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| **Table S2 SEM information collected from public literature and farmer interview.** |
| **Node** | **Node Name** | **Units** | **Source** |
| OtoD | distance from oasis to desert | km. | farmer interview |
| OtoM | distance from oasis to mountain | km. | farmer interview |
| SPD | soil particle diameter | μm | public literature |
| CT | crop type | (e.g. maize) | farmer interview |
| CL | class of livestock | (e.g. sheep) | farmer interview |
| WUE | water use efficiency | MJ/m3 | public literature |
| NI | net income | 1,000¥/farm | farmer interview |
| EB | energy balances | GJ/farm | calculated |
| CB | carbon balances | kg CO2-eq/farm | calculated |