**SUPPLEMENT 1**

Table S1. Confusion matrices created for random forest (RF) models of phosphorous content in the treatments for three studied species (sugar beet – in blue, celery – in green and strawberry – in red) at five stages of plant growth

|  |
| --- |
| I |
|  | **P-33** | **P-67** | **P-100** | **P-133** |
| P-33 | 60% | 100% | 80% | 40% | 0% | 0% | 0% | 0% | 20% | 0% | 0% | 0% |
| P-67 | 0% | 0% | 0% | 100% | 100% | 20% | 0% | 0% | 80% | 0% | 0% | 0% |
| P-100 | 0% | 0% | 0% | 40% | 0% | 20% | 60% | 100% | 80% | 0% | 0% | 0% |
| P-133 | 20% | 20% | 0% | 40% | 60% | 0% | 0% | 0% | 0% | 40% | 20% | 80% |
| II |
|  | **P-33** | **P-67** | **P-100** | **P-133** |
| P-33 | 80% | 40% | 100% | 0% | 40% | 0% | 20% | 20% | 0% | 0% | 0% | 0% |
| P-67 | 0% | 40% | 0% | 60% | 20% | 100% | 40% | 40% | 0% | 0% | 0% | 0% |
| P-100 | 0% | 20% | 0% | 20% | 20% | 20% | 80% | 60% | 80% | 0% | 0% | 0% |
| P-133 | 20% | 0% | 0% | 20% | 0% | 0% | 20% | 0% | 0% | 60% | 100% | 100% |
| III |
|  | **P-33** | **P-67** | **P-100** | **P-133** |
| P-33 | 100% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| P-67 | 0% | 0% | 0% | 60% | 100% | 100% | 40% | 0% | 0% | 0% | 0% | 0% |
| P-100 | 0% | 0% | 0% | 60% | 60% | 20% | 40% | 40% | 80% | 0% | 0% | 0% |
| P-133 | 0% | 0% | 0% | 0% | 0% | 0% | 20% | 20% | 0% | 80% | 80% | 100% |
| IV |
|  | **P-33** | **P-67** | **P-100** | **P-133** |
| P-33 | 80% | 80% | 100% | 0% | 20% | 0% | 0% | 0% | 0% | 20% | 0% | 0% |
| P-67 | 0% | 0% | 0% | 100% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% |
| P-100 | 0% | 0% | 0% | 0% | 0% | 0% | 60% | 80% | 100% | 40% | 20% | 0% |
| P-133 | 40% | 0% | 0% | 0% | 0% | 0% | 0% | 20% | 0% | 60% | 80% | 100% |
| V |
|  | **P-33** | **P-67** | **P-100** | **P-133** |
| P-33 | 80% | 80% | 80% | 0% | 20% | 20% | 20% | 0% | 0% | 0% | 0% | 0% |
| P-67 | 0% | 0% | 0% | 100% | 100% | 80% | 0% | 0% | 20% | 0% | 0% | 0% |
| P-100 | 0% | 0% | 0% | 20% | 0% | 20% | 80% | 100% | 80% | 0% | 0% | 0% |
| P-133 | 0% | 0% | 20% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 80% |