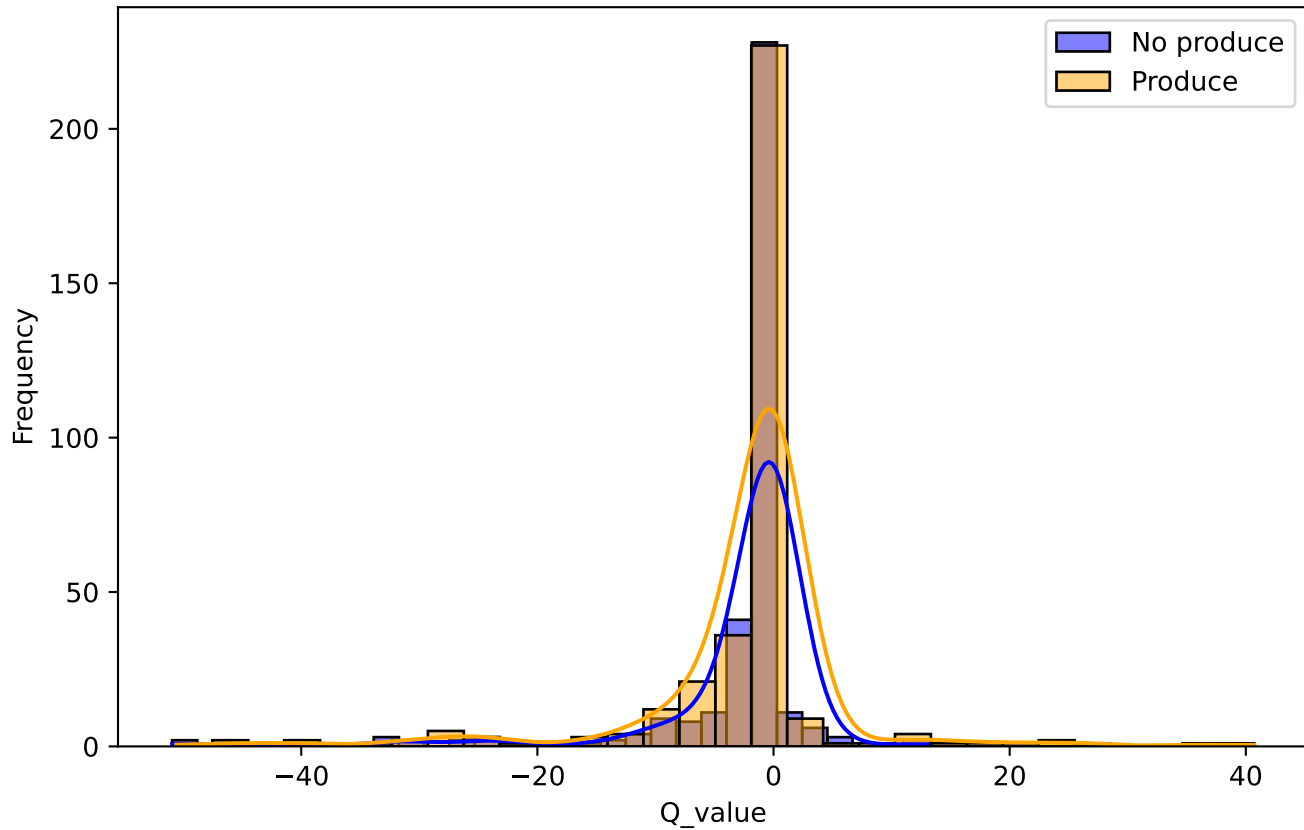
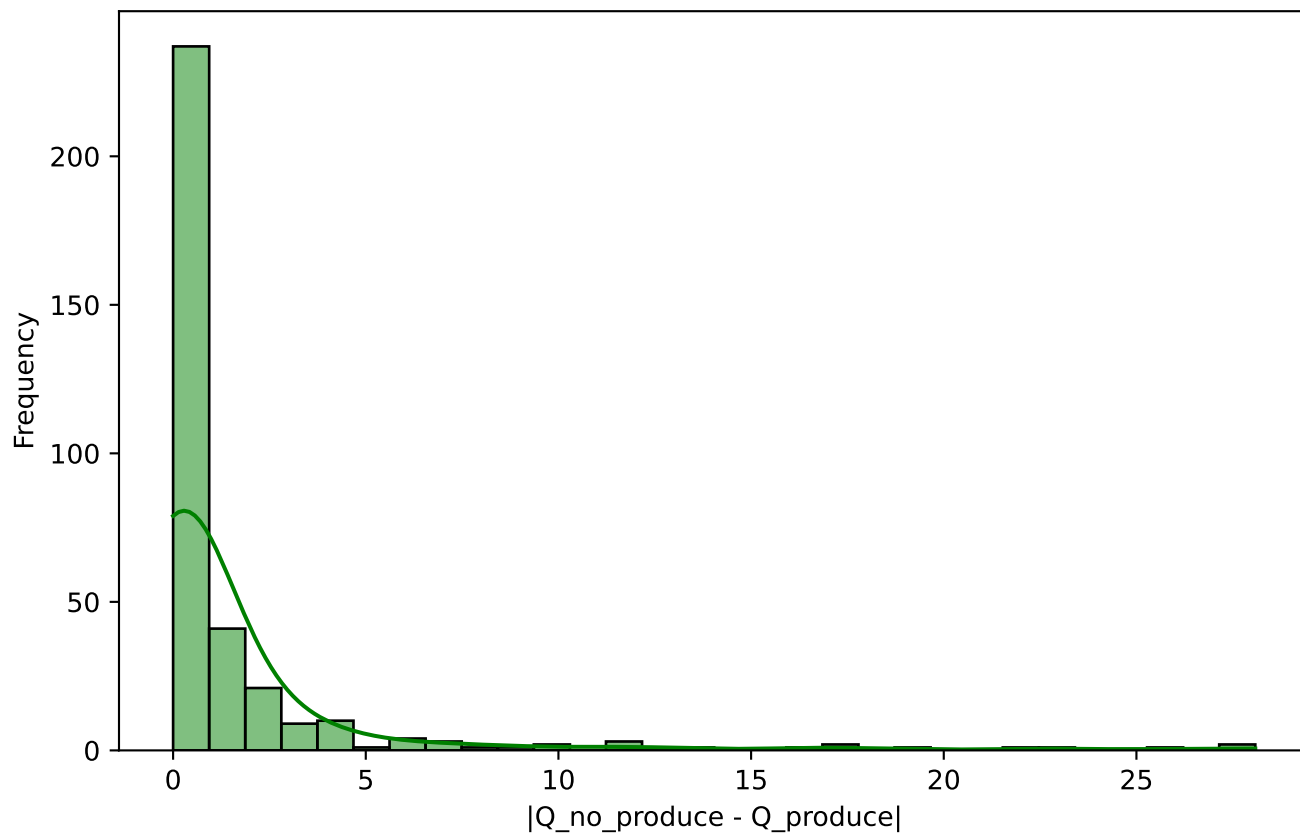


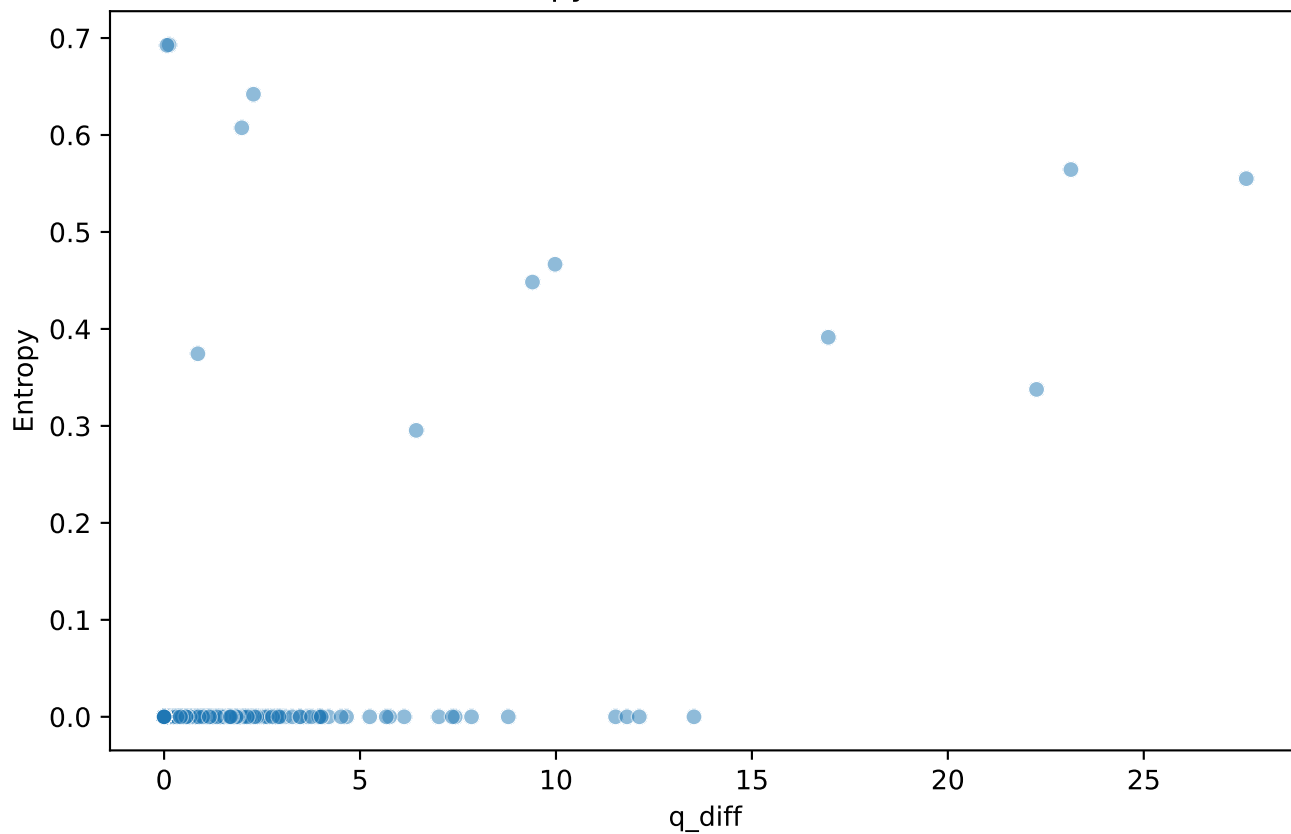
Q-value Distribution by Action



Absolute Difference between Q-values



Entropy vs Q-value Difference



Conclusions from the solar agent Q-table analysis:

1. Most states have a clearly preferred action.
2. Q-values are symmetrically distributed between actions.
3. Some states exhibit ambiguous behavior based on entropy analysis.
4. Several states have Q-value differences below 0.01, indicating indecision.
5. Training coverage was analyzed using $Q \neq 0$ as indicator.
6. Evaluating and possibly refining state discretization or exploration policy is advised.

Recommendations:

- Improve reward function to reduce ambiguity.
- Review state discretization granularity.
- Adjust ϵ -greedy strategy to emphasize underexplored or ambiguous states.
- Investigate whether untrained states are simply unexplored.