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LAMPIRAN

Tabel Lampiran 1. Rata-rata populasi larva *S. frugiperda* pada plot perlakuan (P)

| Perlakuan <i>B. bassiana</i> 10⁸ | | | | | |
|--|----------|----------|----------|----------|----------|
| Pengamatan | 1 | 2 | 3 | 4 | 5 |
| 1 | 1 | 0.2 | 0.9 | 0.5 | 1.6 |
| 2 | 1.4 | 1.4 | 2 | 1.2 | 1.8 |
| 3 | 1.6 | 1 | 2.1 | 1.3 | 1.1 |
| 4 | 1.2 | 0.7 | 2.4 | 1.1 | 2.4 |
| 5 | 0.8 | 0.4 | 1.3 | 0.8 | 0.8 |
| 6 | 0.9 | 0.7 | 1 | 0.3 | 0.7 |
| 7 | 0.5 | 1 | 1 | 0.4 | 0.7 |
| 8 | 0.4 | 0.7 | 0.7 | 0.3 | 0.8 |
| 9 | 0.4 | 0.6 | 0.6 | 0.2 | 0.6 |
| 10 | 0.4 | 0.4 | 0.3 | 0.3 | 0.5 |
| 11 | 0.4 | 0.3 | 0.4 | 0.3 | 0.5 |

Tabel Lampiran 2. Rata-rata populasi larva *S. frugiperda* pada plot kontrol (K)

| Kontrol | | | | | |
|-------------------|----------|----------|----------|----------|----------|
| Pengamatan | 1 | 2 | 3 | 4 | 5 |
| 1 | 0.1 | 1 | 0.9 | 0 | 0.1 |
| 2 | 0.5 | 1.5 | 1 | 0.6 | 0.3 |
| 3 | 0.5 | 1.3 | 0.9 | 1.3 | 0.4 |
| 4 | 0.6 | 1.5 | 1 | 1.3 | 1.3 |
| 5 | 0.4 | 1.6 | 0.8 | 1.2 | 1.2 |
| 6 | 0.5 | 1.4 | 0.7 | 1 | 1.1 |
| 7 | 0.5 | 1 | 0.7 | 1 | 0.8 |
| 8 | 0.8 | 0.9 | 0.8 | 0.6 | 1 |
| 9 | 0.7 | 0.6 | 0.7 | 0.7 | 0.6 |
| 10 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 |
| 11 | 0.5 | 0.9 | 0.9 | 0.4 | 0.6 |

Tabel Lampiran 3. Tabel lampiran 3. Rata-rata intensitas serangan *S. frugiperda* pada plot perlakuan (P)

| Perlakuan <i>B. bassiana</i> (P) | | | | | |
|---|----------|----------|----------|----------|----------|
| | 1 | 2 | 3 | 4 | 5 |
| 1 | 2.299 | 1.111 | 3.113 | 5.427 | 5.156 |
| 2 | 7.528 | 5.012 | 12.466 | 16.193 | 14.207 |
| 3 | 21.103 | 12.566 | 21.978 | 18.892 | 27.152 |
| 4 | 26.268 | 18.751 | 35.522 | 24.57 | 31.455 |
| 5 | 22.529 | 5.724 | 23.267 | 18.178 | 23.72 |
| 6 | 22.96 | 9.872 | 24.843 | 10.12 | 13.209 |
| 7 | 16.646 | 12.28 | 17.268 | 7.513 | 17.396 |
| 8 | 6.013 | 14.01178 | 10.778 | 4.647 | 10.149 |
| 9 | 9.798 | 11.647 | 10.383 | 4.173 | 5.146 |
| 10 | 6.189 | 7.508 | 6.692 | 3.752 | 4.198 |
| 11 | 5.581 | 5.914 | 6.906288 | 3.851 | 3.641 |

Tabel Lampiran 4. Rata-rata intensitas serangan *S. frugiperda* pada plot kontrol (K)

| Kontrol (K) | | | | | |
|--------------------|----------|----------|----------|----------|----------|
| | 1 | 2 | 3 | 4 | 5 |
| 1 | 0.871 | 1.876 | 2.724868 | 0 | 0.185185 |
| 2 | 2.916 | 11.376 | 8.392857 | 1.289683 | 1.481481 |
| 3 | 7.303 | 17.624 | 15.79409 | 8.342152 | 7.089947 |
| 4 | 7.461 | 21.15 | 26.78042 | 8.910935 | 18.68254 |
| 5 | 5.794 | 14.78924 | 10.59091 | 20.52778 | 15.21252 |
| 6 | 8.275 | 20.25365 | 9.129229 | 16.50281 | 18.67284 |
| 7 | 7.228 | 22.16835 | 8.049944 | 10.79099 | 12.71916 |
| 8 | 7.091 | 19.2862 | 10.08492 | 8.46916 | 12.65126 |
| 9 | 7.326 | 15.36027 | 10.33347 | 5.654235 | 4.742424 |
| 10 | 5.726958 | 8.752266 | 6.306872 | 3.927674 | 4.406075 |
| 11 | 5.409 | 6.464461 | 16.22789 | 4.270988 | 7.447645 |

Tabel Lampiran 5. Paired Samples Statistics Uji T Populasi Larva *S. frugiperda*

| | | Mean | N | Std. Deviation | Std. Error Mean |
|--------|------------------------|-------|----|----------------|-----------------|
| Pair 1 | <i>B. bassiana</i> (P) | .8600 | 55 | .54961 | .07411 |
| | Kontrol (K) | .7818 | 55 | .36973 | .04985 |

Tabel Lampiran 6. Paired Samples Correlations Uji T Populasi Larva *S. frugiperda*

| | | N | Correlation | Sig. |
|--------|--------------------------------------|----|-------------|------|
| Pair 1 | <i>B. bassiana</i> (P) & Kontrol (K) | 55 | .127 | .357 |

Tabel Lampiran 7. Paired Samples Statistics Uji T Subplot Populasi Larva *S. frugiperda*

| | | Mean | N | Std. Deviation | Std. Error Mean |
|--------|----|--------|----|----------------|-----------------|
| Pair 1 | P1 | .8182 | 11 | .44004 | .13268 |
| | K1 | .5000 | 11 | .17889 | .05394 |
| Pair 2 | P2 | .6727 | 11 | .35522 | .10710 |
| | K2 | 11.000 | 11 | .39243 | .11832 |
| Pair 3 | P3 | 11.545 | 11 | .71465 | .21548 |
| | K3 | .8091 | 11 | .15136 | .04564 |
| Pair 4 | P4 | .6091 | 11 | .41341 | .12465 |
| | K4 | .7818 | 11 | .41429 | .12491 |
| Pair 5 | P5 | 10.455 | 11 | .62187 | .18750 |
| | K5 | .7182 | 11 | .39196 | .11818 |

Tabel Lampiran 8. Paired Samples Correlations Uji T Subplot Populasi Larva *S. frugiperda*

| | | N | Correlation | Sig. |
|--------|---------|----|-------------|------|
| Pair 1 | P1 & K1 | 11 | -.254 | .451 |
| Pair 2 | P2 & K2 | 11 | .395 | .230 |
| Pair 3 | P3 & K3 | 11 | .698 | .017 |
| Pair 4 | P4 & K4 | 11 | .497 | .120 |
| Pair 5 | P5 & K5 | 11 | .000 | .999 |

Tabel Lampiran 9. Paired Samples Statistics Uji T Intensitas Serangan *S. frugiperda*

| | | Mean | N | Std. Deviation | Std. Error Mean |
|--------|------------------------|---------|----|----------------|-----------------|
| Pair 1 | <i>B. bassiana</i> (P) | 12.1388 | 55 | 5.11178 | .68927 |
| | Kontrol (K) | 8.7465 | 55 | 4.74362 | .63963 |

Tabel Lampiran 10. Paired Samples Correlations T Uji Intensitas Serangan *S. frugiperda*

| | | N | Correlation | Sig. |
|--------|--------------------------------------|----|-------------|------|
| Pair 1 | <i>B. bassiana</i> (P) & Kontrol (k) | 55 | .357 | .008 |

Tabel Lampiran 11. Paired Samples Statistics Uji T Subplot Intensitas Serangan *S. frugiperda*

| | | Mean | N | Std. Deviation | Std. Error Mean |
|--------|----|---------|----|----------------|-----------------|
| Pair 1 | P1 | 133.558 | 11 | 865.193 | 260.866 |
| | K1 | 59.455 | 11 | 222.970 | .67228 |
| Pair 2 | P2 | 94.906 | 11 | 499.416 | 150.580 |
| | K2 | 144.637 | 11 | 660.559 | 199.166 |
| Pair 3 | P3 | 157.469 | 11 | 977.484 | 294.722 |
| | K3 | 113.105 | 11 | 639.709 | 192.879 |
| Pair 4 | P4 | 106.651 | 11 | 747.187 | 225.285 |
| | K4 | 80.624 | 11 | 619.013 | 186.639 |
| Pair 5 | P5 | 141.299 | 11 | 979.272 | 295.262 |
| | K5 | 93.901 | 11 | 656.444 | 197.925 |

Tabel Lampiran 12. Paired Samples Correlations Uji T Subplot Intensitas Serangan *S. frugiperda*

| | | N | Correlation | Sig. |
|--------|---------|----|-------------|------|
| Pair 1 | P1 & K1 | 11 | .630 | .038 |
| Pair 2 | P2 & K2 | 11 | .840 | .001 |
| Pair 3 | P3 & K3 | 11 | .695 | .018 |
| Pair 4 | P4 & K4 | 11 | .361 | .275 |
| Pair 5 | P5 & K5 | 11 | .575 | .064 |

Tabel Lampiran 13. Fungsi Alat-Alat Laboratorium

| Alat | Fungsi |
|---|---|
| <i>Laminar Air Flow</i> | Tempat untuk bekerja dengan steril (<i>Biological Safety Cabinet</i>) |
| Oven | Untuk melakukan sterilasi alat sebelum digunakan |
| <i>Autoclave</i> | Untuk melakukan sterilasi cairan sebelum digunakan |
| Mikroskop Mikropa | Untuk melihat mikroorganisme yang berukuran kecil |
| <i>Haemocytometer</i> | Untuk menghitung jumlah sel ataupun partikel mikroskopis seperti spora jamur |
| Cawan Perti (<i>petri dish</i>) | Sebagai wadah yang diisi media untuk membiakkan mikroba/cendawan |
| Labu <i>Erlenmeyer</i> | Sebagai wadah untuk menampung larutan, bahan ataupun cairan. |
| Gelas Ukur (<i>Graduated Cylinder</i>) | Berguna untuk mengukur volume suatu cairan |
| Tabung Reaksi (<i>Reaction Tube</i>) | Wadah yang dapat digunakan untuk media cair ataupun media padat. Digunakan untuk uji-uji biokimiawi |
| Micron Pipet | Alat yang digunakan untuk memindahkan cairan yang bervolume cukup kecil |
| Pipet Tetes (<i>Pasteur Pipette</i>) ^o | Memiliki fungsi yang sama dengan micron pipet, hanya saja volume yang dipindahkan tidak diketahui serinci pipet micron. |
| Mortar dan Penumbuk (<i>Pestle</i>) | Digunakan untuk menumbuk atau menghancurkan suatu materi |
| Pembakar Bunsen (<i>Bunsen Burner</i>) | Alat yang berfungsi untuk menciptakan kondisi yang steril dengan api yang menyala |
| Jamur Ose | Untuk memindahkan biakan untuk ditanam/ditumbuhkan pada media baru |
| Pinset | Untuk mengambil benda dengan menjepit |
| <i>Plastic Wrap</i> | Menutup wadah yang berisi media steril |
| Aluminium Foil | Untuk menutup wadah agar tetap steril |
| <i>Sprayer</i> | Berisi cairan untuk disemprotkan dalam |
| Kamera | Untuk mendokumentasikan kegiatan penelitian |



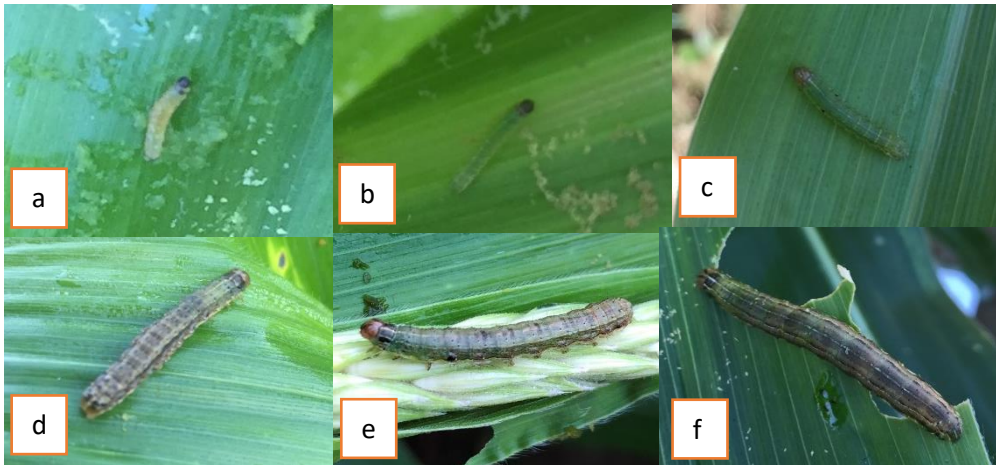
Gambar Lampiran 1. Penanaman Jagung



Gambar Lampiran 2. Pengamatan Populasi dan Intensitas Serangan *S. frugiperda*



Gambar Lampiran 3. Telur *S. frugiperda*



Gambar Lampiran 4. Larva *S. frugiperda* (a) larva instar 1, (b) larva instar 2, (c) larva instar 3, (d) larva instar 4, (e) larva instar 5, (f) larva instar 6.



Gambar Lampiran 5. Pupa *S. frugiperda*



Gambar Lampiran 6. Imago *S. frugiperda*



Gambar Lampiran 7. Serangan *S. frugiperda* pada Fase Vegetatif



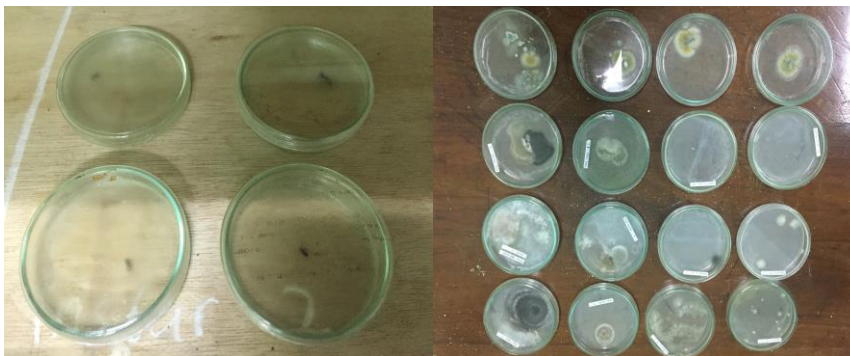
Gambar Lampiran 8. Serangan *S. frugiperda* pada Fase Generatif



Gambar Lampiran 9. Aplikasi *B. bassiana*



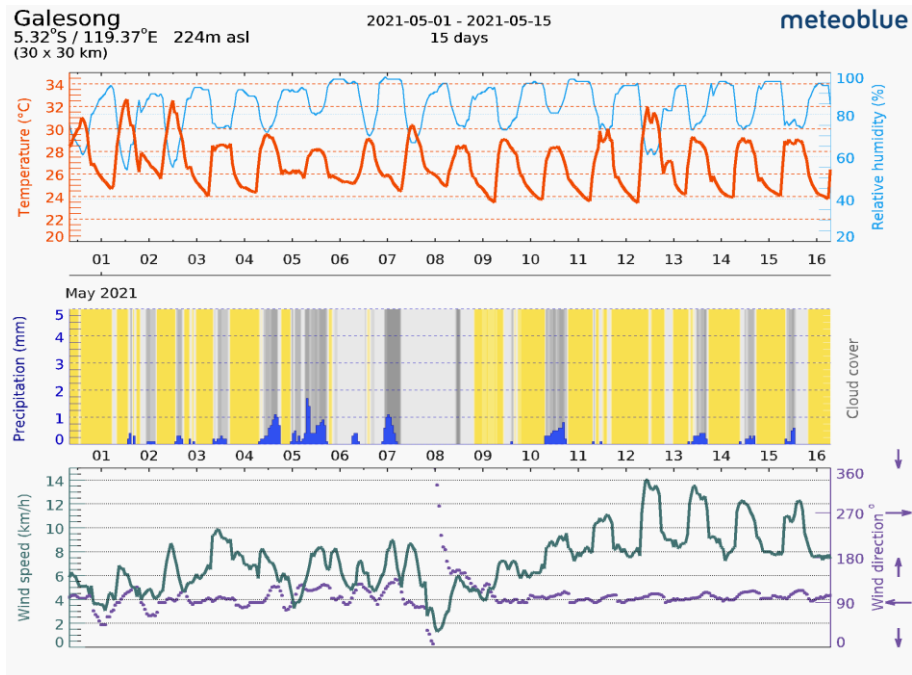
Gambar Lampiran 10. Persiapan *B. bassiana*



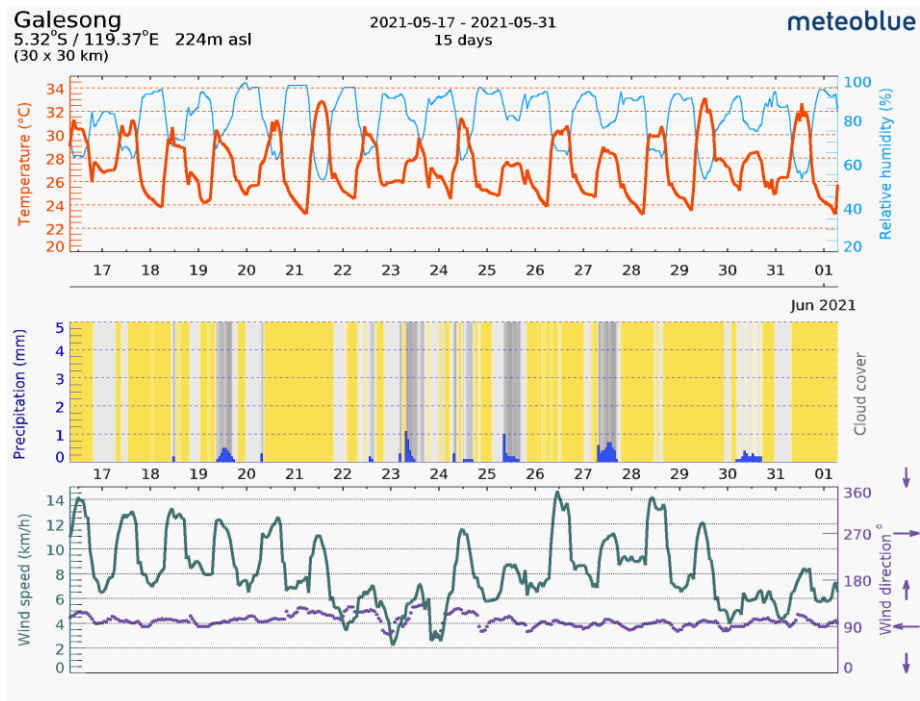
Gambar Lampiran 11. Isolasi Patogen dari Kadaver Larva *S. frugiperda*



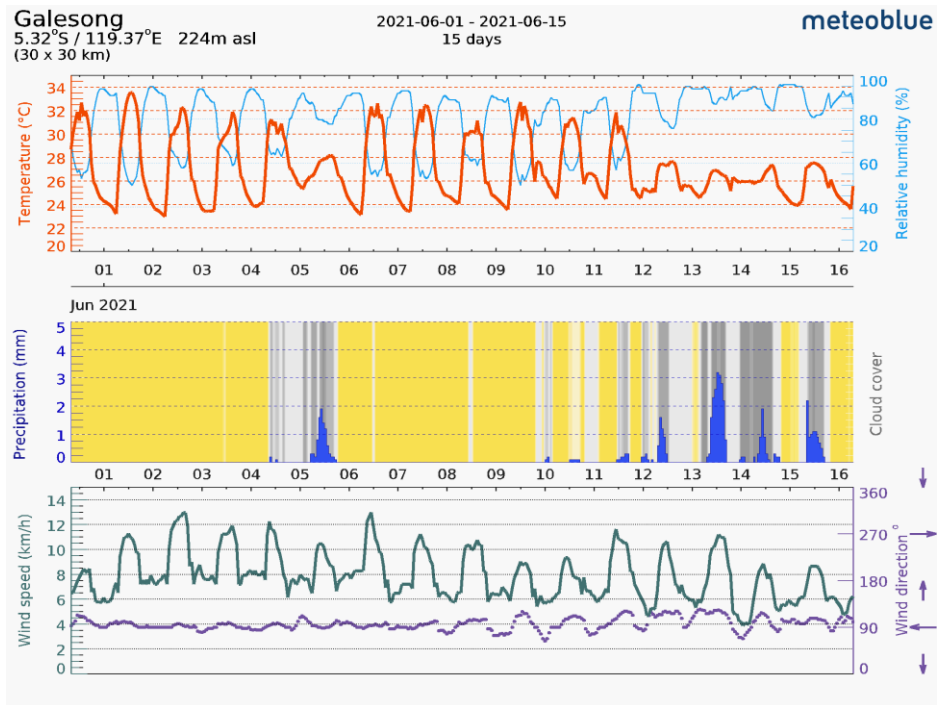
Gambar Lampiran 12. Produktivitas Jagung



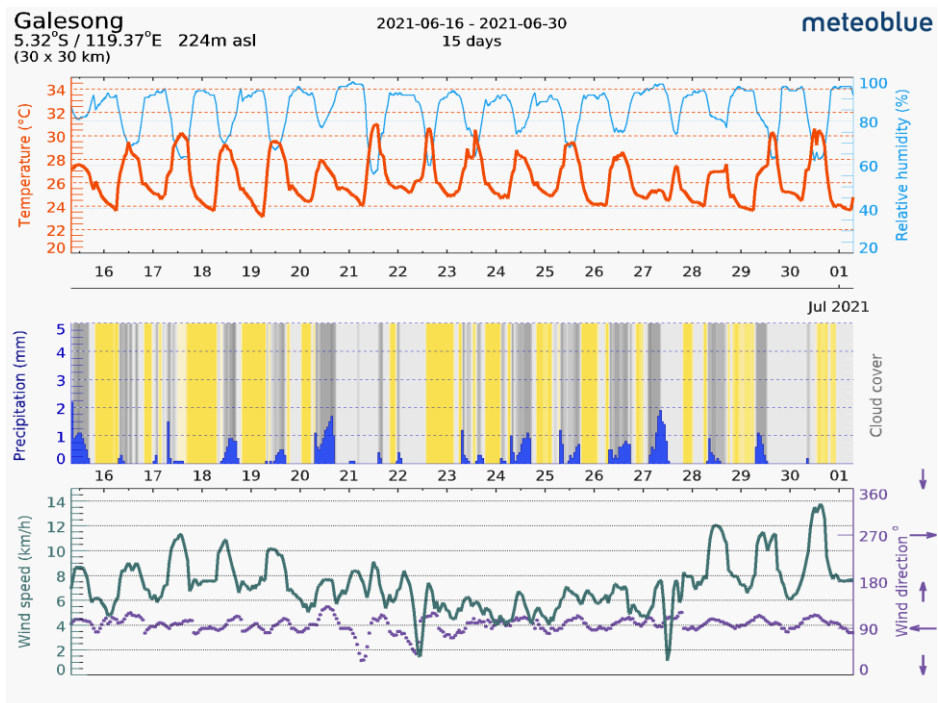
Gambar Lampiran 13. Data Iklim Kecamatan Galesong Tanggal 1-16 Mei 2021



Gambar Lampiran 14. Data Iklim Kecamatan Galesong Tanggal 17-31 Mei 2021



Gambar Lampiran 15. Data Iklim Kecamatan Galesong Tanggal 1-16 Juni 2021



Gambar Lampiran 16. Data Iklim Kecamatan Galesong Tanggal 17-30 Juni 2021