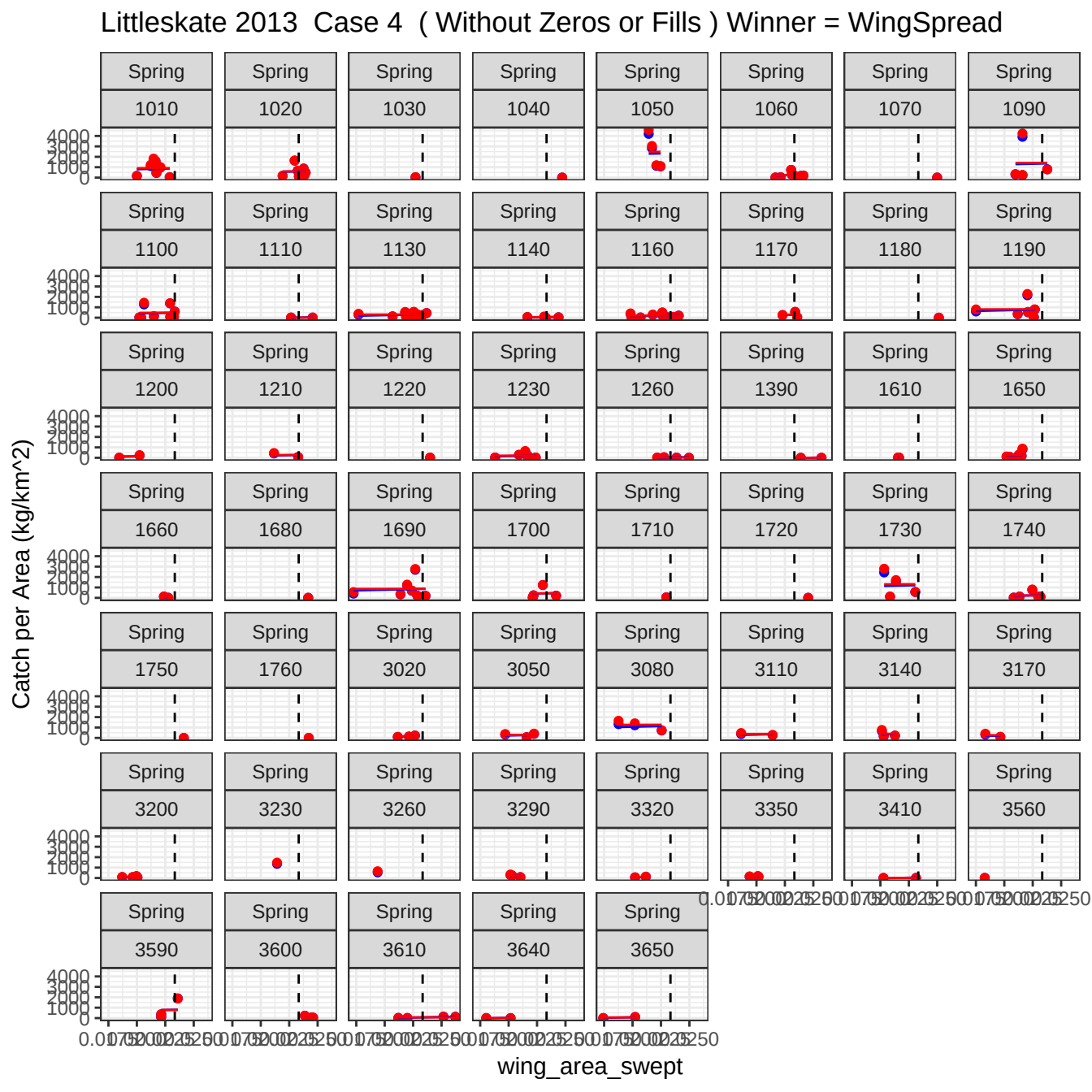

SNEMAYT 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Spring
1050
Spring
1060
Spring
1090
Spring
1100
Catch per Area (kg/km^2)
wing_area_swept
30
20
10
0
−10
0.024
0.025
0.026
0.027
0.028

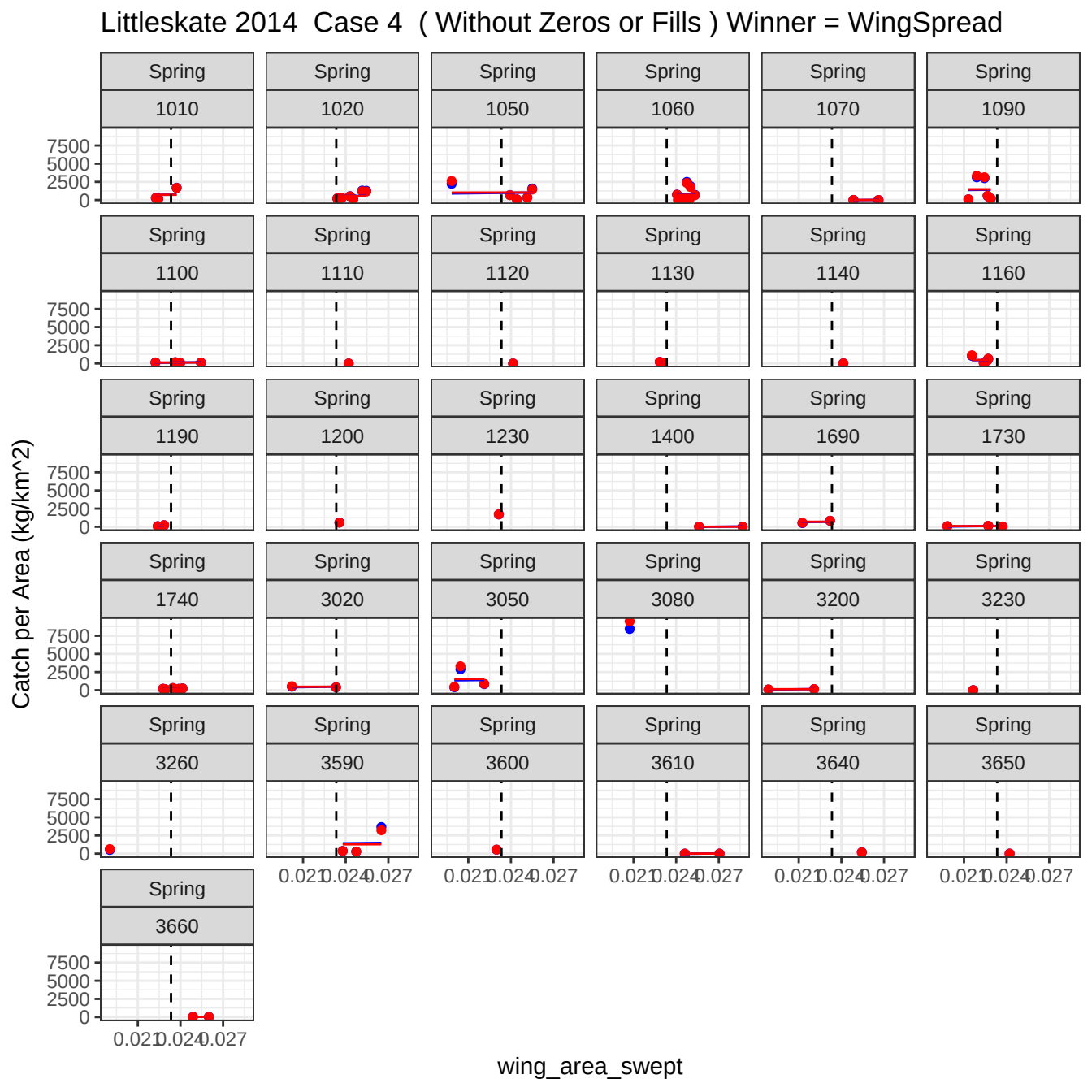

Littleskate 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1090
1100
1110
1130
1140
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1270
1290
1340
1351
1390
1400
1650
1690
1700
1710
1730
1740
3020
3050
3080
3110
3140
3170
3200
3230
3260
3290
3320
3350
3380
3410
3560
3590
3600
3610
3640
3650
3660
4000
3000
2000
1000
0
Catch per Area (kg/km^2)
wing_area_swept

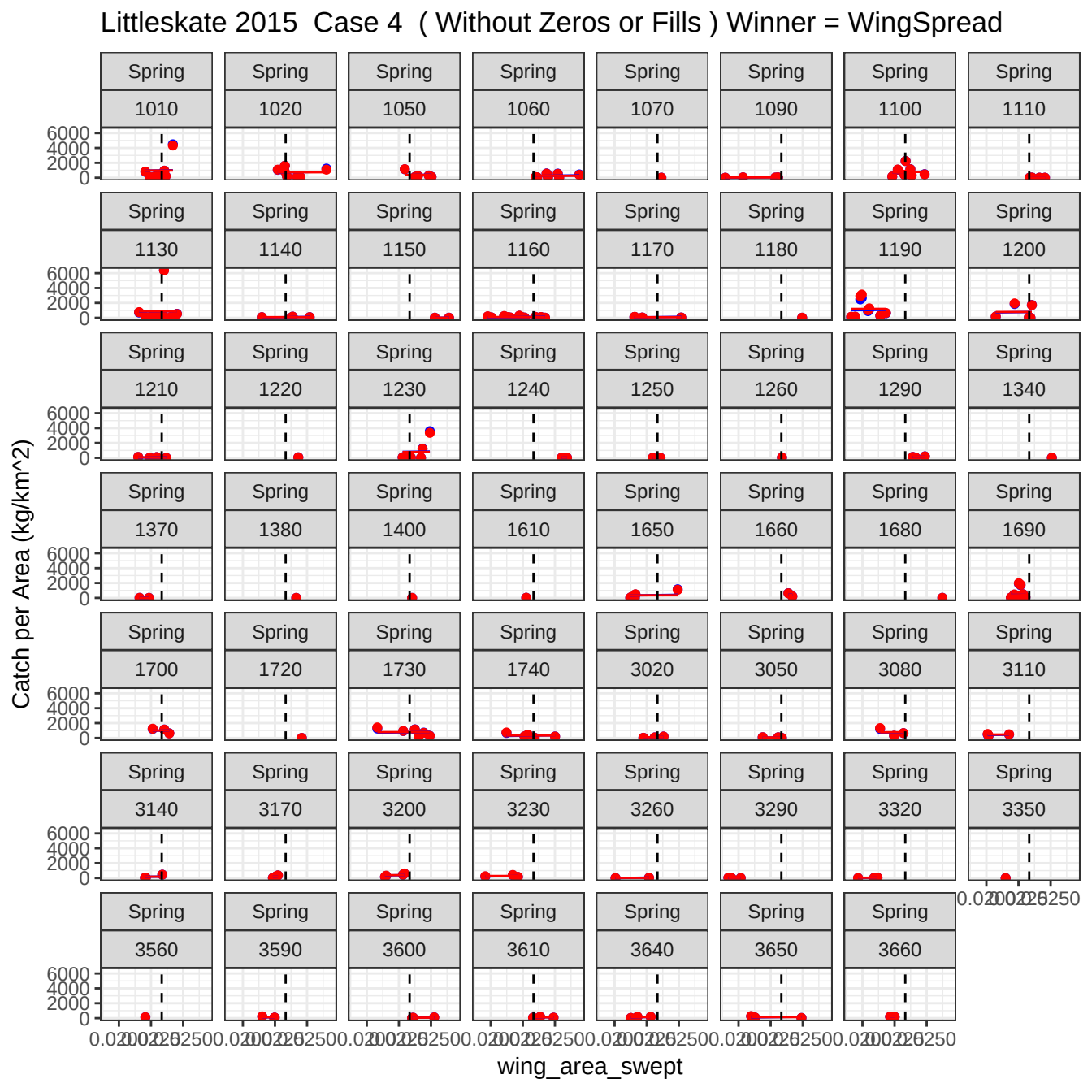

Littleskate 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1030
Spring 1050
Spring 1060
Spring 1090
Spring 1100
Spring 1110
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1290
Spring 1360
Spring 1380
Spring 1390
Spring 1400
Spring 1610
Spring 1650
Spring 1660
Spring 1690
Spring 1700
Spring 1710
Spring 1720
Spring 1730
Spring 1740
Spring 1750
Spring 3020
Spring 3050
Spring 3080
Spring 3110
Spring 3140
Spring 3170
Spring 3200
Spring 3230
Spring 3260
Spring 3290
Spring 3320
Spring 3350
Spring 3380
Spring 3410
Spring 3560
Spring 3590
Spring 3600
Spring 3610
Spring 3640
Spring 3650
Spring 3660
12500
10000
7500
5000
2500
0
0.020
0.025
Catch per Area (kg/km^2)
wing_area_swept

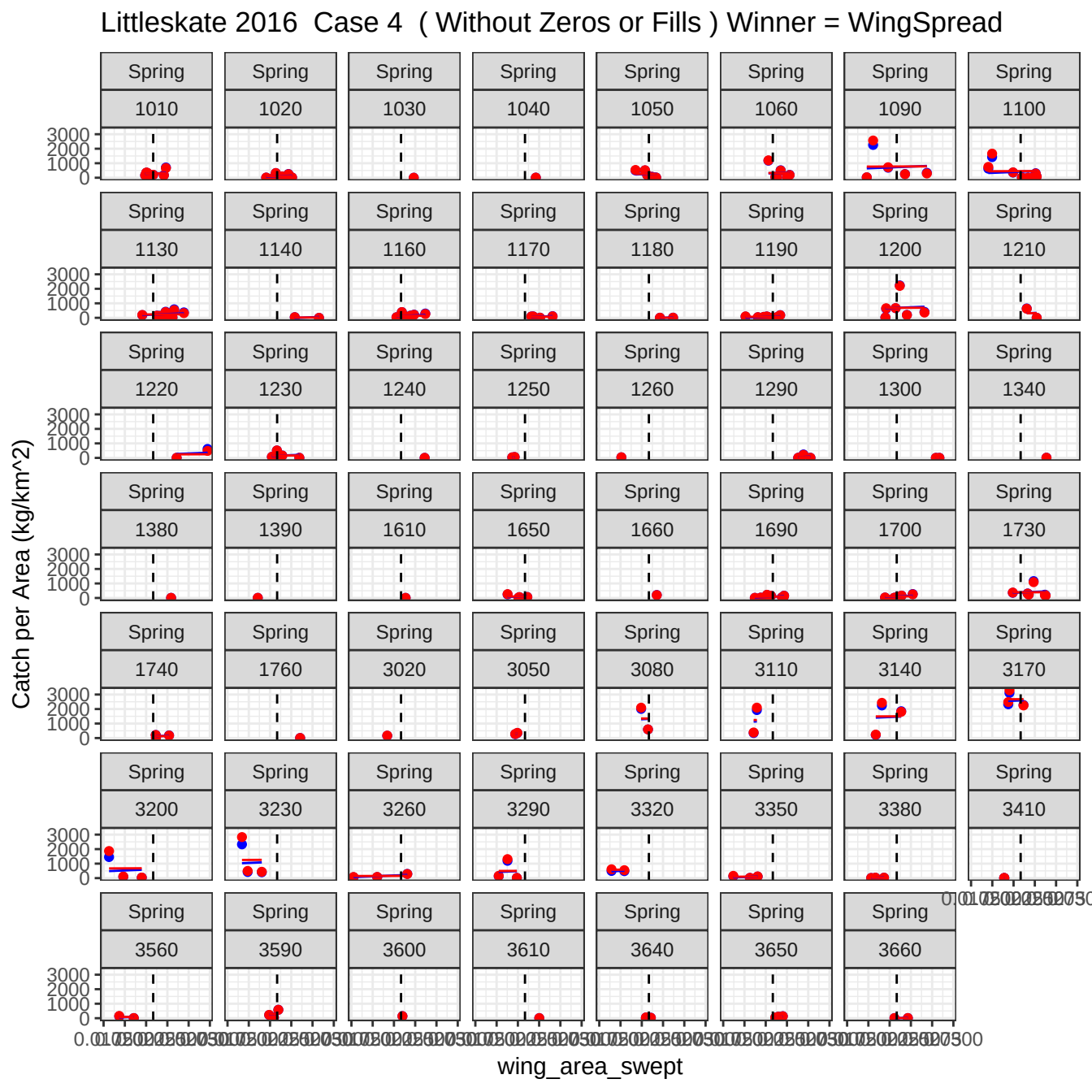

Littleskate 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1050
1060
1090
1100
1110
1120
1130
1140
1160
1190
1200
1210
1220
1230
1260
1270
1400
1650
1660
1670
1690
1700
1710
1730
1740
3020
3050
3080
3110
3140
3170
3200
3230
3320
3380
3410
3590
3600
3610
3640
3650
3660
4000
2000
0
0.020
0.025
Catch per Area (kg/km^2)
wing_area_swept

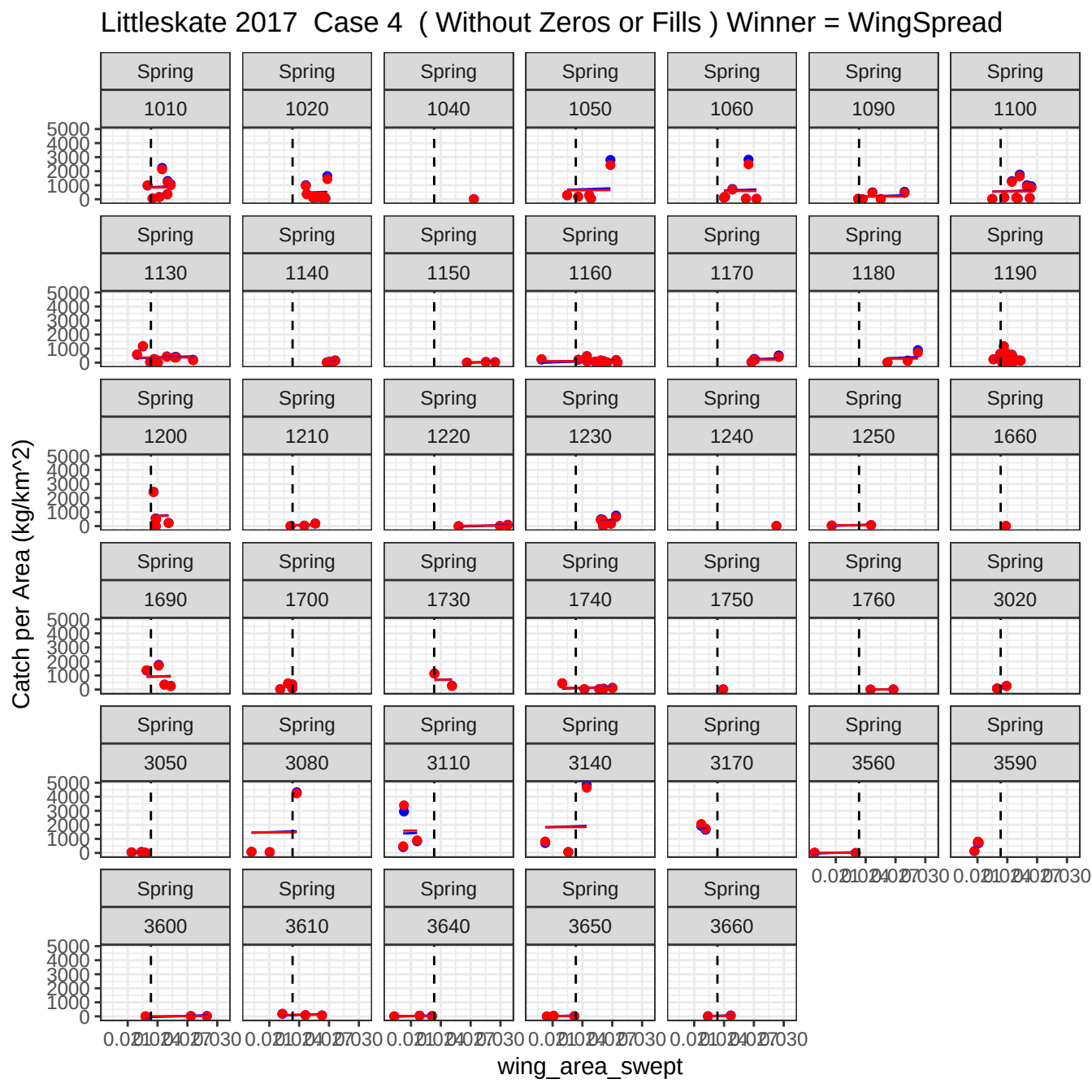

Littleskate 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1050
1060
1090
1100
1110
1120
1130
1140
1150
1160
1180
1190
1200
1210
1220
1230
1250
1260
1280
1290
1400
1650
1690
1700
1730
1740
3020
3050
3080
3110
3140
3170
3200
3230
3260
3290
3320
3350
3380
3560
3590
3600
3610
3640
3650
4000
3000
2000
1000
0
0.00
0.02
0.05
0.07
0.10
0.12
0.15
0.17
0.20
0.22
0.25
0.27
Catch per Area (kg/km^2)
wing_area_swept

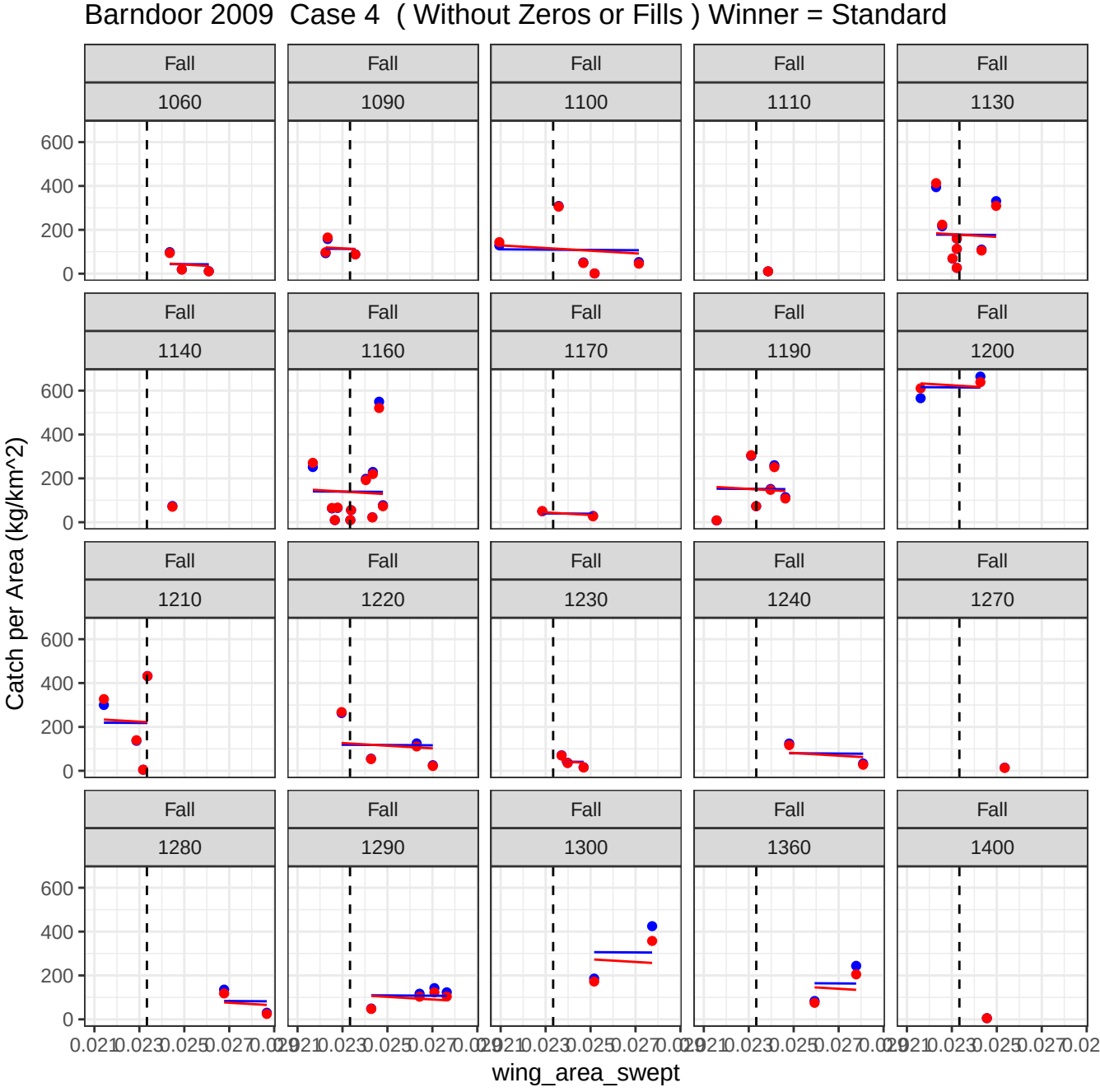

Littleskate 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1090
1100
1110
1130
1140
1160
1170
1180
1190
1200
1210
1220
1230
1260
1390
1610
1650
1660
1680
1690
1700
1710
1720
1730
1740
1750
1760
3020
3050
3080
3110
3140
3170
3200
3230
3260
3290
3320
3350
3410
3560
3590
3600
3610
3640
3650
Catch per Area (kg/km^2)
wing_area_swept

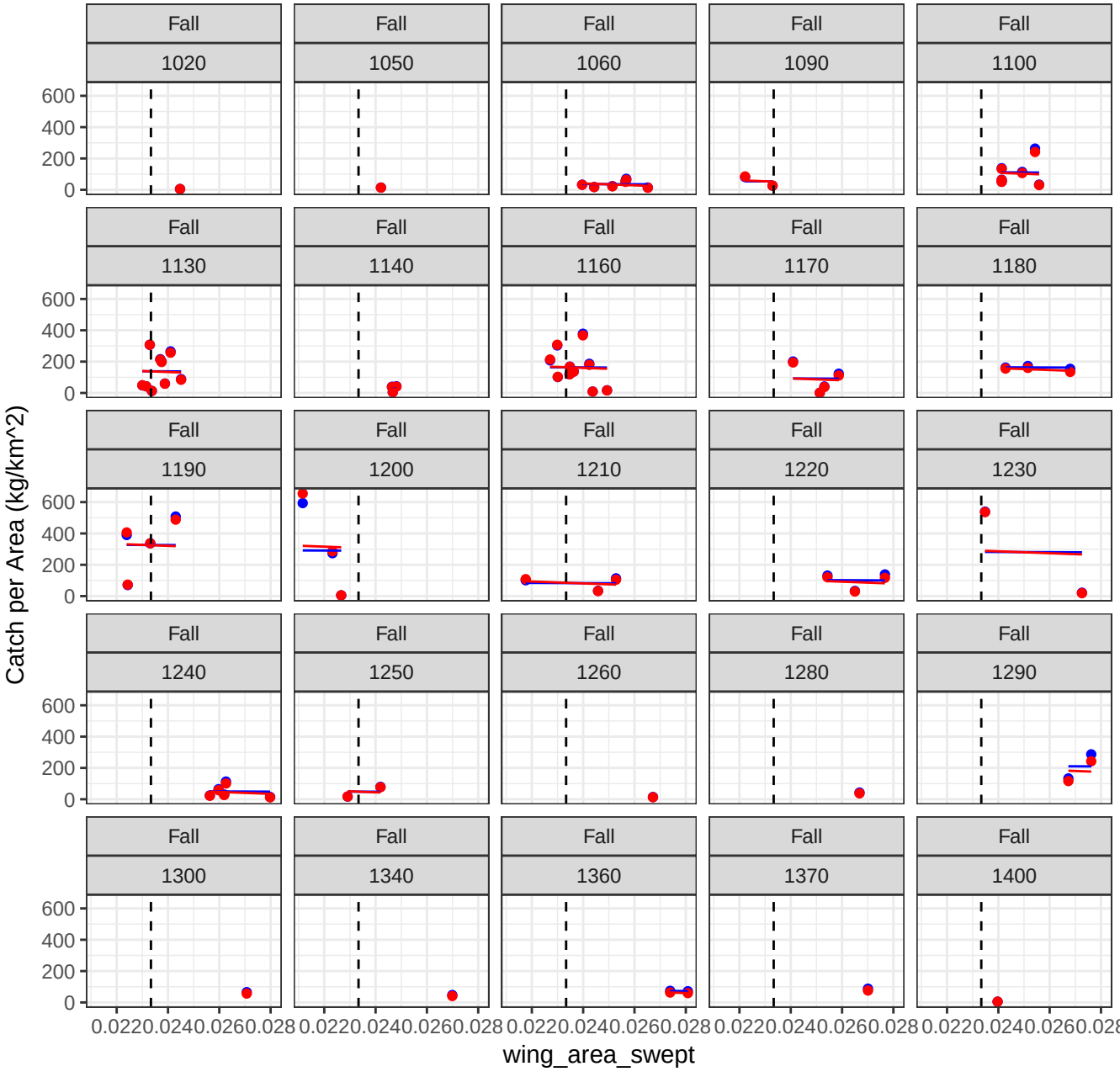

Littleskate 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1050
1060
1070
1090
1100
1110
1120
1130
1140
1160
1190
1200
1230
1400
1690
1730
1740
3020
3050
3080
3200
3230
3260
3590
3600
3610
3640
3650
3660
7500
5000
2500
0
0.021
0.024
0.027
Catch per Area (kg/km^2)
wing_area_swept

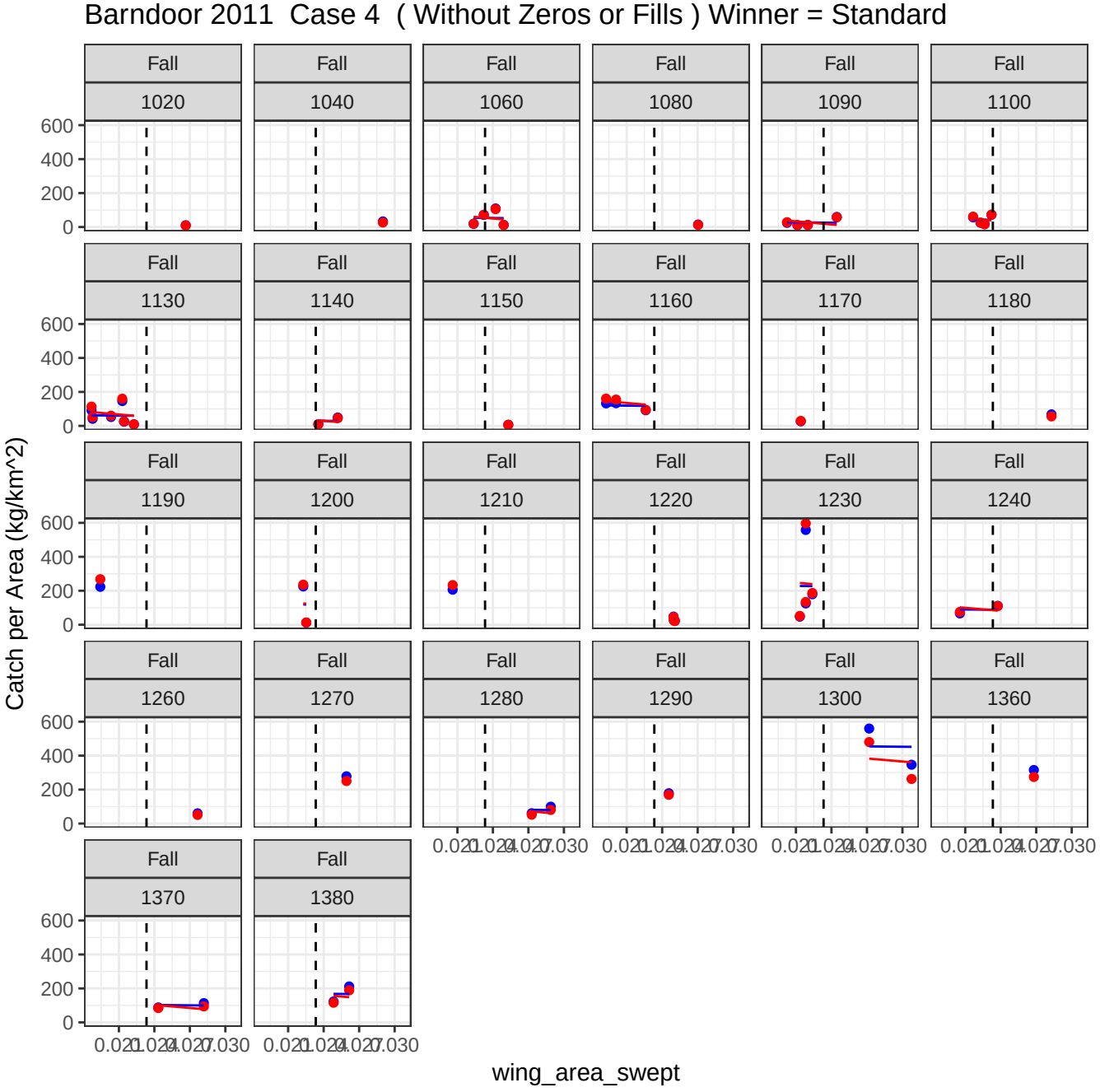

Littleskate 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring 1010
Spring 1020
Spring 1050
Spring 1060
Spring 1070
Spring 1090
Spring 1100
Spring 1110
Spring 1130
Spring 1140
Spring 1150
Spring 1160
Spring 1170
Spring 1180
Spring 1190
Spring 1200
Spring 1210
Spring 1220
Spring 1230
Spring 1240
Spring 1250
Spring 1260
Spring 1290
Spring 1340
Spring 1370
Spring 1380
Spring 1400
Spring 1610
Spring 1650
Spring 1660
Spring 1680
Spring 1690
Spring 1700
Spring 1720
Spring 1730
Spring 1740
Spring 3020
Spring 3050
Spring 3080
Spring 3110
Spring 3140
Spring 3170
Spring 3200
Spring 3230
Spring 3260
Spring 3290
Spring 3320
Spring 3350
Spring 3560
Spring 3590
Spring 3600
Spring 3610
Spring 3640
Spring 3650
Spring 3660
Catch per Area (kg/km^2)
0
2000
4000
6000
wing_area_swept

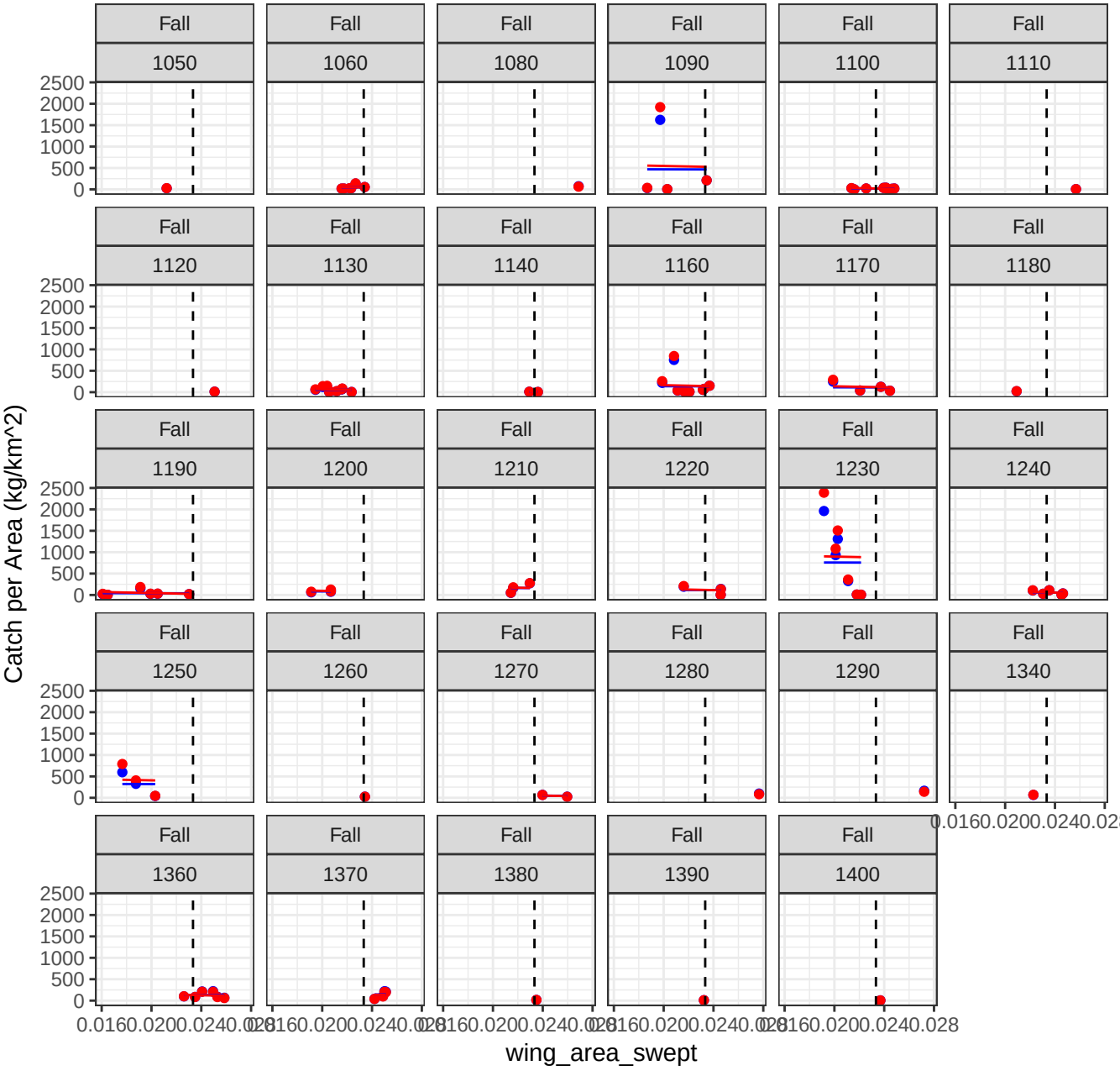

Littleskate 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1090
1100
1130
1140
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1290
1300
1340
1380
1390
1610
1650
1660
1690
1700
1730
1740
1760
3020
3050
3080
3110
3140
3170
3200
3230
3260
3290
3320
3350
3380
3410
3560
3590
3600
3610
3640
3650
3660
3000
2000
1000
0
Catch per Area (kg/km^2)
wing_area_swept

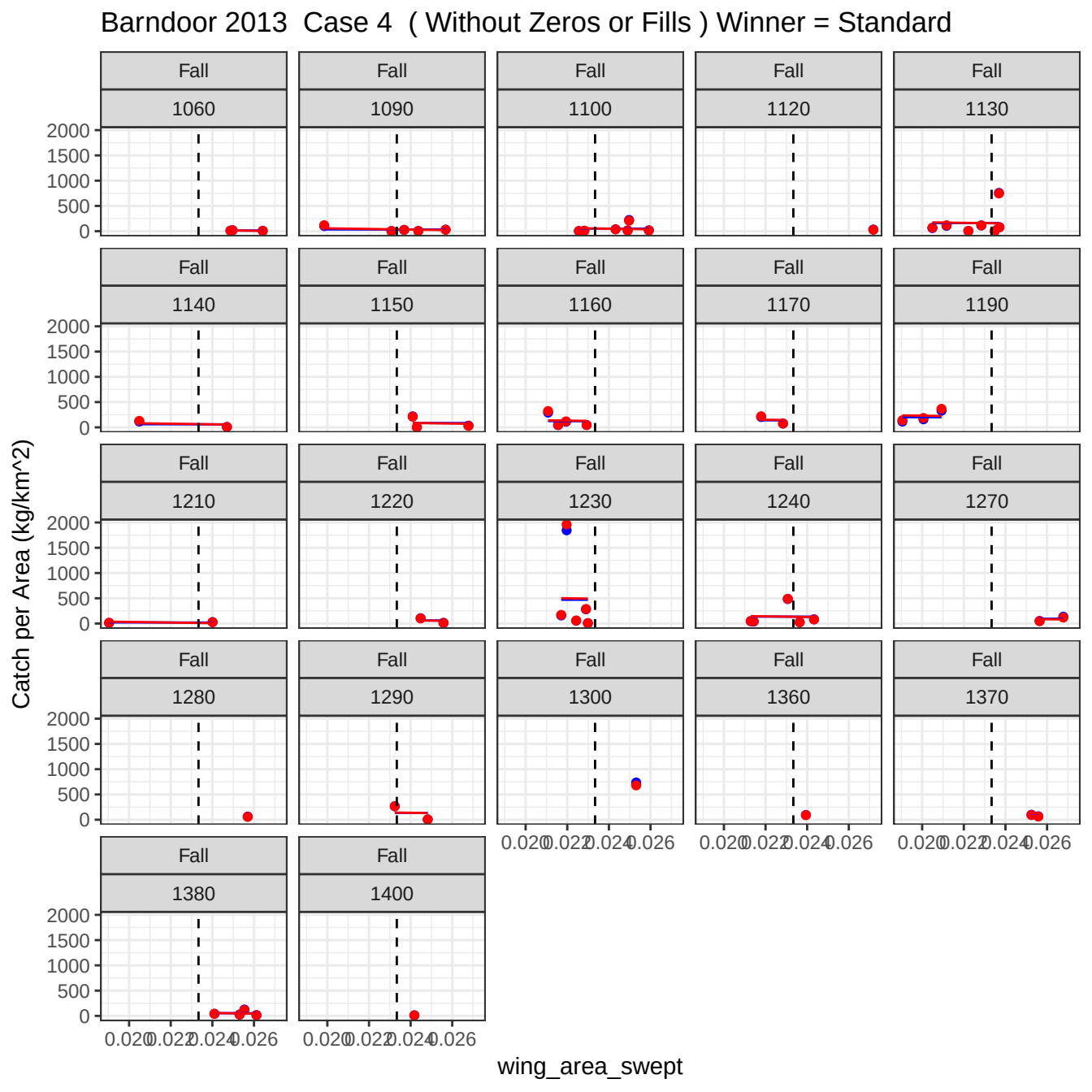

Littleskate 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1040
1050
1060
1090
1100
1130
1140
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1660
1690
1700
1730
1740
1750
1760
3020
3050
3080
3110
3140
3170
3560
3590
3600
3610
3640
3650
3660
Catch per Area (kg/km^2)
wing_area_swept

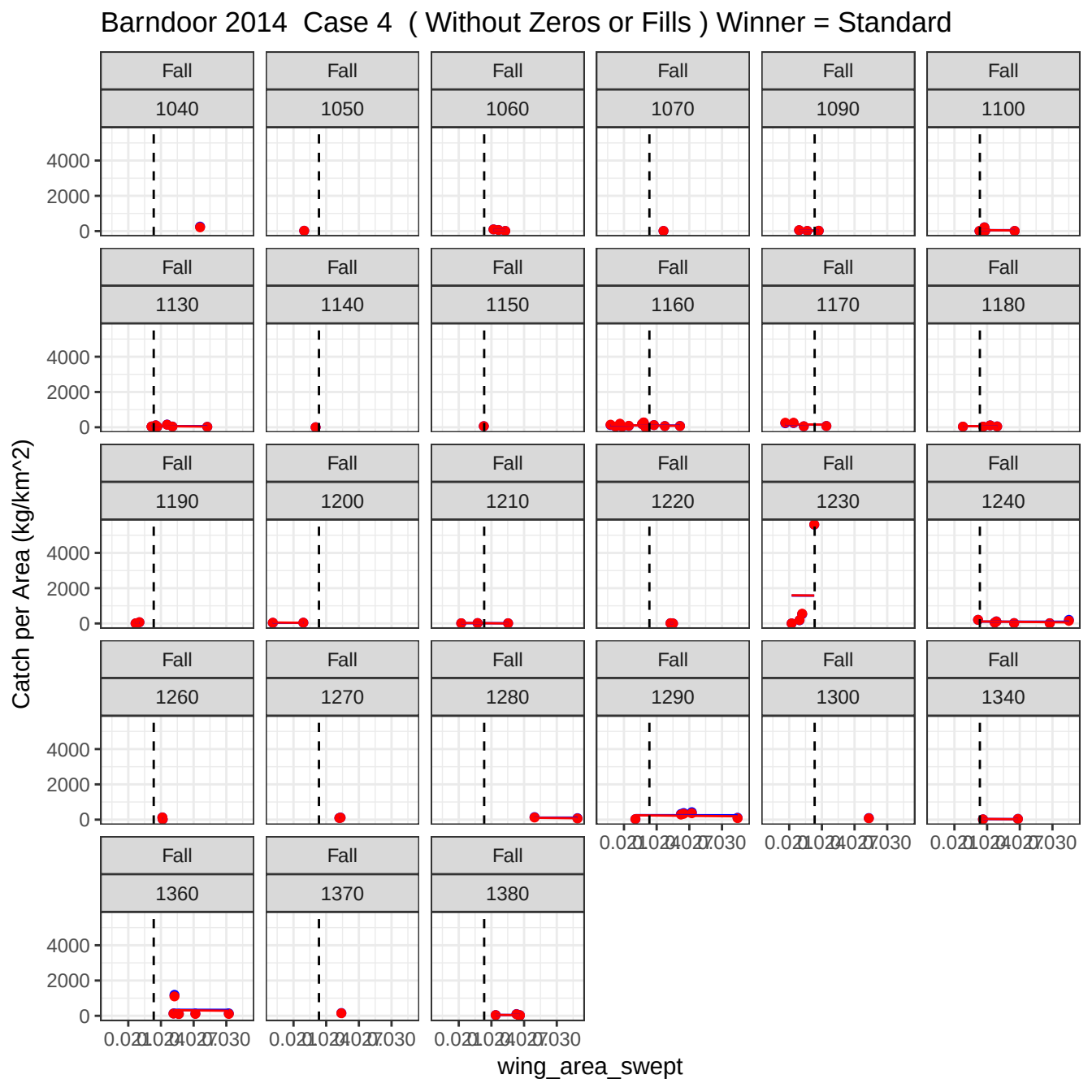

Barndoor 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1060
1090
1100
1110
1130
1140
1160
1170
1190
1200
1210
1220
1230
1240
1270
1280
1290
1300
1360
1400
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
0.021
0.023
0.025
0.027
0.029

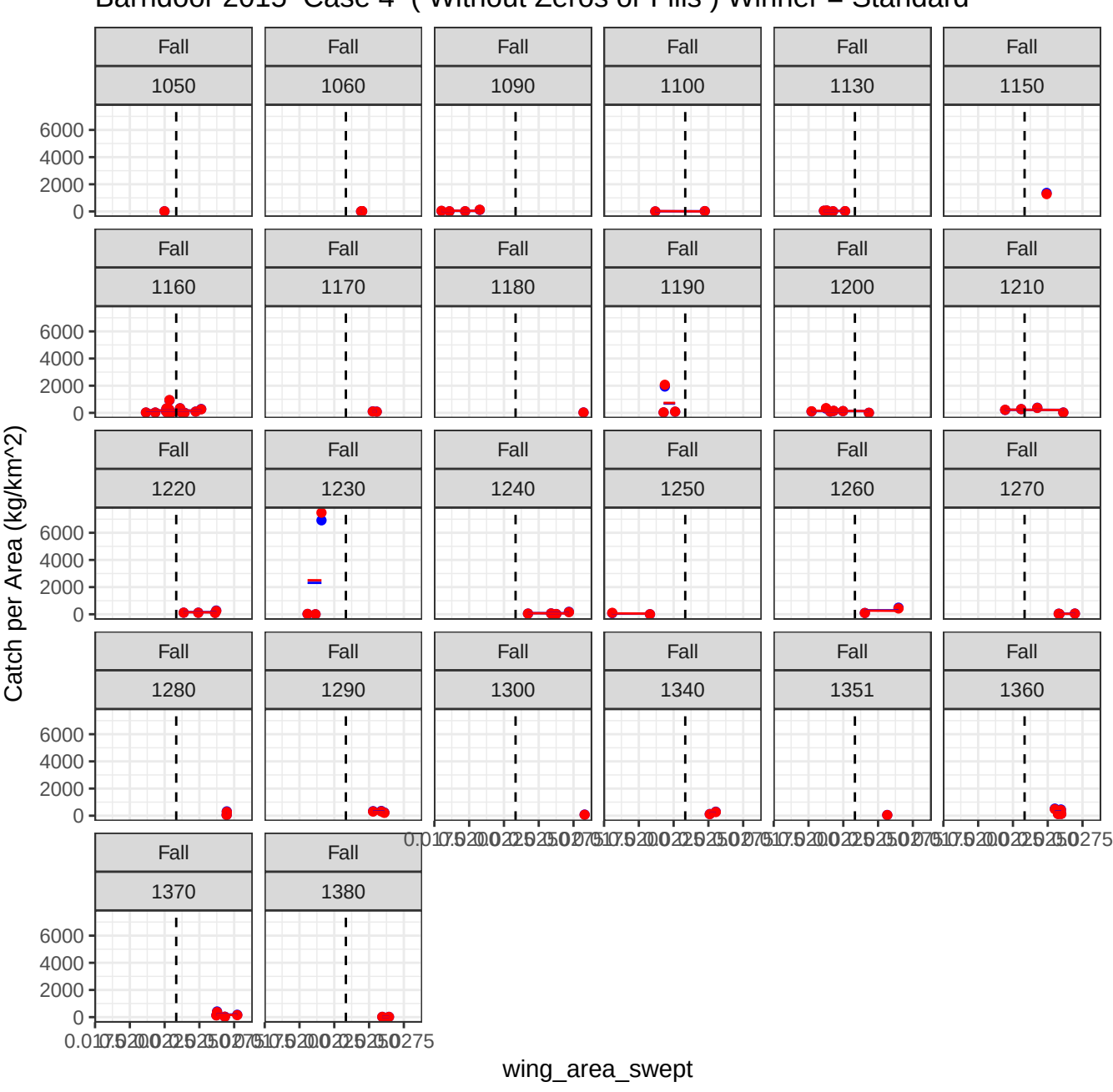

Barndoor 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1020
1050
1060
1090
1100
1130
1140
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1280
1290
1300
1340
1360
1370
1400
Catch per Area (kg/km^2)
0
200
400
600
0.022
0.024
0.026
0.028
wing_area_swept

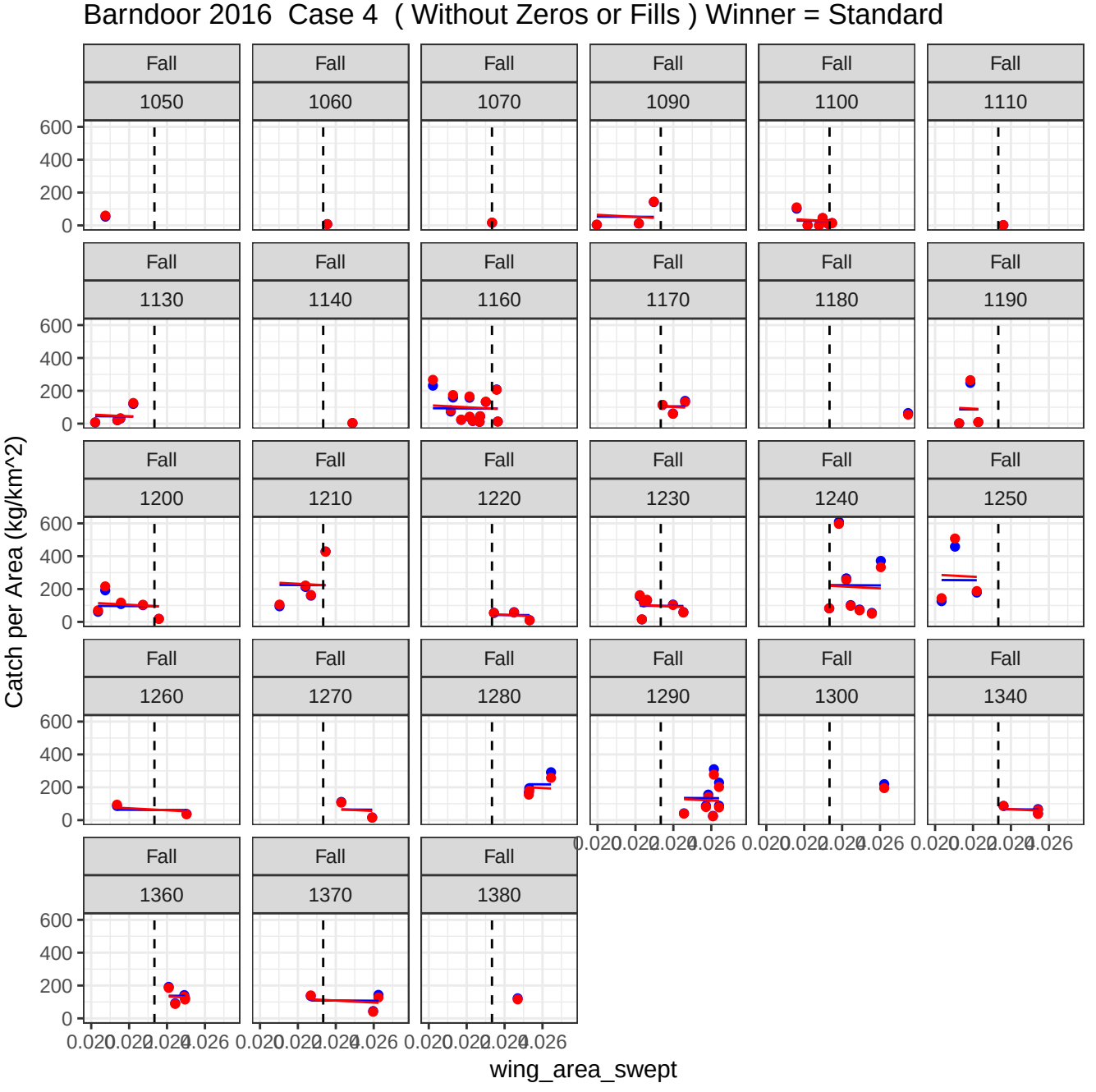

Barndoor 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1020
1040
1060
1080
1090
1100
1130
1140
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1260
1270
1280
1290
1300
1360
1370
1380
0
200
400
600
0.021
1.024
4.027
7.030
Catch per Area (kg/km^2)
wing_area_swept

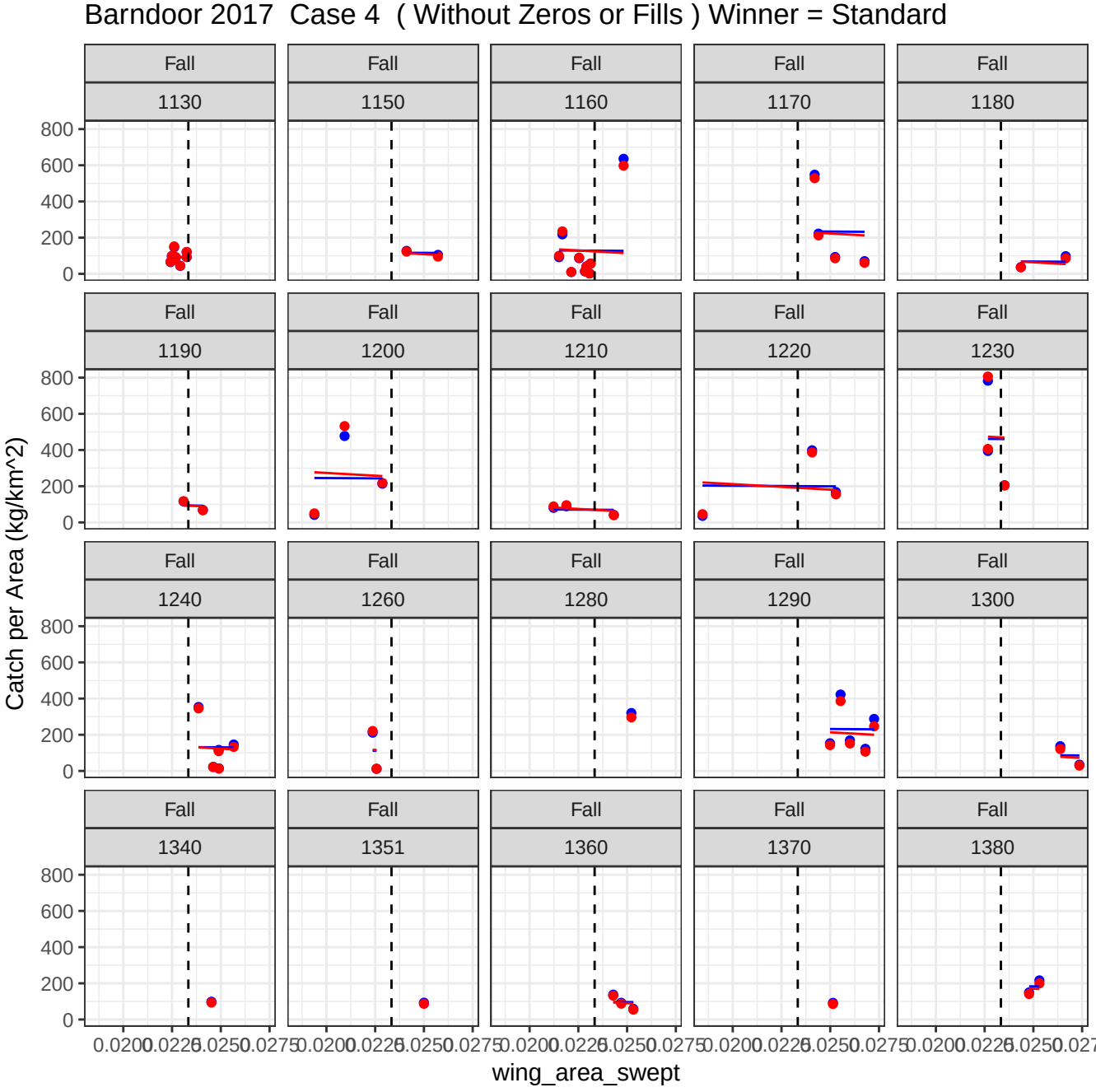

Barndoor 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1050
1060
1080
1090
1100
1110
1120
1130
1140
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1270
1280
1290
1340
1360
1370
1380
1390
1400
2500
2000
1500
1000
500
0
0.016
0.020
0.024
0.028
Catch per Area (kg/km^2)
wing_area_swept

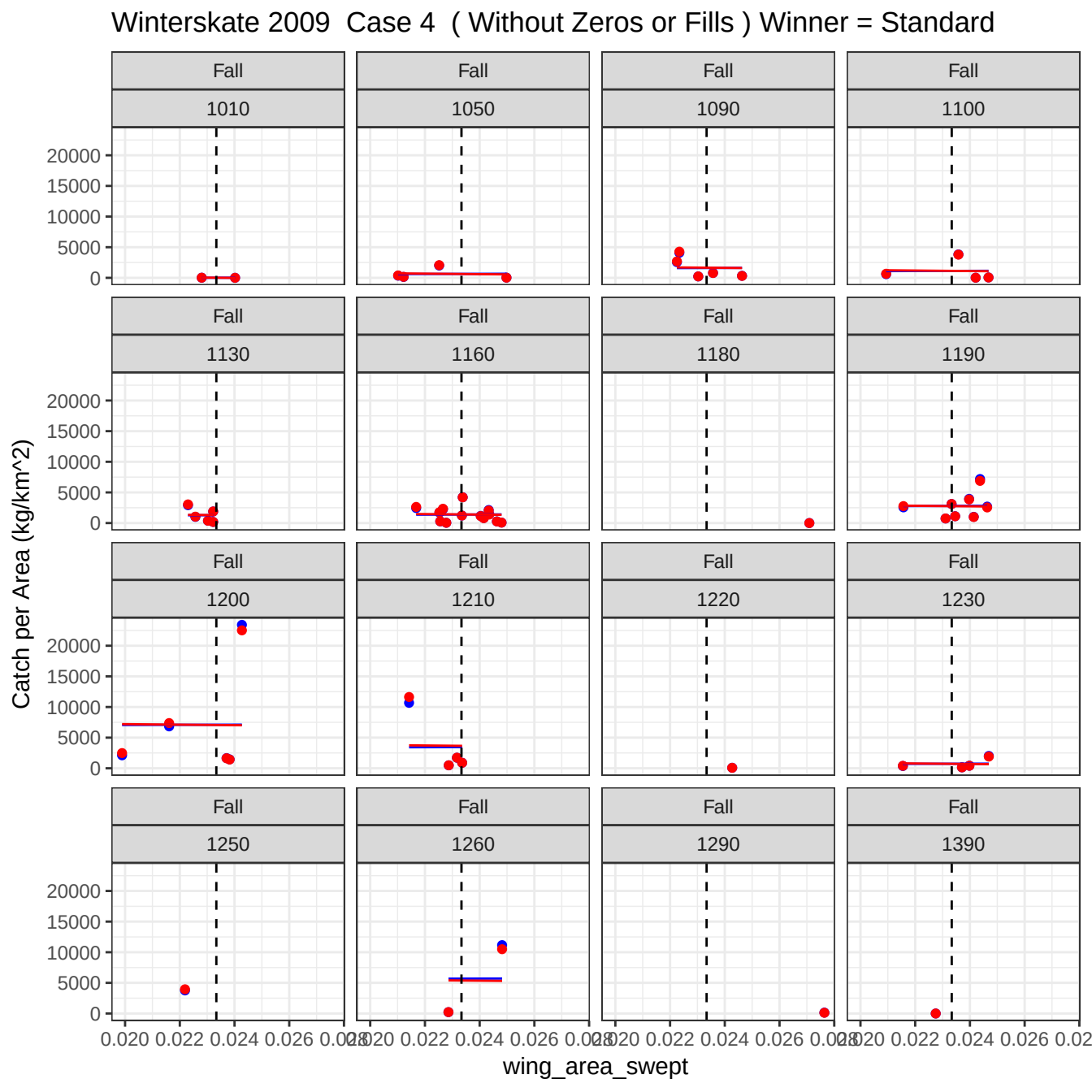

Barndoor 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1060
1090
1100
1120
1130
1140
1150
1160
1170
1190
1210
1220
1230
1240
1270
1280
1290
1300
1360
1370
1380
1400
2000
1500
1000
500
0
0.020
0.022
0.024
0.026
Catch per Area (kg/km^2)
wing_area_swept

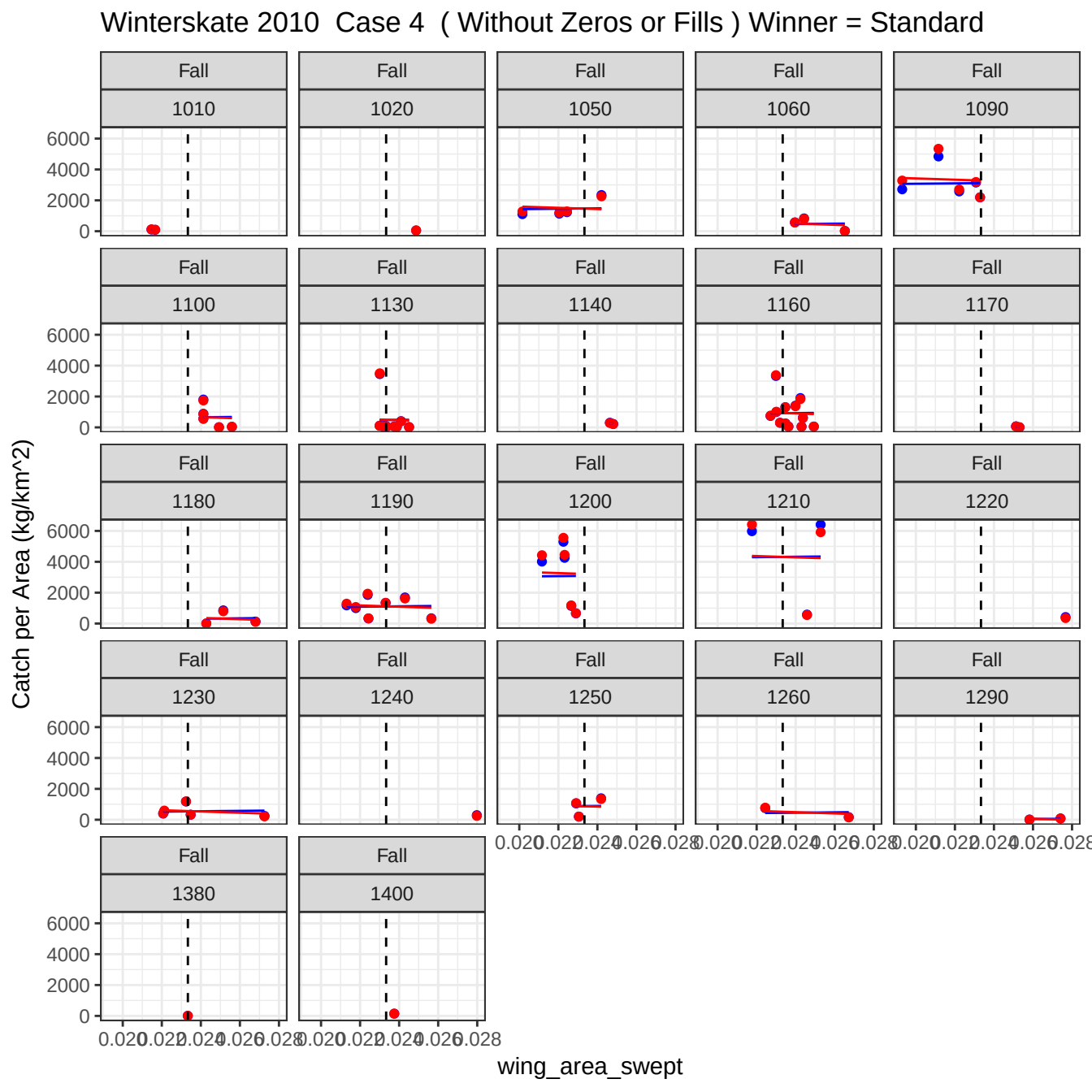

Barndoor 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1040
1050
1060
1070
1090
1100
1130
1140
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1260
1270
1280
1290
1300
1340
1360
1370
1380
4000
2000
0
0.021
0.024
0.027
0.030
Catch per Area (kg/km^2)
wing_area_swept

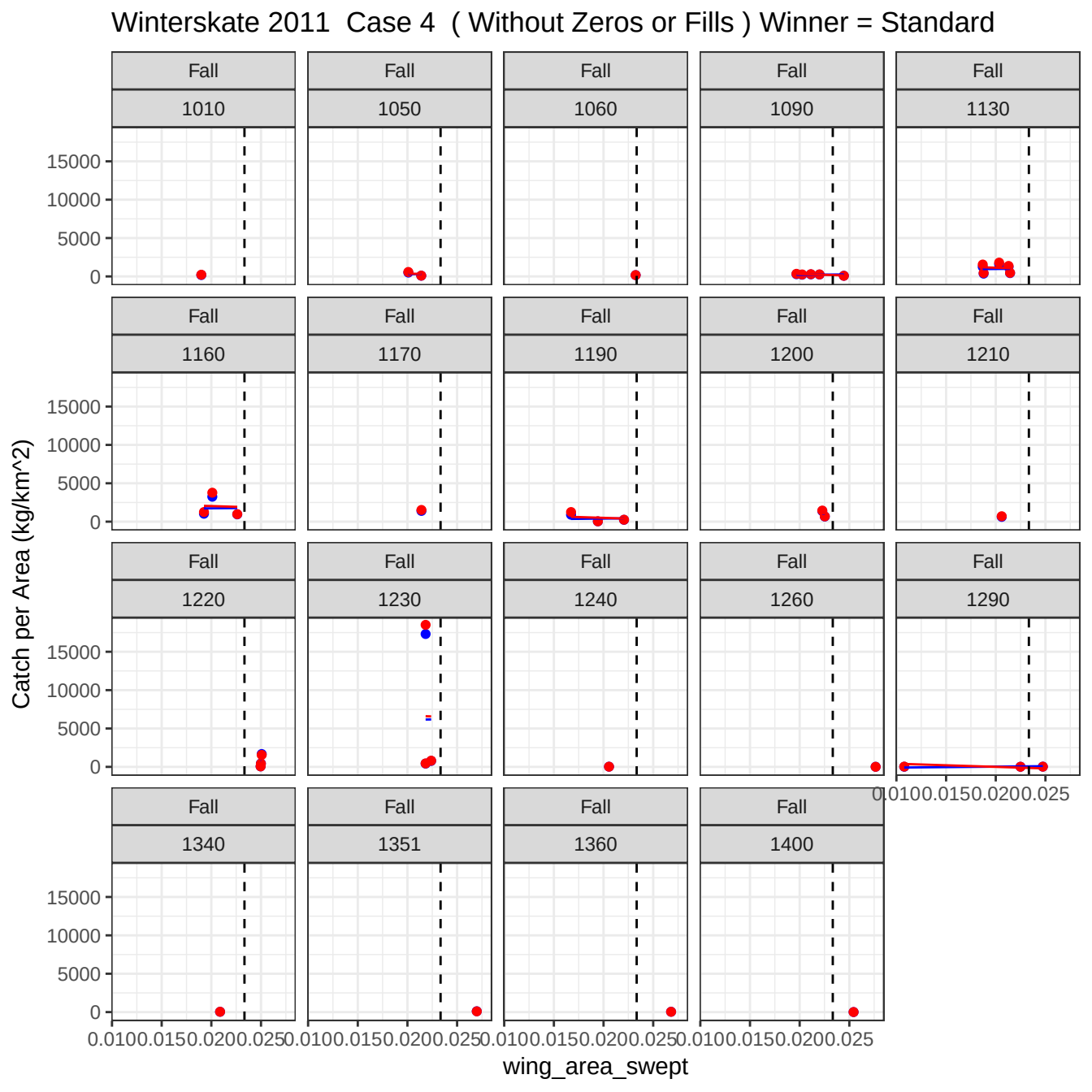

Barndoor 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1050
1060
1090
1100
1130
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1270
1280
1290
1300
1340
1351
1360
1370
1380
6000
4000
2000
0
Catch per Area (kg/km^2)
wing_area_swept

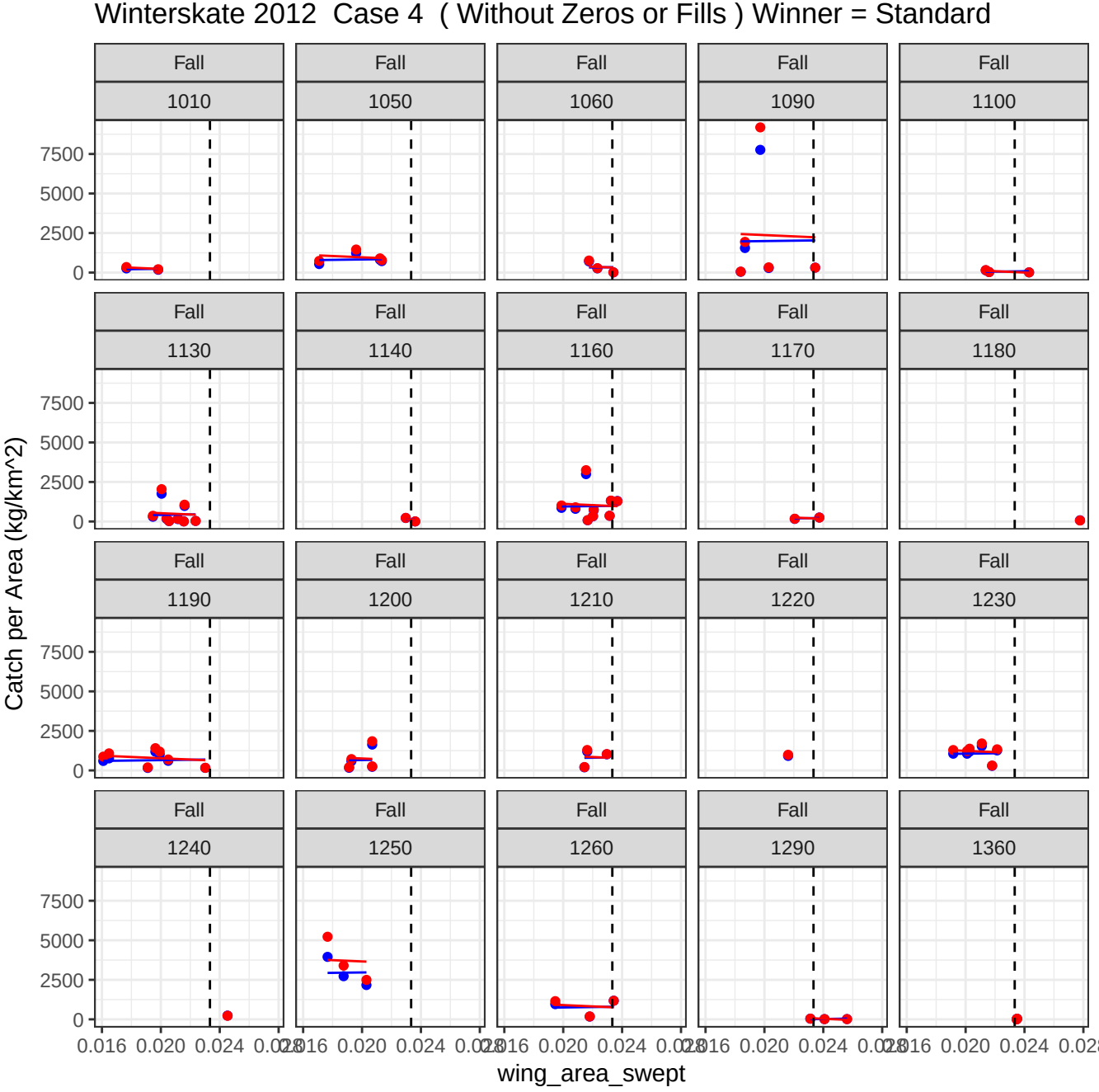

Barndoor 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1050
1060
1070
1090
1100
1110
1130
1140
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1270
1280
1290
1300
1340
1360
1370
1380
0
200
400
600
0.020
0.022
0.024
0.026
Catch per Area (kg/km^2)
wing_area_swept

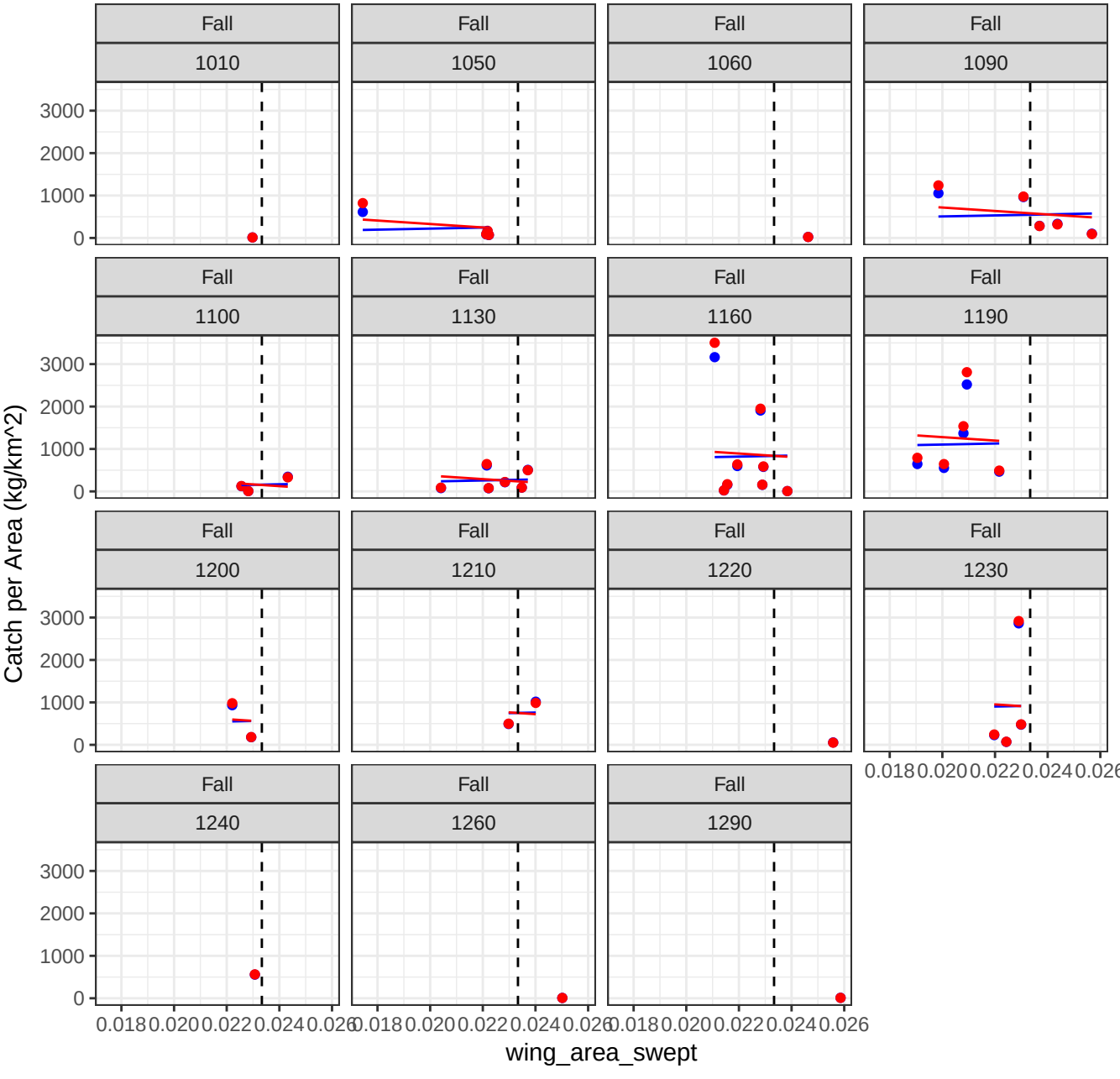

Barndoor 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1130
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1260
1280
1290
1300
1340
1351
1360
1370
1380
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
800
0.0200
0.0225
0.0250
0.0275

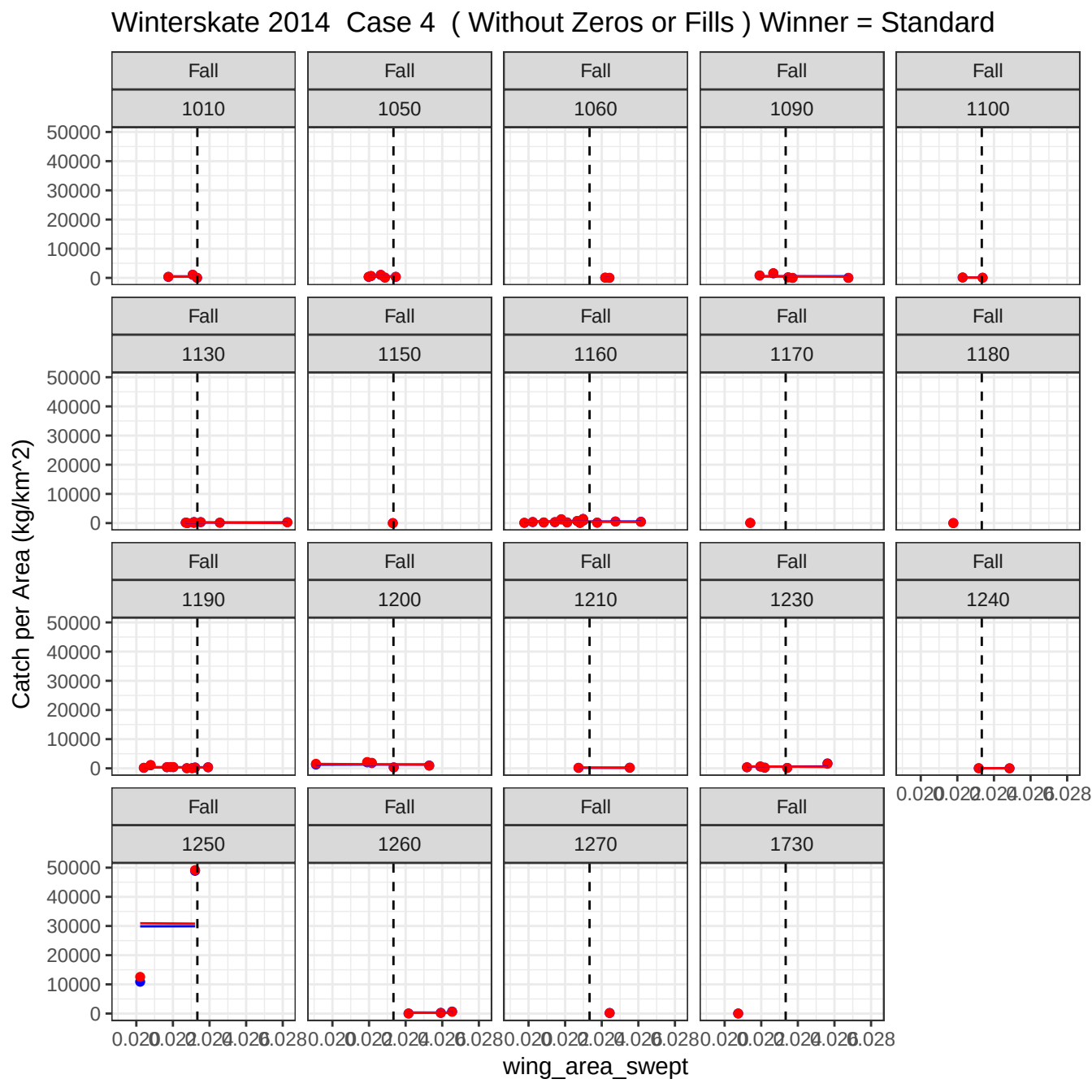

Winterskate 2009 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1050
1090
1100
1130
1160
1180
1190
1200
1210
1220
1230
1250
1260
1290
1390
Catch per Area (kg/km^2)
wing_area_swept
0
5000
10000
15000
20000
0.020
0.022
0.024
0.026

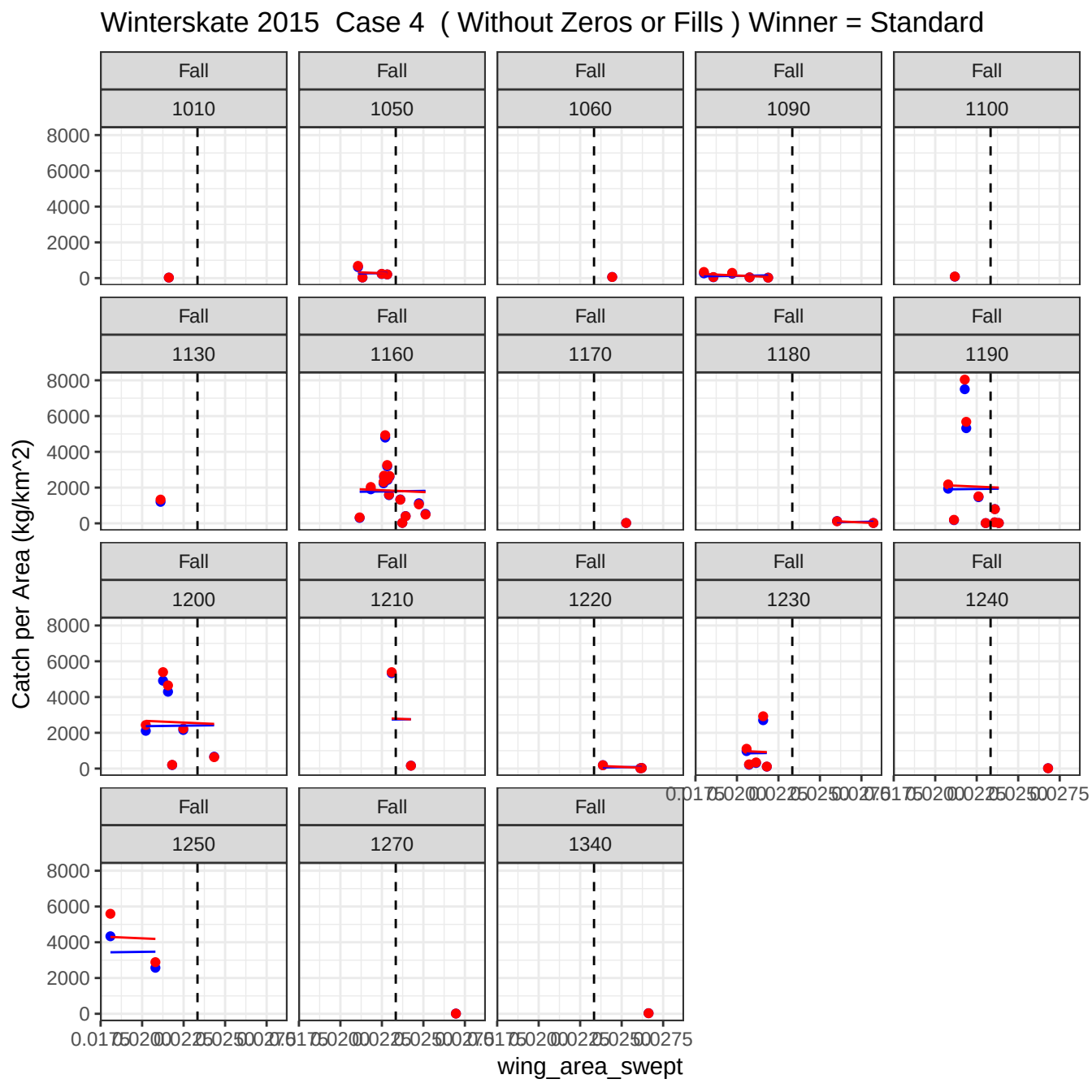

Winterskate 2010 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1020
1050
1060
1090
1100
1130
1140
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1290
1380
1400
6000
4000
2000
0
0.020
0.022
0.024
0.026
0.028
Catch per Area (kg/km^2)
wing_area_swept

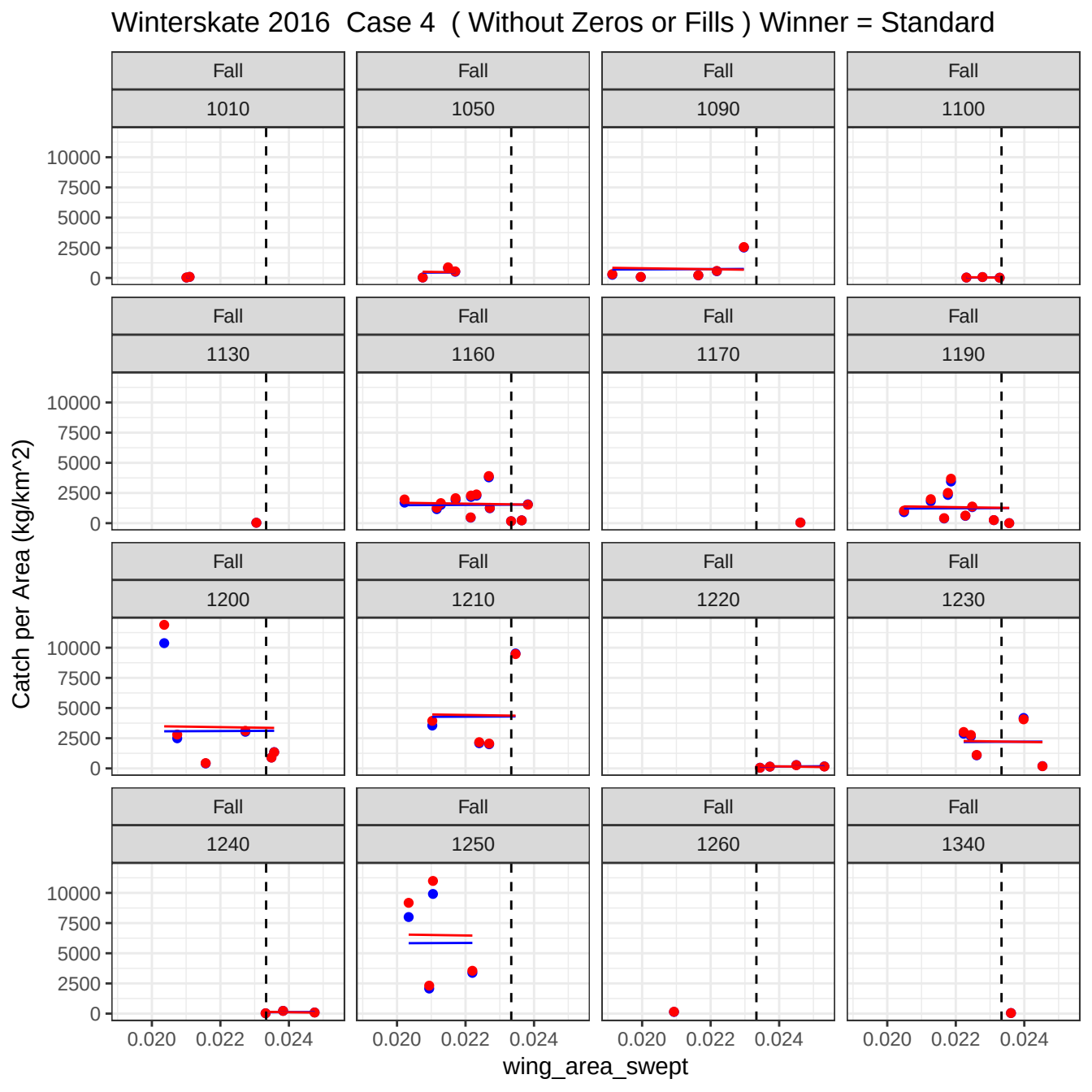

Winterskate 2011 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1050
1060
1090
1130
1160
1170
1190
1200
1210
1220
1230
1240
1260
1290
1340
1351
1360
1400
15000
10000
5000
0
0.010
0.015
0.020
0.025
Catch per Area (kg/km^2)
wing_area_swept

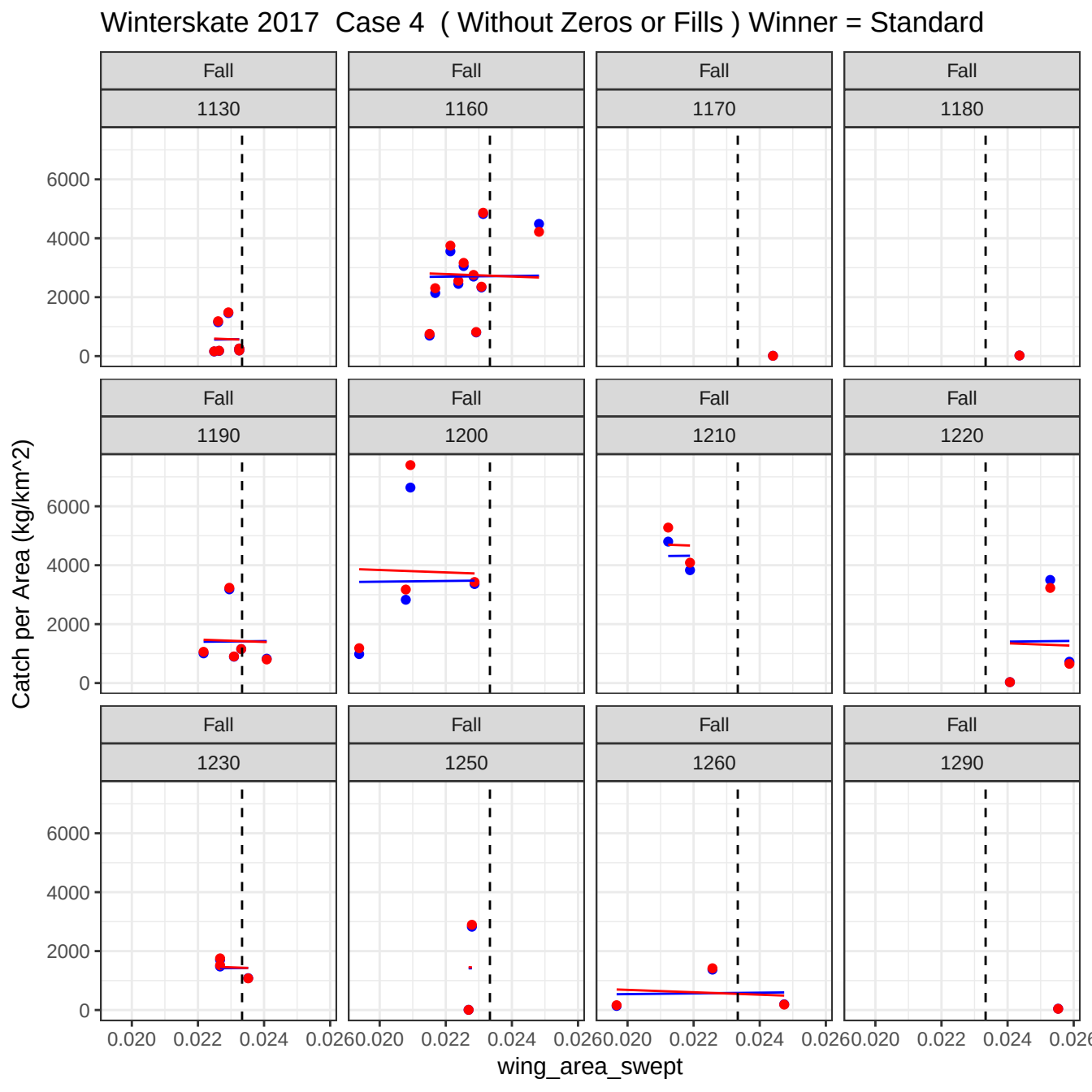

Winterskate 2012 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1050
1060
1090
1100
1130
1140
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1290
1360
Catch per Area (kg/km^2)
wing_area_swept
0
2500
5000
7500
0.016
0.020
0.024
0.028

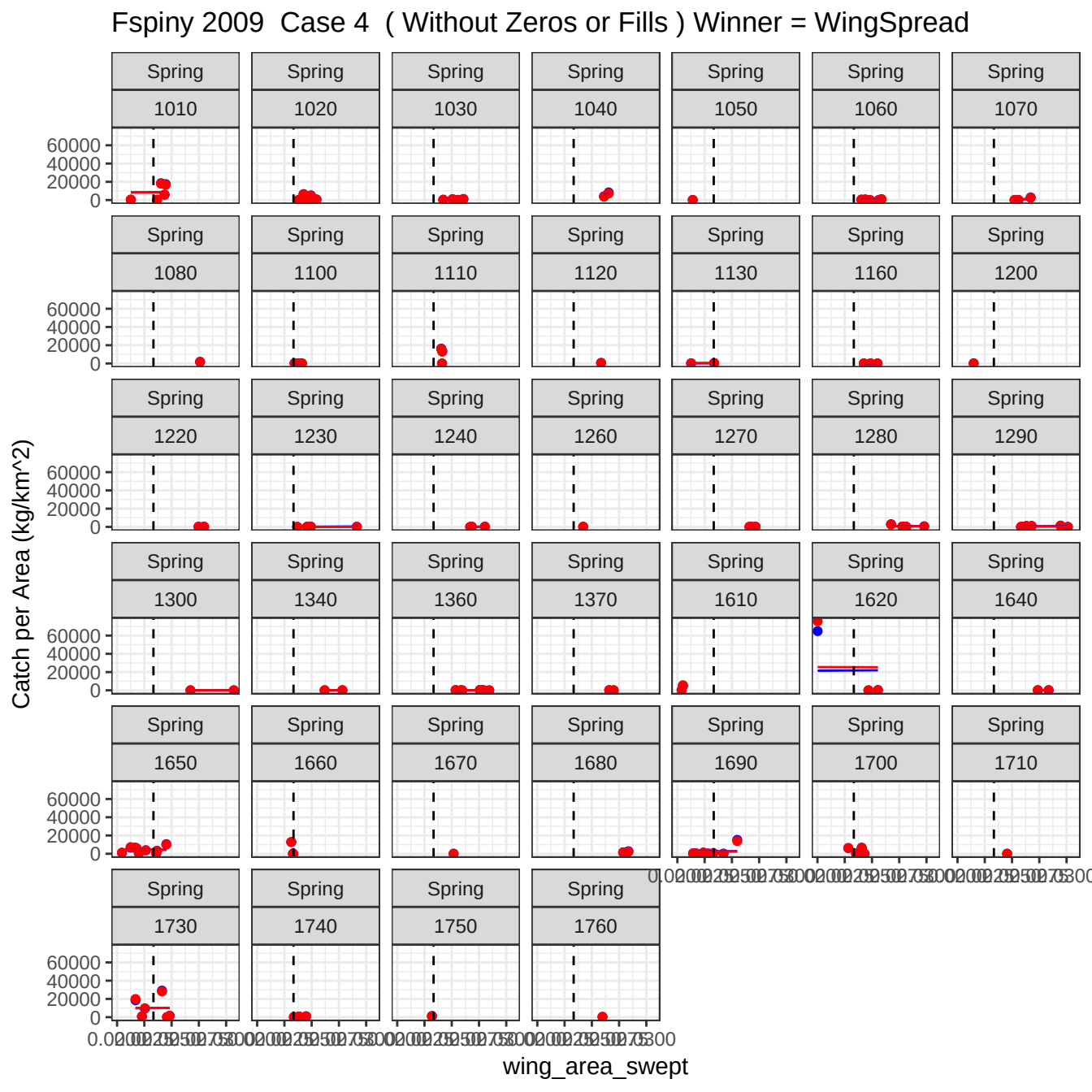

Winterskate 2013 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1050
1060
1090
1100
1130
1160
1190
1200
1210
1220
1230
1240
1260
1290
Catch per Area (kg/km^2)
wing_area_swept
0
1000
2000
3000
0.018
0.020
0.022
0.024
0.026

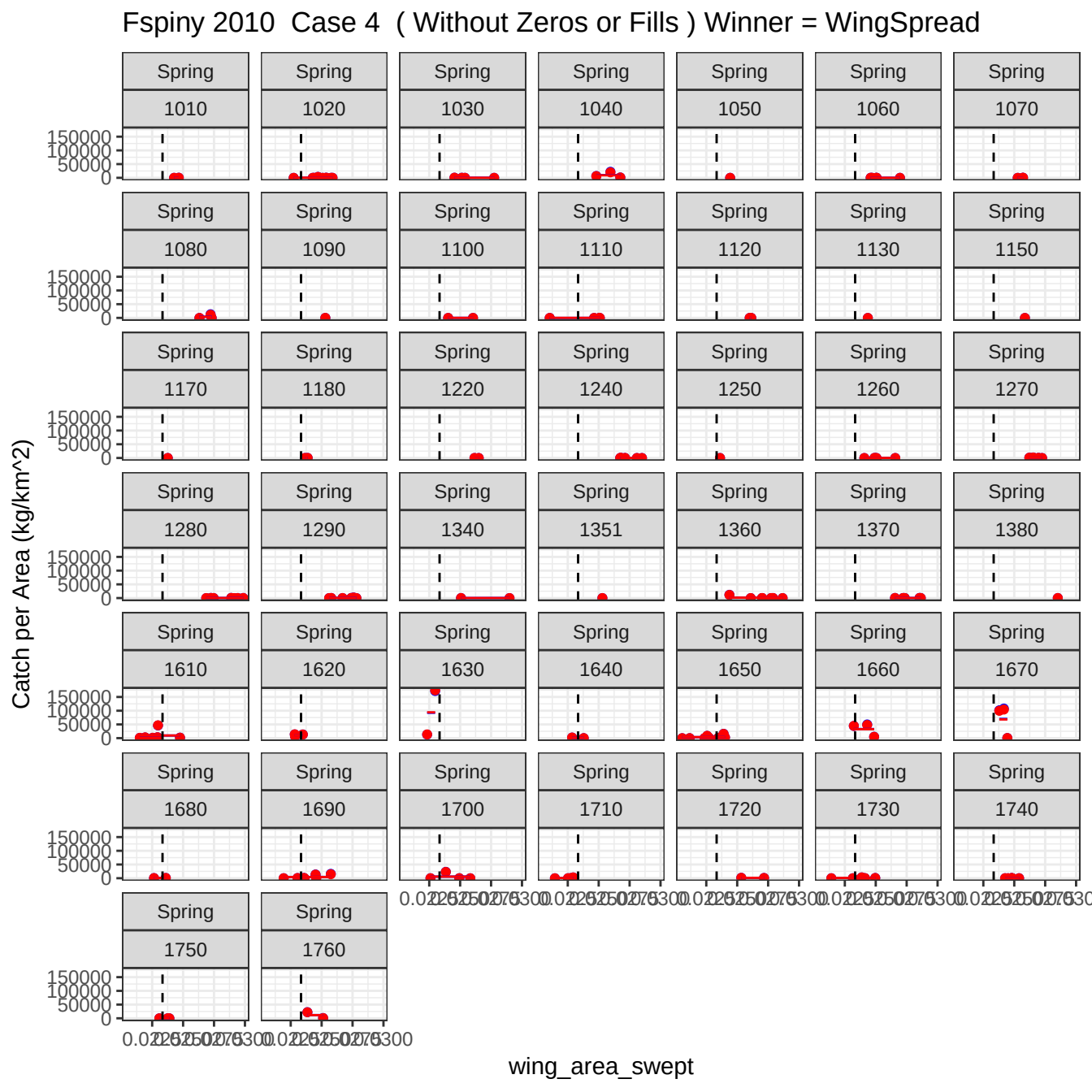

Winterskate 2014 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1050
1060
1090
1100
1130
1150
1160
1170
1180
1190
1200
1210
1230
1240
1250
1260
1270
1730
Catch per Area (kg/km^2)
wing_area_swept

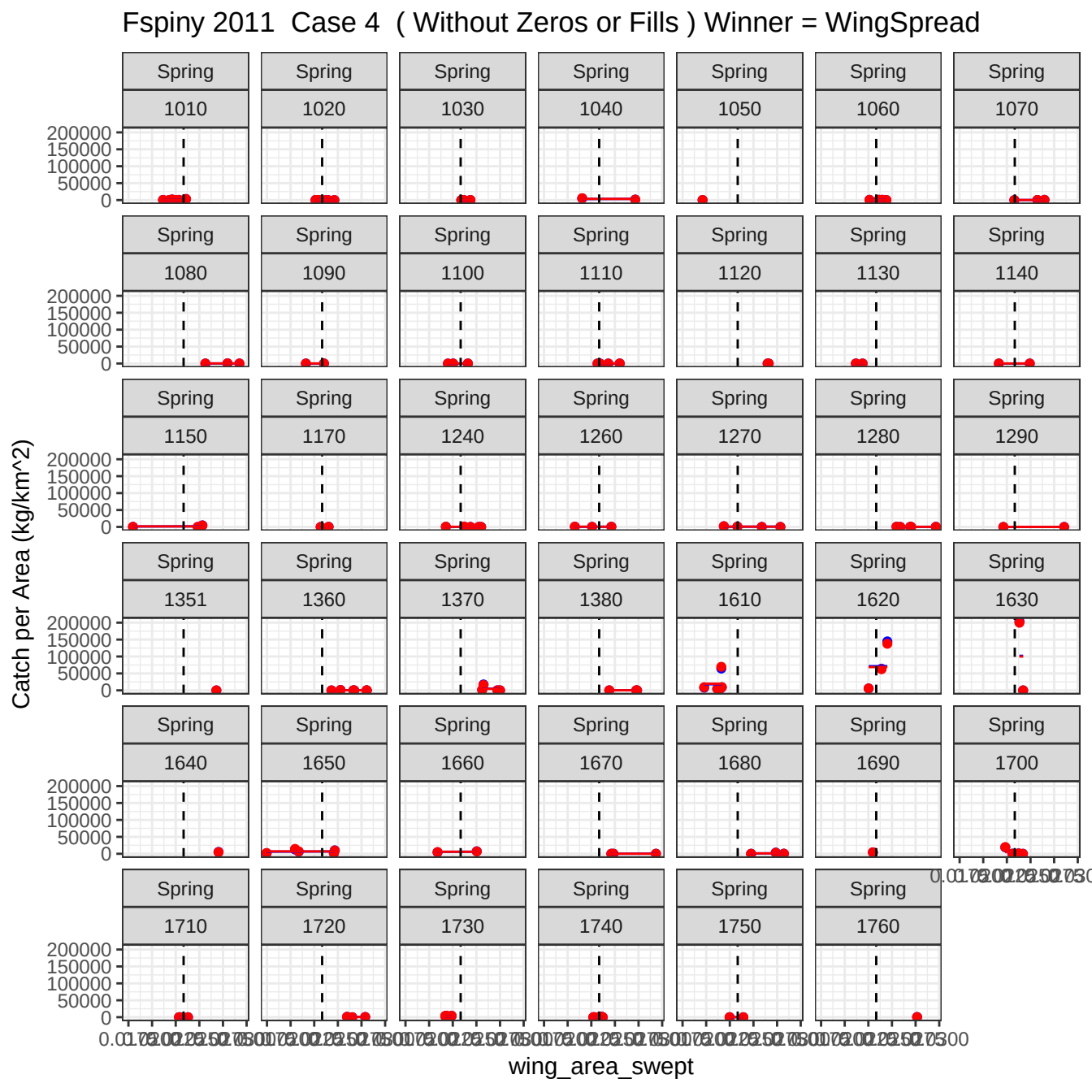

Winterskate 2015 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1050
1060
1090
1100
1130
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1270
1340
Catch per Area (kg/km^2)
wing_area_swept

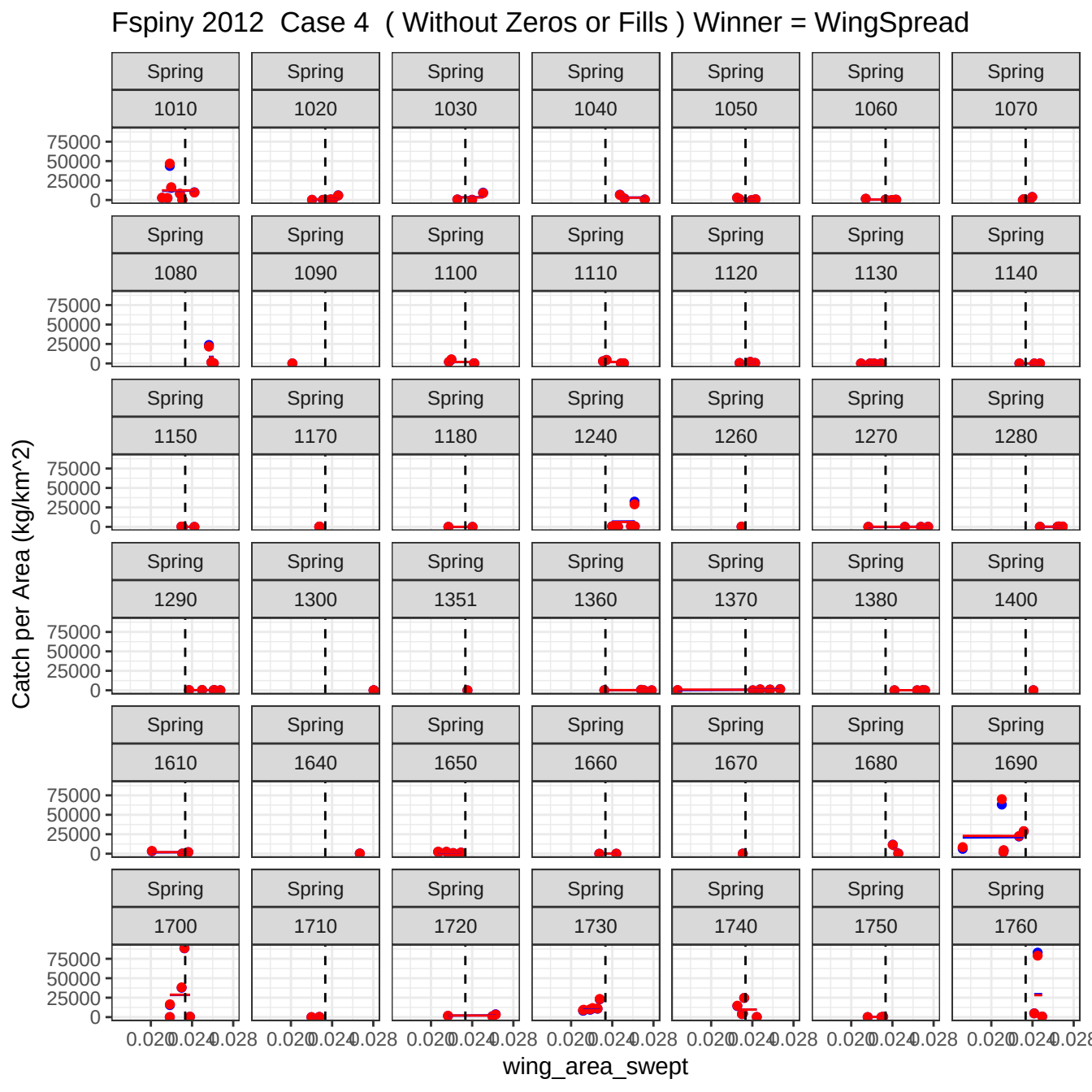

Winterskate 2016 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1010
1050
1090
1100
1130
1160
1170
1190
1200
1210
1220
1230
1240
1250
1260
1340
Catch per Area (kg/km^2)
wing_area_swept
0
2500
5000
7500
10000
0.020
0.022
0.024

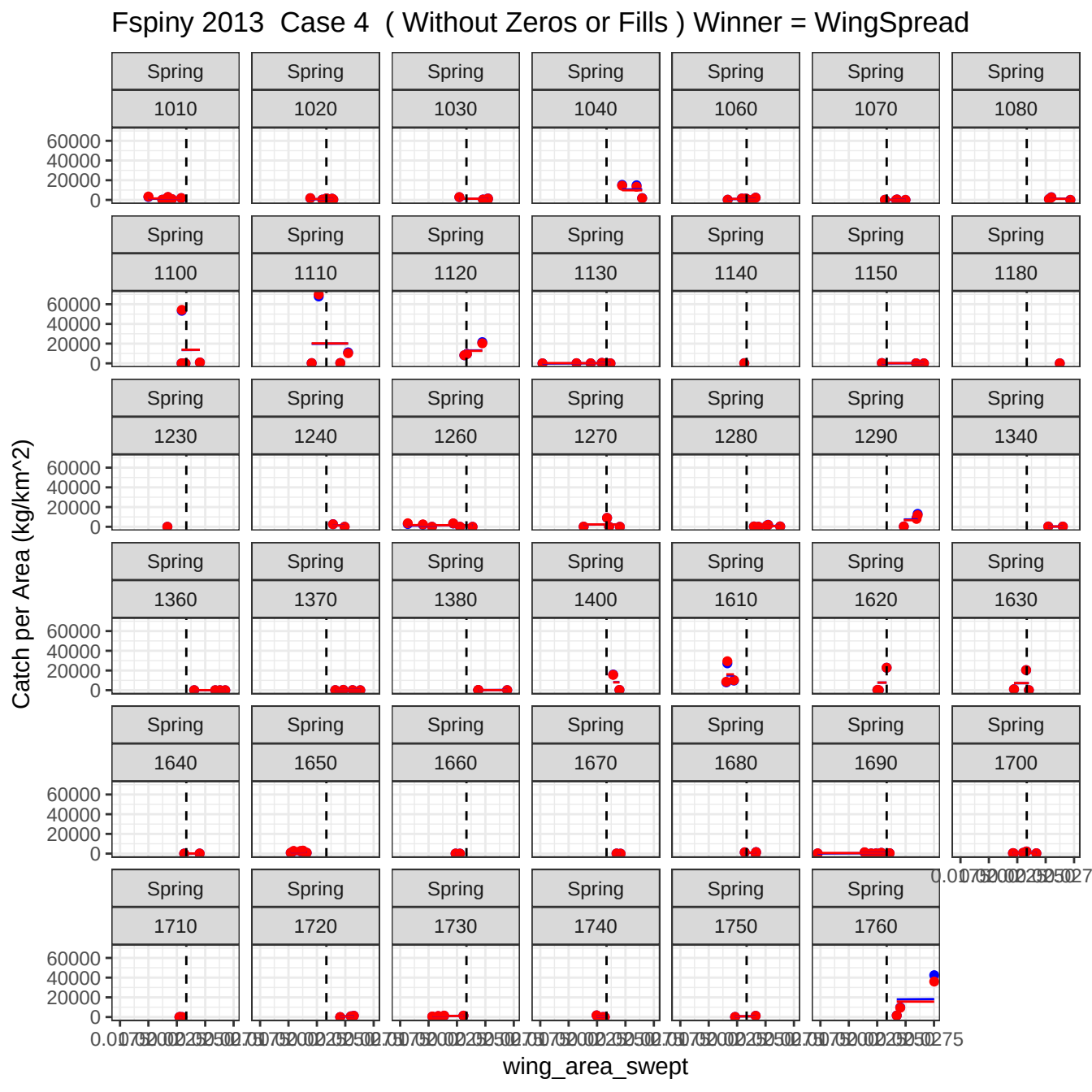

Winterskate 2017 Case 4 (Without Zeros or Fills) Winner = Standard
Fall
1130
1160
1170
1180
1190
1200
1210
1220
1230
1250
1260
1290
Catch per Area (kg/km^2)
0
2000
4000
6000
0.020
0.022
0.024
0.026
wing_area_swept

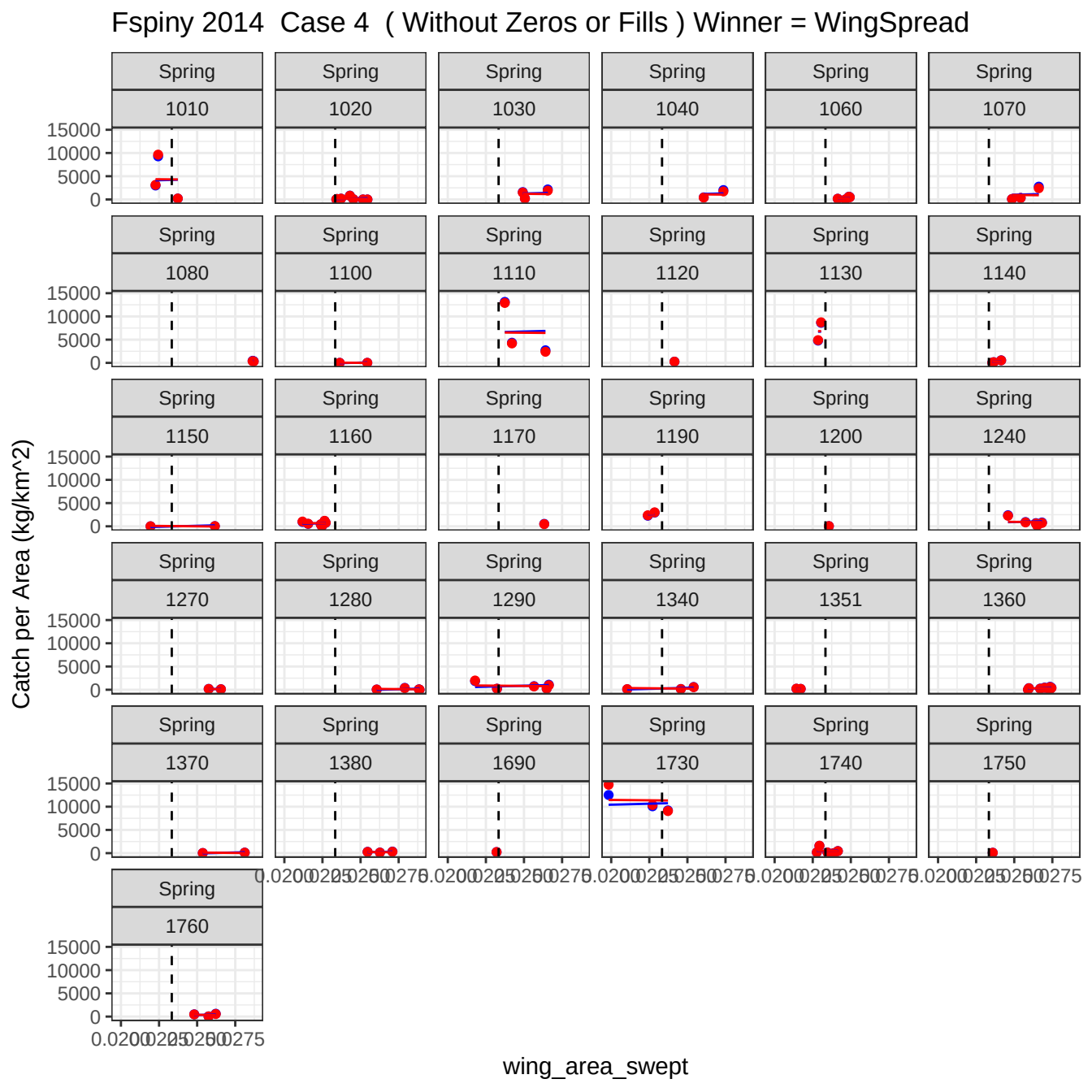

Fspiny 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1100
1110
1120
1130
1160
1200
1220
1230
1240
1260
1270
1280
1290
1300
1340
1360
1370
1610
1620
1640
1650
1660
1670
1680
1690
1700
1710
1730
1740
1750
1760
60000
40000
20000
0
Catch per Area (kg/km^2)
wing_area_swept

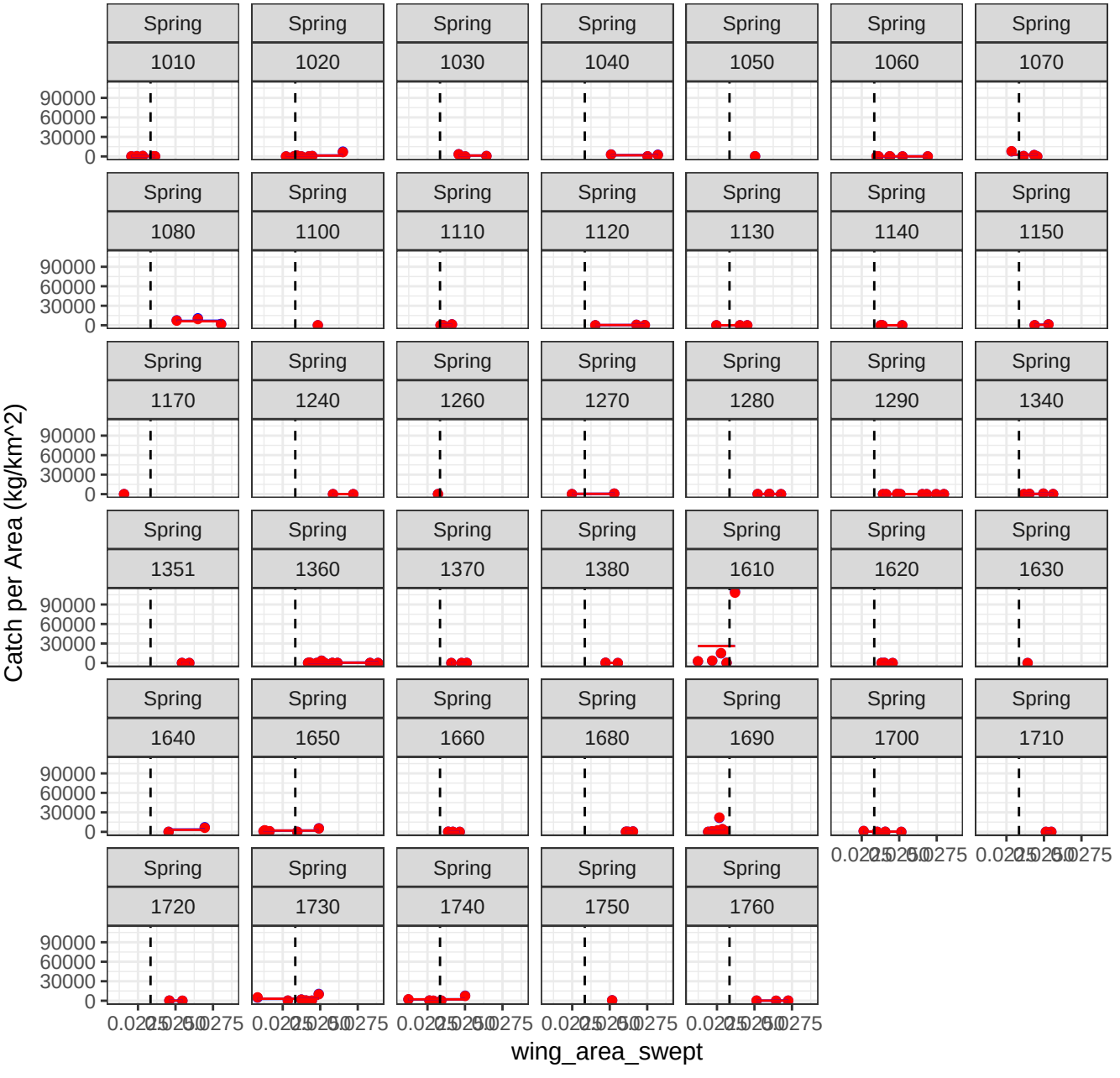

Fspiny 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1090
1100
1110
1120
1130
1150
1170
1180
1220
1240
1250
1260
1270
1280
1290
1340
1351
1360
1370
1380
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
150000
100000
50000
0
Catch per Area (kg/km^2)
wing_area_swept

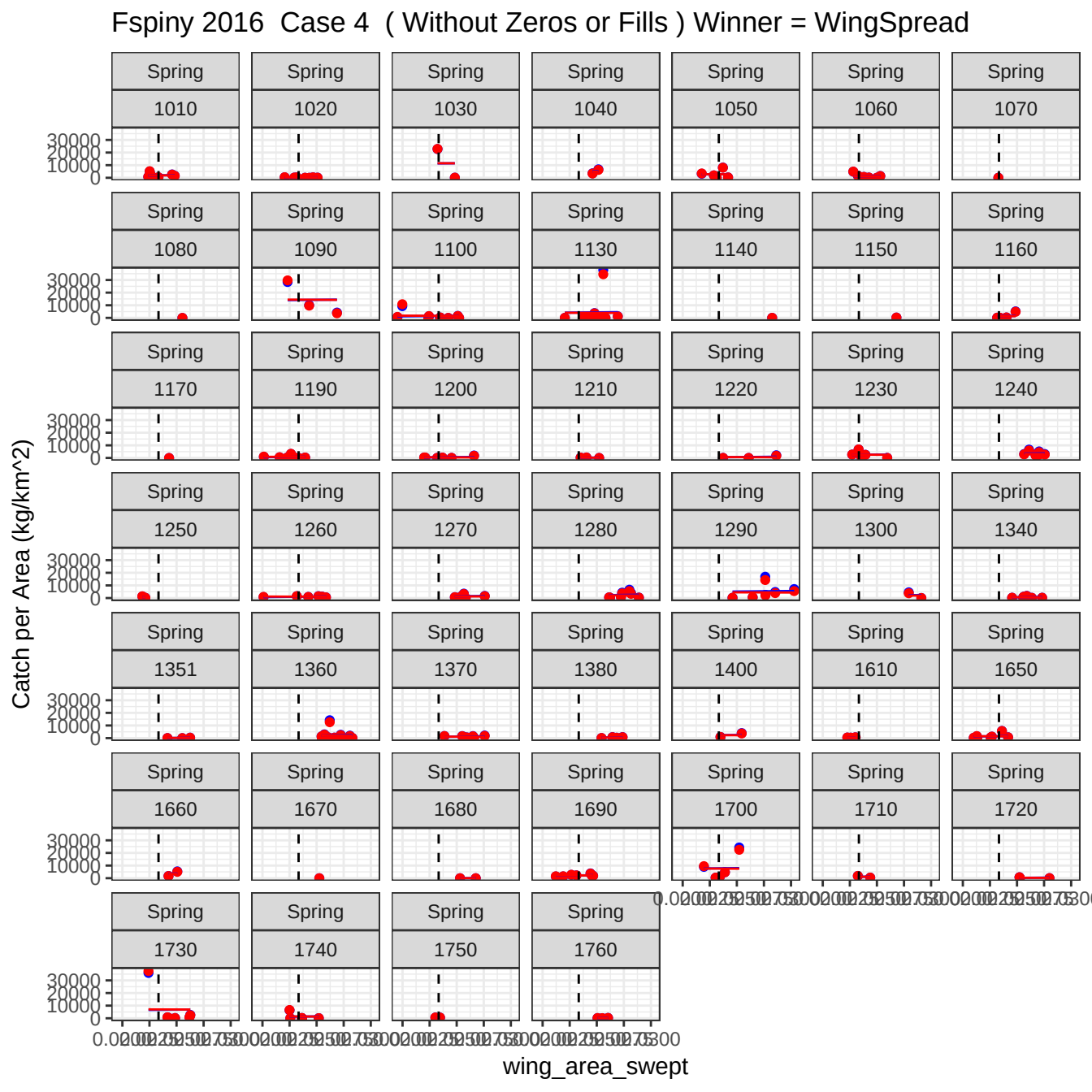

Fspiny 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1090
1100
1110
1120
1130
1140
1150
1170
1240
1260
1270
1280
1290
1351
1360
1370
1380
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
200000
150000
100000
50000
0
Catch per Area (kg/km^2)
wing_area_swept


Fspiny 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1090
1100
1110
1120
1130
1140
1150
1170
1180
1240
1260
1270
1280
1290
1300
1351
1360
1370
1380
1400
1610
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
75000
50000
25000
0
0.020
0.024
0.028
Catch per Area (kg/km^2)
wing_area_swept


Fspiny 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1060
1070
1080
1100
1110
1120
1130
1140
1150
1180
1230
1240
1260
1270
1280
1290
1340
1360
1370
1380
1400
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
60000
40000
20000
0
Catch per Area (kg/km^2)
wing_area_swept


Fspiny 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1060
1070
1080
1100
1110
1120
1130
1140
1150
1160
1170
1190
1200
1240
1270
1280
1290
1340
1351
1360
1370
1380
1690
1730
1740
1750
1760
15000
10000
5000
0
0.020
0.025
0.030
0.035
Catch per Area (kg/km^2)
wing_area_swept


Fspiny 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1100
1110
1120
1130
1140
1150
1170
1240
1260
1270
1280
1290
1340
1351
1360
1370
1380
1610
1620
1630
1640
1650
1660
1680
1690
1700
1710
1720
1730
1740
1750
1760
90000
60000
30000
0
0.025
0.050
0.075
Catch per Area (kg/km^2)
wing_area_swept


Fspiny 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
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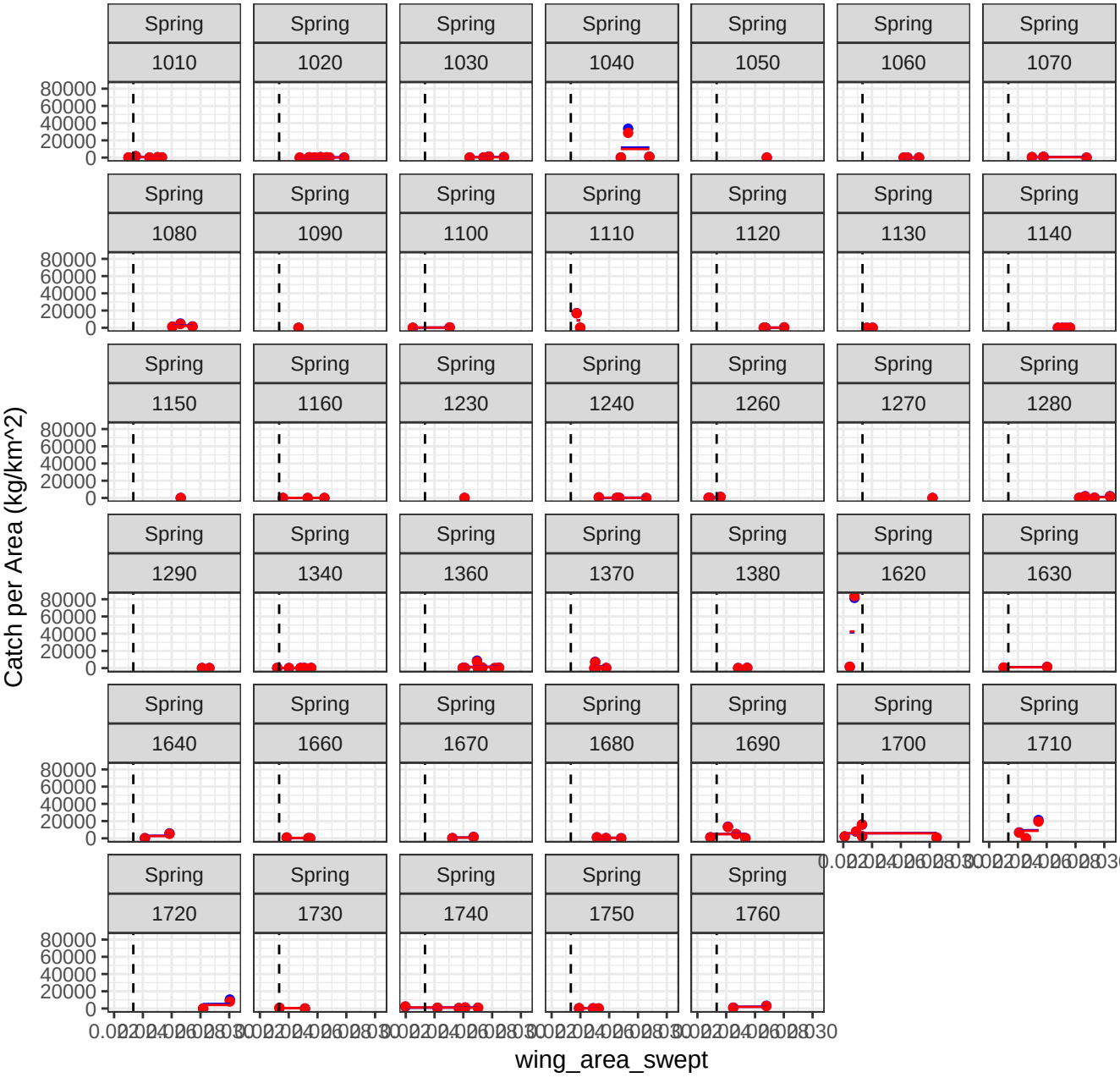
1050
1060
1070
1080
1090
1100
1130
1140
1150
1160
1170
1190
1200
1210
1220
1230
1240
1250
1260
1270
1280
1290
1300
1340
1351
1360
1370
1380
1400
1610
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
30000
20000
10000
0
Catch per Area (kg/km^2)
wing_area_swept


Fspiny 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
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1040
1050
1060
1070
1080
1090
1100
1110
1120
1130
1140
1150
1160
1230
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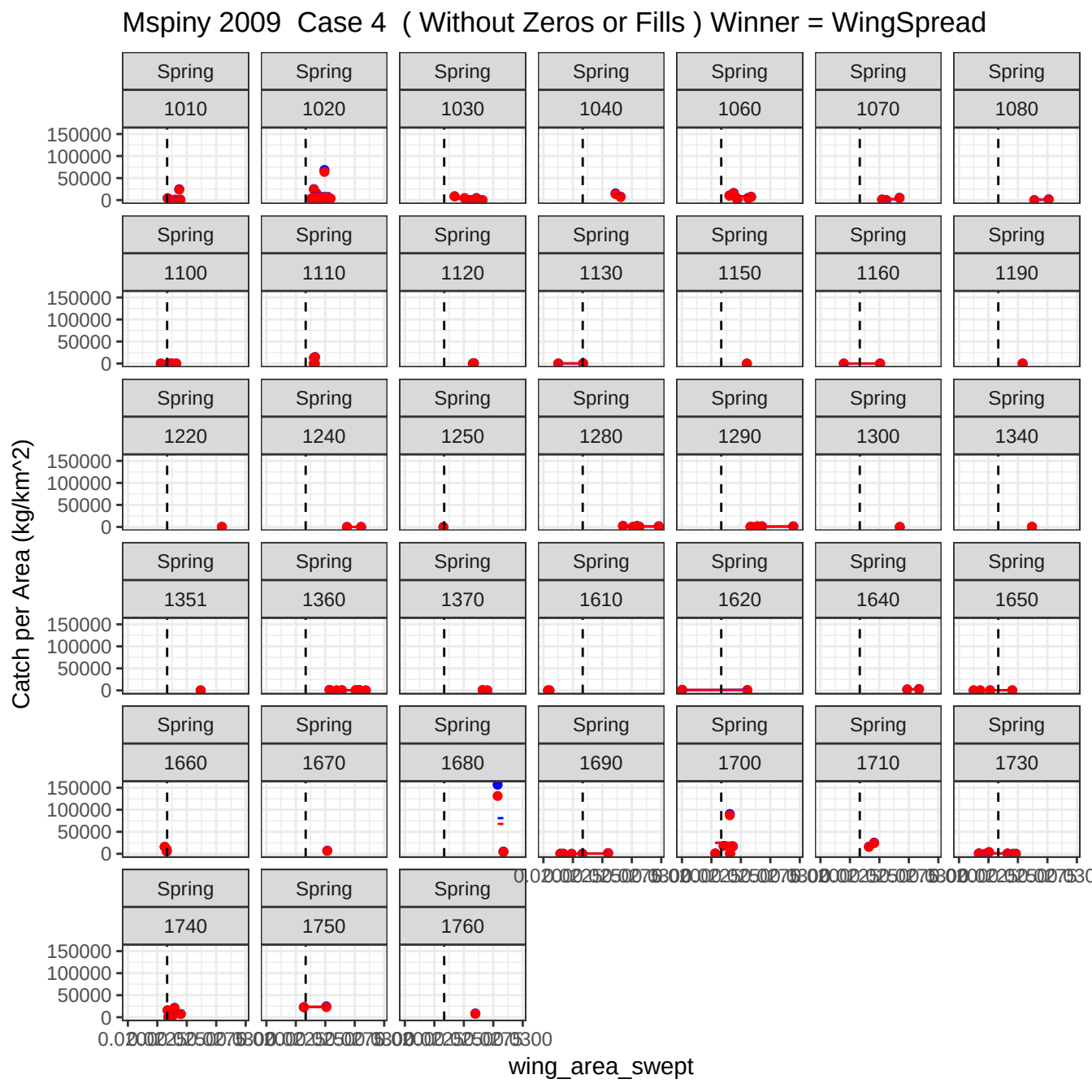
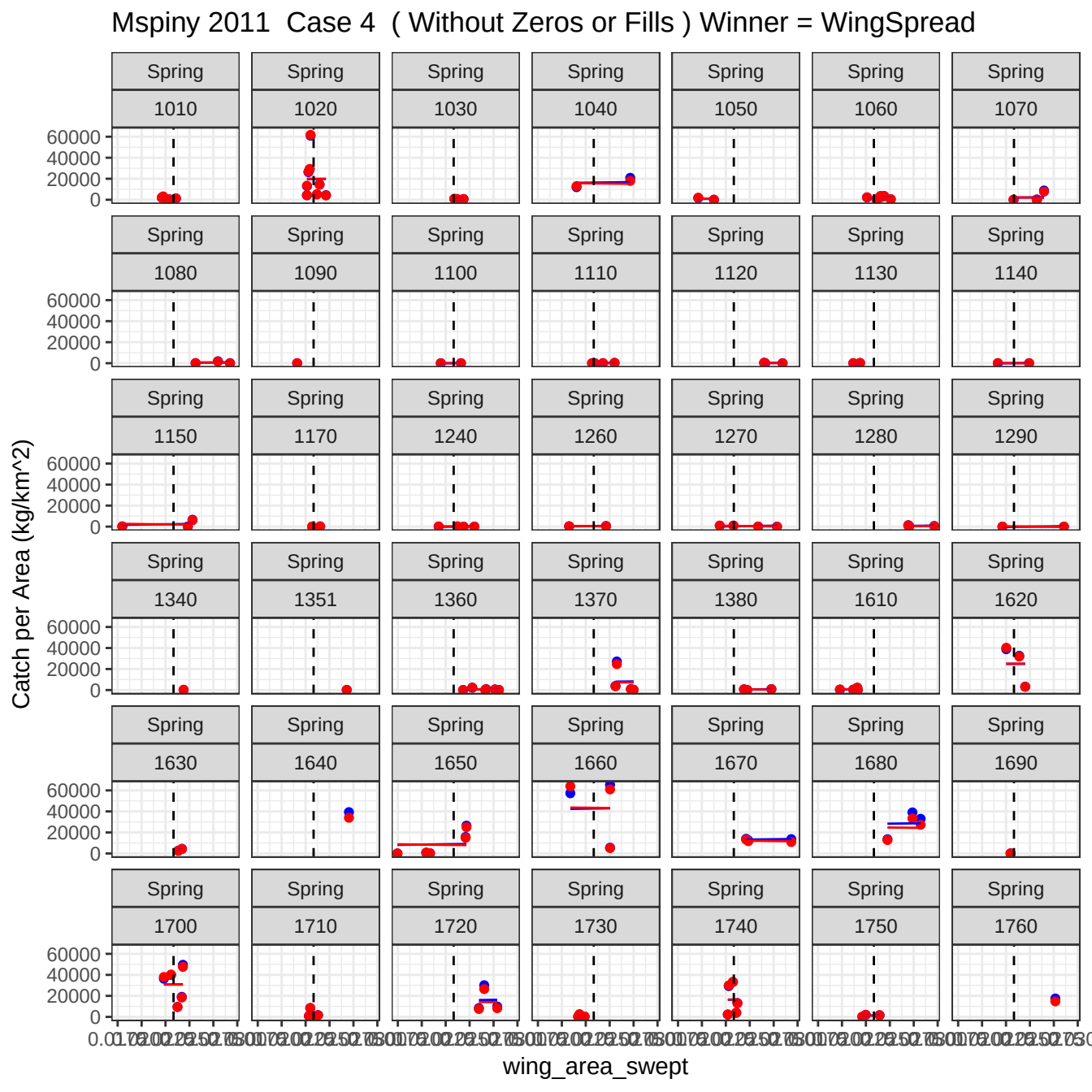
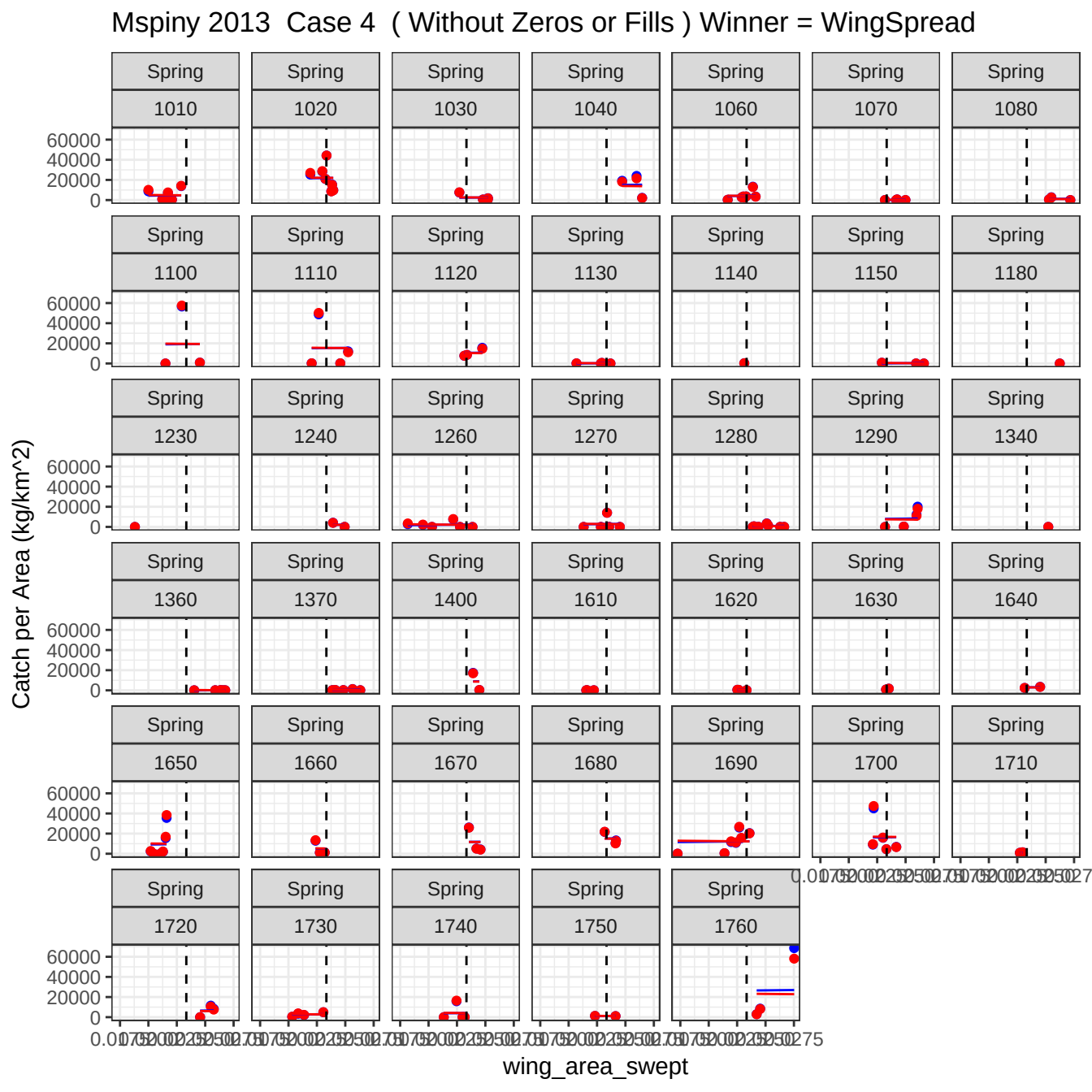
1380
1620
1630
1640
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
80000
60000
40000
20000
0
0.02
0.24
0.26
0.28
0.30
Catch per Area (kg/km^2)
wing_area_swept

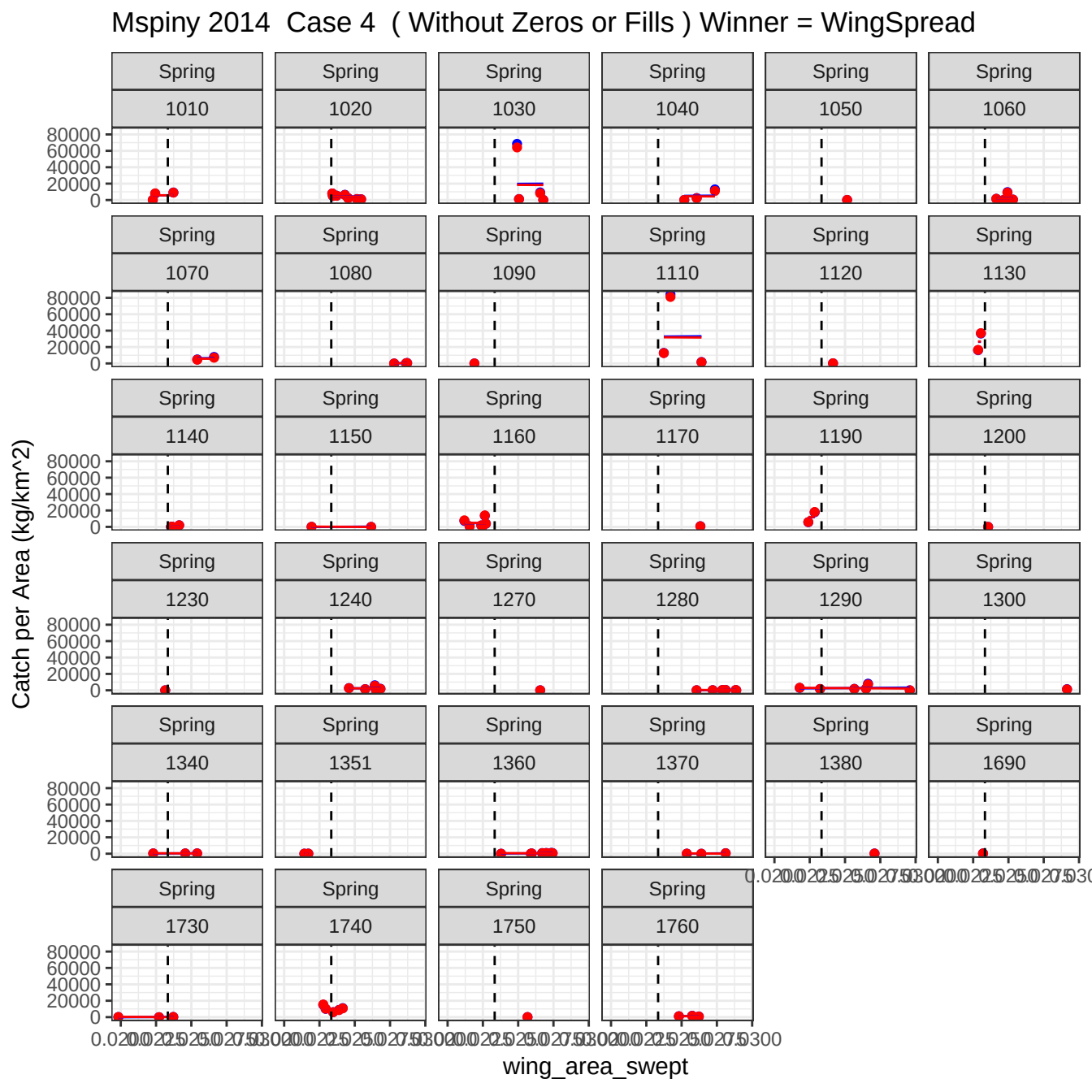

Mspiny 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1060
1070
1080
1100
1110
1120
1130
1150
1160
1190
1220
1240
1250
1280
1290
1300
1340
1351
1360
1370
1610
1620
1640
1650
1660
1670
1680
1690
1700
1710
1730
1740
1750
1760
150000
100000
50000
0
Catch per Area (kg/km^2)
wing_area_swept

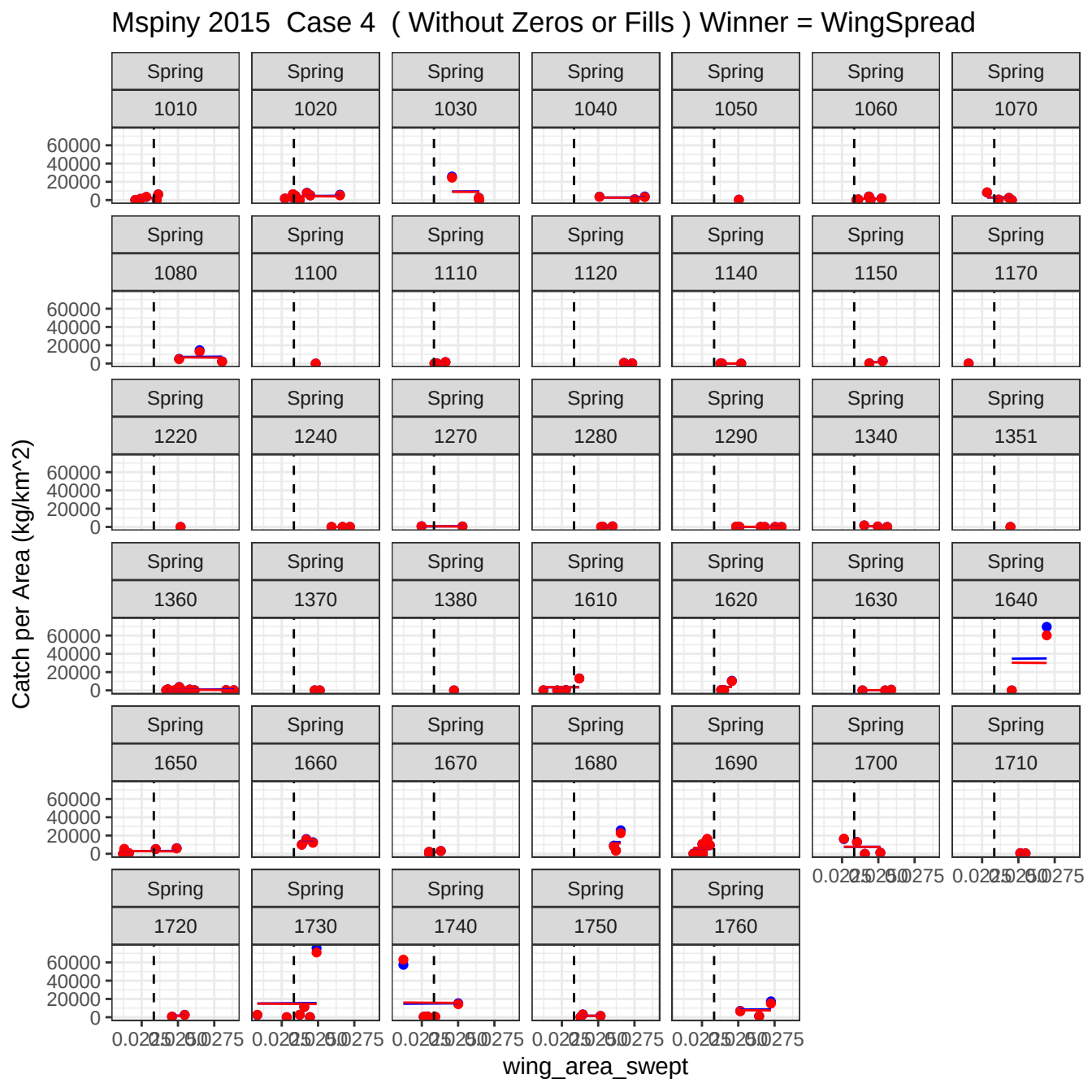
Mspiny 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1060
1070
1080
1090
1100
1110
1120
1150
1180
1200
1220
1240
1260
1270
1280
1290
1300
1340
1360
1370
1380
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
150000
100000
50000
0
Catch per Area (kg/km^2)
wing_area_swept

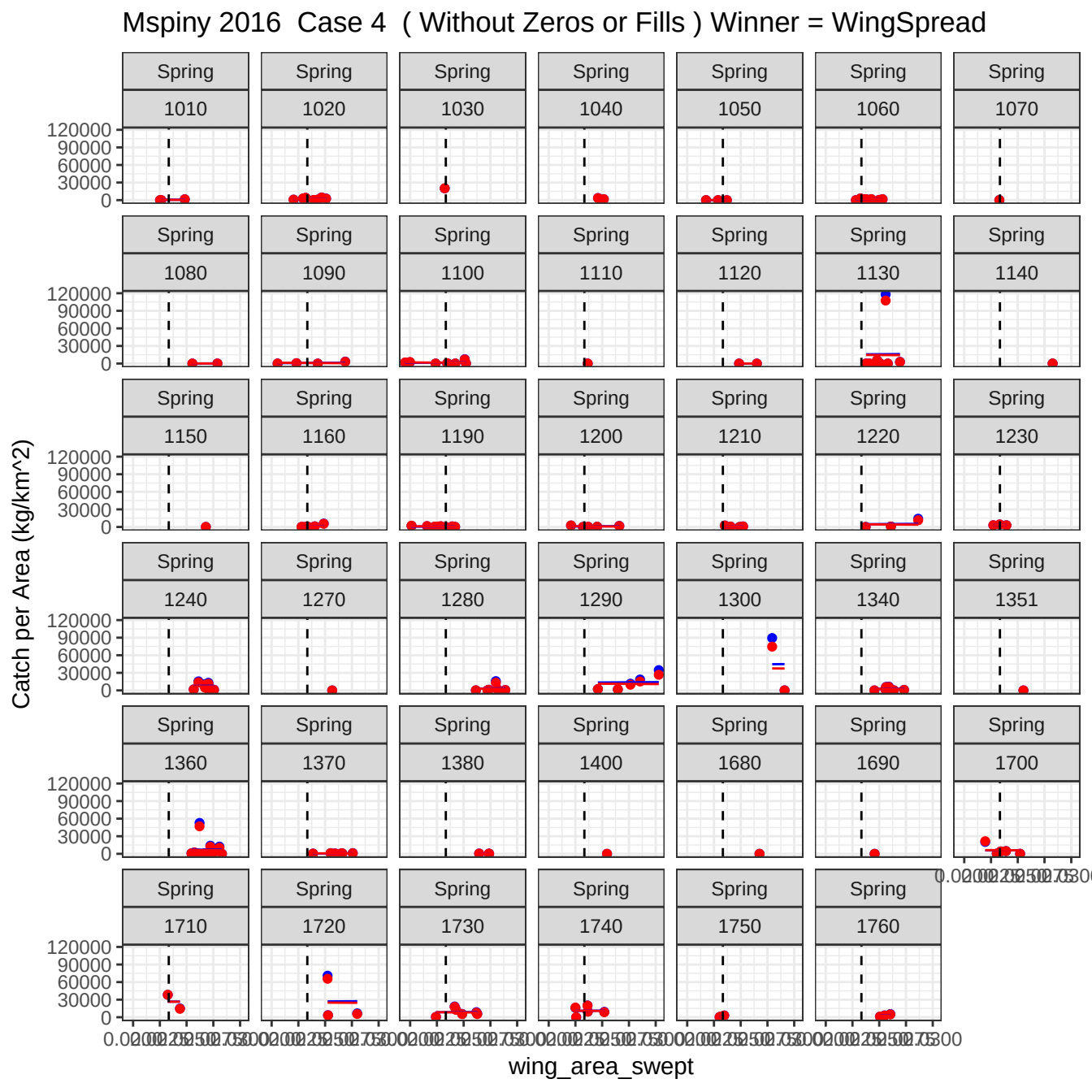

Mspiny 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1090
1100
1110
1120
1130
1140
1150
1170
1240
1260
1270
1280
1290
1340
1351
1360
1370
1380
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
60000
40000
20000
0
Catch per Area (kg/km^2)
wing_area_swept

Mspiny 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1100
1110
1120
1130
1140
1150
1160
1170
1180
1190
1230
1240
1260
1270
1280
1290
1340
1351
1360
1370
1380
1630
1640
1650
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
3e+05
2e+05
1e+05
0e+00
0.020
0.024
0.028
Catch per Area (kg/km^2)
wing_area_swept


Mspiny 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1060
1070
1080
1100
1110
1120
1130
1140
1150
1180
1230
1240
1260
1270
1280
1290
1340
1360
1370
1400
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
60000
40000
20000
0
Catch per Area (kg/km^2)
wing_area_swept


Mspiny 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1090
1110
1120
1130
1140
1150
1160
1170
1190
1200
1230
1240
1270
1280
1290
1300
1340
1351
1360
1370
1380
1690
1730
1740
1750
1760
80000
60000
40000
20000
0
Catch per Area (kg/km^2)
wing_area_swept


Mspiny 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1100
1110
1120
1140
1150
1170
1220
1240
1270
1280
1290
1340
1351
1360
1370
1380
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
60000
40000
20000
0
0.0225
0.0250
0.0275
Catch per Area (kg/km^2)
wing_area_swept


Mspiny 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1090
1100
1110
1120
1130
1140
1150
1160
1190
1200
1210
1220
1230
1240
1270
1280
1290
1300
1340
1351
1360
1370
1380
1400
1680
1690
1700
1710
1720
1730
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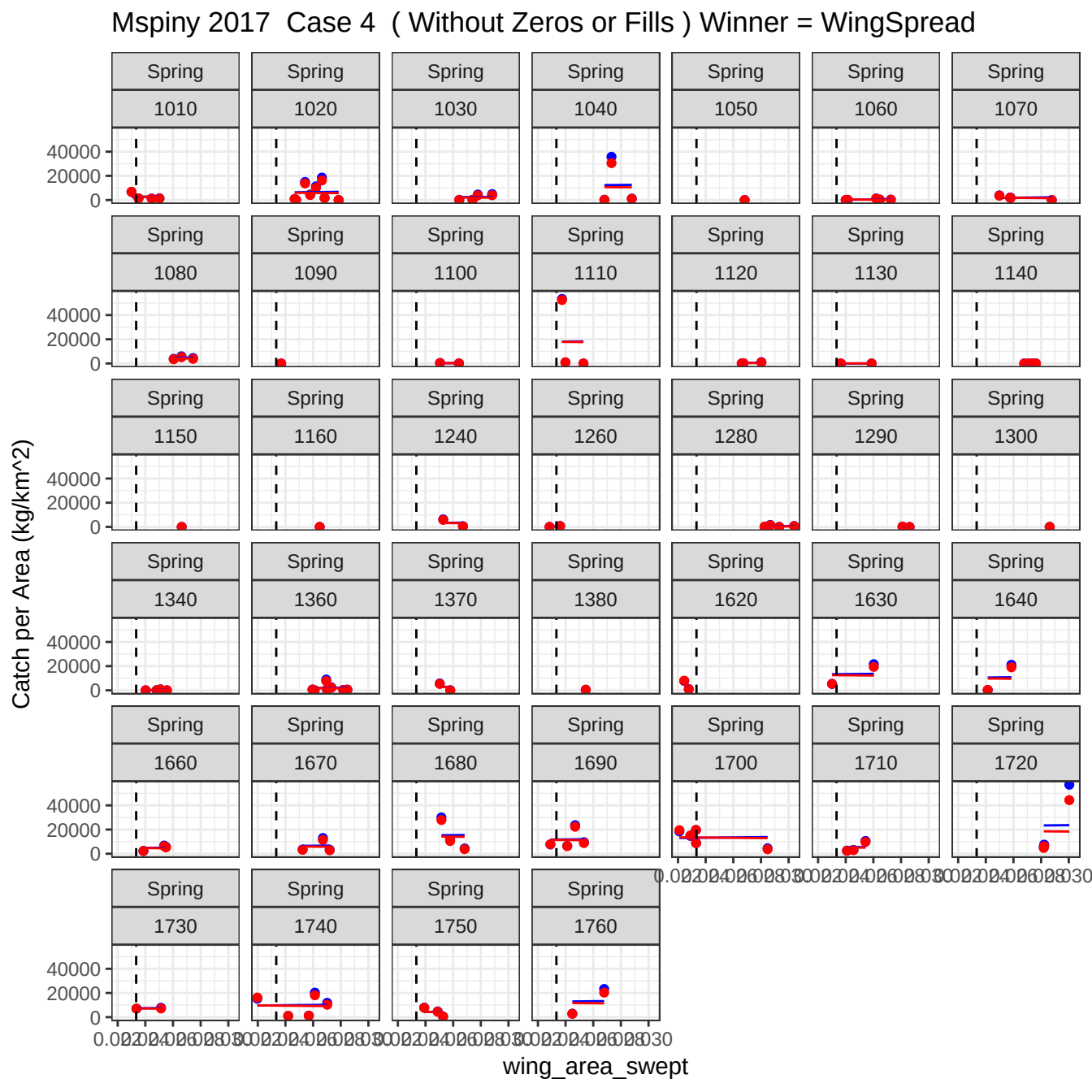
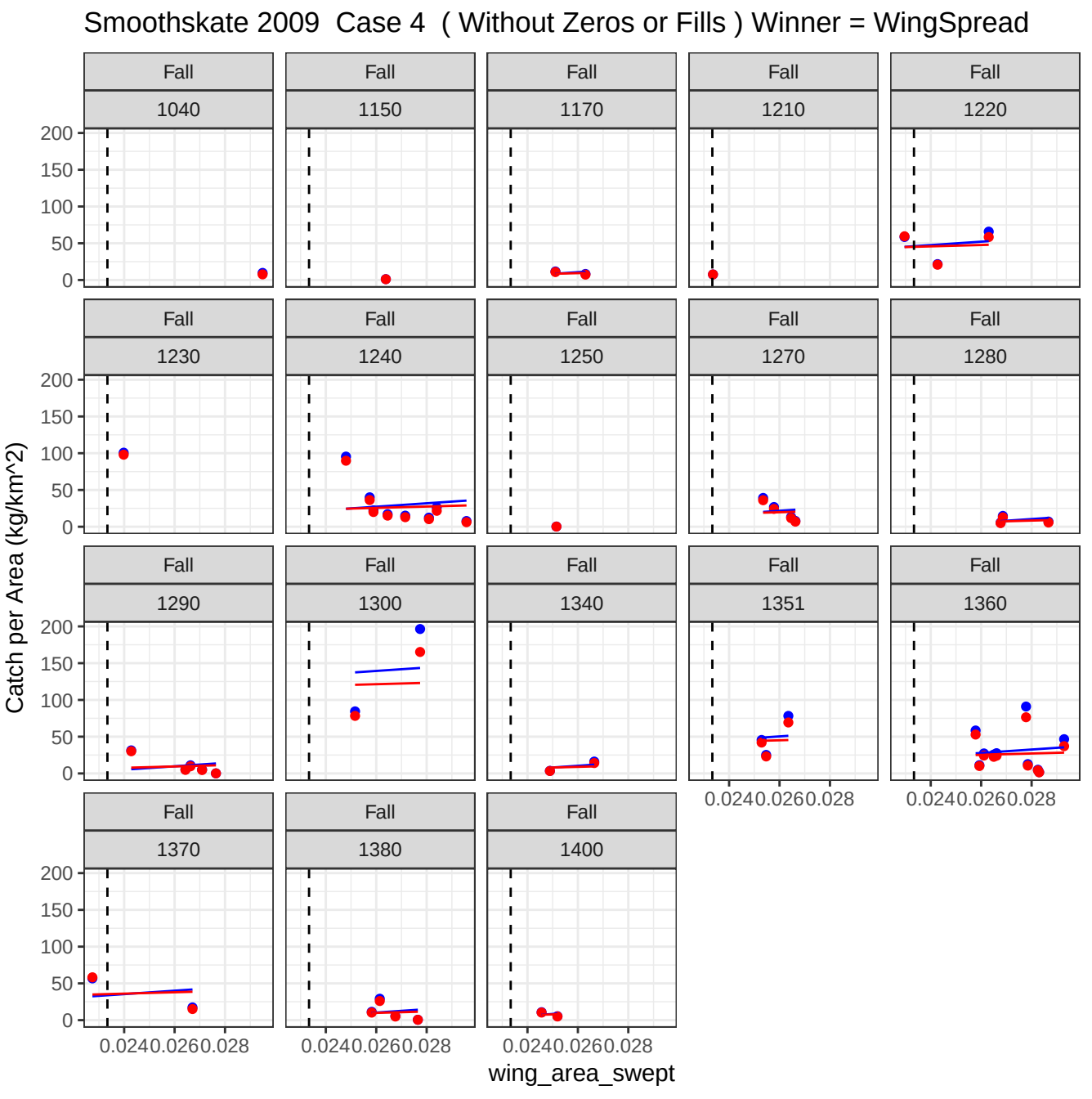
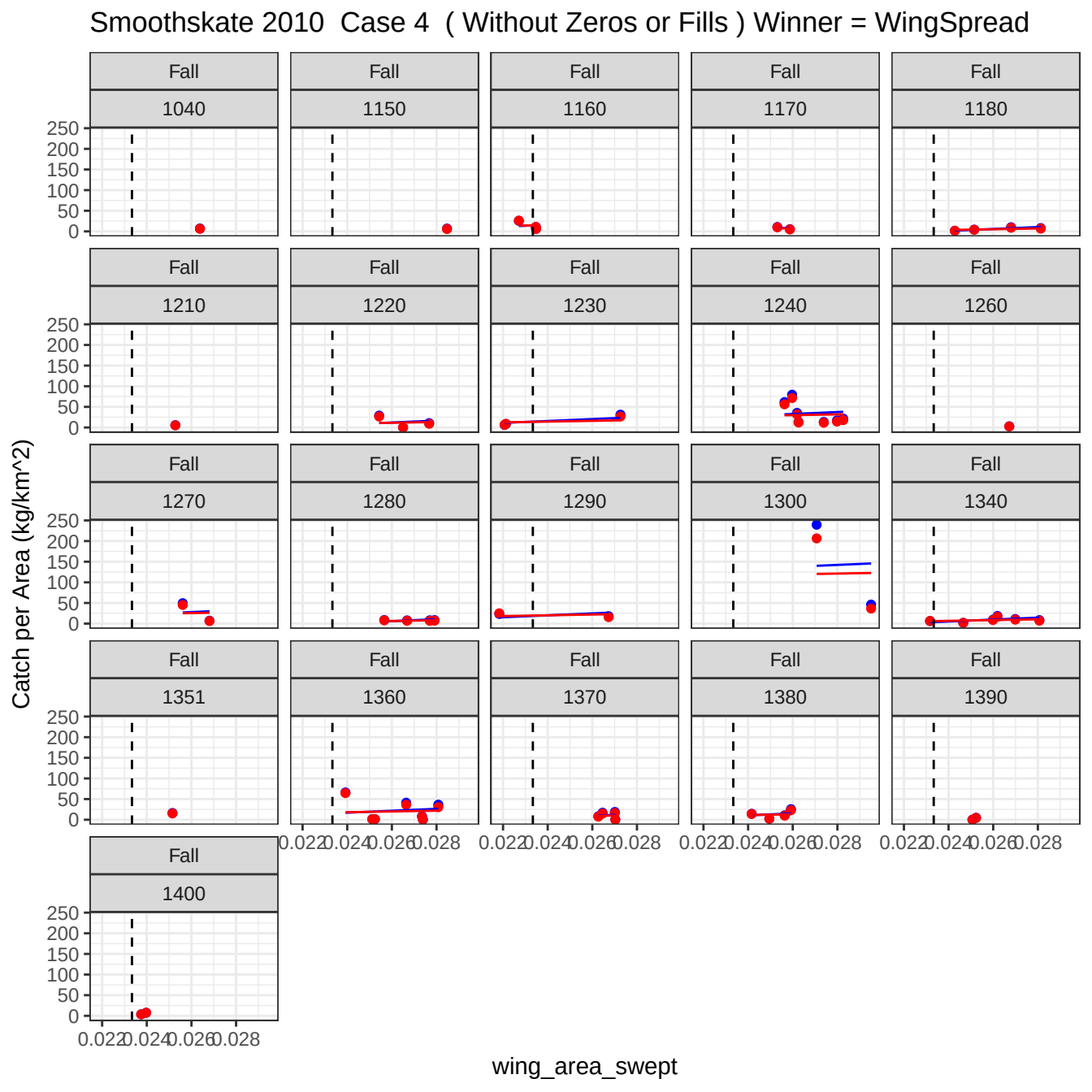
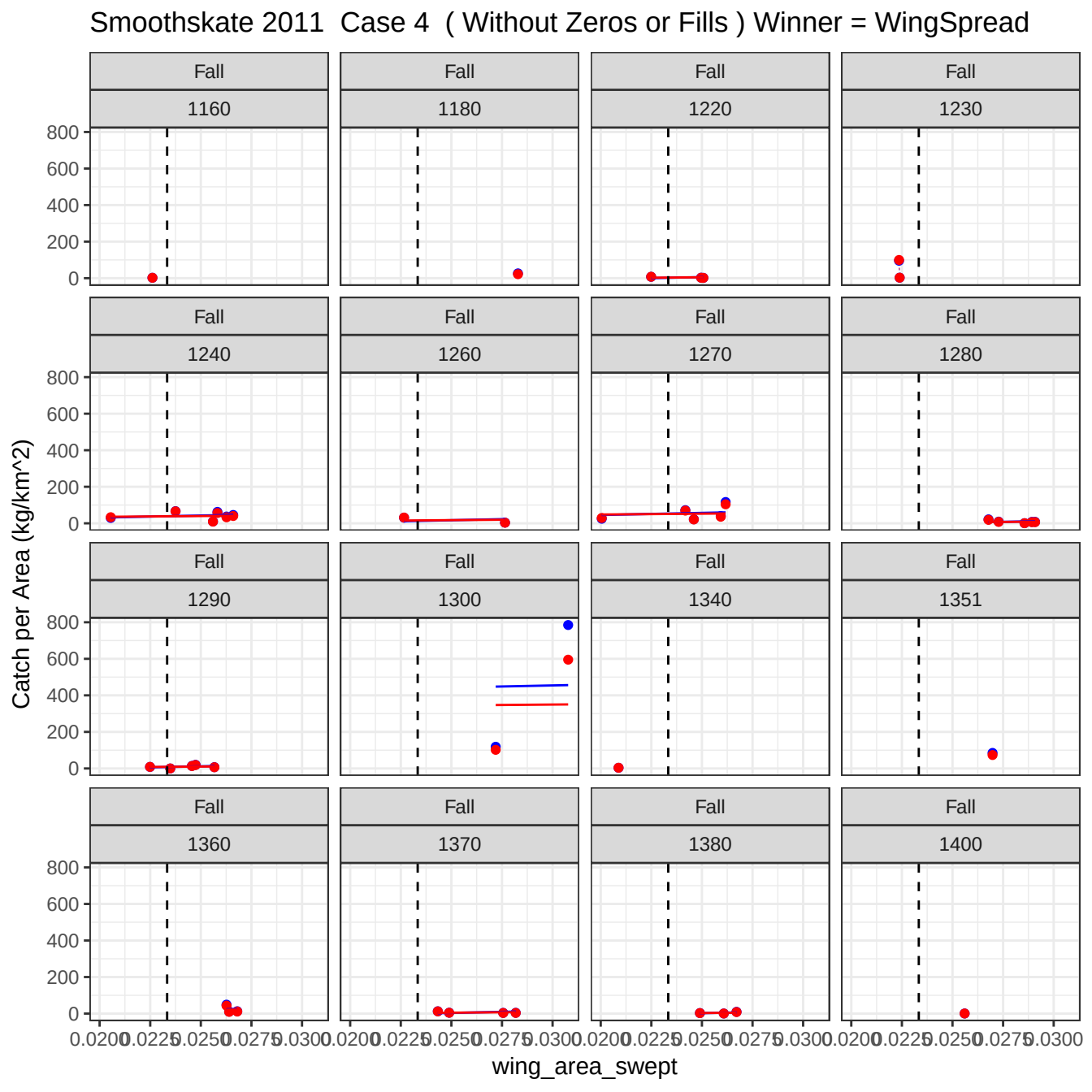
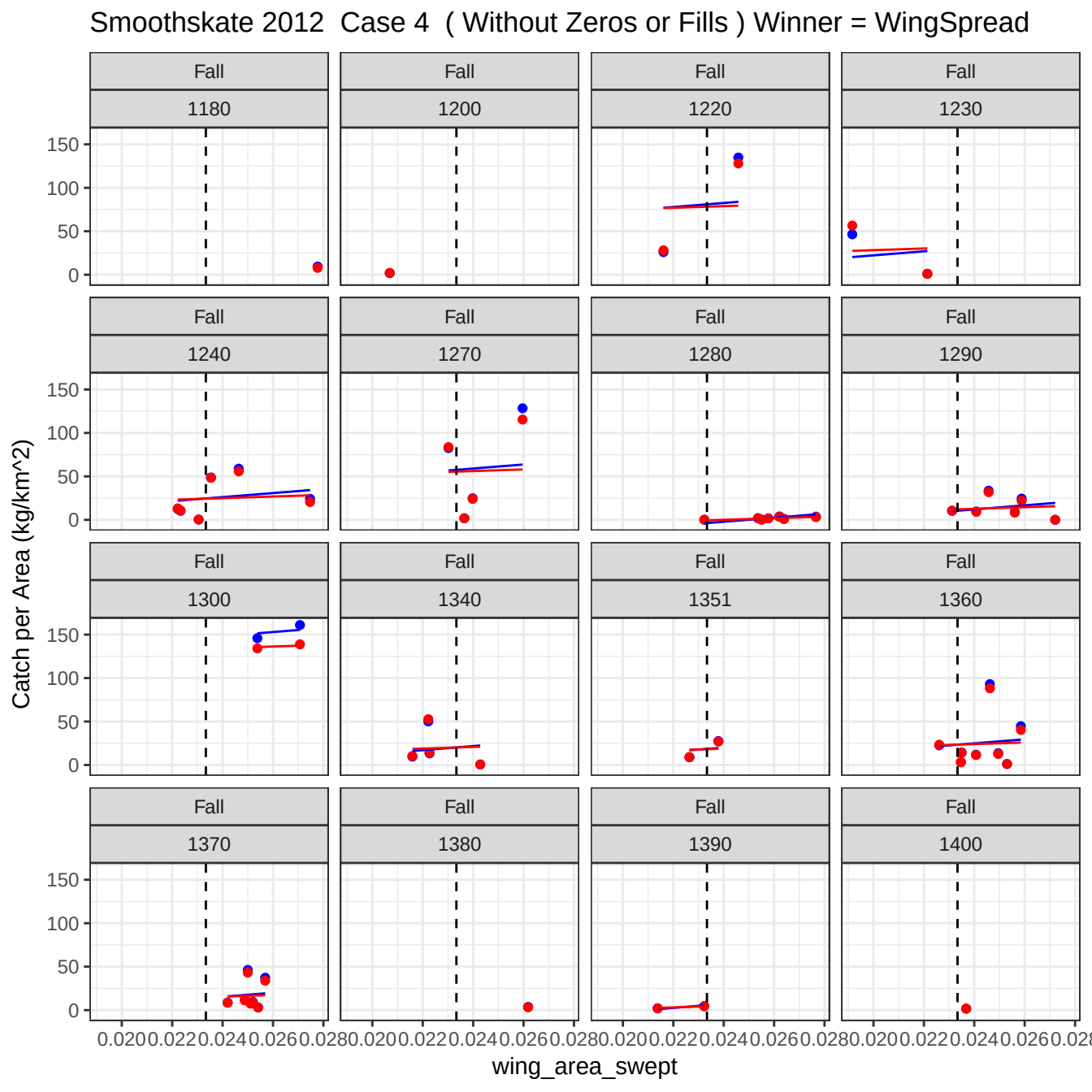
1750
1760
120000
90000
60000
30000
0
Catch per Area (kg/km^2)
wing_area_swept

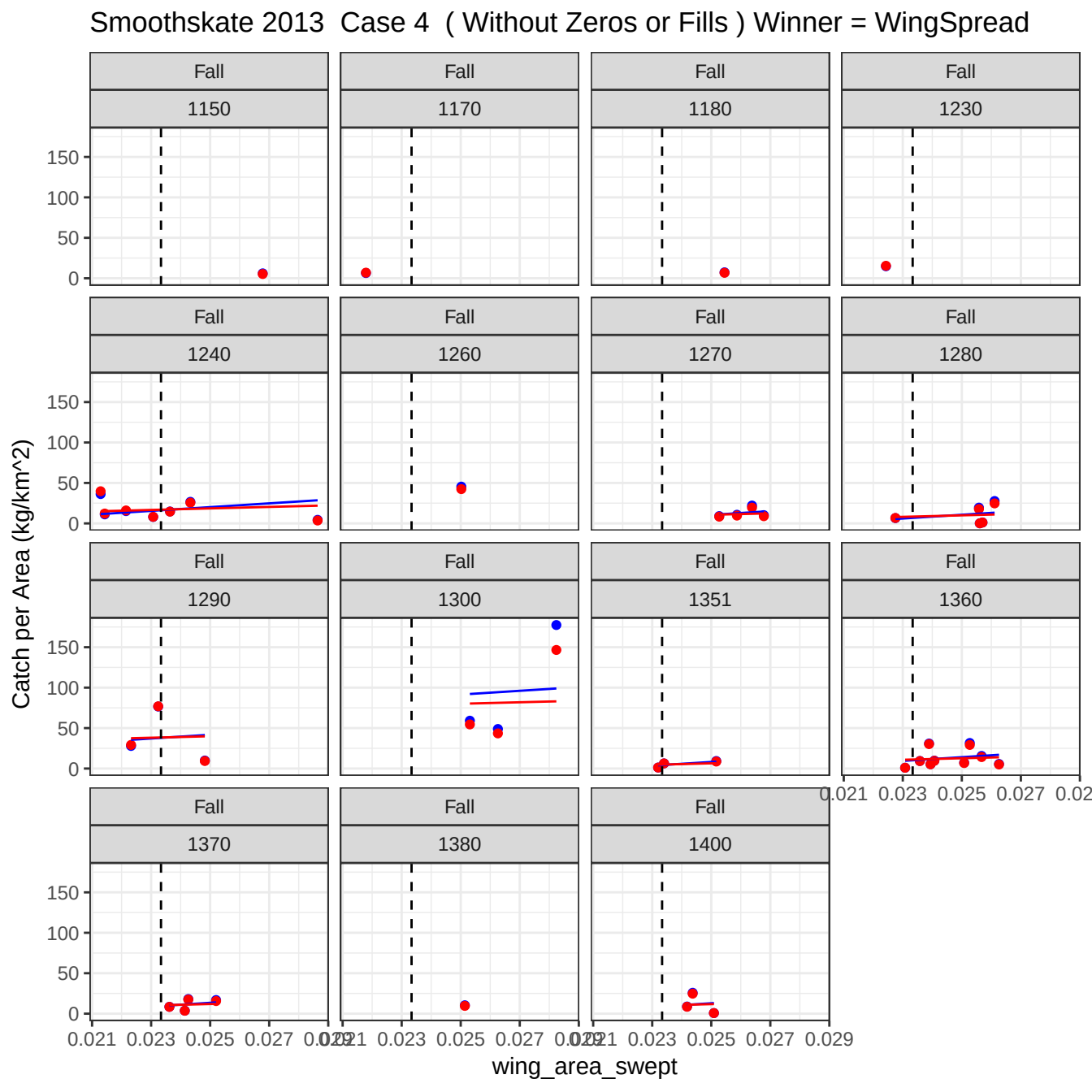

Mspiny 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Spring
1010
1020
1030
1040
1050
1060
1070
1080
1090
1100
1110
1120
1130
1140
1150
1160
1240
1260
1280
1290
1300
1340
1360
1370
1380
1620
1630
1640
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
40000
20000
0
0.02
0.24
0.26
0.28
0.30
Catch per Area (kg/km^2)
wing_area_swept

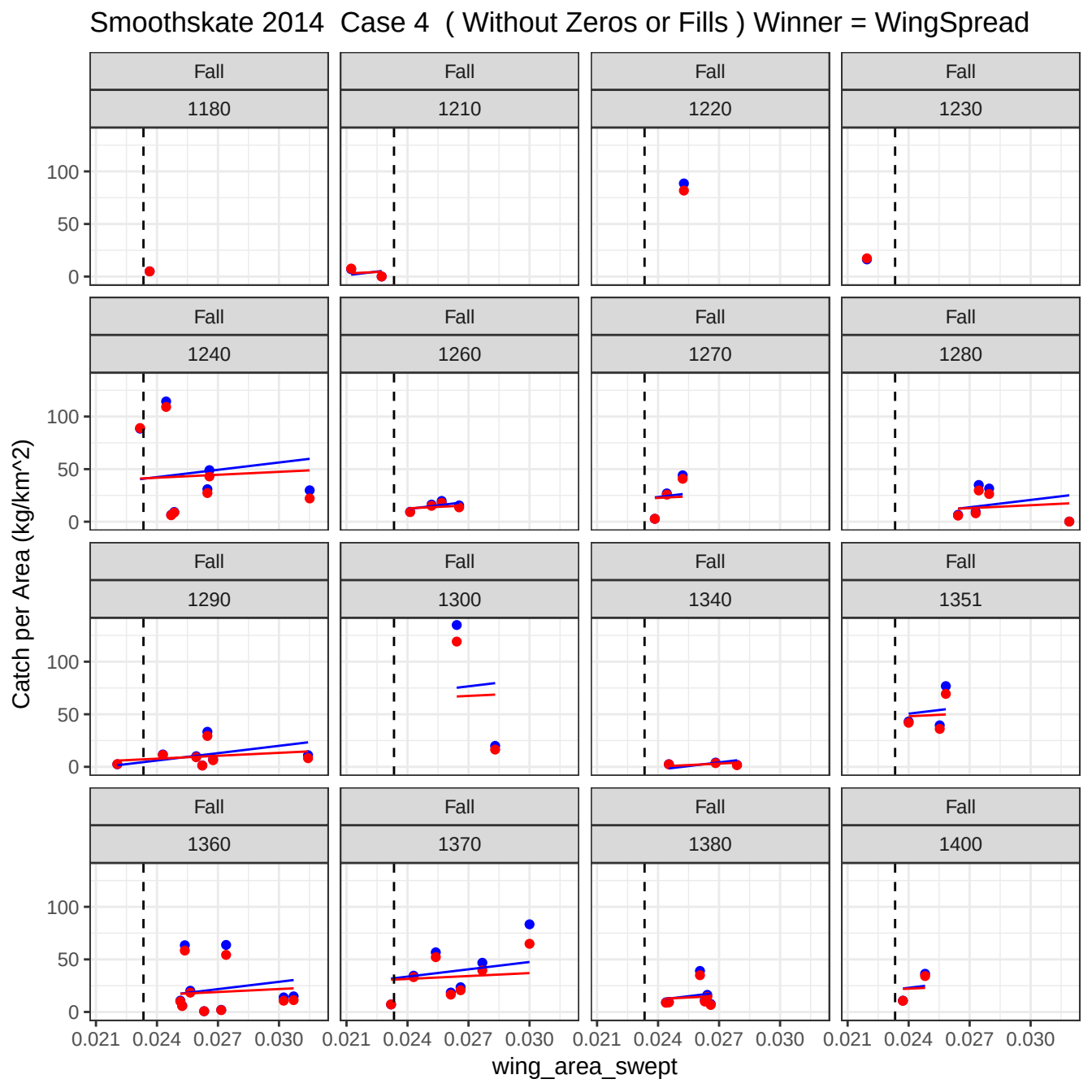

Smoothskate 2009 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1040
1150
1170
1210
1220
1230
1240
1250
1270
1280
1290
1300
1340
1351
1360
1370
1380
1400
Catch per Area (kg/km^2)
wing_area_swept
0
50
100
150
200
0.024
0.026
0.028

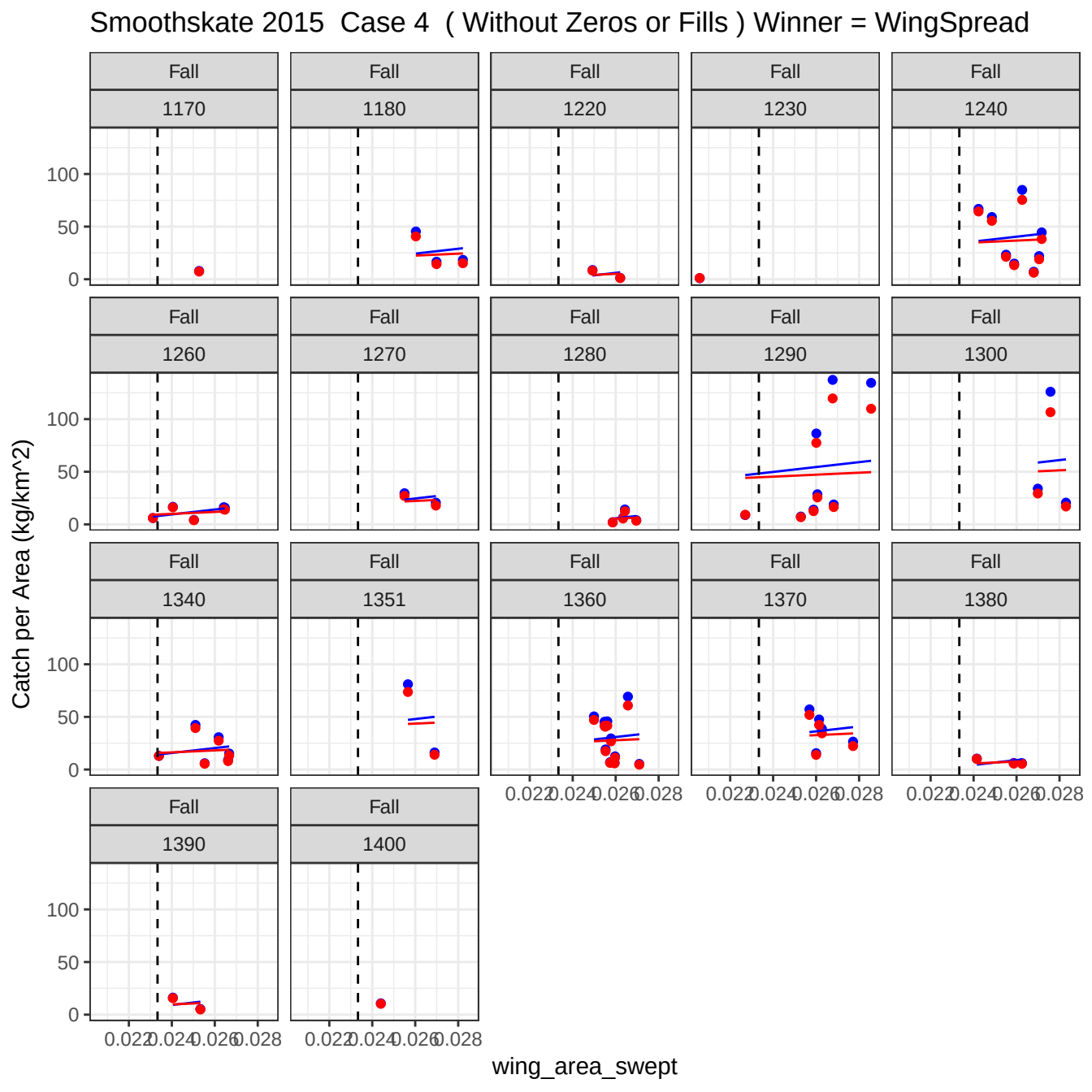

Smoothskate 2010 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1040
1150
1160
1170
1180
1210
1220
1230
1240
1260
1270
1280
1290
1300
1340
1351
1360
1370
1380
1390
1400
Catch per Area (kg/km^2)
wing_area_swept
0
50
100
150
200
250
0.022
0.024
0.026
0.028

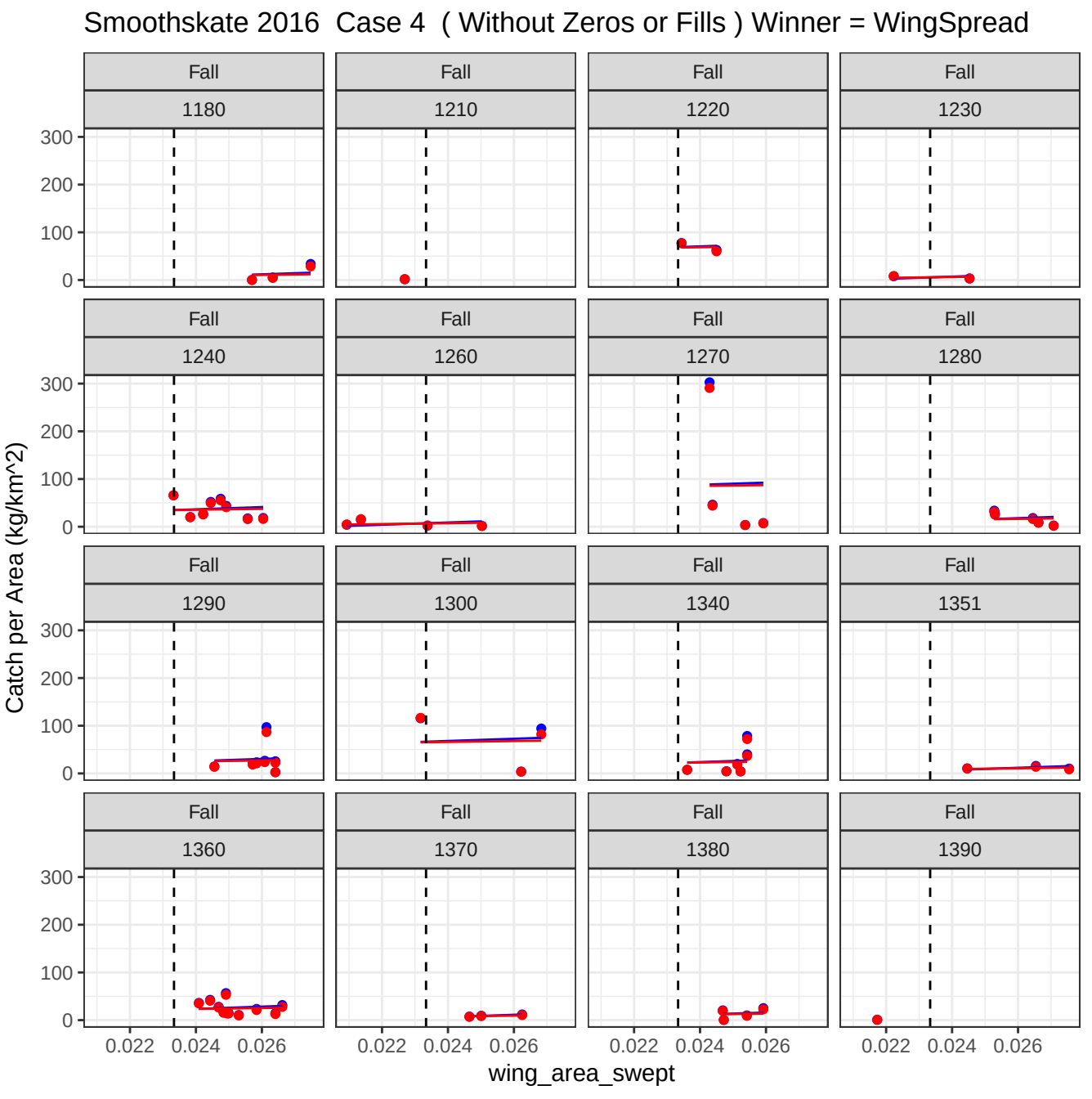

Smoothskate 2011 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1160
1180
1220
1230
1240
1260
1270
1280
1290
1300
1340
1351
1360
1370
1380
1400
Catch per Area (kg/km^2)
wing_area_swept
0
200
400
600
800
0.0200
0.0225
0.0250
0.0275
0.0300

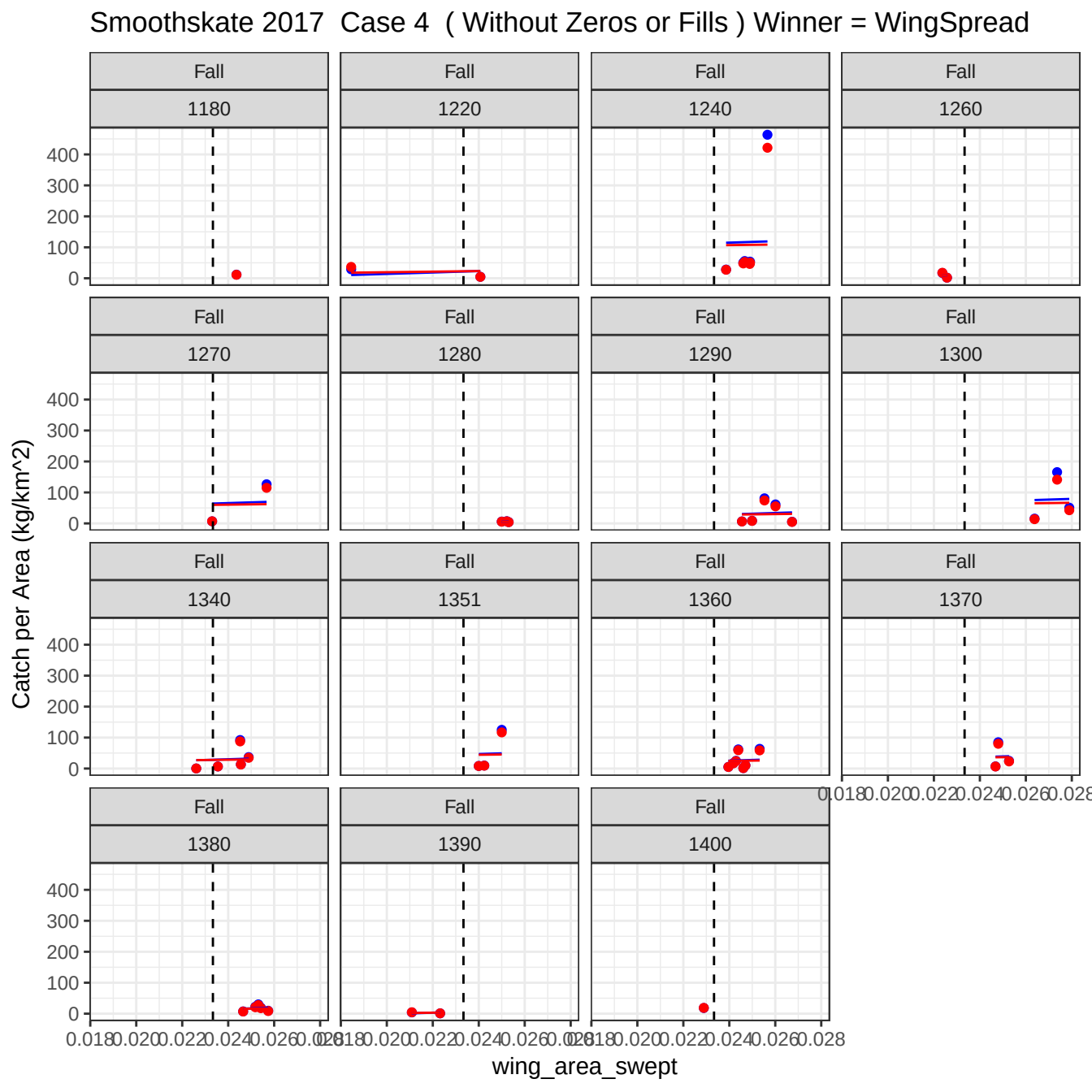

Smoothskate 2012 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1180
1200
1220
1230
1240
1270
1280
1290
1300
1340
1351
1360
1370
1380
1390
1400
Catch per Area (kg/km^2)
wing_area_swept
0
50
100
150
0.020
0.022
0.024
0.026
0.028


Smoothskate 2013 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1150
1170
1180
1230
1240
1260
1270
1280
1290
1300
1351
1360
1370
1380
1400
Catch per Area (kg/km^2)
wing_area_swept
0
50
100
150
0.021
0.023
0.025
0.027
0.029


Smoothskate 2014 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1180
1210
1220
1230
1240
1260
1270
1280
1290
1300
1340
1351
1360
1370
1380
1400
Catch per Area (kg/km^2)
wing_area_swept
0
50
100
0.021
0.024
0.027
0.030


Smoothskate 2015 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1170
1180
1220
1230
1240
1260
1270
1280
1290
1300
1340
1351
1360
1370
1380
1390
1400
Catch per Area (kg/km^2)
wing_area_swept
0
50
100
0.022
0.024
0.026
0.028


Smoothskate 2016 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1180
1210
1220
1230
1240
1260
1270
1280
1290
1300
1340
1351
1360
1370
1380
1390
Catch per Area (kg/km^2)
0
100
200
300
0.022
0.024
0.026
wing_area_swept


Smoothskate 2017 Case 4 (Without Zeros or Fills) Winner = WingSpread
Fall
1180
1220
1240
1260
1270
1280
1290
1300
1340
1351
1360
1370
1380
1390
1400
Catch per Area (kg/km^2)
wing_area_swept
0
100
200
300
400
0.018
0.020
0.022
0.024
0.026
0.028