**Results Agronomy Trials Nigeria 2011**

*Cowpea Input Trial, Albasu, Kano*

Planting date: 31/07/2011

Variety IT90K-277-2

Statistics

*Grain*

n.s.

*Stover*

n.s.

*Cowpea input and inoculation trial, Maigana, Kaduna State*

|  |  |  |
| --- | --- | --- |
| GPS coordinates: N 110 01.486' E 0070 55.053' | | |
| Planting date: 5/08/11 | | |
| **pH water (1: 2.5)** | **pH 0.01M CaCl2 (1: 2.5)** | **P (O)** | | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  |  | **ppm** | | **%** | **%** | **%** | **%** | **%** |
| 5.7 | 4.9 | 1.75 | | 62 | 22 | 16 | 0.175 | 0.64 |

From the data entry sheet: ‘We noticed that the variety used in this trial was severely attacked by insect pest which were very difficult to control. This could be responsible for its poor yield.’

Statistics

*Grain*

n.s.

*Cowpea Variety trial Albasu, Kano State*

Planting date 31/07/2011

Statistics

*Grain*

Variety F pr = 0.037

*Stover*

n.s.

*Cowpea Variety Trial Warawa, Kano State*

Planting date 08/08/2011

Statistics

*Grain*

Variety F pr > 0.001

*Stover*

Variety F pr > 0.001

Note: variety 288 had a low grain yield, but very high stover yield

*Cowpea, inoculation and variety trial, Maigana, Kaduna State*

|  |
| --- |
| GPS coordinates: N 110 01.486' E 0070 55.053' |
| Planting date: 6/08/11 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **pH water (1: 2.5)** | **P (O)** | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  | **ppm** | **%** | **%** | **%** | **%** | **%** |
| 5.7 | 1.75 | 62 | 22 | 16 | 0.175 | 0.64 |

Statistics

*Grain*

Variety Fpr < 0.001

*Groundnut input trial Sarina, Kano State*

Planting date 13/07/2011, Variety Samnut23

Statistics

*Grain*

n.s.

*Stover*

n.s.

*Groundnut input trial, Wudil, Kano State*

Planting date: 12/07/2011, Samnut 23

Statistics

*Grain*

n.s.

*Stover*

n.s.

*Groundnut input trial, Igabi, Kaduna State*

|  |
| --- |
| GPS coordinates: N 110 53.925' E 0070 38.784' |
| Planting date: 7/08/11 |
| Variety = SAMNUT 23 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **pH water (1: 2.5)** | **P (O)** | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  | **ppm** | **%** | **%** | **%** | **%** | **%** |
| 5.4 | 2.63 | 68 | 18 | 14 | 0.105 | 0.39 |

Statistics

*Grain*

n.s.

*Tudun Wada, input and spacing groundnut trial, Kaduna State*

|  |
| --- |
| GPS coordinates: N 110 14.660' E 0080 25.269' |
| Planting date: 11/07/11 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **pH water (1: 2.5)** | **pH 0.01M CaCl2 (1: 2.5)** | **P (O)** | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  |  | **ppm** | **%** | **%** | **%** | **%** | **%** |
| 5.4 | 4.7 | 12.25 | 56 | 30 | 14 | 0.175 | 0.45 |

Statistics

*Grain*

Plant spacing Fpr = 0.003

20cm spacing gave higher yield than 25 cm spacing

*Groundnut Variety Trial Sarina, Kano State*

Planting date 13/07/2011

With intra-row plant spacing of 20 or 25cm.

*Groundnut Variety Trial Wudil, Kano State*

With and without P fertiliser

Statistics

*Grain*

Variety F pr = 0.004; P fertiliser F pr = 0.025

*Stover*

Variety F pr = 0.026; P fertiliser F pr = 0.003

*Groundnut Variety Trial, Igabi, Kaduna State*

|  |
| --- |
| GPS coordinates: N 110 53.925' E 0070 38.784' |
| Planting date: 7/08/11 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **pH water (1: 2.5)** | **P (O)** | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  | **ppm** | **%** | **%** | **%** | **%** | **%** |
| 5.4 | 2.63 | 68 | 18 | 14 | 0.105 | 0.39 |

Statistics

*Grain*

Spacing Fpr = 0.05

*Stover*

Variety F pr < 0.001

*Soybean input trial, Sarina, Kano State*

Planting date: 10/07/2011, Variety TGx 1835-10E

Statistics

*Grain*

Fertiliser F pr = 0.009

*Stover*

Fertiliser F pr = 0.002

*Soybean inoculation and input trial, Giwa, Kaduna State*

From the data entry sheet:

‘No harvest was obtained because goats ate up the plants in this trial. We made some arrests and handed over the goats to police. Our experience show that the site is not suitable for trials and should be avoided in future works.’

*Soybean inoculation and input trial, Kachia, Kaduna State*

|  |  |  |
| --- | --- | --- |
| GPS coordinates: N 90 51.679' E 0070 56.652' | | |
| Planting date: 16/07/11 | | |
| VARIETY: TGx 1448-2E | | |
| **pH water (1: 2.5)** | **pH 0.01M CaCl2 (1: 2.5)** | **P (O)** | | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  |  | **ppm** | | **%** | **%** | **%** | **%** | **%** |
| 5.4 | 4.6 | 5.25 | | 72 | 10 | 18 | 0.14 | 0.6 |

Statistics

*Grain*

n.s.

*Soybean input trial, Maigana, Kaduna State*

|  |
| --- |
| GPS coordinates: N 110 01.575' E 0070 55.292' |
| Planting date: 22/08/11 |

|  |  |
| --- | --- |
|  | Soybean grain yield |
| control | 959 |
| fym | 884 |
| P | 560 |
| PK | 941 |
| PKS | 973 |
| PKS+ | 752 |

Statistics

*Grain*

n.s.

*Samaru Kataf, Soybean inoculation and input, Kaduna State*

|  |
| --- |
| GPS coordinates: N 09.756200, E 008.371850 |
| Planting date: 9/08/11 |
| VARIETY: TGx 1835-10E |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **pH water (1: 2.5)** | **pH 0.01M CaCl2 (1: 2.5)** | **P (O)** | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  |  | **ppm** | **%** | **%** | **%** | **%** | **%** |
| 5.5 | 4.6 | 10.5 | 72 | 14 | 14 | 0.175 | 0.8 |

Statistics

*Grain*

Inoculation Fpr = 0.010 (uninoculated higher yielding than inoculated)

*Tudun Wada, soybean inoculation and input, Kaduna State*

|  |
| --- |
| GPS coordinates: N 110 14.660' E 0080 25.269' |
| Planting date: 9/07/11 |
| VARIETY: TGx 1448-2E |

Statistics

*Grain*

Input Fpr < 0.001

*Soybean Variety Trial, Sarina, Kano State*

Planting date: 10/07/2011

Statistics

*Grain*

n.s.

*Stover*

Variety Fpr = 0.003

*Soybean variety trial, BUK, Kano*

Planting date 27/07/2011

Statistics

*Grain*

Variety F pr < 0.001

*Stover*

Variety Fpr = 0.038

*Soybean inoculation and variety trial, Giwa, Kaduna*

|  |
| --- |
| GPS coordinates: N 110 12.261' E 0070 33.506' |
| Planting date: 21/07/11 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **pH water (1: 2.5)** | **P (O)** | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  | **ppm** | **%** | **%** | **%** | **%** | **%** |
| 5.7 | 1.75 | 60 | 26 | 14 | 0.21 | 0.82 |

Statistics

*Grain*

Variety F pr < 0.001

Genotype \* Inoculation F pr = 0.013

*Soybean inoculation and variety trial, IAR, Kaduna*

|  |
| --- |
| GPS coordinates: N 110 10.585' E 0070 36.858' |
| Planting date: 17-19/07/11 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **pH water (1: 2.5)** | **P (O)** | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  | **ppm** | **%** | **%** | **%** | **%** | **%** |
| 5.3 | 8.75 | 66 | 22 | 12 | 0.14 | 0.33 |

Statistics

*Grain*

Variety F pr < 0.001

*Soybean inoculation and variety trial, Kachia, Kaduna State*

|  |
| --- |
| GPS coordinates: N 90 51.679' E 0070 56.652' |
| Planting date: 17/07/11 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **pH water (1: 2.5)** | **pH 0.01M CaCl2 (1: 2.5)** | **P (O)** | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  |  | **ppm** | **%** | **%** | **%** | **%** | **%** |
| 5.4 | 4.6 | 5.25 | 72 | 10 | 18 | 0.14 | 0.6 |

Statistics

*Grain*

Variety Fpr = 0.004

Soybean inoculation and variety trial, Tudun Wada, Kaduna State

|  |
| --- |
| GPS coordinates: N 110 14.660' E 0080 25.269' |
| Planting date: 10/07/11 |

Statistics

*Grain*

Genotype Fpr = 0.015

Inoculation Fpr = 0.014

Genotype \* Inoculation Fpr = 0.07 (SAGA and SEQUEL responded to inoculation, not the other varieties)

*Stover*

Genotype Fpr = 0.010

*Samaru Kataf, Soybean inoculation and variety trial, Kaduna State*

|  |
| --- |
| GPS coordinates: N 09.756200, E 008.371850 |
| Planting date: 10/08/11 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **pH water (1: 2.5)** | **pH 0.01M CaCl2 (1: 2.5)** | **P (O)** | **Sand** | **Silt** | **Clay** | **Total Nitrogen** | **Total Carbon** |
|  |  | **ppm** | **%** | **%** | **%** | **%** | **%** |
| 5.5 | 4.6 | 10.5 | 72 | 14 | 14 | 0.175 | 0.8 |

Statistics

*Grain*

Variety Fpr = 0.001

Inoculation F pr = 0.016 (Uninoculated higher yielding than inoculated)