

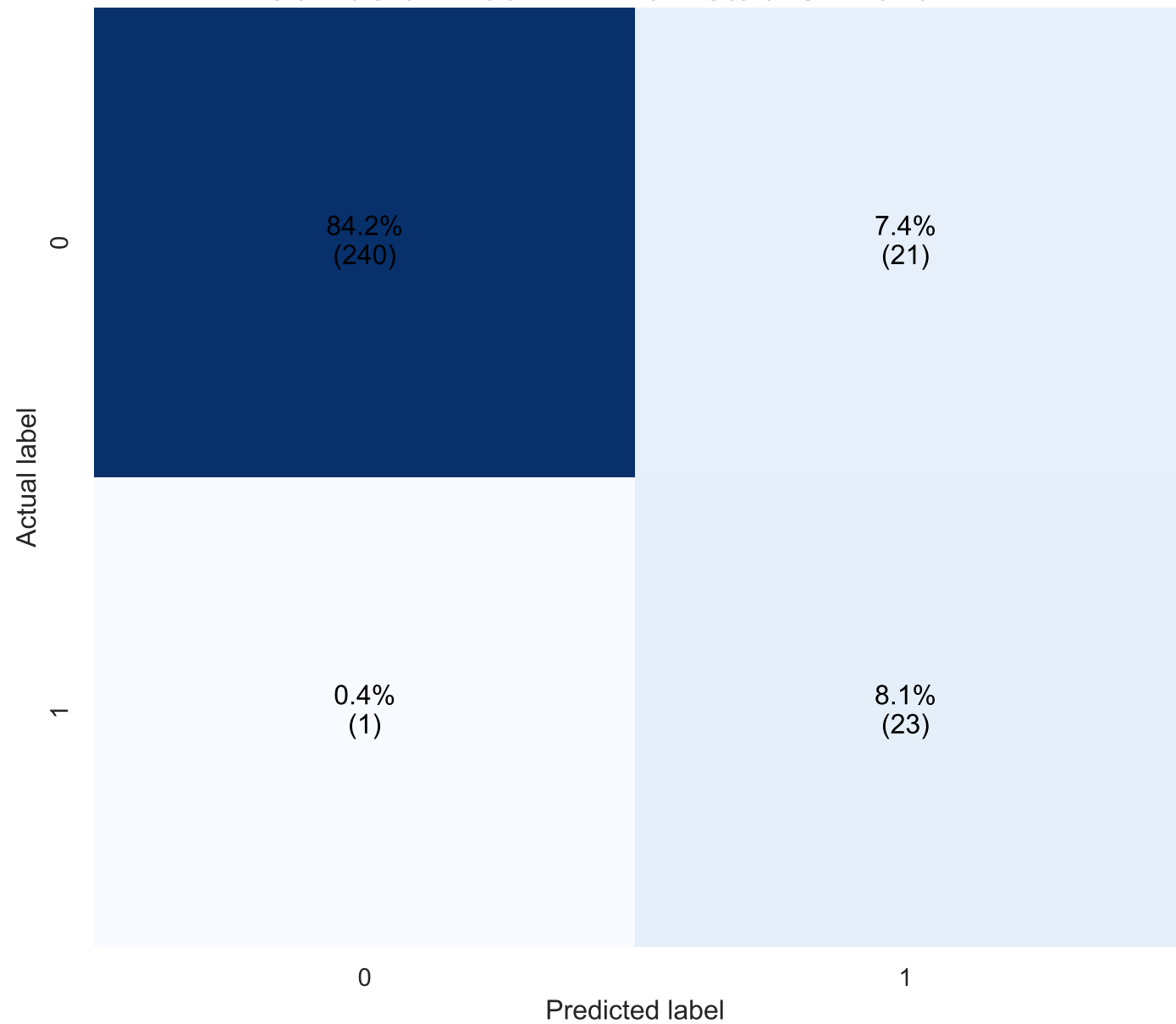
# BERT Topic Classifier Evaluation (Weighted)

## Aggregate Performance

Micro Precision: 0.689  
Micro Recall: 0.886  
Micro F1: 0.775  
Macro Precision: 0.716  
Macro Recall: 0.893  
Macro F1: 0.788  
Weighted Precision: 0.671  
Weighted Recall: 0.879  
Weighted F1: 0.754  
Samples F1: 0.768  
Subset Accuracy: 0.498

Topic	Weight	Precision	Recall	F1 Score	Accuracy	Positives
Anti-Establishment	0.133	0.523	0.958	0.676	0.923	24
Civil Rights	0.045	0.488	0.875	0.627	0.912	24
Climate Change	0.042	0.853	0.935	0.892	0.975	31
Connecting	0.092	0.650	0.867	0.743	0.968	15
Economics	0.067	0.609	0.800	0.691	0.912	35
Elections/Voting	0.066	0.833	0.833	0.833	0.972	24
European Union	0.039	0.818	0.900	0.857	0.979	20
Gender Rights	0.023	0.706	0.857	0.774	0.975	14
Immigration	0.025	0.750	1.000	0.857	0.982	15
Inequality	0.050	0.667	0.842	0.744	0.961	19
International Trade	0.024	0.550	0.917	0.688	0.965	12
Labour Market	0.036	0.900	0.857	0.878	0.982	21
Political Rights	0.021	0.684	0.867	0.765	0.972	15
Public Health	0.040	0.909	1.000	0.952	0.993	20
Renewable Energy	0.029	0.545	0.900	0.679	0.940	20
Self-Promotion	0.174	0.564	0.815	0.667	0.923	27
Social Policy	0.055	0.794	0.844	0.818	0.958	32
Taxation	0.020	0.889	1.000	0.941	0.993	16
Traditional Energy	0.016	0.864	0.905	0.884	0.982	21

**Confusion Matrix – Anti-Establishment**



# Confusion Matrix – Civil Rights

Actual label

0

83.9%  
(239)

7.7%  
(22)

1

1.1%  
(3)

7.4%  
(21)

0

1

Predicted label

**Confusion Matrix – Climate Change**

Actual label

0

87.4%  
(249)

1.8%  
(5)

1

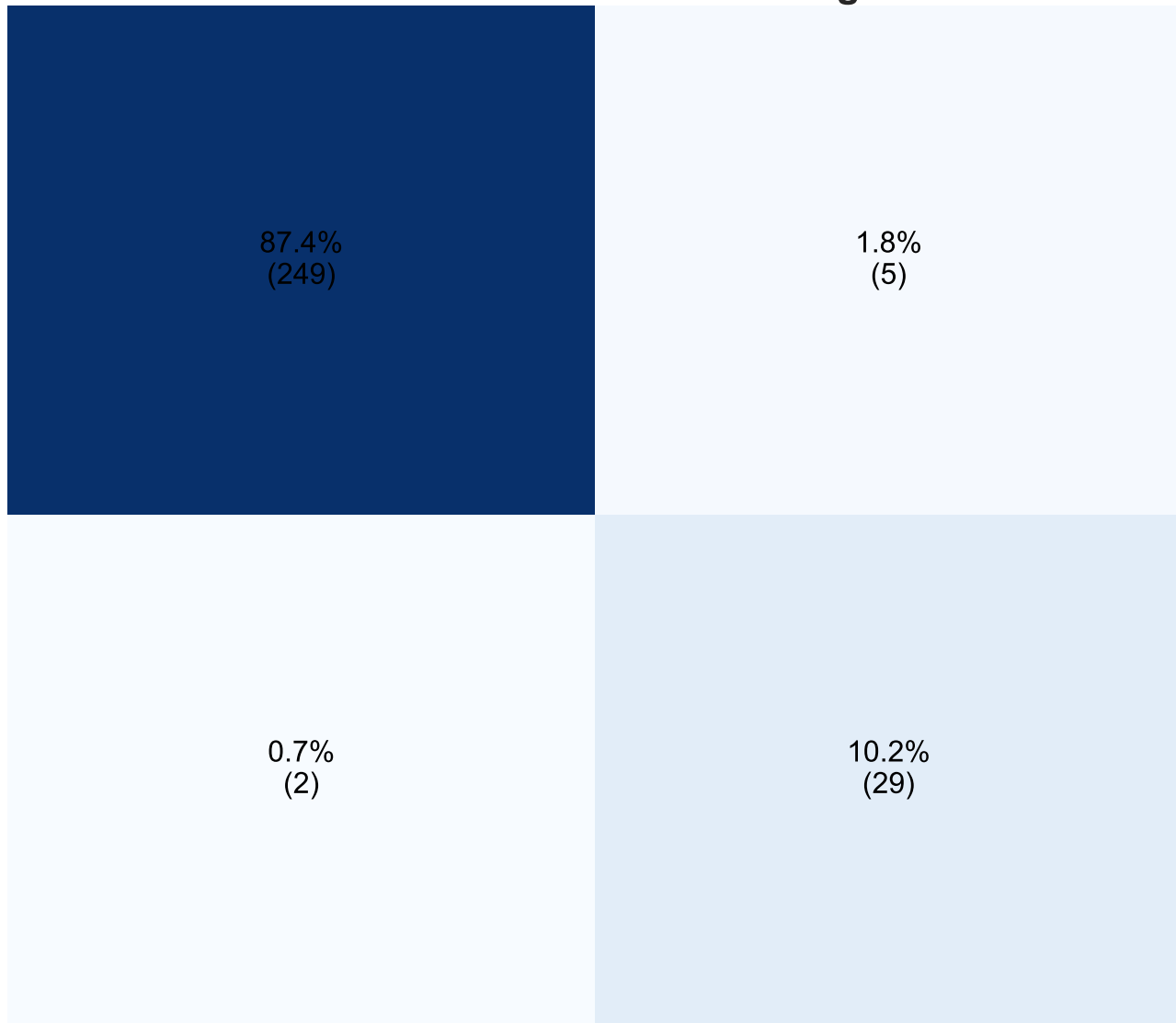
0.7%  
(2)

10.2%  
(29)

0

1

Predicted label



**Confusion Matrix – Connecting**

Actual label

0

92.3%  
(263)

2.5%  
(7)

1

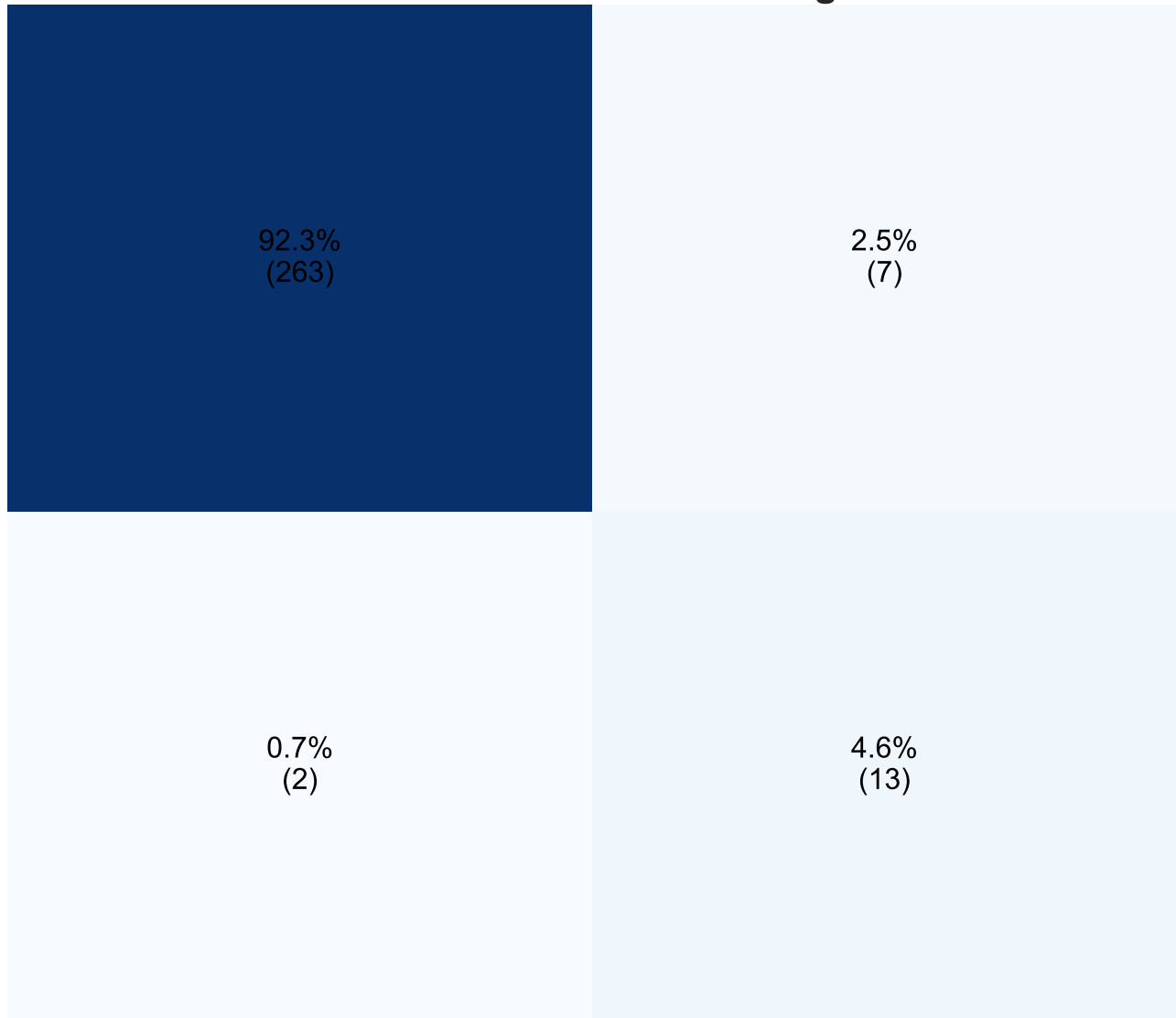
0.7%  
(2)

4.6%  
(13)

0

1

Predicted label



# Confusion Matrix – Economics

Actual label

0

81.4%  
(232)

6.3%  
(18)

1

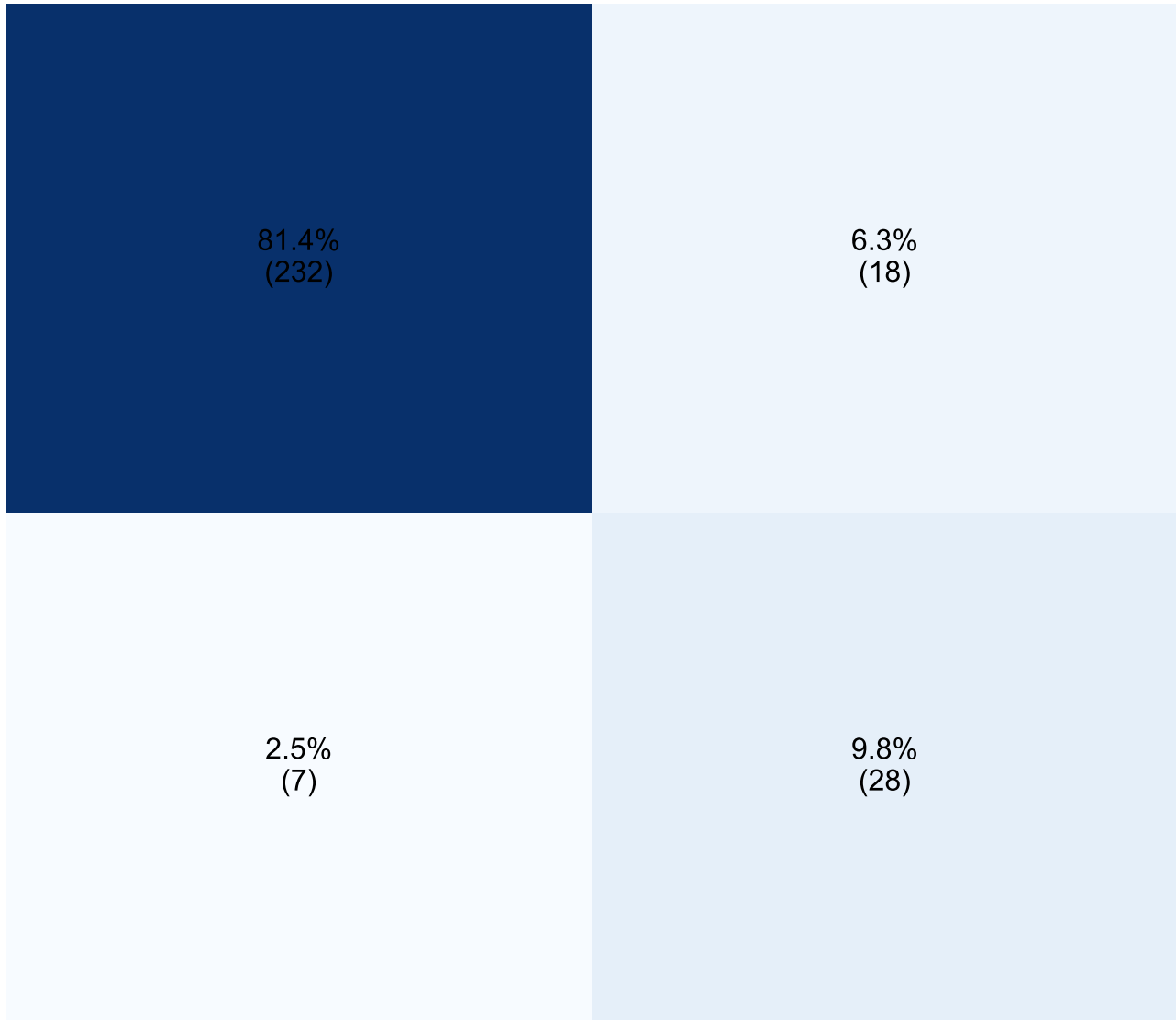
2.5%  
(7)

9.8%  
(28)

0

1

Predicted label



# Confusion Matrix – Elections/Voting

Actual label

0

90.2%  
(257)

1.4%  
(4)

1

1.4%  
(4)

7.0%  
(20)

0

1

Predicted label

**Confusion Matrix – European Union**

Actual label

0

91.6%  
(261)

1.4%  
(4)

1

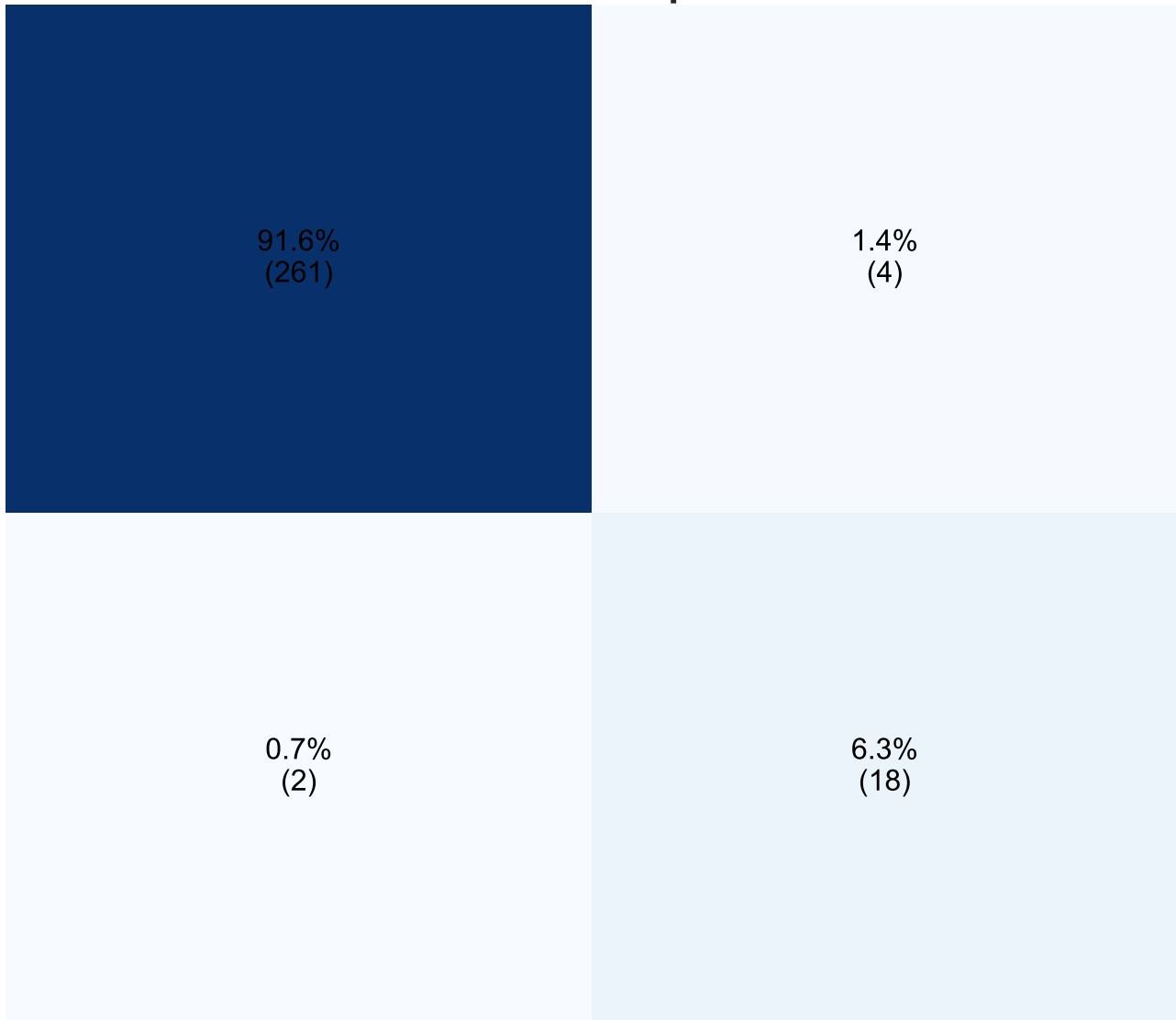
0.7%  
(2)

6.3%  
(18)

0

1

Predicted label





**Confusion Matrix – Gender Rights**

Actual label

0

93.3%  
(266)

1.8%  
(5)

1

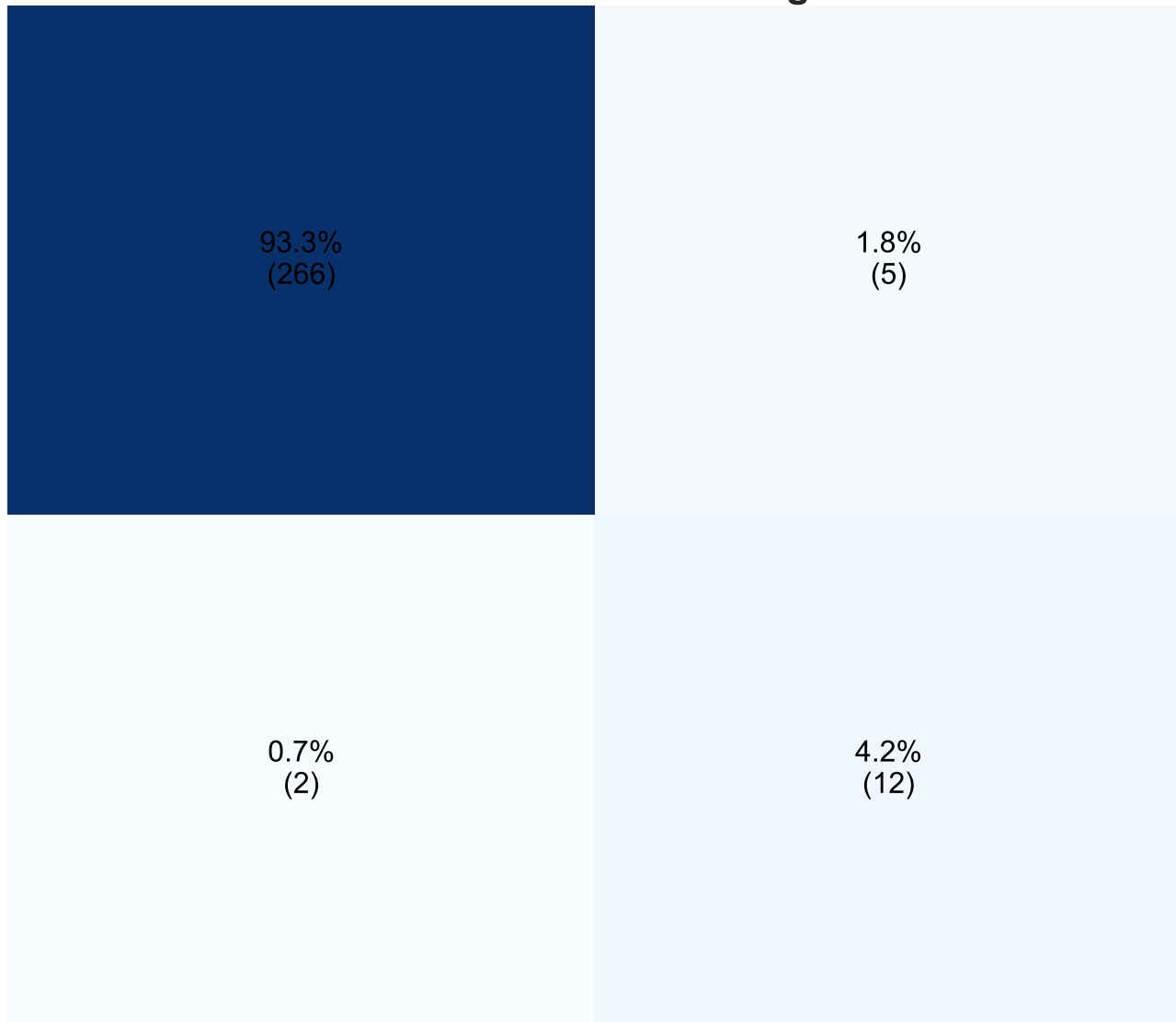
0.7%  
(2)

4.2%  
(12)

0

1

Predicted label



**Confusion Matrix – Immigration**

Actual label

0

93.0%  
(265)

1.8%  
(5)

1

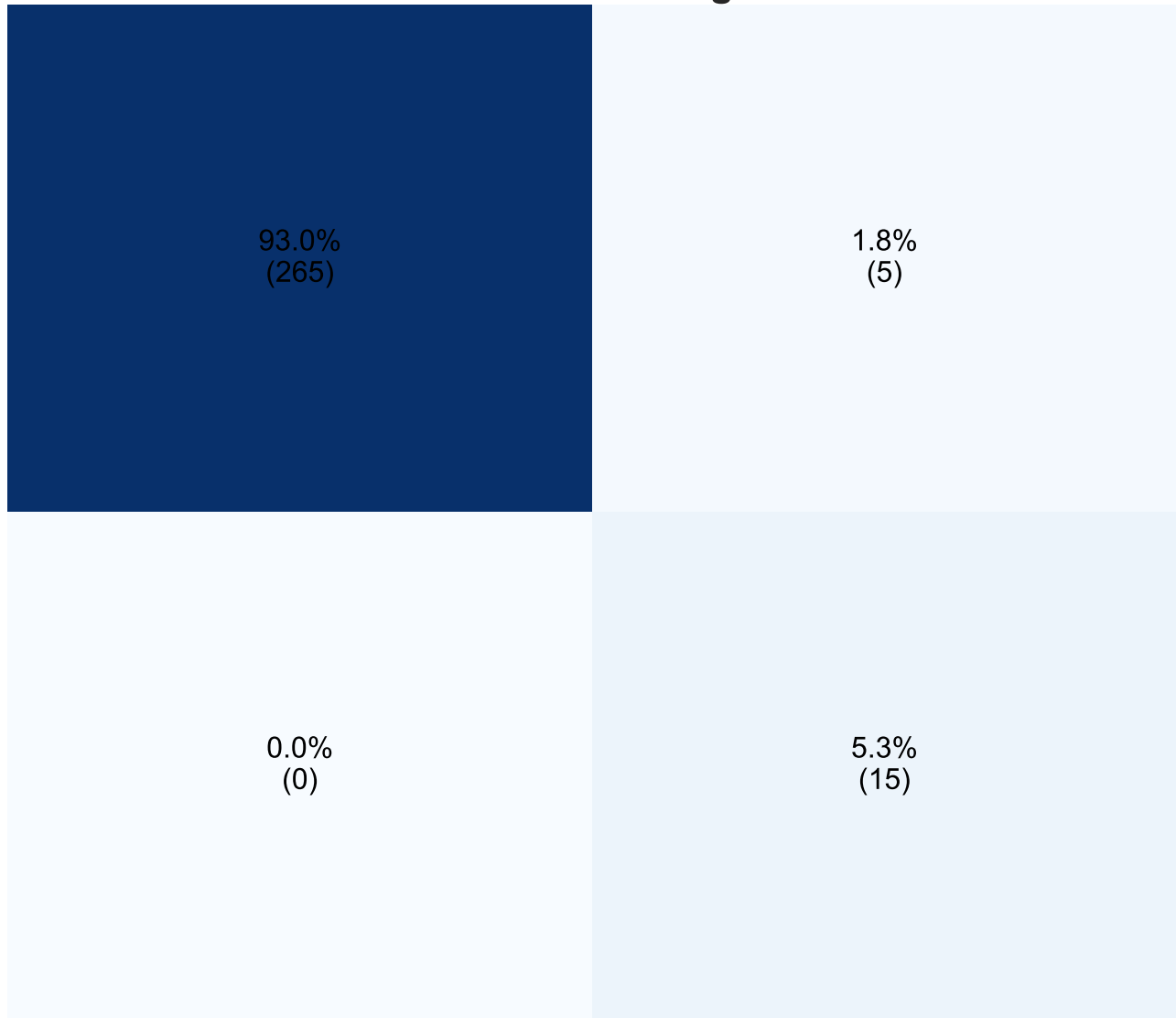
0.0%  
(0)

5.3%  
(15)

0

1

Predicted label



**Confusion Matrix – Inequality**

Actual label

0

90.5%  
(258)

2.8%  
(8)

1

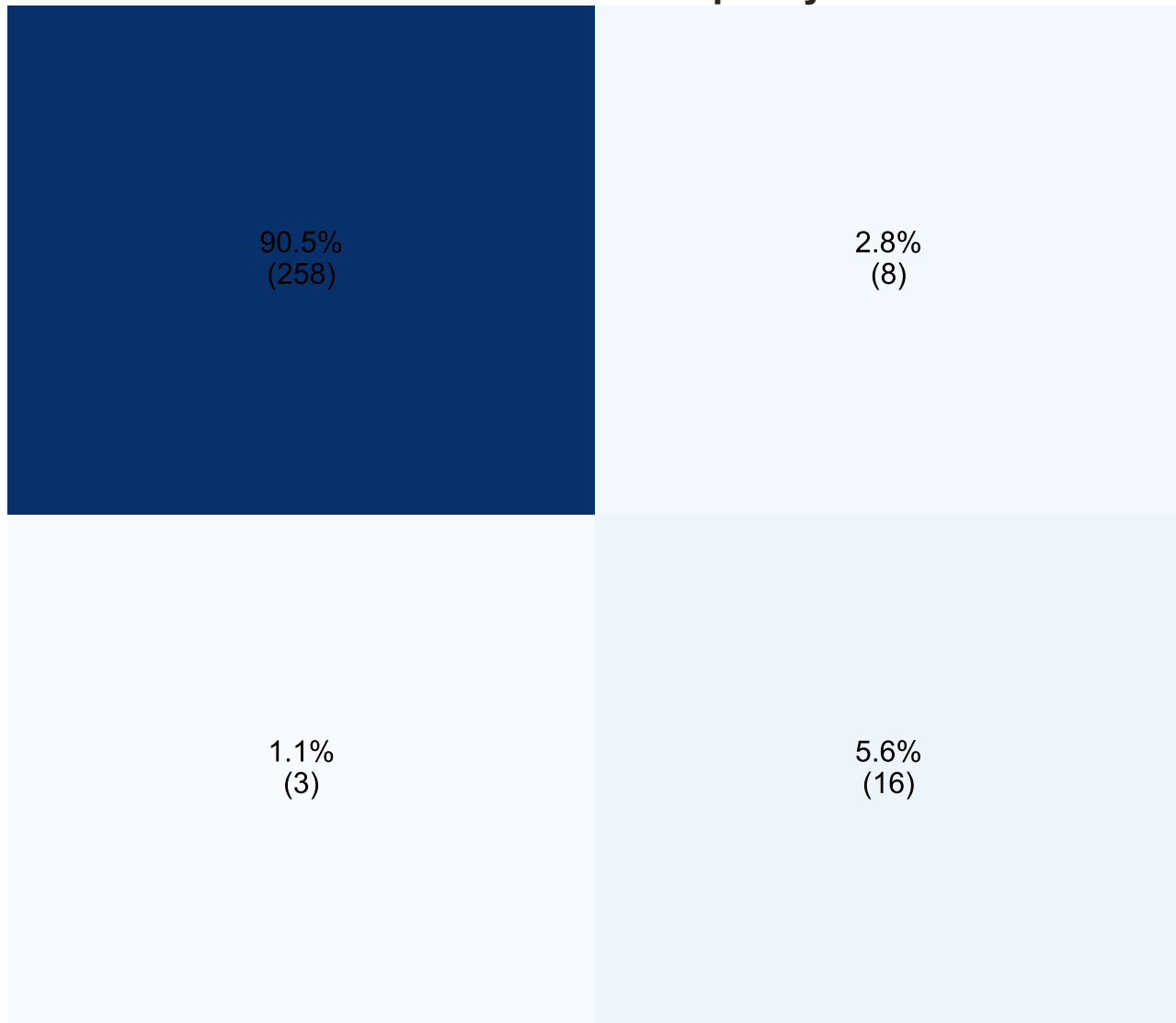
1.1%  
(3)

5.6%  
(16)

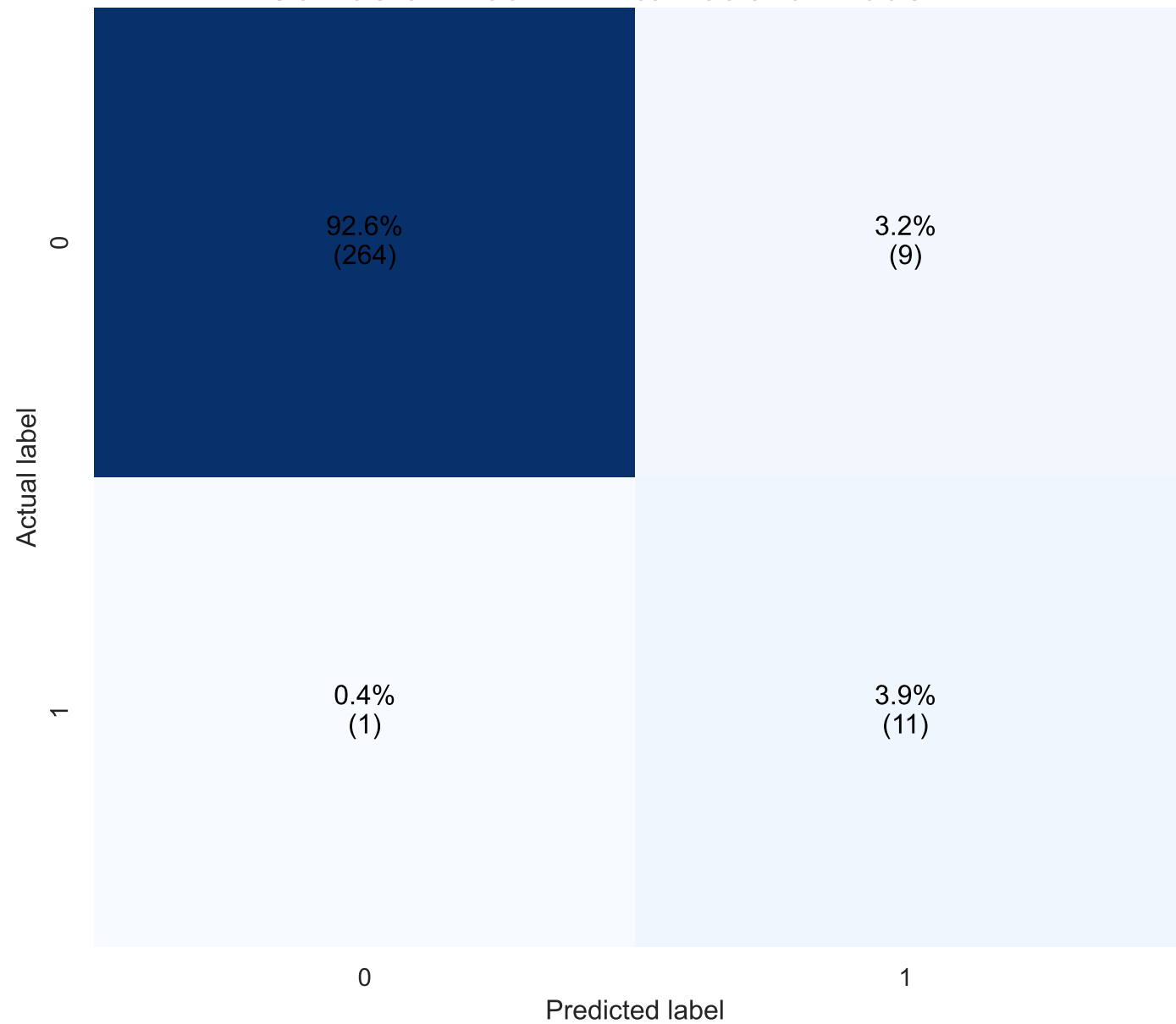
0

1

Predicted label



**Confusion Matrix – International Trade**



**Confusion Matrix – Labour Market**

Actual label

0

91.9%  
(262)

0.7%  
(2)

1

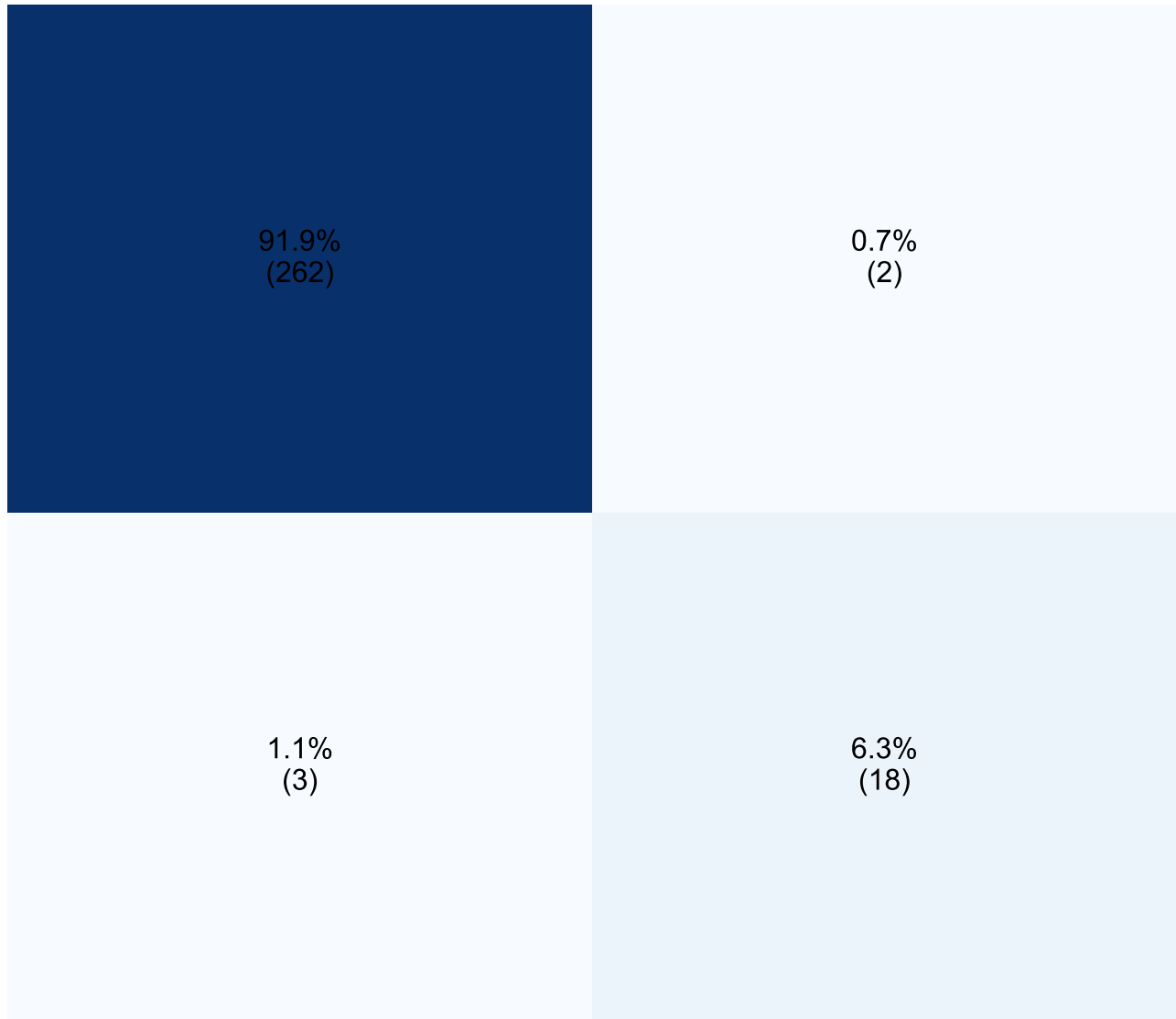
1.1%  
(3)

6.3%  
(18)

0

1

Predicted label



# Confusion Matrix – Political Rights

Actual label

0

92.6%  
(264)

2.1%  
(6)

1

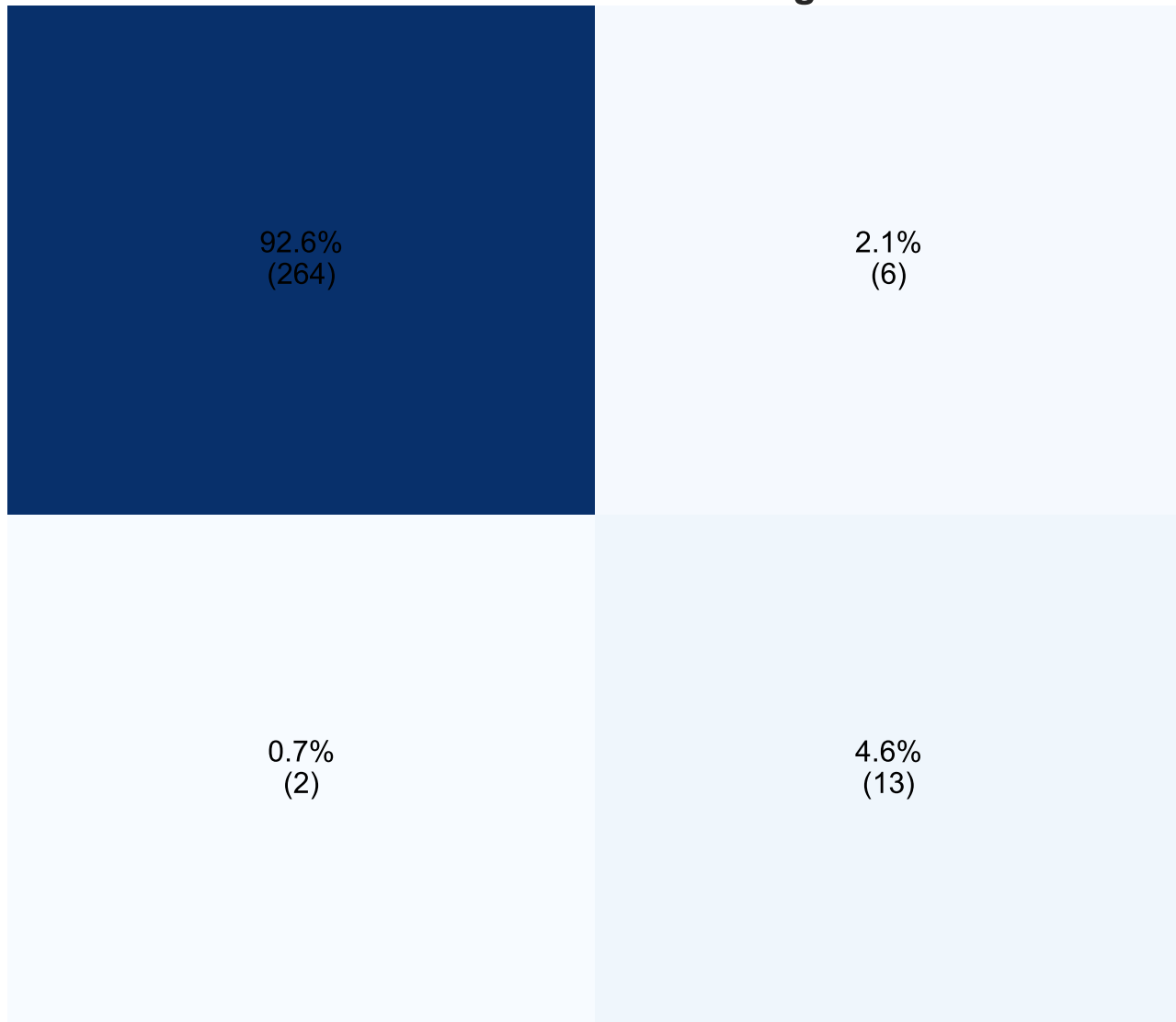
0.7%  
(2)

4.6%  
(13)

0

1

Predicted label



**Confusion Matrix – Public Health**

Actual label

0

92.3%  
(263)

0.7%  
(2)

1

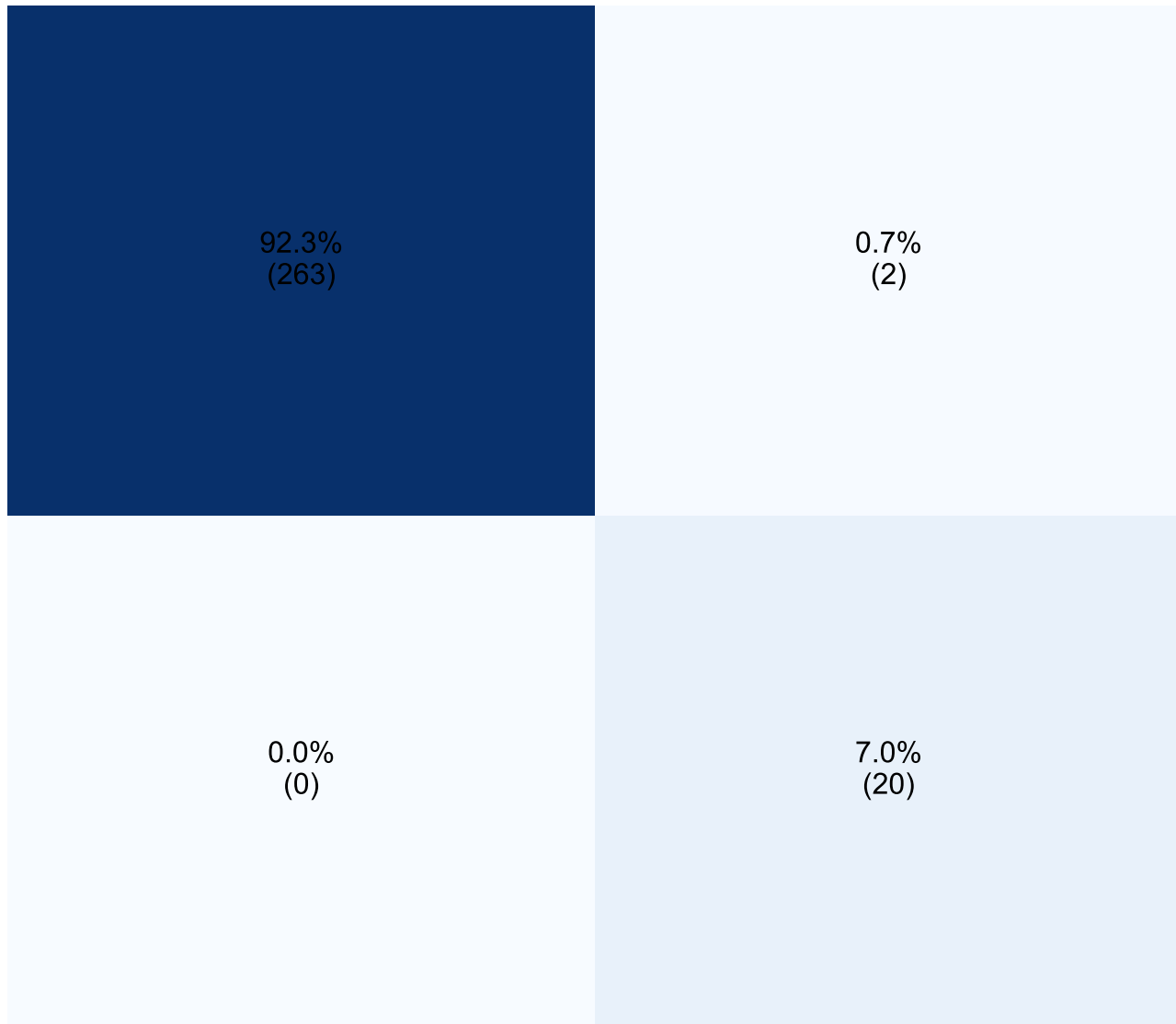
0.0%  
(0)

7.0%  
(20)

0

1

Predicted label



**Confusion Matrix – Renewable Energy**

Actual label

0

87.7%  
(250)

5.3%  
(15)

1

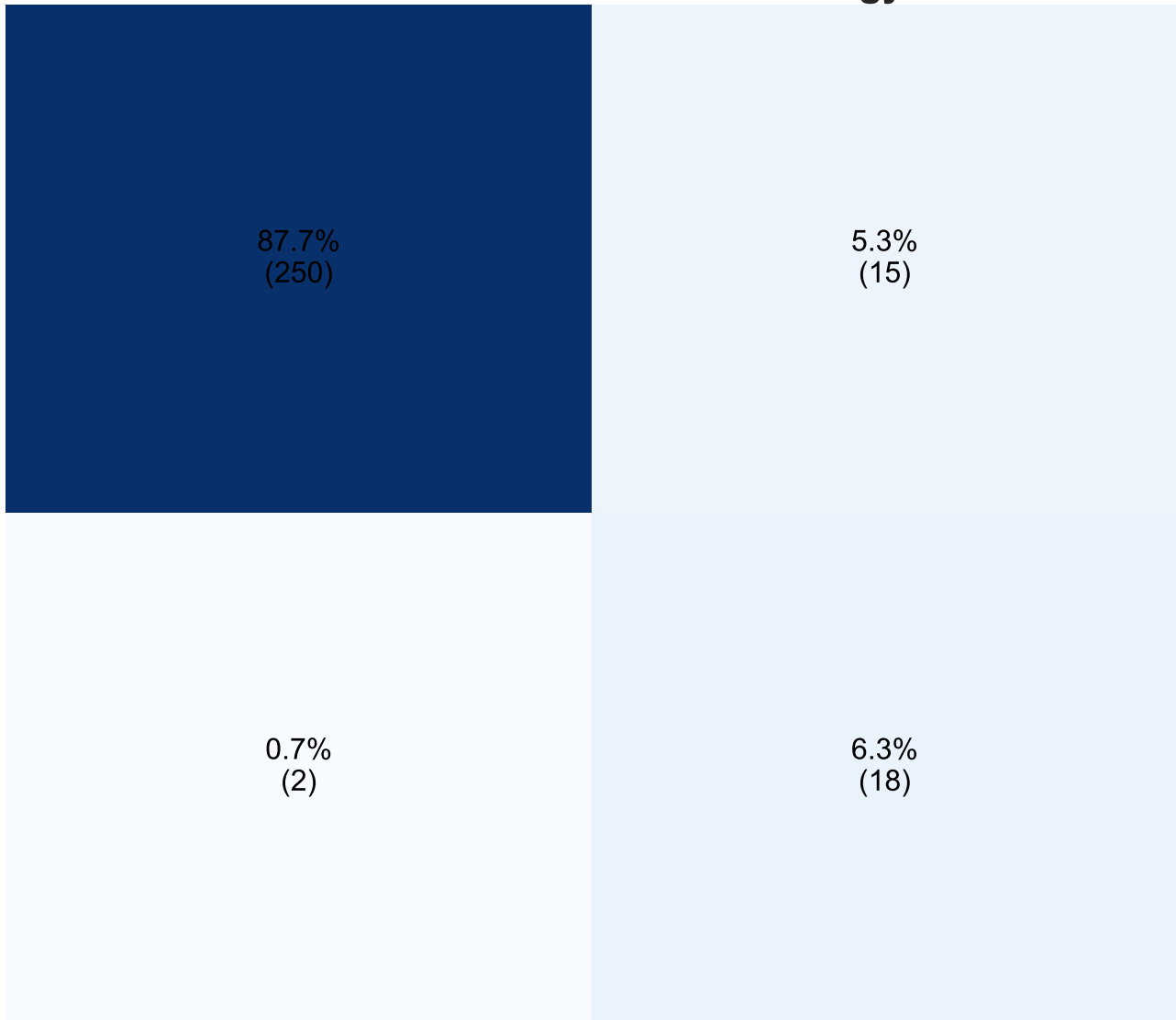
0.7%  
(2)

6.3%  
(18)

0

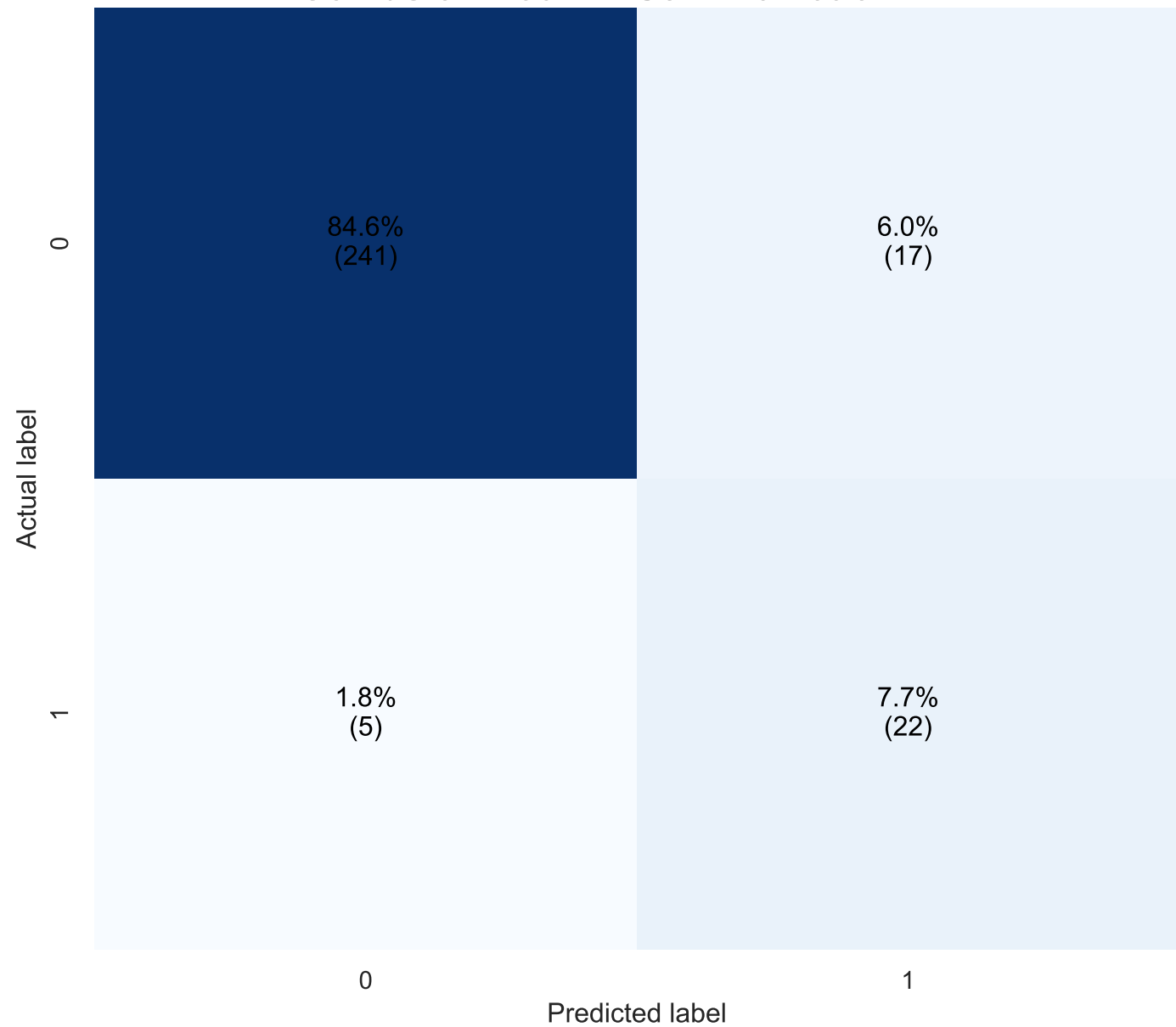
1

Predicted label





**Confusion Matrix – Self-Promotion**



# Confusion Matrix – Social Policy

Actual label

0

86.3%  
(246)

2.5%  
(7)

1

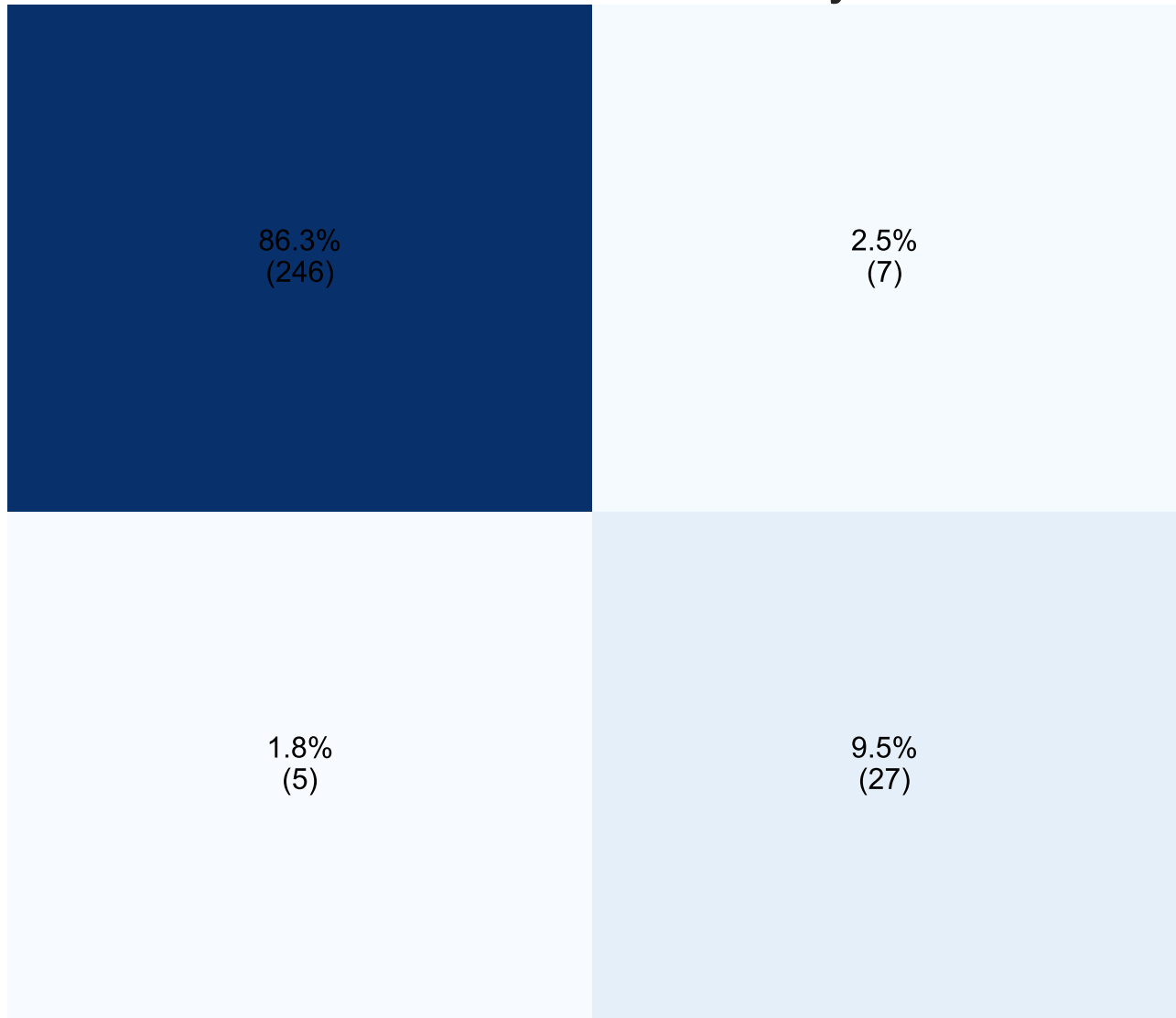
1.8%  
(5)

9.5%  
(27)

0

1

Predicted label



**Confusion Matrix – Taxation**

Actual label

0

93.7%  
(267)

0.7%  
(2)

1

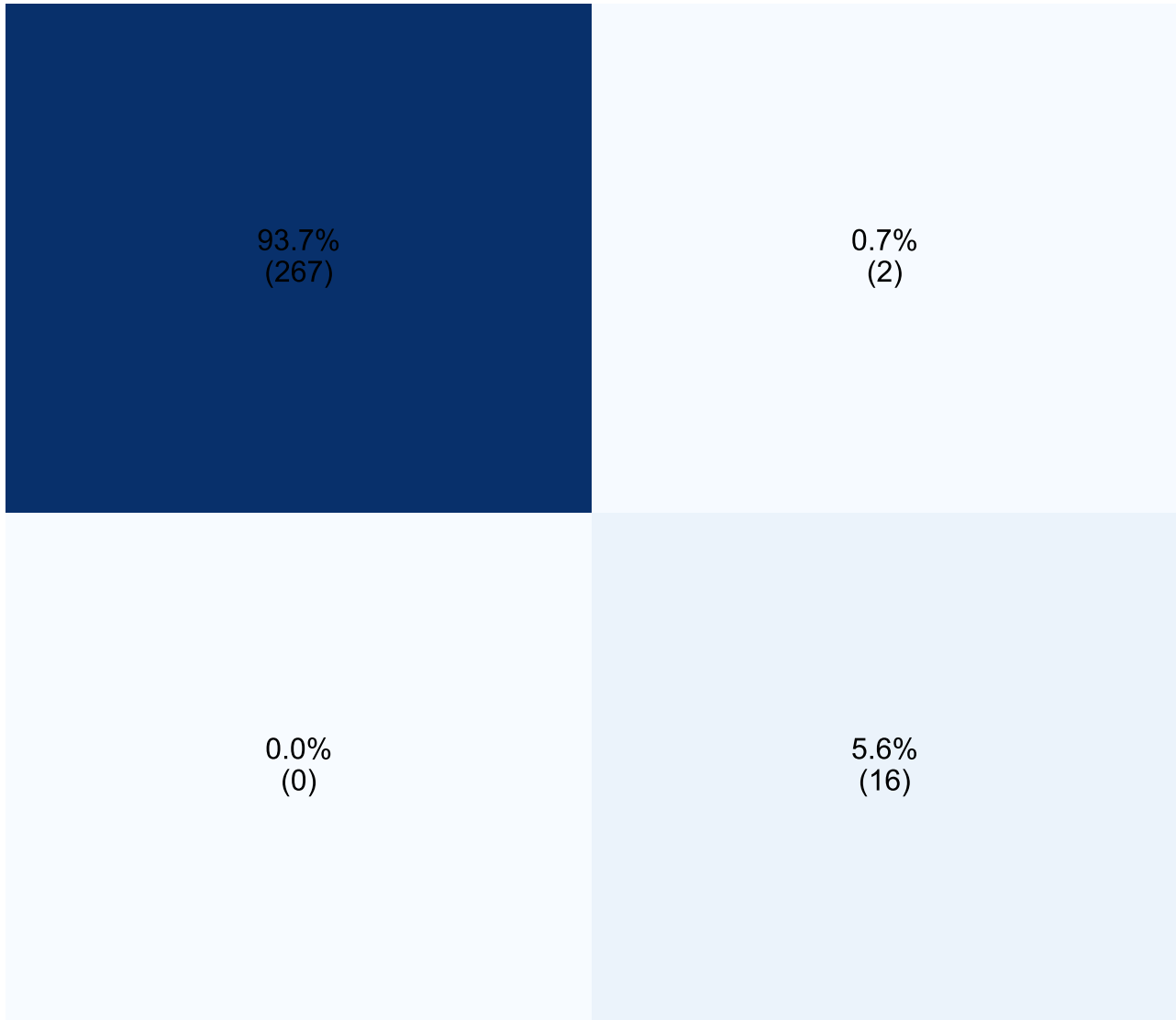
0.0%  
(0)

5.6%  
(16)

0

1

Predicted label



**Confusion Matrix – Traditional Energy**

Actual label

0

91.6%  
(261)

1.1%  
(3)

1

0.7%  
(2)

6.7%  
(19)

0

1

Predicted label

