* Pratt Model

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| Parameter | Definition |
| N | Colony population. |
| p | Proportion of colony population of consisting of active ants. |
| λ | Rate of recruitment via tandem runs, per ant. |
| φi | Rate of recruitment via transports, per ant at site i. |
| μ | Rate of discovery of new sites, per ant, per site. |
| k1 | Probability per min that an assessor at site 1 begins to recruit. |
| k2 | Probability per min that an assessor at site 2 begins to recruit. |
| p12 | Rate of switching allegiance from site 1 to site 2 per ant. |
| c | Time to move an item from site 1 to site 2 after old nest is empty. |
| M | The number of sites of varying quality |
| P0 | The number of passive items remaining in the old nest. |
| T | recruiters |

* Planqué Model

|  |  |
| --- | --- |
| Parameter | Definition |
| N | Colony population. |
| F | Fraction of active ants. |
| Q | Colony quorum Threshold. |
| f | Fraction of post-quorum reverse tandem running time. |
| φ | Rate at which passive ants are carried to a new nest. |
| μ | Rate of discovery of new sites, per ant, per site. |
| λ | Rate at which ants following tandem runs become recruiters. |
| A | The number of active ants in the old nest. |
| S | The number of scouting ants in the old nest. |
| R | The number of recruiting ants in the old nest. |
| P | The number of passive ants in the old nest. |
| C | The number of carried ants in the old nest. |

* Nutonian Eureqa

