**Table S2: Performance criteria associated with three agent-level behavioral patterns used to implement the genetic algorithm.**

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| --- | --- | --- | --- |
| **Criteria** | **Threshold Value** | **Description** | **Source** |
| Normal Surplus | < 25% food surplus, at least 90% of time steps | Little or no surplus due to minimization of risk of and labor in agricultural production. | [18] |
| Minimum Aspiration Level | >= 90% of agents earn income >= farm costs (subsistence) or farm wage (market) | Income sufficient to support on-farm activities, or subjective income requirement. | [18] |
| Variance in Consumption | Coefficient of variation of consumption < 25% at least 90% of time steps | Livelihood diversification supports "consumption smoothing" between harvests. | [19] |