ISSN 2394-5303



सूवर्ण महोत्सवी वर्ष

Shri Balaji Sansthan, Deulgaon Rajals

Shri Wyankaresh Arts Commerce & Science College

Deulgaon Raja, Dist. Buldana (M.S.), PIN-443204. E NAAC RE-ACCREDITED AT 'B' LEVEL B

Special Issue *** December 2017

International Multilingual Research Journal

INNOVATIVETRENDSINLIFESCIENCES



Chief Editor:

esh Pundlikarao Kakde

Co-Editor

INCAL DOOR FOOD LINES THE CONTRACTOR OF THE PROPERTY OF THE PR	ember 2017 ()6
14) POTENTIAL MI DICINAL PLANT RESOURCES FROM LONAR C Mahendra R. Bhise—Suryakant B. Borul, Lonar, Dist. Buldana.	RATER 51
15) Effect of Integrated Fertilizer Management with & organic & in S. M. Sukte, Beed	norganic fertilizers 56
16) STUDY OF PHYSICO-CHEMICAL PARAMETERS & CORRELATIONSHIP AYESHA HUSSAIN KHAN, Sironcha, Tah. Sironcha, Gadchiroli.	58
17) Aeromycological survey of vegetable market at Sironcha, Dist.	. Gadchiroli 63
Sandip H. Shende, Sironcha, Dist. Gadchiroli 18) Effect of weed green manure & compost manure on Productivit R. L. Parbhankar—Dr. U. P. Mogle, Jalna	ty of Spinach
19) STUDIES ON BIOCHEMICAL CHANGES IN SOYBEAN SEED IN Vaishali, S. Chatage—Hanmant., M. Lakde—Mukundraj, B. Pati	
20) Phytochemical Study of the medicinal plant Pudina (Peppermin Suwarna K. Zilpe, Anjangaon Surji, Dist.: Amravati	nt)
21) Assessment of Antagonistic Activity of <i>Trichoderma viride</i> on S.T. Ingale—S. S. Patale, Tq. Ashti, Dist. Beed.	Seed Borne
22) Determination of Effect of Phytohormone on the Seed germinal Momin Raisoddin, Beed.	75
23) TRICHODERMA STRAINS AGAINST MACROPHOMINA PHASA Vaishali. S. Chatage—Ramesh Londankar	EOLINA
24) Effect of aqueous and methanolic leaves extract of <i>Cassia fisto</i> N. S. Solanke—S. S. Choudhari, Hingoli, Maharashtra	ula L. against
25) Fluoride content of Man Reservoir, Shirla Nemane, District. B Dr. M. T. Nikam—Dr. C. D. Morey, Chikhli, Dist. Buldana	Buldana 11 86
A. M. Garode—M. R. Bhusari., Chikhli, Dist-Buldana (MS)	Buldana district
Printing Area: Interdisciplinary Multilingual Refereed	d Journal June Albroid

Effect of Integrated Fertilizer Management with and organic and inorganic fertilizers on growth and productivity of groundnut.

S. M. Sukte

Department of Botany, Balbhim College, Beed.

Abstract

(

0

(

Indian agriculture has made significant progress in recent years. The concept & implementation of green revolution introduced during 1950 & 1960 and five year plan resulted in such a Situation that presently India is not only self sufficient in producing adequate food grains but supply it to under development & developing countries. In Spite of food, however, several people to living below poverty line suffer from hunger malnutrition & protein. In order increase productivity and efficiency of agriculture system in present investigation efforts are made to evaluate effect of integrated fertilizer management (IFM) on Productivity Some field Crop Plants of Beed district & Simultaneously efforts are made to avoid use of only chemical fertilizers, which is used by the farmers in adequate quantity, due to which there is depletion of soil fertility & over use of chemical fertilizer which causes pollution health problems.

Experimental:

In present Study to evaluate effect of integrated fertilizer management with inorganic & organic fertilizers on growth and productivity of groundnut. Pot experiments were made i.e. plants were sown in the pots having 34 cm diameter. The pots were filled with soil (PH 7.9). The Seeds of groundnut were sown. After emergence, extra Seedlings were removed to Printing Area: Interdisciplinary Multilingual Refereed Journa and The Printing

maintain uniform plant population of 5 plants per pot. There were in all five treatments, each replicated for five times. The treatments were as under:

- Untreated Control 1) 2 g/pot Rhizobium 2)
- 2g/pot NPK 3) 1: 1 g/pot Rhizobium + urea 4) 2g/pot Rhizobium + Nitrogen 5)

+ compost

All fertilizers were added in the Soil of pots. The crops were raised in pots under irrigation. Fertilizer doses were given at the age of 15, 30, 45 day after Sowing. The Control or untreated pots were without treatment.

After 25 days of age at every 10 days interval a plants from each pot was removed randomly without damaging it's root system. The roots were wasted with water to remove adhering Soil particles & blotted.

The observations were made on height & root length per plant. The numbers of leaves per plant were measured, and total leaf area was determined by measuring the leaf area of each leaf using gravimetric method (Mungikar, 1986). The plants were then dried to a constant weight at 95 + 5 °c & dry weight per plant was recorded. Dry plant material was used to estimate nitrogen (N) Content which was determined by microkjeldahl method by digesting the material with H₂SO₄ in presence of catalyst (9 K₂SO₄ + 1 CuSo₄ + 0.02 Seo₂) and distillation followed by titration of liberated ammonia with boric acid. (Bailey, 1967).

Results & Discussion:

Groundnut is an important leguminous Crop of Beed district, cultivated during either rabi or summer Season. It is mainly cultivated for ponds & subsequently, Kernels which are used for the extraction of edible oil. Growing population mounting more pressure on natural resources to meet increased food demand. According to conservative estimate (Kanwar, 1998), the food grain demand in India for the year 2010 & 2020 is projected to be 246 & 294 mt. respectively, population grew at an annual growth rate of around 2% in 1970s, 1980s, 1980s & 1990s, to reach 1027 million in 2011 & estimated to increase further to 1281 at 4542 million by