|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Instancia com J | X variables | Y variables | Demmand | Prod\_equals\_transp | Meterial | Capacity | Objecttive func | Time Ejecution (seconds) |
| 100 | 4060 | 81200 | 700 | 812 | 580 | 580 | 1254910.0 | 1.22 |
| 200 | 9765 | 279000 | 1000 | 1395 | 1395 | 1953 | 1793768.0 | 3.66 |
| 300 | 39830 | 1707000 | 3000 | 5690 | 4552 | 3983 | 5409044.0 | 19.77 |
| 400 | 20610 | 916000 | 2000 | 2290 | 4122 | 4122 | 3593297.0 | 11.82 |
| 500 | 44750 | 2237500 | 2500 | 4475 | 6265 | 8950 | 4504440.0 | 29.56 |
| 600 | 26796 | 2296800 | 3600 | 3828 | 3828 | 4466 | 6438896.0 | 30.08 |
| 700 | 70488 | 5482400 | 5600 | 7832 | 5874 | 8811 | 10044034.0 | 139.15 |
| 800 | 104184 | 10418400 | 7200 | 13023 | 14470 | 11576 | 12993386.0 | 412.42 |
| 900 | 45720 | 8229600 | 5400 | 9144 | 10668 | 7620 | 9711961.0 | 490.7 |
| 1000 | 46160 | 9232000 | 8000 | 9232 | 5770 | 5770 | 14290822.0 | 475.86 |

Conclusion: