

drone grub could not be converted into a queen, for they sealed up the grubs and waited patiently the time for their hatching. The young drones never hatched, but shrivelled in the cells, which would lead to the conclusion that the food suitable for a young queen is not adapted to bring a drone to perfection.—*From the Transactions of the Berwickshire Naturalists' Club*, vol. ii. p. 205.

# METEOROLOGICAL OBSERVATIONS FOR FEB. 1848.

*Chiswick*.—February 1, 2. Clear and fine. 3. Cloudy. 4. Overcast : rain. 5. Densely overcast : heavy rain at night. 6. Overcast and mild. 7. Densely overcast : rain. 8. Cloudy and fine. 9. Cloudy : boisterous : clear. 10. Very fine : heavy rain at night. 11, 12. Very fine. 13. Overcast. 14. Rain. 15. Densely overcast : rain. 16. Frosty : clear and fine. 17. Clear : cloudy and fine. 18. Fine. 19. Rain : hazy and damp. 20. Foggy : cloudy : clear. 21. Overcast : rain. 22. Rain. 23. Heavy clouds : fine. 24. Densely overcast : rain. 25. Rain : showery. 26. Barometer most remarkably low : boisterous, with heavy rain. 27. Heavy rain : clear and boisterous at night. 28. Fine : clear. 29. Very clear : boisterous, with rain at night.

Mean temperature of the month ..... 39°·62  
Mean temperature of Feb. 1847 ..... 34·79  
Mean temperature of Feb. for the last twenty years ..... 39·32  
Average amount of rain in Feb. .... 1·95 inch.

*Boston*.—Feb. 1, 2. Fine. 3. Cloudy. 4. Rain. 5. Cloudy : rain P.M. 6. Rain. 7. Cloudy. 8. Cloudy : rain P.M. 9. Cloudy : rain early A.M. : rain A.M. 10—13. Fine. 14. Rain : rain P.M. 15. Cloudy : rain early A.M. 16—18. Fine. 19. Cloudy : snow early A.M. 20. Rain. 21. Fine : rain P.M. 22. Cloudy : rain P.M. 23. Fine : rain P.M. 24. Cloudy : rain P.M. 25. Fine. 26. Fine : rain early A.M. 27. Cloudy : rain early A.M. : rain A.M. 28. Cloudy. 29. Fine.

*Applegarth Manse, Dumfries-shire*.—Feb. 1. Hard frost A.M. : thaw and rain P.M. 2. Thaw : threatening frost again. 3. Thaw : rain : high wind. 4. Heavy rain : snow gone. 5. Heavy rain : floods. 6. Moist A.M. : showery P.M. 7. Thick fog ending in rain. 8. Heavy rain all day. 9. Rain A.M. : cleared : rain P.M. 10. Slight showers. 11. Very fine spring day. 12. Dull morning : wet P.M. 13. Heavy rain and high winds. 14. Fair, but threatening change. 15. Rain all day. 16. Frost : a shower of snow. 17. Hard frost : hills white : snow. 18. Hard frost : rain P.M. 19. Showery. 20. Beautiful day : slight frost A.M. 21. Raw frost A.M. : moist. 22. Storm of rain and wind : flood. 23. Stormy day : violent showers. 24. Snow for two hours : heavy rain. 25. Fair and milder. 26. Fair A.M. : drizzle P.M. 27. Heavy rain all day. 28. Heavy rain : thunder. 29. Showers : hail.

Mean temperature of the month ..... 40°·1  
Mean temperature of Feb. 1847 ..... 36·2  
Mean temperature of Feb. for twenty-five years ..... 37·3  
Rain ..... 5·53 inches.  
Mean rain in Feb. for twenty years ..... 2·04 „

*Sandwick Manse, Orkney*.—Feb. 1. Snow showers : cloudy. 2. Frost : clear. 3. Cloudy : showers. 4. Rain : damp. 5. Snow-drift : snow. 6. Snow : cloudy. 7. Rain. 8. Bright : showers. 9. Cloudy : damp. 10. Rain : cloudy. 11. Bright : cloudy. 12. Rain : showers. 13. Showers. 14. Showers : clear. 15. Damp : rain. 16, 17. Bright : frost. 18. Sleet : rain. 19. Sleet-showers : showers. 20. Bright : snow-shower. 21. Snow : red aurora. 22, 23. Cloudy : rain : aurora. 24. Bright : frost : fine : aurora. 25. Showers. 26. Cloudy : showers. 27. Showers : rain. 28. Damp : rain. 29. Clear : cloudy.

The following are the averages for Dec. 1847, with which we have been favoured by our correspondent the Rev. Ch. Clouston of Sandwick Manse, whose usual report miscarried owing to the stormy weather which then prevailed :—

Barometer.		Thermometer.		Rain
A.M.	P.M.	A.M.	P.M.	in inches.
29·597	29·595	39·93	40·66	5·24





1848. "Meteorological observations for Feb. 1848." *The Annals and magazine of natural history; zoology, botany, and geology* 1, 319–319.

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