

> < 0 B 5 => 4 J @ 2 > - Tamarillo, *Cyphomandra betacea*

gradinar, = 5 4 5 ; O 25 O = C 0 @ 8 2009 - 10:06:11

0 @ 8 G 0 B 3 > 4 > < 0 B, ? > @ 0 4 8 ? > @ 0 7 8 B 5 ; = 0 B 0 < C ? @ 8 ; 8 : 0 = 0
? ; > 4 > 2 5 B 5 < C A ? ; > 4 > 2 5 B 5 = 0 > 1 8 : = > 2 5 = 8 O 4 > < 0 B.
7 2 5 A B => 5 A J I > B 0 : 0 : 0 B > B 0 < 0 @ 8 ; > 8 ; 8 F 8 D > < 0 = 4 @ 0.
@ 8 ; 8 : 0 B 0 8 < = 5 A 5 8 7 G 5 @ ? 2 0 A 0 < > A ? ; > 4 > 2 5 B 5. 4 2 5 B 5
@ 0 A B 5 = 8 O A 5 > B = 0 A O B : J < A 5 < 5 9 A B 2 > : 0 @ B > D 5 = 8 8 ; 8
1 0 @ 1 > 9 = 8 (Solanaceae), ? @ > 8 7 E > 6 4 0 I 8 > B . 6 = 0 < 5 @ 8 : 0. " 0 <
F 8 D > < 0 = 4 @ 0 B 0 A 5 > B 3 ; 5 6 4 0 > B ? 8 @ C 0 = A : 8 B 5 8 = 4 8 O = F 8. = 5 A
A 5 : C ; B 8 2 8 @ 0 8 2 B @ > ? 8 G 5 A : 8 B 5 > 1 ; 0 A B 8 = 0 > 2 0 5 = ; 0 = 4 8 O,
0 = 0 @ A : 8 B 5 > A B @ > 2 8, 0 4 5 9 @ 0 8 / 2 0. @ 5 7 ? > A ; 5 4 = 8 B 5
3 > 4 8 = 8 A 5 A @ 5 I 0 ? > A @ 5 4 8 7 5 < = > < > @ 8 5 B >, B 0 4 > @ 8 8 C = 0 A -
: 0 B > > ? 8 B = > @ 0 A B 5 = 8 5 2 = 0 C G = 8 8 = A B 8 B C B 8, 0 : 0 B > 5 : 7 > B 8 : 0 -
> B < = > 3 > ; N 1 8 B 5 ; 8. @ 8 = 0 H 8 B 5 ; ; 8 < 0 B 8 G = 8 C A ; > 2 8 O 2 8 @ 5 5
: 0 B > : > = B 5 9 = 5 @ = > @ 0 A B 5 = 8 5 2 7 0 : @ 8 B 8 ? > < 5 I 5 = 8 O.
0 A 0 4 5 = 0 2 3 > ; 5 < 8 A 0 : A 8 8. 7 4 J @ 6 0 4 > 2 5 3 @ 0 4 C A 0 ? >
D 0 @ 5 = E 0 9 B 8 ; 8 3 3 @ 0 4 C A 0 ? > F 5 ; 7 8 9. "> 5 5 4 = >
8 7 ; ; N G 8 B 5 ; = > 1 J @ 7 > @ 0 7 2 8 2 0 I > A 5 @ 0 A B 5 = 8 5, E @ 0 A B 8 ; 8
4 J @ 2 >. > A B 8 3 0 4 > 2 8 A > G 8 = 0 2 0 D C B 0.

7 8 A : 2 0 < = > 3 > 2 > 4 0 8 4 > 1 @ > > B 2 > 4 = O 2 0 = 5 (7 0 4 J @ 6 0 = 5 B >
= 0 2 > 4 0 I 5 C 1 8 5 @ 0 A B 5 = 8 5 B > A 0 < > 7 0 = O : > ; : > 4 = 8), H 8 @ > : >
? > < 5 I 5 = 8 5 A N 6 = > 8 7 ; > 6 5 = 8 5 8 ? > 2 5 G 5 A 2 5 B ; 8 = 0. @ 5 7
; O B > B > @ 0 A B 5 = 8 O B 0 < > 3 0 B 4 0 A 5 8 7 = 0 A O B = 0 B 5 @ 0 A 0 B 0 8 ; 8 2
3 @ 0 4 8 = 0 B 0 = 0 > B : @ 8 B >. 1 8 G 0 7 0 I 8 B 5 = > > B 2 O B J @ 0 < O A B >,
7 0 I > B > : ; > = : 8 B 5 A 0 : @ 5 E : 8 8 F 2 5 B > 2 5 B 5 < > 6 5 4 0 > B ? 0 4 0 B.

@ 5 7 ; O B > B > @ 0 A B 5 = 8 O B 0 F J D B O B = 5 ? @ 5 : J A = 0 B >, : 0 B > > B
F 2 5 B > 2 5 B 5 A 5 @ 0 7 = 0 A O ? @ 8 O B = > 1 ; 0 3 > C E 0 = 8 5 ? > 4 > 1 = > = 0
; 8 < > =. " 5 A 0 4 @ 5 1 = 8 8 = O < 0 B 4 5 : > @ 0 B 8 2 = 0 A B > 9 = > A B.
> @ > = 0 B 0 ? @ 5 7 F O ; 0 B 0 3 > 4 8 = 0 5 > B @ C ? 0 = 0 5 4 = > 2 @ 5 < 5 = >
A B > : C I > > 1 @ 0 7 C 2 0 = 8 ? ; > 4 G 5 B 0 A = 0 5 4 @ 5 ; 8 7 5 ; 5 = 8 8
7 @ 5 5 I 8 2 @ 0 7 ; 8 G = 0 D 0 7 0 B 0 : 0 G 5 2 8 = 0 3 8 8 < 0 B 5 3 > B > 2 8 7 0
: > = A C < 0 F 8 O. & 8 D > < 0 = 4 @ 0 B 0 4 > A B 8 3 0 2 = C H 8 B 5 ; = 8 B 5 A 8
@ 0 7 < 5 @ 8 1 ; 0 3 > 4 0 @ 5 = 8 5 = 0 E 0 @ 0 : B 5 @ = 8 O 7 0 = 5 O 1 C 5 =
@ 0 A B 5 6. = > 3 > > @ 8 3 8 = 0 ; = 8 A 0 A J @ F 5 2 8 4 = 8 B 5 ; 8 A B 0, : > 8 B >
= 0 ? > 4 > 1 O 2 0 B ; 8 A B 0 B 0 = 0 A ; J = G > 3 ; 5 4. > A B 8 3 0 B 4 > 2 5 A <
4 J ; 6 8 = 0 8 2 0 A < H 8 @ 8 = 0, 0 < > 6 5 1 8 8 ? > 2 5 G 5. 0 A > 2 8 O B F J D B 5 6
5 ? @ 5 7 0 9. ! ; 5 4 : > 5 B > ? > A B 5 ? 5 = > = 0 < 0 ; O 2 0, = >
? @ > 4 J ; 6 0 2 0 ? @ 5 7 F O ; 0 B 0 3 > 4 8 = 0, 8 2 J 2 2 J 7 4 C E 0 2 8 = 0 3 8 A 5

GC2AB20 ?@8OB=8OB ?0@DN<5= 0@><0B. 0718@0 A5 =09-3>;O<
8=B5@5A ?@54AB02;O20B ?;>4>25B5, >A25=, G5 A0
45:>@0B82=8, B5 A0 8 <=>3> 2:CA=8. >@048 A;04>ABB0 A8, B5
?>-A:>@>=0?>4>1O20B ?;>4=0>2>I=> 4@J2G5, 0=5=0
75;5=GC:. >=AC<8@0B A5 ?@5A=8 8 ?@5@01>B5=8. >30B>
A5 :>=AC<8@0 ?@5A5=, ?;>4JB A5 A@O720 =0 ?>;>28=0 8 A5
874J;1020 A ;J68G:0 157 :>68F0B0. ;>4>25B5 AJ4J@60B
28B0<8= , 28B0<8= ! 8 A0 1>30B8 =0 28B0<8= 8 65;O7>. >
D>@<0 A0 ?@>4J;3>20B8, 4J;38 4>5-6 A0=B8<5B@0. =0 B53;>
4>AB830B 4>80-100 3@. 0?>G20B <0A>2> 40 C7@O20B ?@57
:B><2@8. !0;0B0B0 >B BOE =5 5 B8?8G=0 70 1J;30@A:0B0
:CE=O, 70I>B> A;04=8, 8 8<0 ;5:> ?0@DN<5= 0@><0B.
0B>20 ?J: >B BOE <>65B5 40 ?@83>B28B5 A;04:0, :>=D8BN@8
8 <0@<0;048 A <8=8<0;=> :>;8G5AB2> 70E0@ 8 157
0@><0B878@018 ?>4?@02:8.

07<=>6020=5- >18:=>25==> G@57 A5<5=0, => 5
2J7<>6=> 8 2535B0B82=>. >65 40 A5 275<0B A5<5=0 >B
4>1@5 C7@5;8 ?;>4>25. !5<5=0B0 =8:=0B 1J@7> 8 @07A040
>18:=>25=> ?>:0720 <=>3> 5=5@38G5= @0AB56. @5<5B>
70 ?>:J;20=5 BJ9 :0B> A5 >B3;5640B AB09=>, =5 5 >B
>A>15==> 7=0G5=85. !5<5=0B0 A5 ?>:J;20B 2 ?0@=8F8,
>18:=>25=> @0=>=0 ?@>;5B :0B> >18:=>25=8O 4><0B,
?@8 B5<?5@0BC@022-25 3@04CA0 F5;789. >=8:20B 2 @0<:8B5 =0
3-4 A54<8F8. !;54 <5A5F ?8:8@09B5 @0AB5=8OB0 2 A0:A88,
?>-3>;5<8G:8. 70 A57>=0 <>65 40 A5 =0;>68 40 A5
?@5E2J@;OB 2 ?>-3>;5<8 A0:A88 =O:>;> ?JB8. ?@8
?>A;54=>B> ?@5E2J@;O=5 AJ4JB B@O120 40 5 A 480<5BJ@
=5 ?>-<0;:> >B50-60 A< 8 4J;1>G8=070. =>3> :@0A82> AB>OB
2 4J@25=8 A0:A88, =0?>4>1O2018 :0F8. 0AB5=8OB0
?>;CG5=8 >B A5<5=0 70?>G20B 40 FJDBOB =09-@0=> A;5418-20
<5A5F0. &8D><0=4@0B0 ;5A=> A5 @07<=>6020 8
2535B0B82=>. 57=8:JB B@O120 40 8<0 ?>=53-4 ;8AB0. >1@5 5
40 >BAB@0=8B5 ?>-3>;O<0 G0AB >B ;8AB=0B0 ?5BC@0. 0 40
=0<0;8B5 87?0@O20=0B0 ?;>I. 09-1J@7> @57=8F8B5 A5
2:>@5=O20B 2J2 2>40, :>OB> =5 A5 A<5=O, 0 A5 4>;820.
>@5=8B5 A5 ?>O2O20B 7015-20 4=8, 2 7028A8<>AB >B
B5<?5@0BC@0B0. &5==>B>=0 B>78=0G8= 5, G5 @0AB5=85B>
70FJDBO20 >15 ?J@20B0 3>48=0.

@868- >18G0 1>30B0 =0 >@30=8G=8 2515AB20
B>@>2>-?>G25=0 A<5A. >;8209B5 @54>2=> 8 C<5@5=>.
@572 A54<8F8 2 ?>;82=0B0 2>40 @07<8209B5 ?>-<0;:>
5AB5AB25=8 B>@>25. :>=O<0B5 ?@8102O9B5 2 A0:A8OB0
?@53>@O;0 ;8AB>2:0 >B H8@>:>;8AB=8 3>@A:8 284>25. >65
40 87?>;720B5 8 E8<8G5A:8 B>@>25, @0AB2>@5=8 2J2 2>40,
07>B=8, D>AD>@=8 8 :0;8528, 8;8 B5G=8 B>@>25 70 A0:A89=8
284>25. "0<0@8;>B> A5 =0?040 A8;=> >B ;8AB=8 2JH:8

"15;>:@8;;0". >65 40 A5 87?>;720 8=A5:B8F84 >B
03@>0?B5:0 8;8 5:>;>38G=8 <5B>48- >B20@0 >B 87ACH5=8
ABJ1;0 8 F25B>25 =0 :C:C@O:. D5:BJB 5 28A>:, :>30B>
F25BJB =0 >B20@0B0 5 A25B;> :0DO2. @C38 87?8B0=>
A@54AB2> 5 F830@5=0B0 2>40.

=5=8O >B \$>@C<0

!3>;5<8 1;03>40@=>AB8 =0 "zamatat" 8 4 @C38B5 ?>B@518B5;8
>B D>@C<0!