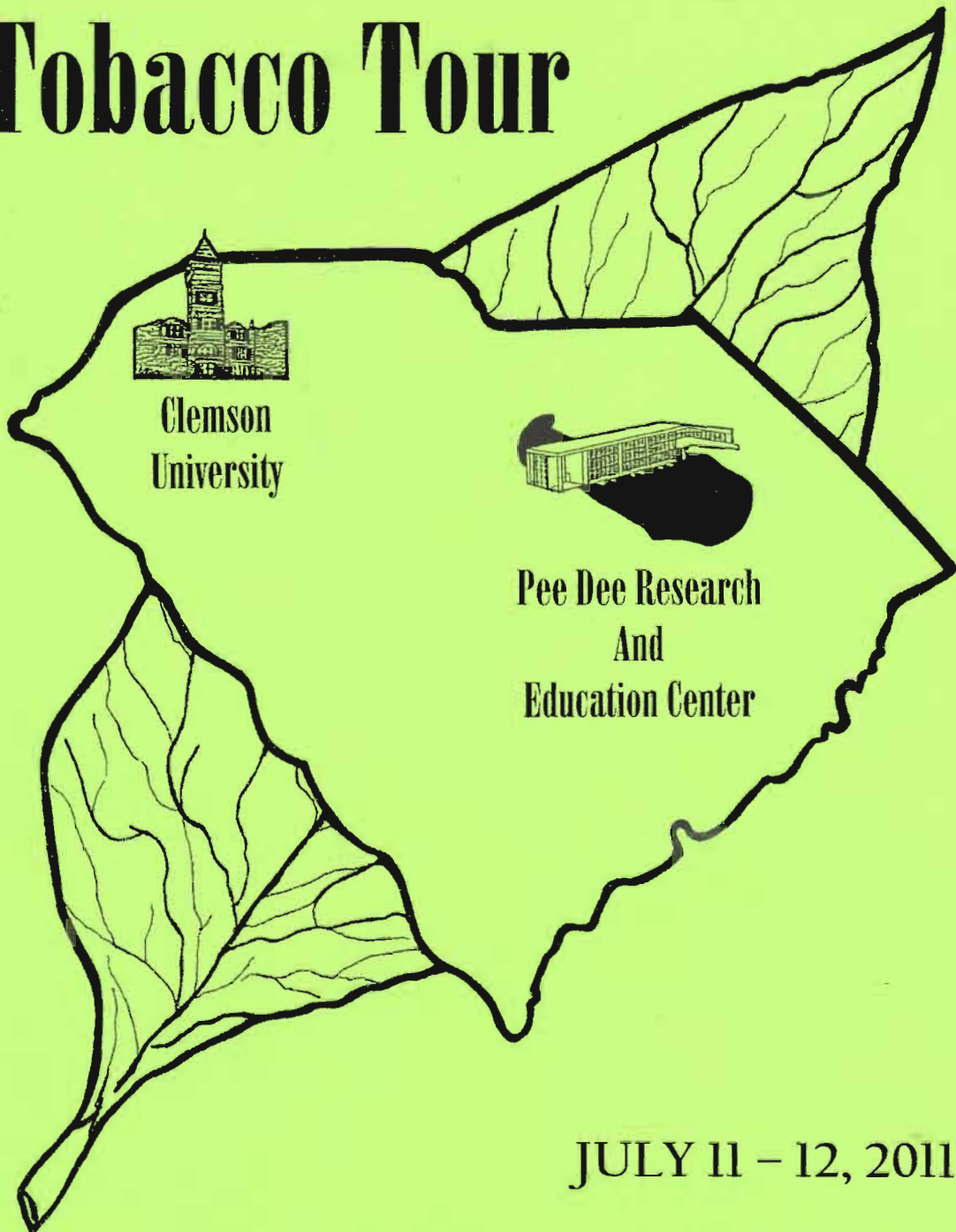


# Clemson University Tobacco Tour



JULY 11 – 12, 2011

CLEMSON UNIVERSITY TOBACCO TOUR  
JULY 11-12, 2011

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JULY 11

6:00 PM	Registration	PDREC (Meet in Main Building—Rm 279-282)
6:30 PM	Social Time	PDREC (Rooms 279 & 282 in Main Building)
7:00 PM	Dinner	PDREC –Caines BBQ

JULY 12

(1)	8:00 AM	Registration	PDREC (Meet at Tobacco Facility in Back)
	8:30 AM	Welcome	Dr. Bruce Fortnum, PDRC Director
	8:40AM	Agronomy (and Solar Barn)	Dr. Dewitt Gooden
	9:40AM	Entomology	Dr. Francis Reay- Jones; Dr Albert Johnson
	10:10 AM	Diseases	Dr. Bruce Fortnum, Dr. Paul Peterson
	12:15PM	Lunch	Backyard Restaurant-Sumter
(2)	1:00PM	Black Shank Nursery	Lee Newman Farm—Sumter County Randy Cabbage—County Agent
(3)	2:30PM	Curing Efficiency Studies	Baxley Farms—Marion County Bob Bett --County Agent
	3:00 PM	End of Tour	

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DIRECTIONS TO TEST LOCATIONS

- (1) Pee Dee Research and Education Center- From I-95 South take exit 169 and turn right. Go to end of road and turn left. PDREC about 1 mile on right.
- (2) Lunch and Lee Newman Farm—After leaving PDREC, turn right to I-95 South for 29 miles to exit 135. Turn right to US 378 and go 12 miles to SC 763 and turn left. After a short distance turn left to Mims Road. After crossing railroad tracks turn left, Backyard Restaurant is a short distance on the right. After lunch continue on Britton’s Road for about ¼ mile to Black Shank Nursery.
- (3) Baxley Farms—Retrace route back to US 378 and I-95 North. Continue on I-95 for 46 miles to exit 181. Turn right towards Marion. Follow SC 38 to US 501 Bypass (approximately 10 miles from I 95) to CR 19 and turn left (at antique store) onto Bluff Road. Go about 2.5 miles and turn right on Thomas road. Go 1.25 miles and turn right on Troy Atkinson Road. Go .33 miles and turn right into Baxley Farms.

We would like to thank the following sponsors for their continued support of our tobacco educational programs in South Carolina:

## **2011 TOBACCO TOUR SPONSORS**

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**BAYER CROPSCIENCE**

**CAROLINA SOIL COMPANY**

**CHEMTURA CORPORATION**

**DOW AGROSCIENCES**

**DREXEL CHEMICAL COMPANY**

**F W RICKARD SEEDS**

**GOLDLEAF SEED COMPANY**

**SYNGENTA**

2011 PEE DEE REC TOBACCO AGRONOMIC DATA

Soil Type: Norfolk loamy sand

Previous Crop: Corn

Fumigation: C-17 (10.5 gal/a in row)

Preplant : 4/11/11 8 oz Spartan, 1qt Command, 2qt Lorsban, 6 oz Ridomil (TPW).

Materials sprayed on knocked down bed and incorporated.

Tobacco Transplanted: 4/13/11 (general crop-NC 196).

Fertility: 750 lbs 6-6-18 at planting.

178 lbs of 15.5 (Cal-nitrate) ---73 lbs nitrogen total

5 lbs of 5-45-15 (starter fertilizer) in TPW.

Insect Sprays: Coragen 6 oz in TPW

Tracer- 6/6/11

Orthene- 6/15/11

Coragen- 6/24/11

Lay-by Cultivation: 5/25/11

Sucker Control: Contacts 6/13/11, 6/17/11, 6/23/11

4<sup>th</sup> application to Regional Growth Regulator and Chemtura-6/30/11.

5<sup>th</sup> application to RGR: Tr# 4, 5, 6, 7, 13, 14, 15 -7/8/11.

7/11/11- reapplied # 13, 14, and 15 due to wash-off.

6/29/11 --Royal MH and Flupro to general crop.

Rainfall since transplanting: 4/13/11 1.53" (.77" on 4/10/11)

May 3.1" June 1.1" July .5"

Irrigation: 1.5" on 6/7/11 1.5" on 6/20/11

Harvest Dates: July 7

2011 TOBACCO AGRONOMY - PEE DEE RESEARCH & EDUCATION CENTER  
 Transmitted 4/12/11 68 Rows

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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2011 Tobacco Variety Test Commercial Varieties

2011 NORTH CAROLINA FLUE-CURED TOBACCO VARIETY TEST										
Commercial Varieties										
Trt. No	Variety or Line	Generation or Year of Release	Pedigree	BS	GW	FW	RK	Bn. Sp.	Virus	Sponsor
1	GL 395	2010	Hybrid	R	R		R			GL
2	Speight 225	2003	(Sp 168 X K 346)(SPA 95 X SP 168)	R	R		R			SPT
3	CC 33	2008	Hybrid	R	R		M,j/R			CC
4	NC 297	1998	Hybrid	R	R		R		TMV	GL
5	NC 92	2007	Hybrid	R	R		TCN/R			NC
6	NC 55	1994	(K 346 X DH 1220)(K326 X Coker 371-Gold)	L	L		R		PVY/TEV	GL
7	RGH 51	1998	Hybrid	R	R		R			Rickard
8	Speight 227	2003	(SP 151 X K 346)(SP 202 X K 346)	R	R		R			SPT
9	CU 110	2010	Hybrid							SC
10	PVH 1452	2006	Hybrid	R	R		TCN/R			Profigen
11	NC 925	2010	Hybrid	R			R			NC
12	GL 368	2009	Hybrid	R	R					GL
13	CC 67	2008	Hybrid	R	R		TCN/R		TMV	CC
14	PVH 2277	2009	Hybrid	R	R					Profigen
15	CU 90	2009	Hybrid	R	R					SC
16	RG 17	1993	K 326 X K 399	L	M		R			Rickard
17	CC 65	2007	Hybrid	R	R		M,j/R			CC
18	Speight 168	1996	Coker 371G X Spl. G 118	H	H		R			SPT
19	K 346	1988	McNair 926 X 80241	H	H		R			GL
20	NC 71	1995	Hybrid	H	M		R			Rickard
21	NC 72	1996	Hybrid	H	L		R			Rickard
22	NC 606	1998	NC 729 X NC 82	R	R		R			Raynor
23	Speight 220	2002	(K-346 X Sp 117)(SP 116 X K 346)	R	R		R			SPT
24	K 326	1981	McNair 225 (McNair 30 X NC 95)	L	L		R			GL,CC,RA
25	NC 196	2002	Hybrid	R	L		R			GL
26	CC 27	2003	Hybrid	R	R		TCN/R		TMV	CC
27	GL 338	2009	Hybrid	R	R					GL
28	CC 700	2005	Hybrid	R	R		TCN/R			CC
29	PVH 1118	2004	Hybrid	R	R		TCN/R			Rickard
30	CC 13	2005	Hybrid	R	R		M,j/R			CC
31	GL 939	1992	McN 926 X 80241	R	R		R			GL
32	K 149	1988	((G-28X354)X(CB-139XF-105)X(G-28X354)) McNair 399	M	H		R			GL
33	CC 304	2010	Hybrid	R	R		R		TMV	CC
34	CC 37	2006	Hybrid	R	R		TCN/R	M,j/R	TMV	CC
35	K 399	1979	(C-139 X C-139) X NC 95							GL
36	PVH 2248	2010	Hybrid		R		R1			Profigen
37	GF 318	2008	Hybrid	R	R		R			GF
38	PVH 2275	2010	Hybrid		R		R1		PVY/TEV	Profigen
39	NC 299	2001	Hybrid	R	R		TCN/R			CC
40	NC 291	1997	Hybrid	R	R		TCN/R		PVY/TEV	CC
41	PVH 1596	2008	Hybrid	R	R		R			Profigen
42	NC 102	2001	Hybrid	R	R				TMV/PVY	Rickard
43	Speight 236	2005	(SP 168 X SP 196)(SP 179 X SP 177)	R	R		R			SPT
44	K 394	1983	Speight G-28 X McNair 944	H	M					GL
45	PVH 2110	2005	Hybrid							Profigen
46	NC 471	2003	Hybrid	R	R				TMV	Raynor

<sup>1</sup>Resistance; H - High; M - Moderate; L - Low; R - Resistance; T - Tolerant; Su - Susceptable  
Diseases: BS - Black Shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot; Bn. Sp. - Brown Spot;  
TMV - Tobacco Mosaic Virus; PVY - Potato Virus Y; TSMV - Tomato Spotted Wilt Virus;  
TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus; M.j. - Meloidogyne javanica



2011 NORTH CAROLINA FLUE-CURED REGIONAL SMALL PLOT TEST										
GEORGIA, SOUTH CAROLINA, NORTH CAROLINA, AND VIRGINIA										
Trt. No	Variety or Line	Generation or Year of Release	Pedigree	BS	GW	FW	RK	Bn. Sp.	Virus	Sponsor
1	NC 2326	1965	(Hicks X 9102)(Hicks)Hicks)Hicks)	L	SU	M				NC
2	NC 95	1961	(C-139XBel.4-30)x(C-139XHicks)	L	H	M	R			NC
3	K 326	1981	McNair 225 (McNair 30 X NC95)	L	L		R			GL
4	CC 143	F1	Hybrid	R	R		R			CC
5	CU 144	F1	Hybrid							SC
6	PXH 11	F1	Hybrid	R	R	R	R		TMV PVY	Rickard
7	CU 164	F1	Hybrid							SC
8	NCEX38	F1	Hybrid	R	R		R		TMV	NC
9	CU 124	F1	Hybrid							SC
10	GLEX 336	F1	Hybrid	R	R		R			GL
11	PXH 10	F1	Hybrid	R			R1&2		TMV PVY	Rickard
12	NCEX31	Advanced		R	R		R			NC
13	PXH 8	F1	Hybrid	R	R		R			Rickard
14	GLEX 367	F1	Hybrid	R	R		R			GL
15	NCEX39	F1	Hybrid	R	R		TCN/R			NC
16	NCEX43	F1	Hybrid	R	R		TCN/R			NC
17	CC 223	F1	Hybrid	R	R		R			CC
18	CC 142	F1	Hybrid	R	R		R			CC
19	CU140	F1	Hybrid							SC
20	NCEX41	F1	Hybrid	R	R		TCN/R		TMV	NC
21	GLEX 335	F1	Hybrid	R	R		R			GL
22	PXH 9	F1	Hybrid	R	R		R			Rickard
23	CU 141	F1	Hybrid							SC
24	GLEX 325	F1	Hybrid	R	R		R			GL
25	ULT 113 Exp.	F1	Hybrid						TMV PVY	ULT
26	NCEX42	F1	Hybrid	R	R		R		TMV	NC

<sup>1</sup>Resistance; H - High; M - Moderate; L - Low; R - Resistance; T - Tolerant; Su - Susceptable  
Diseases: BS - Black Shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot; Bn. Sp. - Brown Spot;  
TMV - Tobacco Mosaic Virus; PVY - Potato Virus 'y'; TSMV - Tomato Spotted Wilt Virus;  
TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus; M.i. - Meloidogyne javanica

2011 Regional Farm Test

2011 NORTH CAROLINA FLUE-CURED REGIONAL FARM TEST										
GEORGIA, SOUTH CAROLINA, NORTH CAROLINA, AND VIRGINIA										
Trt. No	Variety or Line	Generation or Year of Release	Pedigree	BS	GW	FW	RK	Bn. Sp.	Virus	Sponsor
1	NC 2326	1965	(Hicks X 9102)(Hicks)Hicks)Hicks)	L	SU	M				NC
2	NC 95	1961	(C-139 X Bel. 4-30)X(C-139 X Hicks)	L	H	M	R			NC
3	K 326	1981	McNair 225(McNair 30 X NC 95)	L	L		R			GL
4	XP 254	F1	Hybrid	R	R				TMV	Rickard
5	CC 1036	F1	Hybrid	R	R		R			CC
6	GLEX 328	F1	Hybrid	R	R		R		TMV	GL
7	CU 1361	F1	Hybrid							SC
8	GLEX 362	F1	Hybrid	R	R	R	R		PVY	GL
9	NCEX34	F1	Hybrid	R	R		TCN/R			NC
10	ULT 123	F1	Hybrid						TMV	ULT
11	PXH 1	F1	Hybrid	R	R					Rickard
12	RJR 901	F1	Hybrid	R	R		R			RJR
13	NCTG 156	F1	Hybrid	R	R		TCN/R1&3			NC
14	GF 157	F1	NC 81 X 2012	R	R		R			GF
15	NCEX24	F1	Hybrid	R	R		TCN/R			NC
16	ULT 143	F1	Hybrid	R	R				PVY	ULT

<sup>1</sup>Resistance; H - High; M - Moderate; L - Low; R - Resistance; T - Tolerant; Su - Susceptable  
Diseases: BS - Black Shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Know; Bn. Sp. - Brown Spot;  
TMV - Tobacco Mosaic Virus; PVY - Potato Vius 'y'; TSMV - Tomato Spotted Wilt Virus;  
TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus; M.j. - Meloidogyne javanica



## 2011 Regional Sucker Control Test

1. TNS - Untreated Check
2. SUCKER PLUCKER 2.0 /2.5 GPA  
(SUPER SUCKER STUFF & PRIME+) TM (1.5 GPA & 0.5 GPA)  
STANDARD CHECK TREATMENT (TG3; TG5; TG3) 50 GPA
3. SUCKER PLUCKER 2.0 /2.5 GPA  
(SUPER SUCKER STUFF & PRIME+) TM (1.5 GPA & 0.5 GPA)  
CHECK TREATMENT FOR #2 (WITH CONVEYOR) 50GPA
4. **SUCKER PLUCKER 2.0/2.5/2.5 GPA (TG3; TG5; TG3) 50 GPA  
(APPLY ADDITIONAL APPLICATIONS IF NEEDED)**
5. **SUCKER PLUCKER 2.0/2.5/2.5 GPA (WITH CONVEYOR) 50 GPA  
(APPLY ADDITIONAL APPLICATIONS IF NEEDED)**
6. **SUCKER PLUCKER 2.0/2.5/2.5 GPA (TG3; TG5; TG3) 35 GPA  
(APPLY ADDITIONAL APPLICATIONS IF NEEDED)**
7. **SUCKER PLUCKER 2.0/2.5/2.5 GPA (WITH CONVEYOR) 35 GPA  
(APPLY ADDITIONAL APPLICATIONS IF NEEDED)**
8. **SUCKER PLUCKER 2.0/2.5/2.5 GPA (TG3; TG5; TG3)  
PRIME+ 0.5 GPA (2011 FORMULATION (TG3; TG5; TG3) 50 GPA**
9. **SUCKER PLUCKER 2.0/2.5/2.5 GPA (WITH CONVEYOR)  
PRIME+ 0.5 GPA (2011 FORMULATION (WITH CONVEYOR) 50 GPA**
10. **SUCKER PLUCKER 2.0/2.5/2.5 GPA (TG3; TG5; TG3)  
SUPER SUCKER STUFF 1.5 GPA (TG3; TG5; TG3) 50 GPA**
11. **SUCKER PLUCKER 2.0/2.5/2.5 GPA (WITH CONVEYOR)  
SUPER SUCKER STUFF 1.5 GPA (WITH CONVEYOR) 50 GPA**
12. SUCKER PLUCKER 2.0 /2.5 GPA  
PRIME+ 0.5 GPA (OLD FORMULATION WITH (TG3; TG5; TG3) 50 GPA
13. SUCKER PLUCKER 2.0/2.5 GPA  
PRIME+ / SUPER SUCKER STUFF 0.5 GPA/1.5 GPA sequential (TG3; TG5; TG3) 50 GPA  
MH APPLIED WITH CONVEYOR AFTER FIRST HARVEST
14. SUCKER PLUCKER 2.0/2.5 GPA  
PRIME+ / SUPER SUCKER STUFF 0.5 GPA/1.0 GPA sequential (TG3; TG5; TG3) 50 GPA  
MH APPLIED WITH CONVEYOR AFTER FIRST HARVEST
15. SUCKER PLUCKER 2.0/2.5 GPA  
PRIME+ / SUPER SUCKER STUFF 0.5 GPA/0.5 GPA sequential (TG3; TG5; TG3) 50 GPA  
MH APPLIED WITH CONVEYOR AFTER FIRST HARVEST

2011 CHEMTURA Tobacco Growth Regulator Test: One row plots, 3 replications -PDREC

TREATMENTS	Formulated chemical (ml/1000 ml) (applications)				Spray method (applications)			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th
1. OST/OST/FP + Conveyor 2.0 GPA/2.5 GPA/.5 GPA	40	50	50	10		5DAYS	6 DAYS	7 DAYS
2. OST 85/OST 85/RMH+FP 2.0 GPA/2.5 GPA/(1.5 GPA+.5 GPA)	40	50	50	30+ 10		5 DAYS	6 DAYS	7 DAYS
3. OST 85/OST 85/RMH+FP + Conveyor 2.0 GPA/2.5 GPA/(1.5 GPA +.5 GPA)	40	50	50	30+ 10		5 DAYS	6 DAYS	7 DAYS
4. OST 85/OST 85/RMH + FP 2.0 GPA/2.5 GPA/(1.0 GPA + .5 GPA)	40	50	50	20+ 10		5 DAYS	6 DAYS	7 DAYS
5. OST 85/OST 85/RMH + FP + Conveyor 2.0 GPA/2.5 GPA/(1.0 GPA + .5 GPA)	40	50	50	20+ 10		5 DAYS	6 DAYS	7 DAYS
6. Sucker Plucker/Sucker Plucker/Drexalin Plus 2.0 GPA/2.5 GPA/ .5 GPA	40	50	50	10		5 DAYS	6 DAYS	7 DAYS
7. TOPPED AND NOT SUCKERED								

GPA = 50 gallons per acre; Equivalentents based on 6000 plants per acre.

RMH 30 = 1.5 lb ai/gal; OST-85 = 6.01 lb ai/gal; Flupro = 1.2 lb ai/gal

Sucker Plucker = 6.01 lb ai/gal; Drexalin Plus= 1.2 lb ai/gal

1<sup>st</sup> contact 6/13/11

2<sup>nd</sup> contact 6/17/11

3<sup>rd</sup> contact 6/23/11

4<sup>th</sup> MH, FP and Drexalin: 6/30/11

## QUADRIIS FUNGICIDE –HARVEST MANAGEMENT

1. Treatment rate- 8 ozs/acre.
2. Timing: Apply Quadris 1 week before normal harvest (applied 6/30/11 in 50 gal solution with drop nozzles)

Harvest 10 days after normal harvest (treat 1).

Harvest 20 days after normal harvest (treat 2).

3. Apply Quadris 1 week before normal harvest and again 14 days later.

Harvest 10 days after normal harvest (treat 3).

Harvest 20 days after normal harvest (treat 4).

Check treatment- harvest at normal time (treat 5).

A total of 5 treatments!

## Evaluation of New Insecticides for Tobacco Hornworm, Tobacco Budworm, and Tobacco Splitworm Control on Tobacco

Francis Reay-Jones

### Greenhouse tray drench, transplant water

Coragen (DuPont):                      Chemical class: Anthranilic diamide  
Active ingredient: Rynaxypyr

New DuPont insecticide:              Chemical class: Anthranilic diamide  
(Verimark, Exirel, Benevia):      Active ingredient: Cyazypyr

### Foliar applications

Belt (Bayer):                              Chemical class: Phthalic Acid Diamide  
Active ingredient: Flubendiamide

Coragen (DuPont):                      Chemical class: Anthranilic diamide  
Active ingredient: Rynaxypyr

New DuPont insecticide              Chemical class: Anthranilic diamide  
(Verimark, Exirel, Benevia):      Active ingredient: Cyazypyr

Tracer (DowAgroSciences):        Chemical class: Naturalyte  
Active ingredient: Spinosad (44.2%)

Blackhawk (DowAgroSciences)      Chemical class: Naturalyte  
Active ingredient: Spinosad (36%)

Besiege (Syngenta):                    Chemical class: Anthranilic diamide + pyrethroid  
Active ingredients: Rynaxypyr + lambda-cyhalothrin

Denim (Syngenta):                      Chemical class: Avermectin  
Active ingredient: Emamectin benzoate

Javelin (Certis USA)                  Chemical class: Bacterium  
Active ingredient: Bt

### Map of tobacco insecticide trial, Pee Dee REC, 2011

Rep 4 A N H M V G W B K S X P R F T E Y L O U J C Z Q I D

Rep 3 V W R D X E U B H G P Y I S L F Q K C N Z T A J O M

Rep 2 V I Z M U B K Y A F L S P Q X T N O H E J D C R G W

Rep 1 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

	<u>AI/product</u>	<u>Rate</u>	<u>Unit</u>	<u>Method</u>
1	A Cyazypyr	5.1	oz/ac	TRANSPLANT
2	B Cyazypyr	6.8	oz/ac	TRANSPLANT
3	C Cyazypyr	10	oz/ac	TRANSPLANT
4	D Coragen	7	oz/ac	TRANSPLANT
5	E Cyazypyr	0.7	oz/1000	GREENHOUSE
6	F Cyazypyr	1	oz/1000	GREENHOUSE
7	G Cyazypyr	1.5	oz/1000	GREENHOUSE
8	H Tracer	2	oz/1000	FOLIAR
10	J Untreated	-	-	-
11	K Coragen	3.5	oz/ac	FOLIAR
12	L Coragen	5	oz/ac	FOLIAR
13	M Belt	2	oz/ac	FOLIAR
14	N Belt	3	oz/ac	FOLIAR
15	O Coragen	5	oz/ac	TRANSPLANT
17	Q Coragen	5	oz/ac	LAYBY
18	R Coragen	7	oz/ac	LAYBY
19	S Coragen	7	oz/ac	FOLIAR
20	T Besiege	7	oz/ac	FOLIAR
21	U Besiege	9	oz/ac	FOLIAR
22	V Denim	10	oz/ac	FOLIAR
23	X Blackhawk	2.5	oz/ac	FOLIAR
24	Y Blackhawk	3.3	oz/ac	FOLIAR
25	Z Javelin	1	lb/ac	FOLIAR

TEST: Biological Control of Bacterial wilt

LOCATION: Pee Dee REC

SPECIALIST INVOLVED: Bruce Fortnum, Director, Professor, Pee Dee REC  
Paul Peterson, Research Associate Professor  
Lanier Johnson, Extension and Research Associate  
Mark Pullen, Research Associate

VARIETY: K 346

CHEMICALS APPLIED: Telone C-17 was applied 10.5-gal/A in-row.

PURPOSE: Evaluate the effectiveness of the AVRa gene for suppression of bacterial wilt during flower removal.

TREATMENTS:

1. SC 10  $10^6$
2. SC06  $10^6$
3. Y3  $10^6$
4. SC10 + SC 11  $10^6 + 10^8$
5. SC10 + SC12  $10^6 + 10^8$
6. SC 10 + AW1  $10^6 + 10^8$
7. SC10 + SC14  $10^6 + 10^8$
8. SC06 + SC 11  $10^6 + 10^8$
9. SC06 + SC12  $10^6 + 10^8$
10. SC 06 + AW1  $10^6 + 10^8$
11. SC06 + SC14  $10^6 + 10^8$
12. Y3 + SC 11  $10^6 + 10^8$
13. Y3+ SC12  $10^6 + 10^8$
14. Y3 + AW1  $10^6 + 10^8$
15. Y3 + SC14  $10^6 + 10^8$
16. SC11  $10^6$
17. SC12  $10^6$
18. AW1  $10^6$
19. SC14  $10^6$
20. Hand topped



TEST: Maleic hydrazide application at topping for bacterial wilt control

LOCATION: Pee Dee REC, Trial 1, 2

SPECIALIST INVOLVED: Bruce Fortnum, Director, Professor, Pee Dee REC  
Paul Peterson, Research Associate Professor  
Lanier Johnson, Extension and Research Associate  
Mark Pullen, Research Associate

VARIETY: K 346

CHEMICALS APPLIED: Telone C-17 was applied 10.5-gal/A in-row.

PURPOSE: Evaluate the effectiveness of MH, applied at reduced rates, on the suppression of bacterial wilt during flower removal

Treatment list:

1. UT
2. 4 days pretrt MH 1.5 gal/A
3. 4 days pretrt MH 1.0 gal/A
4. 4 day pretrt MH 0.5 gal/A
5. Prime + 2 qt A

Inoculated with *R. solanacearum* 4 days after treatment

Rep 4	Trt	3	1	5	2	4
	Plot	16	17	18	19	20
Rep 3	Trt	5	4	2	3	1
	Plot	11	12	13	14	15
Rep 2	Trt	4	5	1	2	3
	Plot	6	7	8	9	10
Rep 1	Trt	1	2	3	4	5
	Plot	1	2	3	4	5

TEST: Maleic hydrazide application at harvest for bacterial wilt control

LOCATION: Pee Dee REC, Trial 1, 2

SPECIALIST INVOLVED: Bruce Fortnum, Director, Professor, Pee Dee REC  
Paul Peterson, Research Associate Professor  
Lanier Johnson, Extension and Research Associate  
Mark Pullen, Research Associate

VARIETY: K 346

CHEMICALS APPLIED: Telone C-17 was applied 10.5-gal/A in-row.

PURPOSE: Evaluate the effectiveness of MH, applied at reduced rates, on the suppression of bacterial wilt during leaf removal

Treatment list:

1. UT
2. 4 days pretrt MH 1.5 gal/A stem application
3. 4 days pretrt MH 1.0 gal/A stem application
4. 4 day pretrt MH 0.5 gal/A stem application
5. 4 days pretrt MH 1.5 gal/A Foliar application
6. 4 days pretrt MH 1.0 gal/A Foliar application
7. 4 day pretrt MH 0.5 gal/ Foliar application
8. Prime + 2 qt A

Inoculated with *R. solanacearum* 4 days after treatment

Rep 4	Trt	3	7	1	8	5	2	4	6
	Plot	25	26	27	28	29	30	31	32
Rep 3	Trt	5	8	4	7	2	6	3	1
	Plot	17	18	19	20	21	22	23	24
Rep 2	Trt	4	8	5	6	1	7	2	3
	Plot	9	10	11	12	13	14	15	16
Rep 1	Trt	1	2	3	4	5	6	7	8
	Plot	1	2	3	4	5	6	7	8

TEST: Biological Control of Bacterial wilt using Phage

LOCATION: Pee Dee REC

SPECIALIST INVOLVED: Bruce Fortnum, Director, Professor, Pee Dee REC  
Paul Peterson, Research Associate Professor  
Lanier Johnson, Extension and Research Associate  
Mark Pullen, Research Associate

VARIETY: K 346

CHEMICALS APPLIED: Telone C-17 was applied 10.5-gal/A in-row.

PURPOSE: Evaluate the effectiveness of phage for suppression of bacterial wilt during flower removal.

TREATMENTS:

1. Y3  $10^6$
2. SCP 3A  $10^6$
3. SCP 6A  $10^6$
4. SCP 8A  $10^6$
5. SCP 9A  $10^6$
6. SCP DILY  $10^6$
7. SCP 10A  $10^6$
8. SCP PDP  $10^6$
9. Y3 + SCP 3A  $10^6 + 10^6$
10. Y3 + SCP 6A  $10^6 + 10^6$
11. Y3 + . SCP 8A  $10^6 + 10^6$
12. Y3 + . SCP 9A  $10^6 + 10^6$
13. Y3+ . SCP DILY  $10^6 + 10^6$
14. Y3 + . SCP 10A  $10^6 + 10^6$
15. Y3 + . SCP PDP  $10^6 + 10^6$
16. Y3  $2 \times 10^6$
17. UTC
18. Hand topped

### Phage Trial 2011

18	11	6	2	3	7	15	1			
12	13	8	17	9	14	10	5	4	16	
<b>55</b>	<b>56</b>	<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>	<b>61</b>	<b>62</b>	<b>63</b>	<b>64</b>	<b>ROW NUMBER</b>
5	17	13	8	3	18	11	10			
6	1	15	9	4	16	12	7	14	2	
<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>ROW NUMBER</b>
5	10	16	2	7	13	9	4			
11	15	6	14	3	12	18	1	8	17	
<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>ROW NUMBER</b>
11	12	13	14	15	16	17	18			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>ROW NUMBER</b>

2011 Bacterial Wilt									
	K 346	K 149	CU 141	NC2326	CC 143	CC 33	PVH2275	GLEX328	CC 13
	CC 304	NC 606	GLEX335	GL 338	NC 471	GLEX325	GLEX367	K 326	GL 939
	PVH1118	ULT 123	NC 71	ULT 113	SPT 225	ULT 143	GF 318	CU 124	PXH9
	PXH8	SPT 220	PVH1596	NCEX42	PVH2277	NC 102	NC 95	GLEX336	CC 700
	GF 157	PXH1	PVH1452	CC 223	SPT 227	GLEX362	PVH2248	GL 368	PXH10
	CC 142	PXH11	NC 55	CC 27	NCEX24	NC 299	NC 297	SPT 168	NCEX41
	CU 140	CU 90	XP 254	NCEX31	CC 67	NC 92	CU 144	NCTG156	NC 291
	CU 164	NC2326	K 326	RGH51	K 399	NC 72	RJR 901	SPT 236	CU 136
	CU 110	PVH2110	GL 395	K 326	CC 65	NCEX34	K 394	NC 925	NCEX43
	NC 102	NCEX38	NC 95	CC 1063	NC 196	CC 37	RG 17	NCEX39	K 399
	ULT 143	GF 318	PVH2248	NCEX43	SPT 168	NCEX41	CU 140	K 346	GL 395
	GLEX335	NCEX24	NC 471	CC 142	SPT 225	GF 157	PVH2110	CC 223	PVH2277
F	NCTG156	PVH2275	SPT 227	NCEX42	CC 13	ULT 123	NC 95	RGH51	K 394
R	CU 141	CU 90	CU 124	NC 95	SPT 236	NCEX34	CC 700	PXH8	CU 110
O	ULT 113	NC 72	NC 291	RJR 901	PXH10	PVH1452	CC 37	GLEX336	GL 338
N	CC 67	NCEX31	PVH1596	PXH1	GLEX325	NC 55	NC 71	GLEX362	NC2326
I	CU 144	CC 65	CC 33	K 326	NC 297	CC 143	CU 136	K 326	NC 925
	NC 92	RG 17	CC 304	NCEX38	NC 196	GL 368	NC 2326	NC 299	GLEX328
	PXH9	PXH11	K 326	PVH1118	XP 254	SPT 220	GLEX367	GL 939	NCEX39
	NC 606	CU 164	CC 1063	K 149	CC 27	ULT 123	NC 471	PVH1452	NCEX42
	NC2326	K 394	NC 196	PXH8	RGH51	ULT 143	PVH2248	GL 395	NC2326
	GLEX325	SPT 225	SPT 236	NCEX24	K 399	NC 606	SPT 220	ULT 113	NC 95
	GL 338	PVH2110	GLEX367	GLEX328	NC 925	K 326	NCEX31	CU 141	GF 318
	CU 140	CC 33	PVH2275	NC 95	NCEX41	NC 297	PXH9	NC 299	CU 136
	CC 1063	CC 304	PXH10	CC 67	CC 143	K 326	NC 291	SPT 227	K 326
	GLEX335	GLEX336	CC 700	XP 254	NC 102	NCEX39	NC 55	CC 37	NC 92
	CC 142	PVH2277	CC 27	PVH1596	GLEX362	CU 144	GL 368	NC 71	GL 939
	NCEX43	NC 72	K 149	GF 157	CC 223	CU 110	CC 13	PXH1	K 346
	CU 164	RJR 901	CU 90	CU 124	NCTG156	PVH1118	SPT 168	NCEX38	PXH11
	CC 65	RG 17	NCEX34						





**Stop # 3: Curing Efficiency Demonstrations**

Location—Baxley Farms

Marion County--- Agent in Charge—Bob Bett

Things to See!

Automatic Damper Controls: Can save 35% or more on fuel usage!

Adding additional insulation to old barns: Can save up to 30%!

Humidity Control System: To be evaluated: Clark Rast—Marco Equipment Company!

