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Meloidogyne javanica

Fusarium oxysporum

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Fusarium

Meloidogyne javanica

oxysporum

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Phaseolus

P. vulgaris L.

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F.oxysporum Schlecht

M. ()
() *javanica*

– Rutgers
: : – *Meloidogyne* *F.oxysporum*
javanica (Treub) Chitwood

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M. javanica

F. solani *F.oxysporum*

F.oxysporum

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(T₁) (T₄) %

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(T₃) (T₁) (T₁)

b (T₅) a (T₄, T₃) (T₂)

c (T₄)

T₄ ()

T₄ T₃

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(T₄) T₁ (T₁)

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	b ₁	b ₂	b ₁	b ₂	b ₁	b ₂	b ₁	b ₂	b ₁	b ₂	b ₁	b ₂
T ₁	/ b	/ b	/ a	/ ab	/ bc	/ bc	/ b	/ b	/ bc	/ b	/ ab	/ ab
T ₂	/ bc	/ bc	/ ab	/ ab	/ b	/ b	/ c	/ b	/ b	/ b	/ bc	/ c
T ₃	/ dc	/ dc	/ c	/ b	/ bc	/ dc	/ b	/ b	/ dc	/ b	/ b	/ c
T ₄	/ bcd	dc	/ c	/ b	/ bc	/ bcd	/ bc	/ b	/ dc	/ b	/ bc	/ c
T ₅	d	/ d	/ bc	/ b	/ c	/ d	/ bc	/ b	/ d	/ b	/ c	/ bc
T ₆	/ a	a	/ a	a	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a

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	(800g)		(P _f)		(R)								
	b ₁	b ₂	b ₁	b ₂	b ₁	b ₂	b ₁	b ₂	b ₁	b ₂	b ₁	b ₂	
T ₁	/ a	/ a	a	/ a	/ a	/ a	/ a	/ a	a	a	/ a	/ a	
T ₃	/ a	/ a	/ a	/ a	a	/ a	/ ab	/ a	/ a	/ a	/ a	/ a	
	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	
T ₄	/ c	/ b	b	a	/ c	/ c	/ b	/ b	c	/ c	/ c	/ c	
	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	
T ₅	/ bc	b	ab	a	/ b	/ b	/ b	/ a	/ b	b	/ b	/ b	
	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)	
=b ₁			=T ₅			=T ₄			=T ₃ ()			=T ₁	
.													
T ₁													
*													
=b ₂													

M. javanica *F. oxysporum*

%			
b ₁	b ₂	b ₁	b ₂
/ ab	abc	/ d	/ dc
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/ ab	/ abc	d	bc
()	(/)	()	()
ab	/ ab	b	/ ab
()	(/)	()	()
/ b	/ bc	/ c	/ dc
()	()	()	()
/ a	/ a	/ a	/ a
()	(/)	()	()
/ b	c	/ d	/ d
=T ₃		=T ₂	
=T ₅		=T ₄	
)		=T ₆	
.(T ₆	
=b ₂		=b ₁	

(R)		(P _f)		%	
R	P _f	R	P _f	(T ₁)	(T ₄)
(T ₅)	(T ₄)	(T ₃)	(T ₁)		
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%					
(T)	(T ₃)				
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%					
(T ₅)					
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(T ₄)					

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F.oxysporum f.sp.lentis *M.javanica* *F.oxysporum* *M.javanica*

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1. Giant cell

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(T₄)

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F. oxysporum f. sp.

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M.

phaseoli

F. oxysporum

javanica

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F.oxysporum

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M.incognita

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F.oxysporum

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F. oxysporum f.sp. *phaseoli*

M. incognita

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