

1 C B 8 ; > = , A B 0 5 = : ; 5 = - Abutilon

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

B 3 ; 5 6 4 0 = 5 = 0 1 C B 8 ; > = J B :

O A B > = 0 1 C B 8 ; > = J B :

">20 5 B @ > ? 8 G 5 A : > @ 0 A B 5 = 8 5 8 A 5 = C 6 4 0 5 > B < = > 3 >
A ; J = F 5 . @ 5 4 ? > G 8 B 0 4 0 A B > 8 = 0 1 0 ; : > = 0 8 ; 8 B 5 @ 0 A 0 B 0 .
0 7 2 8 2 0 A 5 4 > 1 @ 5 8 2 B > ? ; 0 A B 0 O , = > 7 8 < C 2 0 ? @ 8 B 5 < ? 5 @ 0 B C @ 0
12-15 ° ! , 8 = 0 G 5 ? @ 5 7 A ; 5 4 2 0 1 0 B 0 3 > 4 8 = 0 = O < 0 4 0 F J D B 8 .
0 A B 5 = 8 O B 0 , : > 8 B > A 0 ? @ 5 7 8 < C 2 0 ; 8 = 0 B > ? ; > , < > 3 0 B 4 0 1 J 4 0 B
= 0 ? 0 4 = 0 B 8 > B 0 : 0 @ 8 8 ; 8 2 J H : 8 . 7 = 0 A O 9 B 5 1 C B 8 ; > = J B ? @ 5 7
; O B > B > = 0 2 J = , 0 ? @ 5 7 7 8 < 0 B 0 3 > ? @ 8 1 8 @ 0 9 B 5 = 0 7 0 : @ 8 B > .
">3020 5 = C 6 = > 4 0 < C 1 J 4 5 > A 8 3 C @ 5 = ? > : > 9 8
B 5 < ? 5 @ 0 B C @ 0 B 0 4 0 1 J 4 5 2 @ 0 < : 8 B 5 = 0 12-15 3 @ 0 4 C A 0 .
"5 < ? 5 @ 0 B C @ 0 7 0 1 C B 8 ; > = J B :
@ 5 7 ; 5 B = 8 B 5 < 5 A 5 F 8 3 ; 5 4 0 9 B 5 B 5 < ? 5 @ 0 B C @ 0 B 0 4 0 5 > : > ; >
22-26 3 @ 0 4 C A 0 . 0 : B > ? 8 A 0 E < 5 ? > - 3 > @ 5 7 8 < = > 2 @ 5 < 5 B @ 0 1 2 0 4 0
5 12-15 3 @ 0 4 C A 0 . ">20 ? > < 0 3 0 7 0 A ; 5 4 2 0 1 8 O F J D B 5 6 .
; 0 6 = > A B 7 0 1 C B 8 ; > = J B :
@ > A O 2 0 9 B 5 1 C B 8 ; > = 0 ? 5 @ 8 > 4 8 G = > . ">20 7 0 = 5 3 > 5 < = > 3 >
? > ; 5 7 = > . ; 0 6 = > A B B 0 B @ 0 1 2 0 4 0 5 2 8 A > : 0 . @ 8 ; 8 ? A 0 = 0
> @ > A O 2 0 = 5 ; 8 A B 0 B 0 < C = > 6 5 4 0 7 0 ? > G = 0 B 4 0 > : 0 ? 2 0 B .
! 2 5 B ; 8 = 0 7 0 1 C B 8 ; > = J B :
1 C B 8 ; > = J B > 1 > 6 0 2 0 < = > 3 > A 2 5 B ; 8 = 0 . ; 5 4 0 9 B 5 > 1 0 G 5 4 0
= 5 3 > ? 0 @ O B 4 8 @ 5 : B = > A ; J = G 5 2 8 B 5 ; J G 8 . ">20 < > 6 5 4 0
4 > 2 5 4 5 4 > 8 7 A J E 2 0 = 5 = 0 ; 8 A B 0 B 0 < C . > 6 5 4 0 3 > ? > A B 0 2 8 B 5
= 0 H 0 @ 5 = 0 A O = : 0 . 1 C B 8 ; > = J B ? @ 5 4 ? > G 8 B 0 < 5 A B 0 A 8 7 B > G = 8
8 7 ; > 6 5 = 8 O .
> ; 8 2 0 = 5 = 0 1 C B 8 ; > = :
> 2 @ 5 < 5 = 0 ; 5 B = 8 B 5 < 5 A 5 F 8 ? > ; 8 2 0 9 B 5 1 C B 8 ; > = J B
> 1 8 ; = > . ; 5 4 0 9 B 5 4 0 8 7 1 0 3 2 0 B 5 ? @ 5 ? > ; 8 2 0 = 5 B > . > 2 @ 5 < 5
= 0 7 8 < = 8 B 5 < 5 A 5 F 8 ? > ; 8 2 0 9 B 5 < 0 ; : > , : 0 B > 3 ; 5 4 0 B 5 ? @ J A B B 0
4 0 5 7 0 A J E = 0 ; 0 ? @ 5 4 8 A ; 5 4 2 0 1 > B > ? > ; 8 2 0 = 5 .
@ 5 ? > ; 8 2 0 = 5 B > 8 ; 8 ? A 0 B 0 = 0 ? > ; 8 2 0 = 5 < > 6 5 4 0 A 0 D 0 B 0 ; = 8
7 0 1 C B 8 ; > = J B 8 4 0 < C > : 0 ? O B ; 8 A B 0 B 0 8 F 2 5 B > 2 5 B 5 .
@ 5 ? > ; 8 2 0 = 5 B > 8 ; 8 7 A J E 2 0 = 5 = 0 ? > G 2 0 B 0 < > 6 5 4 0 4 > 2 5 4 5
7 0 3 = 8 2 0 = 5 , > : 0 ? 2 0 = 5 = 0 ; 8 A B 0 B 0 8 ; 8 F 2 5 B > 2 5 B 5 8 ; 8
? J ? : 8 B 5 .
"> @ 5 = 5 = 0 1 C B 8 ; > = J B :
> 2 @ 5 < 5 = 0 @ 0 7 B 5 6 0 = 0 1 C B 8 ; > = J B 5 = 5 > 1 E > 4 8 < > 4 0 A 5
B > @ 8 = 0 9 - 1 1 4 = 8 . 7 ? > ; 7 2 0 9 B 5 B > @ > 2 5 (> @ 3 0 = 8 G = 8) 7 0 F J D B 0 1 8
@ 0 A B 5 = 8 O A 4 > 1 0 2 5 = 8 < 8 = 5 @ 0 ; 8 . 5 2 = 0 A O 9 B 5 > @ 3 0 = 8 G = 8
B > @ > 2 5 ? > 2 5 G 5 > B 5 4 8 = ? J B 7 0 ; O B > B > . ">20 < > 6 5 4 0 5
> ? 0 A = > 7 0 1 C B 8 ; > = J B . @ 5 7 7 8 < = 8 B 5 < 5 A 5 F 8 , A ; 5 4 : 0 B >
? @ 8 1 5 @ 5 B 5 @ 0 A B 5 = 8 5 B > 5 = 5 > 1 E > 4 8 < > 4 0 ? @ 5 : @ 0 B 8 B 5
B > @ 5 = 5 B > .
> ; 5 A B 8 8 2 @ 5 4 8 B 5 ; 8 ? > 1 C B 8 ; > = J B :

09 G5AB8B5 2 @ 548B5;8 ?> 1CB8;>=0 A0 :0@8B5,
5;>:@8::8B5, 0<C::89:8, "@8?A, 8AB=8B5 2JH:8.,
)8B>=>AB=8 2JH:8 8 ?09F8=>>1@07C20I 0:0@. > AB0@8B5
@0AB5=8O A0 ?>-<0;> CO728<8, => ?>-<;048B5 8 ?>-A;018B5
@0AB5=8O <>65 40 7038=0B ?@8;8?A0=0 @50:F8O. @8
>B:@820=5=0 2@548B5;8 B@O120 40 ?>G8AB8B5 2A8G:8
=0?04=0B8;8AB0 >B 425B5 AB@0=8 AJA A0?C=5=0 3J10. @8
3>;5<8 ?> @065=85 5=5>1E>48<> 40 87?>;720B5
8=A5:B8F84. @8=0?045=85 >B G5@25=8 0:0@8 B@O120 40
C25;8G8B5 2;06=>ABB0=0 @0AB5=85B>.
@5A0640=5=0 1CB8;>=JB:
@5A06409B5 1CB8;>=JB 2A5:0 ?@>;5B. 7?>;7209B5 =>20
1>30B0 8 ?@>?CA::820 ?>G20. ;5409B5 =>20B0 A0:A8O=0
1CB8;>=JB 40 5 <0;> ?>-3>;O<0 >B AB0@0B0, BJ9 :0B>
EC102 8 >18;5= FJDB56 A5 ?>AB830 A0<> :>30B> :>@5=8B5
=0 @0AB5=85B> A0 >1E20=0;8 ?;JB=> ?>G20B0. @8
?@5A0640=5 87?>;7209B5 A;54=0B0 :>=D83C@0F8O=0
?>G20B0 B>@D: EC<CA: 3>@A:0 ?>G20: G0AB;8AB=0: ?OAJ: 2
A;54=>B> AJ>B=>H5=851:1:1:1.
>4@0720=5=0 1CB8;>=0:
@8 ?>4@0720=5=0 1CB8;>=JB A5 ?>AB830 ?> 4J;J3
?5@8>4=0 FJDB5=5. >4@0720=5B> A5 ?@028 >:>;> A@540B0
=0;OB>B> A@540B0=0 N;8=0G0;>B>=0 023CAB :0B> A5
87@0720B 2A8G:8 >157;8AB5=8, 87AJE=0;8 8;8 871CO;8
;>=8. 4@028B5 :;>=8 ?>4@565B5=0 54=0 B@5B0 >B
4J;68=0B0 8<.
@868 70 1CB8;>=0:
B<0@B 4> 023CAB <0;20B0 A5 ?>;820 >18;=> 8 A5 B>@8 2AO:0
A54<8F0. @57 >AB0=0;8B5 <5A5F8 ?>;820=5B> A5
>3@0=8G020 A8;=>, 0 B>@5=5B> A5 A?8@0. 0AB5=8O, :>8B> A0
18;8=02J= 8 A0 ?>@0A=0;8 B2J@45 <=>3>, <>30B 40 A5
?>4@560B ?@57 5A5=B0, ?@548 40 A5 >B=5A0B 2 78<=0B0 8<
:20@B8@0. @57 ?@>;5BB0 A5 ?@5A0640B 2 ?@OA=0 3@048=A:0
?@JAB. !J25B20<5 28 40 O ?>4>1@8B5 A <0;> H8=0.
07<=>6020=5=0 1CB8;>=0:
>65B5 40 @07<=>6020B5 1CB8;>=0 ?>A@54AB2>< A5<5=0
8;8 @57=8F8. !>@>B25B5 :>8B> A0 75;5=>;8AB=8 <>65B5 40
@07<=>68B5 8 ?> 420B0=0G8=0, 0 ?JAB@>;8A=8B5 3;02=>
?>A@54AB2>< @57=8F8. @8 @07<=>6020=5 ?>G20B0 B@O120
40 8<0 B5<?5@0BC@0 >B >:>;>22-25 3@04CA0 8 2;06=>ABB0=0
2J74CE0 40 5 28A>:0.
07<=>6020=5 G@57 @57=8F8=0 1CB8;>=:

>AB025B5 @57=8F8B5 2J2 2>40 8;8 >2;06=5= ?OAJ:.
0? @025B5 B>20 =0 ? @>;5B, ? @8 87:;NG8B5;=8 A;CG09 ? @57
>AB0=0;>B> 2 @5<5. @>AO209B5 4>1 @5 <;04>B> @0AB5=85
70 40 ?>;CG8B5 4>1 @5 @07:;>=5=0 :> @0=0. >4 @565B5
@07B5=85B> 2 : @0O =0 A5?B5<2 @8, =0G0;>B> =0 >:B><2 @8
8;8 ? @8 87:;NG8B5;=8 A;CG09 ? @57 >AB0=0;>B> 2 @5<5 ?>
20H0 ? @5F5=:0. @8 =5>1E>48<>AB B @O120 40 ?>AB028B5
?>4?> @0 =0 ABJ1;>B>. >G25=0B0 A<5A B @O120 40 5 ?OAJ: 8
3> @A:0 ?>G20.

07<=>6020=5 =0 1CB8;>= G @57 A5<5=0:

@57 ? @>;5BB0 70A59B5 A5<5=0B0. "5 I5 ?>=8:=0B 70
>:>;>20 4=8. 7?>;7209B5 ?5A0G;820 ?>G20 :0B> ?>: @85B5
A5<5=0B0 AJA A;>9 >B =O:>;> <8;8<5B @0. !;54 :0B>
C: @5?=5 @07A040 3> ?8:8 @09B5 2 A0:A88.

!J25B =0 3 @048=0 @O:

:> 01CB8;>=JB AB>8 ?>AB>O==> 2 AB0OB0, 5 4>1 @5 >B
2 @5<5 =0 2 @5<5 40 A5 > @>AO20.

O:>9 284>25 1CB8;>=:

- Abutilon Bella
- Abutilon Maximus
- Abutilon Giant