## 0.1 Tree Graph

For the Tree graph, the Graph Generator used the following parameters:

- Type of graph: Tree
- Number of vertices: 20
- Number of edges: 19
- Random generator seed: 1615826088771

and the model took the following parameters:

- Total defence quota each turn: 1.0
- Probability with which the infection propagates: 1.0

### 0.1.1 Deterministic Protection Allocation

| Source node | Winning Strategy | Infections | Protections | End-Turn |
|---|---|---|---|---|
| 0 | Proximity | 1 | 19 | 21 |
| 1 | Proximity | 1 | 19 | 21 |
| 2 | Proximity | 1 | 19 | 27 |
| 2 | Degree | 1 | 19 | 27 |
| 3 | Proximity | 1 | 19 | 29 |
| 3 | Degree | 1 | 19 | 29 |
| 3 | Protection | 1 | 19 | 29 |
| 4 | Proximity | 1 | 19 | 27 |
| 4 | Degree | 1 | 19 | 27 |
| 5 | Proximity | 1 | 19 | 23 |
| 6 | Proximity | 1 | 19 | 25 |
| 7 | Proximity | 1 | 19 | 27 |
| 7 | Degree | 1 | 19 | 27 |
| 8 | Proximity | 1 | 19 | 29 |
| 8 | Protection | 1 | 19 | 29 |
| 9 | Proximity | 1 | 19 | 23 |
| 10 | Proximity | 1 | 19 | 29 |
| 10 | Protection | 1 | 19 | 29 |
| 11 | Proximity | 1 | 19 | 25 |
| 11 | Protection | 1 | 19 | 25 |
| 12 | Proximity | 1 | 19 | 23 |
| 13 | Proximity | 1 | 19 | 27 |
| 14 | Proximity | 1 | 19 | 27 |
| 14 | Degree | 1 | 19 | 27 |
| 15 | Proximity | 1 | 19 | 27 |
| 16 | Proximity | 1 | 19 | 27 |
| 16 | Degree | 1 | 19 | 27 |
| 17 | Proximity | 1 | 19 | 25 |
| 18 | Proximity | 1 | 19 | 23 |
| 19 | Proximity | 1 | 19 | 29 |
| 19 | Degree | 1 | 19 | 29 |
| 19 | Protection | 1 | 19 | 29 |

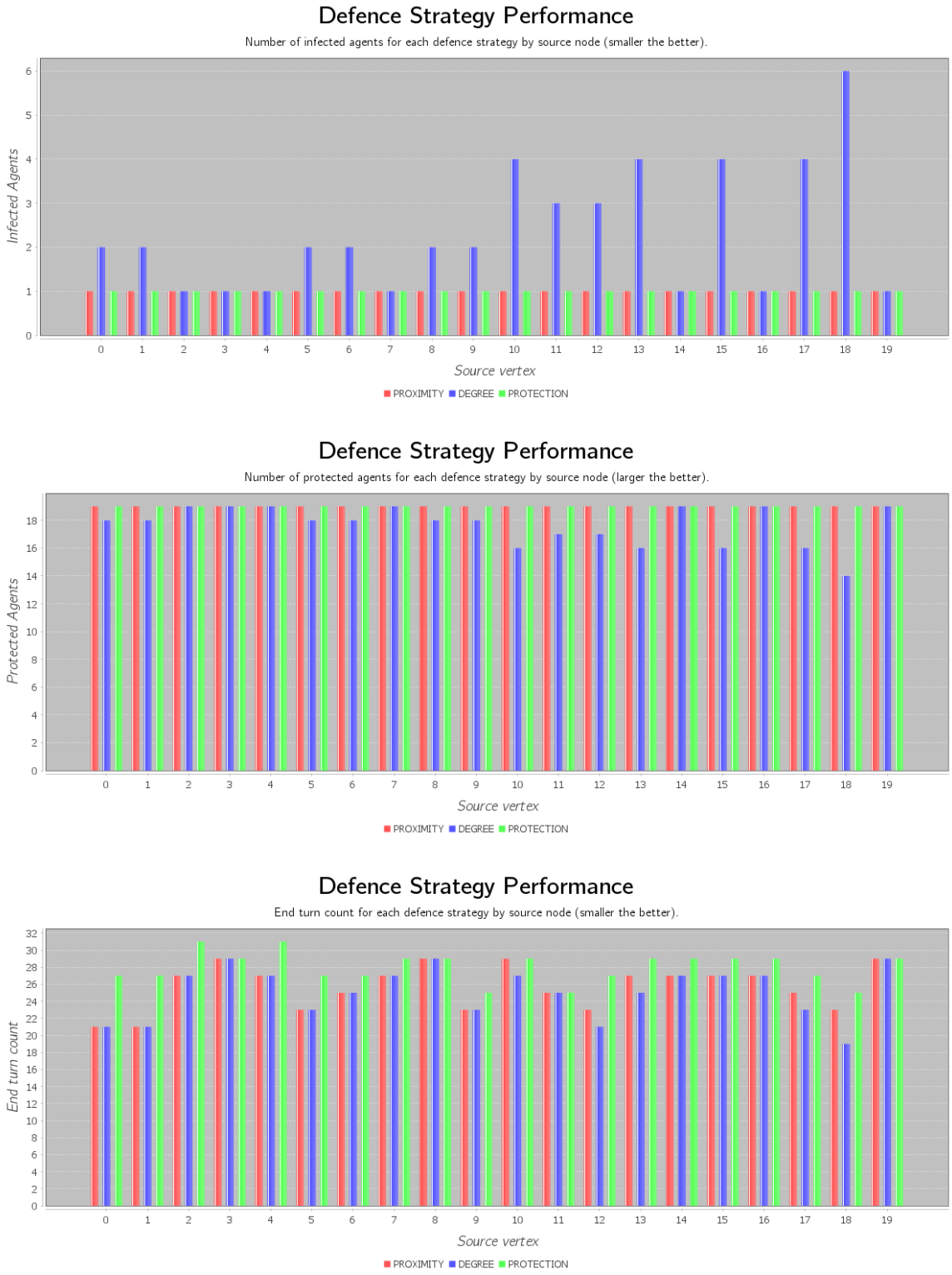


Figure 1: Model results on a Tree graph by source node for each defence strategy with deterministic initial protection allocation.

### 0.1.2 Mixed Protection Allocation

| Source node | Winning Strategy | Infections | Protections | End-Turn |
|---|---|---|---|---|
| 0 | Proximity | 1 | 19 | 3 |
| 0 | Protection | 1 | 19 | 3 |
| 1 | Proximity | 2 | 18 | 7 |
| 1 | Degree | 2 | 18 | 7 |
| 2 | Proximity | 1 | 19 | 7 |
| 2 | Degree | 1 | 19 | 7 |
| 2 | Protection | 1 | 19 | 7 |
| 3 | Proximity | 1 | 19 | 5 |
| 3 | Degree | 1 | 19 | 5 |
| 4 | Proximity | 1 | 19 | 5 |
| 4 | Degree | 1 | 19 | 5 |
| 5 | Degree | 2 | 18 | 5 |
| 5 | Protection | 2 | 18 | 5 |
| 6 | Proximity | 2 | 18 | 7 |
| 6 | Degree | 2 | 18 | 7 |
| 7 | Proximity | 1 | 19 | 5 |
| 7 | Degree | 1 | 19 | 5 |
| 7 | Protection | 1 | 19 | 5 |
| 8 | Proximity | 1 | 19 | 7 |
| 8 | Protection | 1 | 19 | 7 |
| 9 | Degree | 2 | 18 | 5 |
| 10 | Proximity | 1 | 19 | 3 |
| 10 | Degree | 1 | 19 | 3 |
| 11 | Protection | 2 | 18 | 5 |
| 12 | Protection | 2 | 18 | 5 |
| 13 | Proximity | 2 | 18 | 5 |
| 14 | Proximity | 1 | 19 | 7 |
| 14 | Degree | 1 | 19 | 7 |
| 14 | Protection | 1 | 19 | 7 |
| 15 | Protection | 2 | 18 | 3 |
| 16 | Proximity | 1 | 19 | 5 |
| 16 | Degree | 1 | 19 | 5 |
| 16 | Protection | 1 | 19 | 5 |
| 17 | Proximity | 1 | 19 | 7 |
| 18 | Proximity | 3 | 17 | 11 |
| 18 | Degree | 3 | 17 | 11 |
| 19 | Proximity | 1 | 19 | 3 |
| 19 | Degree | 1 | 19 | 3 |

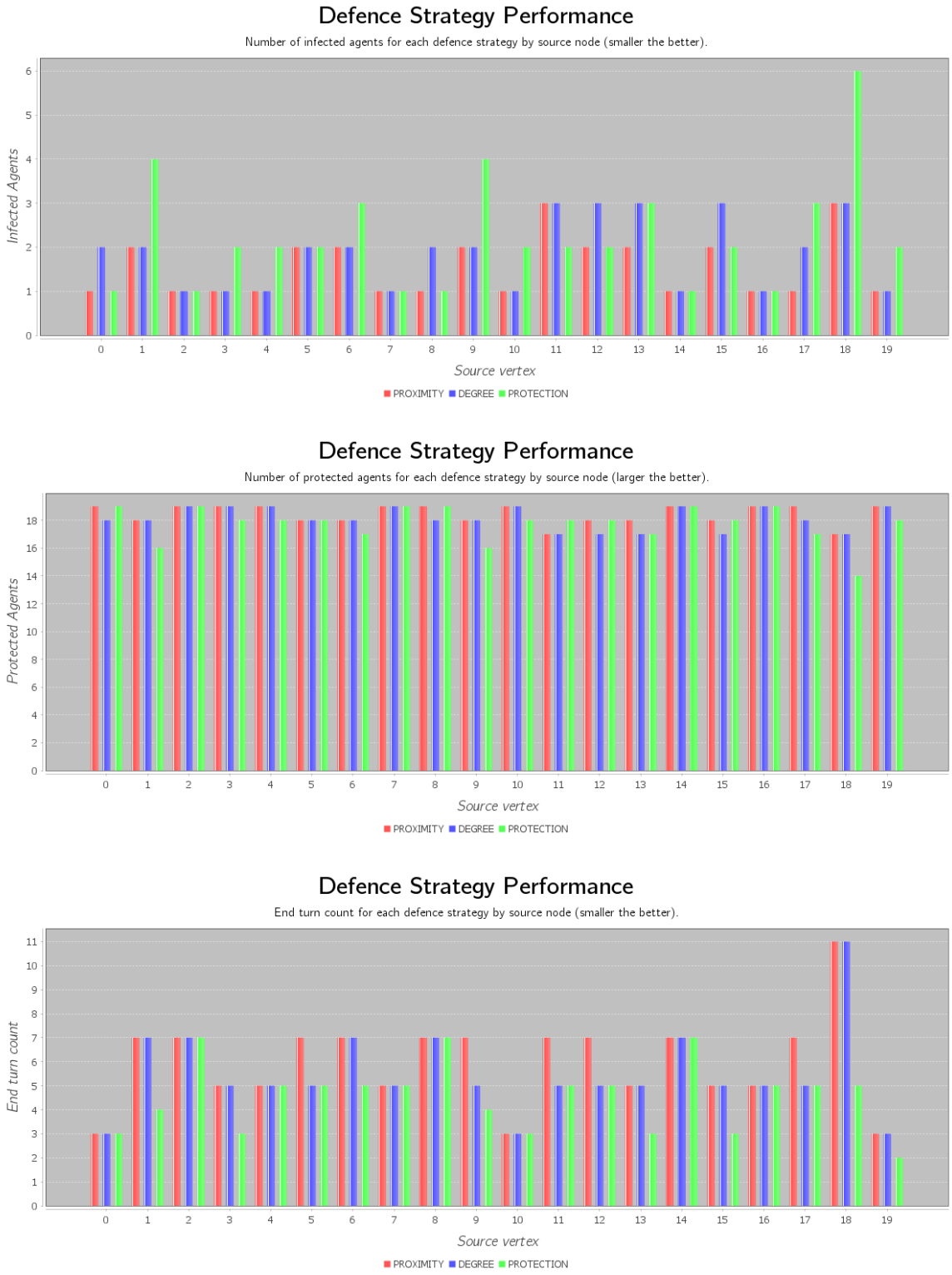


Figure 2: Model results on a Tree graph by source node for each defence strategy with mixed initial protection allocation.

### 0.1.3 Random Protection Allocation

| Source node | Winning Strategy | Infections | Protections | End-Turn |
|---|---|---|---|---|
| 0 | Proximity | 1 | 19 | 17 |
| 1 | Protection | 5 | 15 | 13 |
| 2 | Proximity | 1 | 19 | 17 |
| 2 | Degree | 1 | 19 | 17 |
| 2 | Protection | 1 | 19 | 17 |
| 3 | Proximity | 1 | 19 | 19 |
| 3 | Degree | 1 | 19 | 19 |
| 3 | Protection | 1 | 19 | 19 |
| 4 | Proximity | 1 | 19 | 19 |
| 4 | Degree | 1 | 19 | 19 |
| 5 | Degree | 2 | 18 | 11 |
| 5 | Protection | 2 | 18 | 11 |
| 6 | Proximity | 1 | 19 | 15 |
| 7 | Proximity | 1 | 19 | 17 |
| 7 | Degree | 1 | 19 | 17 |
| 7 | Protection | 1 | 19 | 17 |
| 8 | Proximity | 1 | 19 | 21 |
| 9 | Proximity | 3 | 17 | 19 |
| 10 | Proximity | 1 | 19 | 21 |
| 11 | Proximity | 2 | 18 | 21 |
| 12 | Proximity | 3 | 17 | 17 |
| 12 | Degree | 3 | 17 | 17 |
| 13 | Proximity | 2 | 18 | 19 |
| 14 | Proximity | 1 | 19 | 23 |
| 14 | Degree | 1 | 19 | 23 |
| 15 | Proximity | 2 | 18 | 21 |
| 16 | Proximity | 1 | 19 | 17 |
| 16 | Degree | 1 | 19 | 17 |
| 16 | Protection | 1 | 19 | 17 |
| 17 | Proximity | 1 | 19 | 17 |
| 18 | Protection | 4 | 16 | 13 |
| 19 | Proximity | 1 | 19 | 17 |
| 19 | Degree | 1 | 19 | 17 |

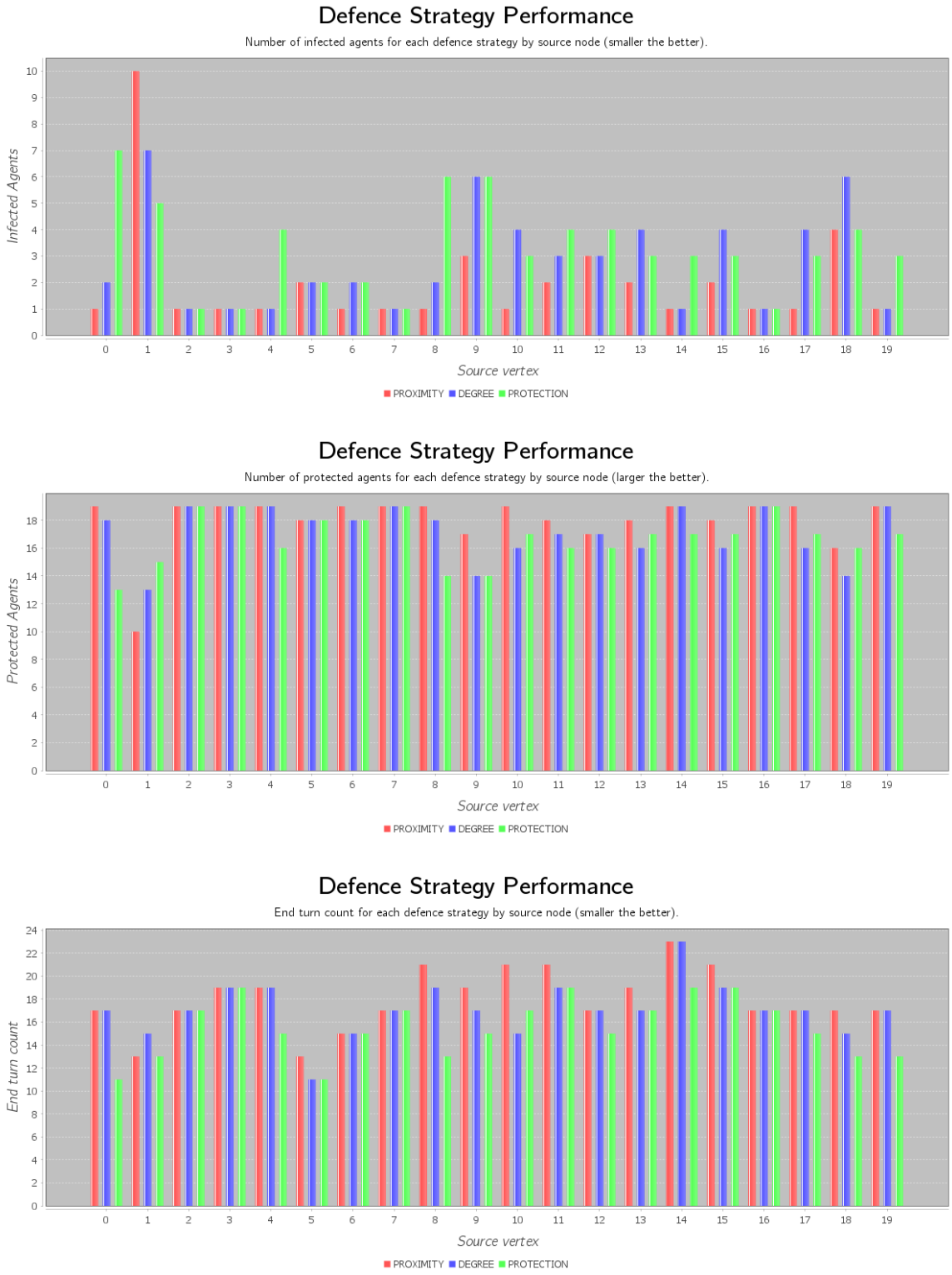


Figure 3: Model results on a Tree graph by source node for each defence strategy with random initial protection allocation.