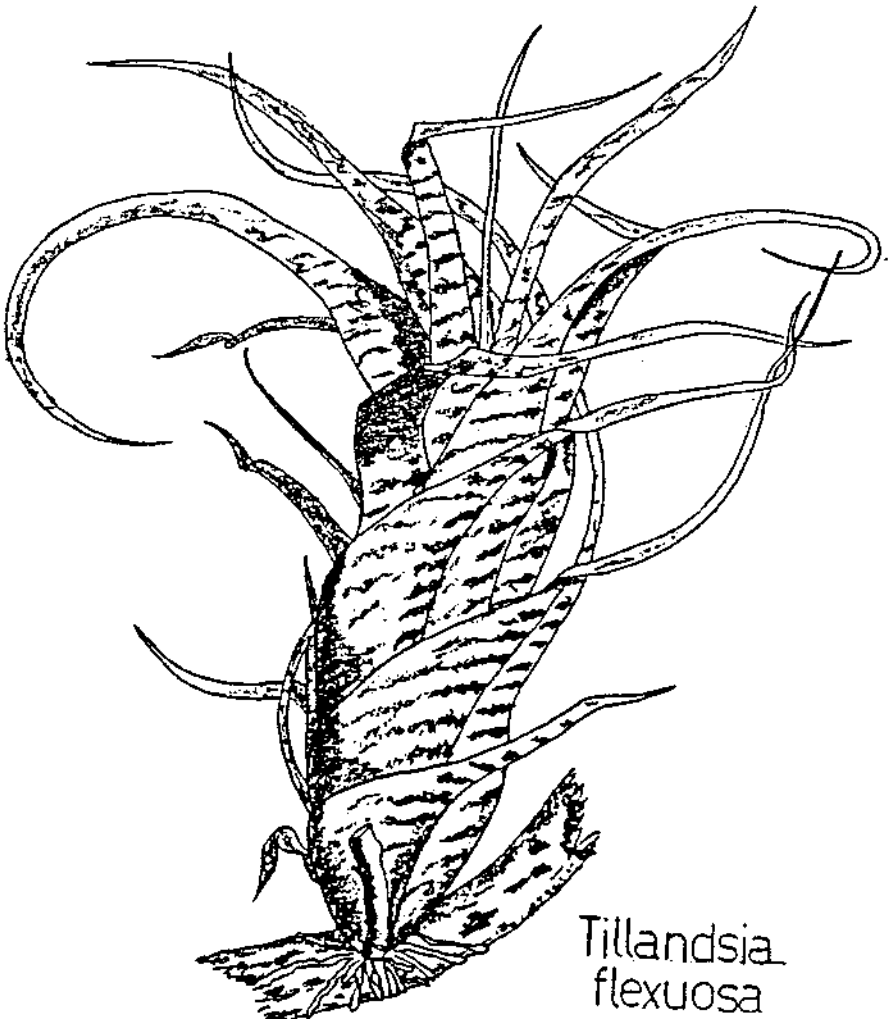
Bromeliaceae

Postal Address: P.O. Box 565
Fortitude Valley Qld. 4006

REGISTERED BY AUSTRALIA POST
PUBLICATION NO. QBH 1849

VOLUME XXI #2
MARCH - APRIL, 1987



Tillandsia flexuosa

BROMELIAD SOCIETY OF QUEENSLAND:

Postal Address: P.O. Box 565,
FORTITUDE VALLEY.
AUSTRALIA. 4006

General Meetings are held on the third Thursday of each month except December, at the Uniting Church Hall, Warner Street, Fortitude Valley, commencing at 7.30 p.m.

==========

PATRON:	Mr. H. Caulfield	
PRESIDENT:	Mr. R. Paulsen	2970415
SECRETARY:	Mrs. M. Marshall	2774275
TREASURER	Mr. G. Stewart	2779965
EDITOR:	---	

==========

PROGRAMME

MARCH, 19th — General Meeting -

Round Robin:

1. Peter Paroz — Removing Offsets
2. John Higgins — Displaying Plants
3. Greg Stewart — Preparing Show Plants

APRIL, 16th — General Meeting -

Slide Programme:
Aechmea Jewels Part 2

APRIL, 17th-20th — Bromeliads IV, Adelaide

The Secretary still has Registration Forms for the Bromeliads IV Conference in Adelaide at Easter. If you wish to make a late registration, please ring the Secretary so one can be forwarded to you.

EDITORS NOTES

Well, we have gone past our dreaded Annual General Meeting, and I must say it turned out to be one of the best I have attended since joining the Society.

The reason it went so smoothly is that one of our members, namely John Higgins, had all the prospective positions covered by nomination forms prior to the commencement of the meeting. This makes things a lot easier in the actual meeting, rather than having to get nominations from the floor. Surely a lesson has been learnt here.

This is my last Editorial as Editor, as hopefully the new Editor will be on the job from next edition, although the job has not yet been formerly filled. I took the job on this year to help out as no-one was prepared to do it, and ended up enjoying it. I hope you also got some enjoyment out of it.

I would like to thank our outgoing President, Mrs. Joan Imray, for the job she did during the year by filling in as President after our disastrous 1986 A.G.M., where a President couldn't be found. It is not easy to do a job in these circumstances.

Thanks must also go to Joe Dunlop who took on the job of Show Organiser, in the absence of nominations. As you know, Joe isn't exactly a spring chicken, but took the bit between his teeth and organised the Show set-ups to perfection. A huge amount of work went into organising rosters for R.N.A. and Combined Show, and checking on gear etc., and also supervising the set ups.

To all outgoing and present Committee people, thank you on behalf of the President for all the work, time and effort you put in during the year for the Society's benefit.

On to the new year, and it is our duty to give our new President, Mr. Bob Paulsen, as much support and help as we can, and I'm sure all members will oblige.

Editor
Greg Stewart

Nematology Circular No. 129
May 1986

Fla. Dept. Agric & Consumer Serv.
Division of Plant Industry

TYLENCHOCRICONEMA ALLENI, A PATHOGEN OF THE BROMELIAD, TILLANDSIA FLABELLATA

P S. Lehman[1]

In 1974, an unusual nematode species was recovered from soil about the roots of a bromeliad shipped from Guatemala to California. This nematode was described as a new species and named Tylenchocriconema alleni Raski and Siddiqui (2). The genus and species of the bromeliad associated with the soil from which the type species was recovered was not determined. Nor was it known if T. alleni parasitized the roots or foliage of bromeliads or any other plant. The biology of this nematode remained unknown until 1984, when a nematologist in The Netherlands observed T. alleni parasitizing the leaves of Tillandsia flabellata Bak. (1). It is interesting to note that the bromeliad on which this nematode was found in The Netherlands had also been shipped from Guatemala. Recent research in The Netherlands indicates that this nematode has the potential to be very pathogenic to Tillandsia flabellata (1).

Key characteristics of Tylenchocriconema alleni: Females have an enlarged metacorpus which merges with the procorpus, and males have a degenerate esophagus. These are characteristics of the superfamily Criconematoidea. This nematode, however, shares other characteristics with the superfamily Tylenchoidea, such as long caudal alae in males, elongate isthmus in females, and fine body annulation in males and females (Fig. 1). Because T. alleni shares characteristics with both superfamilies, Raski and Siddiqui gave it the generic name Tylenchocriconema and placed it in a new family and superfamily, Tylenchocriconematidae and Tylenchocriconematoidea, respectively.

Parasitic behavior: Nematodes do not penetrate the leaf, but feed by only piercing the leaf cells with their stylets (Fig. 2). The largest number of Tylenchocriconema alleni are found in the crown of the plant, just below the waterline. As many as 35,000 nematodes have been recovered from an infected plant (1).

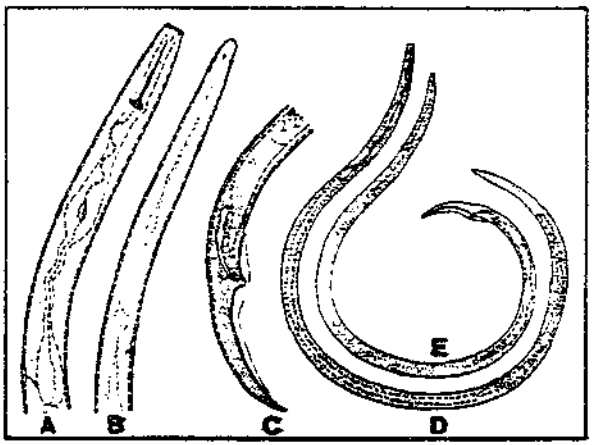


Fig. 1. Tylenchocriconema alleni. A. female, anterior end. B. Male anterior end. C. male tail. D. Female, full length. E. Male, full length. (after Raski and Siddiqui)

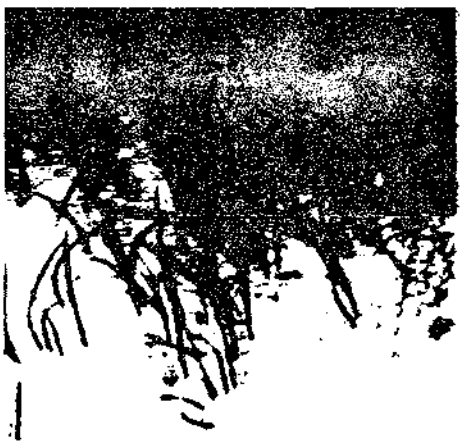


Fig. 2. Tylenchocriconema alleni feeding on Tillandsia flabellata leaf. (Photo courtesy of B. Brinkman)

[1]Nematologist, Bureau of Nematology, P.O. Box 1269, Gainesville, FL 32602

Symptoms: Healthy plants begin to show light brown spots on the top leaf surface six weeks after inoculation with this nematode. Later these spots become discrete, dark brown lesions (Fig. 3). As the infection progresses, flowering is inhibited, and severely infected leaves die. Severely infected plants may die.

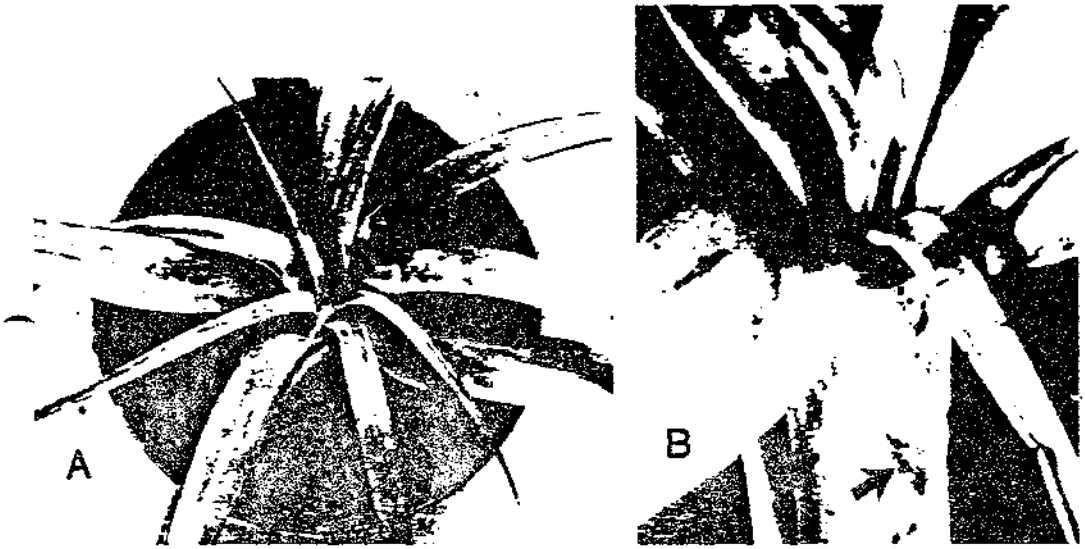


Fig. 3. Lesions on leaves of Tillandsia flabellata caused by Tylenchocriconema alleni. A. General aspects of a plant showing several lesions in the crown. B. Close-up of early symptoms of lesion development (arrow). (Photos courtesy of H. Brinkman)

Control: When the leaves die, clusters of nematodes and eggs remain on the dried leaves. These clusters appear to the naked eye as a wool-like mass. It is possible that nematodes may be dispersed on dead leaf material (1). Dead leaves of infected plants should be discarded.

Preliminary research indicates that this nematode may be controlled with oxamyl (1). Concentrations of 0.005% a.i. apparently gave complete control, and a higher concentration of 0.025% a.i. was not phytotoxic (personal communication Dr. P. W. Maas, Wageningen, The Netherlands).

Survey and Detection: Bromeliads originating from Central America should be inspected very carefully for this nematode, although the possibility of its originating from European countries or from other parts of the United States should not be precluded. The author is interested in surveying Tillandsia flabellata and other bromeliads in Florida for Tylenchocriconema alleni. Submit bromeliads with leaf lesions to the Division of Plant Industry Nematology Bureau, and indicate that the purpose of the submission is for the T. alleni survey.

LITERATURE CITED:

1. Brinkman, H. 1985. Tylenchocriconema alleni een bijzonder aaltje in de bladkoker Tillandsia flabellata, p. 79-80. In Jaarboek 1984, Plantenziektenkundige Dienst, Wageningen, The Netherlands.
2. Raski, D. J., and I. A. Siddiqui. 1975. Tylenchocriconema alleni n.g. n.sp. from Guatemala (Tylenchocriconematidae n. fam.: Tylenchocriconematoidea n. superfam.; Nematoda. J. Nematol. 7:247-251.

Contribution No. 306, Bureau of Nematology

This publication was issued at a cost of $516.21 or .15 per copy to provide information on proper recognition of plant pests. PI86T-19

Our thanks to Harry Luther, Marie Selby Botanical Gardens, for providing this information.

BROMELIAD

BALANCE

ACCUMULATED MEMBERS FUNDS 1986

Balance brought forward 1.1.86		24282.17
Capital Purchases for Year -		
Projector	1322.00	
Pot Saucers	95.04	1417.04
Purchase of Stock for Resale -		
Sales Stickers	610.94	
Books	307.17	918.11
Return of Advances -		
Publisher	25.00	
Seed Bank	100.00	(125.00)
Adjust Value of Stock on Hand -		
Society Badges		(7.50)
Adjust Equity in Combined Show		172.50
Excess Income/ Expenditure 1986		1463.42
		28120.74
LESS Depreciation Adjustment		302.01
		27818.73
LESS Subscriptions in Advance		114.00
		27704.73

I hereby certify that this Balance Sheet represents a true and correct record of the financial affairs of the Bromeliad Society of Queensland as at 31.12.86

RUTH HIGGINS	Ruth Higgins	TREASURER
JOAN IMRAY	Joan Imray	PRESIDENT
JOHN WILKINS	John V. Wilkins AASA.	AUDITOR

SOCIETY OF QUEENSLAND

SHEET AS AT 31.12.86

ASSETS 1986

Typewriters - 1 x 213.23			
1 x 202.50		+	415.73
Cupboard		+	102.82
Recorder		+	42.25
Projector		+	32.72
Display Materials		+	466.91
PoolPump		+	26.65
P.A. System		+	263.33
[illegible]estetner		+	387.75
[illegible]uffle Equipment		+	87.12
Trailer		+	911.25
Calculator		+	77.40
B.S.I. Slides		+	206.19
Projector			1322.00
Pot Saucers			95.04
Library			800.00
Goods for Resale -			
Books	2184.04		
Tea Towels	57.75		
Sales Stickers	999.14		
Society Badges	602.86		
Name Badges	7.50		3855.29
Term Deposits - A.N.Z. Bank			12500.00
N.A.B. A/c as at 31.12.86			
Society	2947.15		
Bromeliads III Conference	2506.96	*	
	5454.11		
LESS Subscriptions in Advance	114.00		5340.11
[illegible]vances -			
Secretary	25.00		
Treasurer	25.00		50.00
Share Equity in Combined Show			1024.18
			28006.74
LESS Depreciation on items marked + (10% of $3020.13)			302.01
			27704.73

* Earmarked for printing of Conference Proceedings

TRYING TO GROW CRYPTANTHUS BEUCKERI

In 1982, when I first started to get interested in growing *Cryptanthus*, I noticed that *Cryptanthus beuckeri* was harder to grow than most species.

On talking to another grower, I found out what the most applicable mix would be for this species. I was advised hammer mill bark, peanut shell and rice husk would probably be the best.

After using this mix for some time, I found that the Queensland nut shell just about lasts forever, but hides small snails in the half moon of the shell. The rice husks started to sprout and attracted mice. This resulted in the rice husk and Queensland nut shell being dropped from my mix.

At one of our General Meetings, Norm Catlan advised me to try about half a teaspoon of 'Osmocote' (3 months) to each pot and found that the Cryptanthus immediately started to grow much better in a mix of peanut shell and hammer mill bark.

I did not like the idea of using any feral soil in the mix because of the risk of introducing a fungal virus.

On further advice, another experienced grower, I added leaf mould and mulch to my mix with further good results. The mix I now use for my Cryptanthus is as follows -

1 bucket leaf mould
½ bucket hammer mill bark and peanut shell
1 good scoop of coarse sand
applicable abount 3 month 'Osmocote'
½ bucket coolite granules ¼" square

I have been growing the *Cryptanthus beuckeri* on a bench in the greenhouse and I found tha plants lose their colour from too much light and change to a pinkish green colour. I now grow the *Crypt. beuckeri* under a bench and on the floor of the greenhouse, which is covered with wood chip. The new offset growth I now have is identical to the true *Crypt. beuckeri*, with colouring of a green fleck design.

I now grow all my Cryptanthus in this manner with excellent results.

Doug Reilly

COMBINED SHOW 1987 - COMPETITION SCHEDULE

1. TILLANDSIA
2. VRIESEA
3. OTHER TILLANDSIOIDEAE
4. TILLANDSIOIDEAE IN FLOWER
5. CRYPTANTHUS
6. BILLBERGIA
7. AECHMEA
8. NEOREGELIA
9. NIDULARIUM
10. INTERGENERIC
11. OTHER BROMELIOIDEAE
12. BROMELIOIDEAE IN FLOWER
13. HECHTIA / DYCKIA
14. PITCAIRNIA
15. OTHER PITCAIRNIOIDEAE
16. SPECIMEN - ANY GENUS, 3 OR MORE CONNECTED MATURE PLANTS
17. NOVICE - ANY BROMELIOIDEAE (ENTRANT NEVER WON FIRST PRIZE)
18. MINIATURE DISPLAY - NOT TO EXCEED 1 METRE IN ANY DIMENSION, INCLUDES TERRARIUMS
19. NOVELTY DISPLAY - NOT TO EXCEED 1 METRE IN ANY DIMENSION
20. FLORAL DISPLAY - CUT BROMELIAD FLOWERS AND/OR BERRIES AND BRACTS, ACCESSORIES PERMITTED

cont.

21.	BEST TILLANDSIOIDEAE	Nez Misso Memorial Trophy
22.	BEST BROMELIOIDEAE	Hudson Perpetual Trophy
23.	BEST CRYPTANTHUS	Grace Goode Perpetual Trophy
24.	BEST PITCAIRNIOIDEA	

25. RESERVE CHAMPION BROMELIAD OF THE SHOW

26. CHAMPION BROMELIAD OF THE SHOW

TOM SCHOFIELD MEMORIAL AWARD - CHAIRMAN'S AWARD

(Awarded at the discretion of the Chairman of the Combined Show Committee - to be announced)

The Competition Schedules/Conditions of Entry will be available from the March meeting from the Chief Competition Steward, Patricia O'Dea.

Please support your Society in this activity at this year's Combined Show.