

## DAFTAR PUSTAKA

- AAK, 1974. **Kacang Tanah dan Kedelai**. Kasinius, Yogyakarta
- Allard, R.W. and A.D. Bradshaw**.1964. Implication of genotype-environment interaction in applied plant breeding. *Crop Sci.* 4: 503-507.
- NN, 1983. **Pedoman Bercocok Tanam Padi, Palawija dan Sayur-Sayuran**. Badan Pelaksana Bimas.
- NN, 1989. **Pestisida untuk Pertanian dan Kehutanan**. Jakarta: Direktorat perlindungan Tanaman Pangan, Direktorat Jendral Pertanian Tanaman Pangan.
- Adisarwanto, T dan Suhartina. 1992/1993 **“Perbaikan Budidaya Kedelai di Lahan Sawah”**. Laporan hasil penelitian kacang-kacangan.
- Adisarwanto, A. Kasno, R Saleh, B.S Radjit, Marwoto dan Sumarno, 1992.** **Studi Pertumbuhan Baru Produksi kedelai. Malang**
- Gomez, K.A dan Gomez A.A** 1983. Prosedur statistik untuk penelitian pertanian. <http://www.iptek.net.id>. Jagung 2010. Diakses tanggal 19 Januari 2010
- Haryati, U.A Rachman dan A Abdurrachman 1991.** Aplikasi mulsa fliminga pada pola tanam jagung-kacang-kedele.
- <http://id.wikipedia.org>. **Tumpang Sari**, 2009. Diakses tanggal 19 Januari 2010
- Minnich et al, 1979.** Unsur Hara yang terkandung pada pupuk organik.
- Subandi, I. Manwan, and A. Blumenschein.** 1988. National Coordinated research Program: Corn. Central Research Institute for Food Crops. Bogor. p.83.

**Warsana, SP. MSi.** 25 Februari 2009. Penyuluh Pertanian di BPTP Jawa Tengah.

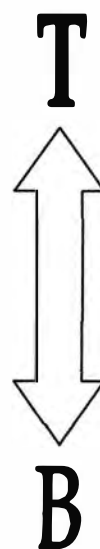
(Nasional Information Service - ATTRA - dikembangkan dan dikelola oleh Pusat Nasional untuk Teknologi Tepat Guna (NCAT).

**Sullivan, P. 1998.** Intercropping Principles and Production Tumpangsari Prinsip dan Produksi Practices. Appropriate Technology Transfer for Rural Praktek. Transfer Teknologi Tepat Guna untuk Pedesaan Areas (ATTRA) , Fayetteville, AR. Daerah (ATTRA), Fayetteville, AR.



## Lampiran 1. Denah Penelitian

| Ulangan 2                     | Ulangan 1                     | Ulangan 3                     |
|-------------------------------|-------------------------------|-------------------------------|
| K <sub>2</sub> D <sub>2</sub> | K <sub>1</sub> D <sub>0</sub> | K <sub>1</sub> D <sub>2</sub> |
| K <sub>2</sub> D <sub>1</sub> | K <sub>3</sub> D <sub>0</sub> | K <sub>3</sub> D <sub>1</sub> |
| K <sub>4</sub> D <sub>0</sub> | K <sub>4</sub> D <sub>1</sub> | K <sub>3</sub> D <sub>3</sub> |
| K <sub>4</sub> D <sub>2</sub> | K <sub>2</sub> D <sub>3</sub> | K <sub>1</sub> D <sub>3</sub> |
| K <sub>2</sub> D <sub>0</sub> | K <sub>3</sub> D <sub>2</sub> | K <sub>1</sub> D <sub>1</sub> |
| K <sub>1</sub> D <sub>1</sub> | K <sub>4</sub> D <sub>3</sub> | K <sub>2</sub> D <sub>0</sub> |
| K <sub>1</sub> D <sub>3</sub> | K <sub>1</sub> D <sub>2</sub> | K <sub>4</sub> D <sub>2</sub> |
| K <sub>3</sub> D <sub>3</sub> | K <sub>3</sub> D <sub>1</sub> | K <sub>4</sub> D <sub>0</sub> |
| K <sub>3</sub> D <sub>3</sub> | K <sub>3</sub> D <sub>3</sub> | K <sub>2</sub> D <sub>1</sub> |
| K <sub>3</sub> D <sub>1</sub> | K <sub>1</sub> D <sub>3</sub> | K <sub>2</sub> D <sub>2</sub> |
| K <sub>4</sub> D <sub>3</sub> | K <sub>1</sub> D <sub>1</sub> | K <sub>1</sub> D <sub>0</sub> |
| K <sub>3</sub> D <sub>2</sub> | K <sub>2</sub> D <sub>0</sub> | K <sub>3</sub> D <sub>0</sub> |
| K <sub>2</sub> D <sub>3</sub> | K <sub>4</sub> D <sub>2</sub> | K <sub>4</sub> D <sub>1</sub> |
| K <sub>4</sub> D <sub>1</sub> | K <sub>4</sub> D <sub>0</sub> | K <sub>2</sub> D <sub>3</sub> |
| K <sub>3</sub> D <sub>0</sub> | K <sub>2</sub> D <sub>1</sub> | K <sub>3</sub> D <sub>2</sub> |
| K <sub>1</sub> D <sub>0</sub> | K <sub>2</sub> D <sub>2</sub> | K <sub>4</sub> D <sub>3</sub> |



**Lampiran 2. Pola tanam tumpang sari per plot**

K1D0

K2D0

K3D0

K4D0

|   |   |   |
|---|---|---|
| O | O | O |
| O | O | O |

|   |   |   |
|---|---|---|
| X | X | X |
| X | X | X |

|   |   |   |
|---|---|---|
| O | X | O |
| O | X | O |

|   |   |   |
|---|---|---|
| X | O | X |
| X | O | X |

Keterangan : O = Jagung  
X = Kedelai



**Lampiran 3.** Data rata-rata respon pertumbuhan dan produksi tanaman jagung dan kedelai yang ditanam secara tumpang sari dengan pemberian pupuk hijau terhadap tinggi tanaman (cm) umur 3 MST (minggu setelah tanam).

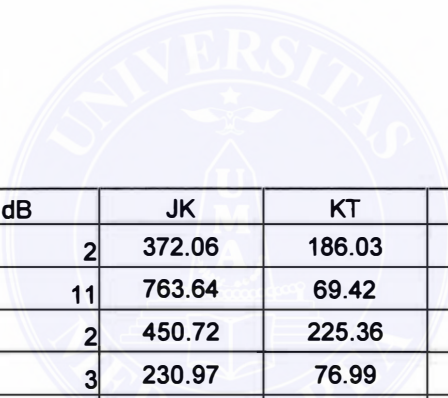
| Perlakuan     | Ulangan       |               |               | Total          | Rataan       |
|---------------|---------------|---------------|---------------|----------------|--------------|
|               | I             | II            | III           |                |              |
| K1D0          | 27.00         | 25.00         | 26.00         | 78.00          | 26.00        |
| K1D1          | 16.00         | 32.00         | 24.00         | 72.00          | 24.00        |
| K1D2          | 36.00         | 21.00         | 23.00         | 80.00          | 26.67        |
| K1D3          | 30.00         | 29.00         | 25.00         | 84.00          | 28.00        |
| K3D0          | 36.00         | 44.00         | 29.00         | 109.00         | 36.33        |
| K3D1          | 34.00         | 30.00         | 18.00         | 82.00          | 27.33        |
| K3D2          | 31.00         | 47.00         | 30.00         | 108.00         | 36.00        |
| K3D3          | 27.00         | 55.00         | 28.00         | 110.00         | 36.67        |
| K4D0          | 53.00         | 82.00         | 26.00         | 161.00         | 53.67        |
| K4D1          | 28.00         | 65.00         | 26.00         | 119.00         | 39.67        |
| K4D2          | 31.00         | 47.00         | 21.00         | 99.00          | 33.00        |
| K4D3          | 39.00         | 61.00         | 34.00         | 134.00         | 44.67        |
| <b>Total</b>  | <b>388.00</b> | <b>538.00</b> | <b>310.00</b> | <b>1236.00</b> | <b>-</b>     |
| <b>Rataan</b> | <b>32.33</b>  | <b>44.83</b>  | <b>25.83</b>  | <b>-</b>       | <b>34.33</b> |

| Perlakuan     | Ulangan       |               |               | Total         | Rataan       |
|---------------|---------------|---------------|---------------|---------------|--------------|
|               | I             | II            | III           |               |              |
| K2D0          | 19.00         | 22.00         | 24.00         | 65.00         | 21.67        |
| K2D1          | 28.00         | 26.00         | 24.00         | 78.00         | 26.00        |
| K2D2          | 19.00         | 21.00         | 22.00         | 62.00         | 20.67        |
| K2D3          | 26.00         | 20.00         | 25.00         | 71.00         | 23.67        |
| K3D0          | 30.00         | 43.00         | 29.00         | 102.00        | 34.00        |
| K3D1          | 37.00         | 48.00         | 20.00         | 105.00        | 35.00        |
| K3D2          | 19.00         | 32.00         | 27.00         | 78.00         | 26.00        |
| K3D3          | 34.00         | 36.00         | 25.00         | 95.00         | 31.67        |
| K4D0          | 27.00         | 33.00         | 20.00         | 80.00         | 26.67        |
| K4D1          | 19.00         | 31.00         | 35.00         | 85.00         | 28.33        |
| K4D2          | 23.00         | 27.00         | 19.00         | 69.00         | 23.00        |
| K4D3          | 29.00         | 43.00         | 23.00         | 95.00         | 31.67        |
| <b>Total</b>  | <b>310.00</b> | <b>382.00</b> | <b>293.00</b> | <b>985.00</b> | <b>-</b>     |
| <b>Rataan</b> | <b>25.83</b>  | <b>31.83</b>  | <b>24.42</b>  | <b>-</b>      | <b>27.36</b> |

**Lampiran 4.** Daftar sidik ragam tinggi tanaman Jagung dan kedelai (cm) umur 3 MST.

| SK               | dB | JK      | KT      | F hit  | F05  |
|------------------|----|---------|---------|--------|------|
| <b>Ulangan</b>   | 2  | 2238.00 | 1119.00 | 10.86* | 3.44 |
| <b>Perlakuan</b> | 11 | 2541.33 | 231.03  | 2.24tn | 2.26 |
| <b>K</b>         | 2  | 1651.17 | 825.58  | 8.018* | 3.44 |
| <b>D</b>         | 3  | 406.89  | 135.63  | 1.32tn | 3.05 |
| <b>linier</b>    | 1  | 11.76   | 11.76   | 0.11tn | 4.3  |
| <b>Kuadratik</b> | 1  | 373.78  | 373.78  | 3.63tn | 4.3  |
| <b>Kubik</b>     | 1  | 21.36   | 21.36   | 0.21tn | 4.3  |
| <b>K x D</b>     | 6  | 483.28  | 80.55   | 0.78tn | 2.55 |
| <b>Galat</b>     | 22 | 2266.67 | 103.03  |        |      |
| <b>Total</b>     | 35 | 7046.00 |         |        |      |

FK : 42436  
 KK : 29.56%  
 tn : tidak nyata  
 \* : berbeda nyata



| SK               | dB | JK      | KT     | F hit  | F05  |
|------------------|----|---------|--------|--------|------|
| <b>Ulangan</b>   | 2  | 372.06  | 186.03 | 5.02*  | 3.44 |
| <b>Perlakuan</b> | 11 | 763.64  | 69.42  | 1.87tn | 2.26 |
| <b>K</b>         | 2  | 450.72  | 225.36 | 6.09*  | 3.44 |
| <b>D</b>         | 3  | 230.97  | 76.99  | 2.08tn | 3.05 |
| <b>linier</b>    | 1  | 1.61    | 1.61   | 0.04tn | 4.3  |
| <b>Kuadratik</b> | 1  | 26.69   | 26.69  | 0.72tn | 4.3  |
| <b>Kubik</b>     | 1  | 202.67  | 202.67 | 5.47*  | 4.3  |
| <b>K x D</b>     | 6  | 81.94   | 13.66  | 0.37tn | 2.55 |
| <b>Galat</b>     | 22 | 814.61  | 37.03  |        |      |
| <b>Total</b>     | 35 | 1950.31 |        |        |      |

FK : 26950.69  
 KK : 22.24%  
 tn : tidak nyata  
 \* : berbeda nyata

**Lampiran 5.** Data rata-rata respon pertumbuhan dan produksi tanaman jagung dan kedelai yang ditanam secara tumpang sari dengan pemberian pupuk hijau terhadap tinggi tanaman (cm) umur 5 MST (minggu setelah tanam).

| Perlakuan     | Ulangan       |               |               | Total          | Rataan       |
|---------------|---------------|---------------|---------------|----------------|--------------|
|               | I             | II            | III           |                |              |
| K1D0          | 36.00         | 32.00         | 33.00         | 101.00         | 33.67        |
| K1D1          | 28.00         | 64.00         | 29.00         | 121.00         | 40.33        |
| K1D2          | 44.00         | 37.00         | 37.00         | 118.00         | 39.33        |
| K1D3          | 45.00         | 57.00         | 35.00         | 137.00         | 45.67        |
| K3D0          | 42.00         | 64.00         | 31.00         | 137.00         | 45.67        |
| K3D1          | 47.00         | 49.00         | 21.00         | 117.00         | 39.00        |
| K3D2          | 44.00         | 63.00         | 43.00         | 150.00         | 50.00        |
| K3D3          | 39.00         | 72.00         | 29.00         | 140.00         | 46.67        |
| K4D0          | 64.00         | 93.00         | 35.00         | 192.00         | 64.00        |
| K4D1          | 39.00         | 76.00         | 32.00         | 147.00         | 49.00        |
| K4D2          | 49.00         | 72.00         | 28.00         | 149.00         | 49.67        |
| K4D3          | 47.00         | 75.00         | 48.00         | 170.00         | 56.67        |
| <b>Total</b>  | <b>524.00</b> | <b>754.00</b> | <b>401.00</b> | <b>1679.00</b> | <b>-</b>     |
| <b>Rataan</b> | <b>43.67</b>  | <b>62.83</b>  | <b>33.42</b>  | <b>-</b>       | <b>46.64</b> |

| Perlakuan     | Ulangan       |               |               | Total          | Rataan       |
|---------------|---------------|---------------|---------------|----------------|--------------|
|               | I             | II            | III           |                |              |
| K2D0          | 31.00         | 45.00         | 31.00         | 107.00         | 35.67        |
| K2D1          | 38.00         | 39.00         | 37.00         | 114.00         | 38.00        |
| K2D2          | 30.00         | 27.00         | 39.00         | 96.00          | 32.00        |
| K2D3          | 29.00         | 40.00         | 42.00         | 111.00         | 37.00        |
| K3D0          | 32.00         | 51.00         | 32.00         | 115.00         | 38.33        |
| K3D1          | 45.00         | 51.00         | 29.00         | 125.00         | 41.67        |
| K3D2          | 21.00         | 41.00         | 32.00         | 94.00          | 31.33        |
| K3D3          | 42.00         | 48.00         | 27.00         | 117.00         | 39.00        |
| K4D0          | 32.00         | 45.00         | 22.00         | 99.00          | 33.00        |
| K4D1          | 29.00         | 42.00         | 64.00         | 135.00         | 45.00        |
| K4D2          | 30.00         | 32.00         | 24.00         | 86.00          | 28.67        |
| K4D3          | 43.00         | 59.00         | 32.00         | 134.00         | 44.67        |
| <b>Total</b>  | <b>402.00</b> | <b>520.00</b> | <b>411.00</b> | <b>1333.00</b> | <b>-</b>     |
| <b>Rataan</b> | <b>33.50</b>  | <b>43.33</b>  | <b>34.25</b>  | <b>-</b>       | <b>37.03</b> |