

Daily Activity of Wild Bee Pollinators on Strawberry in Highland Agriculture, Eastern Slope of Mount Slamet, Central Java

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Abstract	<p>Wild bees have a vital role in complementing social bee pollination in an agricultural landscape. Pollination effectiveness of wild bee depends on the daily activity of individual bees visiting flowers. This research aimed to understand the activity of wild bees visiting and pollinating flowers of strawberry. A survey has been done from April to July 2018 using scan sampling in 30 plants of strawberry. The results showed that strawberry flowers were visited by five bee species (<i>Nomia melanderi</i>, <i>Campsomeris fasciata</i>, <i>Ceratina dupla</i>, <i>Amegilla zonata</i>, and <i>Lasioglossum malachurum</i>). The daily activity of wild bee showed significant differences between species ($p < 0,05$), but all species have the same pattern of pollination activity. The highest activity found between 9.00 and 12.00 pm and tended to decrease at the end of the day. The activity of wild bees to visiting flowers affected by daily temperature ($r = 0,86$). The conclusion was that wild bee species are highly competitive in food resources at midday. Some species showed ecological separation throughout the day. This research found that wild bee species have an important contribution to cash crop pollination in the agriculture area.</p>
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