

The Food Supply Changes Day to Day

Samples of cuttings from White Sim were taken at 8 am and 5 pm each day from Jan. 26 to Jan. 30, 1953. Other determinations of stored food were made from March 30 to April 15. A graph of the dry weight percentages in White Sim cuttings during the late January period is shown in Fig. 1, along with average daily light intensities. There was a definite downward trend in stored food during this period of low average light intensity. January 27 was the only clear day, the others being partially cloudy. The percentage of dry weight decreased from 12.25 to 11.95 during the 5-day period. In other words, the plants used more food

than they manufactured. The opposite trend can be expected during a sunny period with favorable temperature. Dry weight was always appreciably higher during the afternoon than in the morning.

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