































Event: 7th IPI-FAI Round Table in collaboration with IPNI

Date and venue: 20/3/2012; NAAS Committee Room No.1, NASC Complex, New Delhi Theme: Refinement of K recommendations in Vertisols





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ICAR	B. Quantifying Biotites: Other Methods	
	Biotite content was also measured using <u>peak height 1</u> (<u>002/001)</u> values in selected benchmark soils using formula:	<u>atio</u> the
	biotite = (0.685 – Peak height ratio)	
	0.719	
(Rajkumar e	t al., 2006)	
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				6
	Soil horizon	Light minerals (Sp. Gravity < 2.85)	Heavy minerals (Sp. Gravity < 2.85)	
CAR		Jassi Pauwali (Typic Ustipsa	mment)	-
	Ар	0.62	0.50	
	Cl	0.55	0.52	
	C4	0.59	0.30	
	Joé	hpur Ramana (Ustochreptic	Camborthid)	
	Ар	0.55	0.37	
	Bw2	0.54	0.52	
B. Quantifying	C2	0.60	0.38	
Biotitos: Other		Kanjli (Typic Hapluste	pt)	
Diotites. Other	Ар	0.47	0.43	
Methods	Bw2	0.50	0.59	
	С	0.35	0.32	
		Nabha (Typic Hapluste	pt)	
	Ар	0.71	0.53	
	Bw2	0.74	0.65	
	С	0.63	0.59	
		Kandi (Typic Ustipsamm	ient)	
	Al	0.45	0.39	
	Cl	0.40	0.34	
	C3	0.32	0.22	
		Kanjli (Typic Hapluste	pt)	
	Ар	0.54	0.16	
	Bw2	0.44	0.40	
	BC	0.58	0.41	

B. Qua	antifying Bioti	tes: Other Met	hods
Location	Minerals	Sand (%)	Silt (%)
Sub humid soil (Soil-I pH 7.4) Arid soil	Muscovite	60.40	100
	Biotite	39.60	0.00
	Muscovite	46.50	72.80
(Soil-11 pH 8.4)	Biotite	53.50	27.20







Shrink-swell soil ser	ries chosen for study	
SLNo	Soil Series	Dist./ State
1	Chunchura	Hooghly, West Bengal
2	Nabibagh	Bhopal, Madhya Pradesh
3	Panjri	Nagpur, Maharashtra
4	Takarkheda	Amravati, Maharashtra
5	Sarol	Indore, Madhya Pradesh
6	Kasireddipalli	Medak, Andhra Pradesh
7	Kovilpatti	Tutikorin, Tamil Nadu
8	Teligi	Bellary, Karnataka
9	Nimone	Ahmednagar, Maharashtra
10	Sokhda	Rajkot, Gujarat
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	BSR MENU	and the second sec
Physiography	Photo Themati Landscape Maps	
States	BM Spots Crops Photo Point Loc	ion of cation
Districts	Soils	
AER/AESR	Natural Vegetation	
Climate	Land Use	
SOTER		
		Back to Main Menu











Physiography States Districts	Soils Natural Vegetation Land Use BSR : Climate						
AFR/AFSR	BM Spots	Months	Mean Temp (°C)	Rainfall (mm)	PET (mm)	1/2 PET (mm)	LGP (days)
ALIVALOR	Dim Opors	January	19.40	0.90	121.00	60.50	0.00
		February	21.90	1.40	138.00	69.00	0.00
	Photo	March	26.30	2.10	206.00	103.00	0.00
	Landscape	April	30.10	0.30	249.00	124.50	0.00
		May	32.60	4.30	302.00	151.00	0.00
0.0750	Crops	June	32.00	59.80	240.00	120.00	0.00
SOTER	Photo	July	28.80	243.10	170.00	85.00	31.00
		August	27.80	138.50	150.00	75.00	31.00
	Thomatic	September	27.90	68.00	154.00	77.00	0.00
Crops	Maps	October	28.20	10.90	169.00	84.50	0.00
	mapo	November	24.80	3.00	131.00	65.50	0.00
		December	20.90	1.00	114.00	57.00	0.00
Distribution		December					
Distribution of Point	PTF	Average	26.72	44.44	178.7	89.33	5.167

													BSR	SOTER	T
Physiography	Soils	т				-			0.07		and a second second				
States	Natural Vegetation	1	able	of S	601I (Com	pone	nt in	50	IER					
Districts	Land Use	ISO countr y code	SOTER unit-ID	Terrain compo nent numbe r	Soil compo nent numbe r	Propor tion	Profile- ID	WRBC	Positio n	Surface rockine ss	Surface stonine ss	Erosion /deposi tion type	Area affecte d	Erosion degree	Rootab le depth
AER/AESR	BM Spots	IN	101	1	1	100	INMSS KL_P10 1 INMSS		M	F	F				
Climate	Photo Landscape	IN	102	1	1	100	GN_P1 02 INMSK TR_P10					S	1	S	
SOTER	Crops Photo	IN	103	1	1	100	3 INMSA DL_P10 4	Haplic Vertisol	L	N	N	s	1	s	D
Crops	Thematic Maps														
Distribution of Point Location	PTF														
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														BS	ack to R Menu

	BSR : Crops
Physiography Soils	Cotton- Sorghum Cropping System
States Natural Vegetation	
Districts Land Use	Cotton crop
AER/AESR BM Spots	BSR (Cotton-based cropping system)
Photo Landscape	Overview
SOTER Crops Photo	Total No. of spots :17No. of spots visited and sampled :17
Crops Thematic Maps	Achamatti Soil Series of BSR , Dharwad
Distribution of Point Location	Crop sequence: Cotton/Maize/Pigeonpea Rabi- Bengal gram
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	Available K stock(Tg) Soils		Soil dep	ths (cm)	
		0-30	0-50	0-100	0-150
	IGP	29	52	111	160
	BSR	115	184	356	530
	Available K stock(Tg/mha) Soils				
	IGP	0.66	1.19	2.54	3.66
	BSR	0.99	1.58	3.06	4.55
5000 - 4500 - 84500 - 3500 - 3000 - 2500 - 1500 - 500 - 0 -	Av K kg/ha IGP vs BSR	4554	BSR st K more first 30 depth	tocks 32 than IG and 150 respectiv	6 to 891 kg/ iP soils in) cm soil vely

















