

Name :

Screeps Game

Date:

Documentation

Calculations

Economic Calculations

Profitability of resource stations

- ProfitRate = Income/Costs
 - Income = rechargeRate (3000/300 = 10/tiks)
 - Costs = (MinerCost*amountOfMiners + CarryCost*amountOfCarries)/LifeTime
 - amountOfMiners = rechargeRate/(MiningSpeed * miningEfficance)
 - miningEfficance = (LifeTime - timeSpentOnMoving)/LifeTime
 - TimeSpentOnMoving = (resourceDistance/moveSpeed)
 - amountOfCarry = rechargeRate/averageCarringCapacityPerTikcs
 - AverageCarringCapacity = Capacity / timeSpentOnRounds
 - TimeSpentOnRounds = sourceDistance*2/MovingSpeed

Millitary calculations

Some kind of subcalculations

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