

# Eggs and greenhouse gas emissions

The gross value of the WA egg industry was estimated at about \$67 million in 2021-22.

It is the second-lowest emitter of WA agriculture emissions, after horticulture.

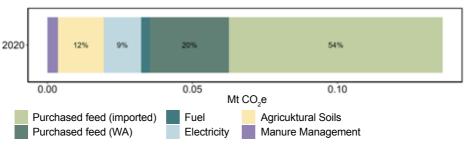


### 2020 egg industry snapshot

Total emissions from the egg industry were 0.14 Mt CO<sub>2</sub>e in 2020.

The industry is highly exposed to indirect emissions from feed production, with about 74% of total emissions attributed to purchased feed (imported soybean and milled WA grain products).

Agricultural soils, electricity use, manure management, and fuel use contribute smaller volumes of emissions.



Estimated emissions from the WA egg industry by source in 2020.

### Mitigation challenges

The growing trend towards free-range egg production may increase emissions due to nitrous oxide emissions from deposited manure. Direct on-farm emissions are only a small fraction of the total greenhouse gas footprint. Encouraging producers to reduce imported feed sources with Australian grains to improve feed conversion efficiency.

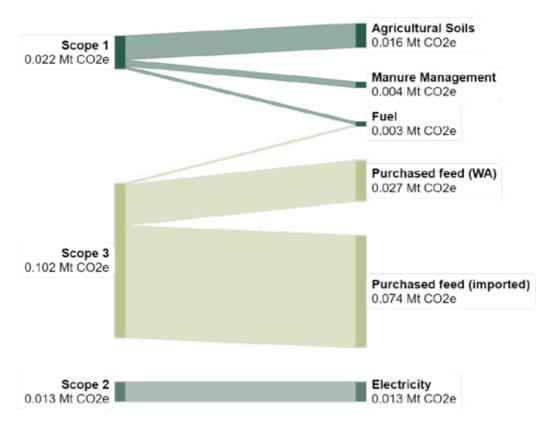
### **Egg industry emission sources**

Emissions are classified as Scope 1,2 and 3. This separation aids in identifying the source of emissions.

**Scope 1:** All emissions on-farm from egg production.

**Scope 2:** Emissions from electricity.

**Scope 3:** Emissions associated with producing inputs, both pre-farm and post-farm.



2020 estimated emissions from the egg industry \*Only pre-farm scope 3 emissions are included here.

## Egg emission research priorities

- Reducing manure storage emissions
- Researching emissions from manure applied to pastures and crops to better inform the National Inventory and industry calculations
- Identifying alternative feed sources.

# Ways to reduce emissions from eggs:

- for more efficient growth
- Replace imported feed sources with local grains
- Adopt new precision technologies
- Improve manure management and methane capture

- Breed and manage chickens Invest in on-farm renewable energy
  - Electrify machinery as WA's electricity grid decarbonises
  - Improve land management to enhance carbon storage on-farm.

Developing knowledge of carbon accounting supports achieving reductions.

### More information

Subscribe to the Climate Resilience mailing list for updates on climate news, emissions and events.



# Future proofing regional WA

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