**SUPPLEMENTARY MATERIAL**

Full search strategy implemented in August 2024

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| **Web of Science Core Collection (729 results)** |
| TS=(pig\* OR swine$ OR sow$ OR boar$ OR Sus scrofa) AND TS=(Transport\* OR truck$ OR trailer$ OR haul$) AND TS=(stress\* OR welfare OR meat qualit\* OR cortisol OR loss\*) AND TS=(thermal environment$ OR temperature$ OR air velocit\* OR enthalpy OR THI OR temperature humidity ind\* OR microclimate$) |
| **CAB Abstracts (785 results)** |
| TS=(pig\* OR swine$ OR sow$ OR boar$ OR Sus scrofa) AND TS=(Transport\* OR truck$ OR trailer$ OR haul$) AND TS=(stress\* OR welfare OR meat qualit\* OR cortisol OR loss\*) AND TS=(thermal environment$ OR temperature$ OR air velocit\* OR enthalpy OR THI OR temperature humidity ind\* OR microclimate$) |
| **PubMed (283 results)** |
| 1. ((Sus scrofa[MeSH Terms] OR pigs[MeSH Terms] OR pig[tiab] OR pigs[tiab] OR piglet[tiab] OR piglets[tiab] OR swine[tiab] OR sows[tiab] OR boars[tiab]) 2. (Animal Transportation[MeSH Terms] OR transport\*[tiab] OR truck\*[tiab] OR trailer\*[tiab] OR haul\*[tiab]) 3. (Stress, Physiological[MeSH Terms] OR Animal Welfare[MeSH Terms] OR stress\*[tiab] OR welfare[tiab] OR "meat quality"[tiab] OR cortisol[tiab] OR loss\*[tiab]) 4. (Temperature[MeSH Terms] OR Environment[MeSH Terms] OR Humidity[MeSH Terms] OR temperature\*[tiab] OR "thermal environment"[tiab] OR "air velocity"[tiab] OR enthalpy[tiab] OR "temperature humidity index"[tiab] OR microclimate\*[tiab])) 5. 1 AND 2 AND 3 AND 4 |