

; 0 4 8 > ; 0 - Gladiolus

gradinar, ? 5 B J : 25 N ; 8 2008 - 10:04:30

; 0 4 8 > ; 8 B 5 A 0 5 4 = 8 < = > 3 > 8 7 2 5 A B = 8, G 5 A B > A @ 5 1 0 = 8
B @ 5 2 8 A B 8 @ 0 A B 5 = 8 O. & 2 5 B 5 B > 5 ? @ 5 4 A B 0 2 8 B 5 ; = 0 A 5 <. @ 8 A > 2 8,
(= 0 @ 8 G 0 = 8 > 1 5 5 @ C = 8 : > 2 8). ! 0 < 8 O B @ > 4 Gladiolus Ophiolyza 8 B > 7 8 A J A
A J I > B > 8 < 5 - Gladiolus. J ? @ > A = 8 B 5 ? > 4 @ > 4 > 2 5 A 0: Acidanthera, Blandus,
Homoglossum, Gladiolus, Densiflorus, Habea, Ophiolyza 8 Linearifolius. A B 0 = 0 ; 8 A 0 2 2 8 4 0, 7 0 : > 8 B >
2 A 5 > 1 5 A 5 2 > 4 O B A ? > @ > 2 5 : J 4 5 4 0 A 5 ? > A B 0 2 O B. B A : > @ >
5 4 8 = > B 2 J ? @ > A = 8 B 5 ? > 4 @ > 4 > 2 5 - F 8 4 0 = B 5 @ 0 (= 0 @ 8 G 0 = 0
> 1 5 7 2 5 7 4 > 2 8 4 = 0 3 ; 0 4 8 > ; 0) 7 0 ? > G 2 0 < = > 3 > 4 0 A 5
? > ? C ; O @ 8 7 8 @ 0, B J 9 : 0 B > 8 < 0 < = > 3 > > B ; 8 G 8 B 5 ; = 8, : @ 0 A 8 2 8
G 5 @ B 8. & J D B 8 2 5 ; 5 3 0 = B = 8, 1 5 ; 8 F 2 5 B > 2 5 A G 5 @ 5 = : J <
? C @ ? C @ 5 = F 5 = B J @. 4 = 5 H = > 2 @ 5 < 5 A 0 A J 7 4 0 4 5 = 8 A B @ 0 H = >
< = > 3 > @ 0 7 = > > 1 @ 0 7 = 8 E 8 1 @ 8 4 8 ; 0 4 8 > ; 8, B 0 : 0 G 5 8 7 1 > @ J B
= 0 A > @ B > 2 5 5 > 3 @ > < 5 =.
7 0 2 8 A 8 < > A B > B 3 > ; 5 < 8 = 0 B 0 = 0 F 2 5 B 0 3 ; 0 4 8 > ; 8:
- 3 8 3 0 = B 1 4 A <;
- 3 > ; O < 1 1 - 1 4 A <;
- A @ 5 4 5 = 9 - 1 1 A <;
- < 0 ; J : 6 - 9 A <;
- < 8 = 8 0 B N @ 5 = 6 A <.
2 ; ; N G 2 0 > 1 I > 8 ? > 4 @ > 4 0, > B : > 8 B > ? > - ? > ? C ; O @ = 8 A 0

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

;0B8=A:>B>'gladius', :>5B>>7=0G020<5G. AJI=>AB ;048CA A5
=0@8G0?>- A?5F8D8G5=, @8<A:8<5G, :>9B>5?>- :JA, =>?>-
H8@>:.&25B>25B5?@8?>25G5B>284>25A0>:>:>17=01@>9,
@07?>:>65=82:;0A>284=8AJF25B8O, :>8B>A5>B20@OB
>B4>;C=03>@5. 18:=>25=>8<0A0<>54=>AJF25B85, =>
?@84>1@>>B3;5640=5A5A;CG20>B=O:>O>B?J?:8B5<C
2<5AB>F2OB40A5@07285>I554=>F25B>=>A=>
ABJ1;,>."0:0A5?>;CG020B2,0?>=O:>304>@83>B45;=8
F25B>=>A0. 5=G5;8ABG5B0B0A0>1I>6=01@>98
?@8B56020B@07;8G=0AB@C:BC@0. A=>2=0DC=:F8O70
?@82;8G0=5=0>?@0H20G887?J;=O20B=09-4>;=8B5
3. >=O:>30,>10G5B0787040G0A52J7;030A0<>=0;O2>B>8
4OA=>B>:0B>F5=B@0;=>B>>AB020704BOE,=>8<08
A;CG08,2:>8B>A0<>B>A570=8<020AB>20. 18:=>25=>,
>10G58B@8B58<0BB078F5;.>@=8B542525=G5;8ABG5B0
?>=O:>30A0?>-54@8828=038A>G0B2AB@0=8. @8
F840=B5@0B0A0AB5A=5=88874J;65=8(:0:B>8=09-
4>;=>B>). 09-3>@=>B>25=G5;8ABG5587?@025=>8
?>=O:>305AJ@07<5@=>A=09-4>;=>B>.'5AB>86-B5A0
8728B82AB@0=8,7040>B:@>OBF5=BJ@0."8G8=:8B5A0B@8=0
1@>9. <0548=?;>4=8;,>?@8B56020IB@845;=>1;870;F58
4>;5=702@J7, :>9B>5A:@8B2548=AB25=>B>G0H5;8ABG5,A
:>5B>2A5:8F2OB@07?>;030. J@2>=0G0;=>;048>;8B5A0
A5A?5F80;878@0;840?@82;8G0B?G5;8B5>B@>4
2?>A;54AB285AB@C:BC@0B0=0F25B>25B5A55>:070;0
<=>3>?>4E>4OI0704>AB04@C38>?@0H20G8, :>8B>
>?@545;5=>A0E0@5A0;8B578@0AB5=8O.&25B>25B5A0
B@J15AB88=04J=>B>8<8<0A;04J;,>F25B5=
=5:B0@. <5=>D0:B0,G5A0B@J15AB8A55E0@5A0;=0
?>A5B8B5;8A874J;65=CAB5=0?0@0B. A25=2J?@>A=8B5
?G5;8;048>;8B5B>G=>B>;>20G5AB>?@82;8G0B8
=0?@8<5@<>;F8B5?@8G8A;5=8:J<A5<. Noctuidae. !JI>B0:0
=O:>8284>25<CE8,0:0:B>8?>?C;O@=8B5=0A5:><8>B
A5<. Spingidae. A25=0A5:><8,>10G54@51=8B5
2@01G>?>4>1=8?B8G:8>B A5<. Nectariniidae AJI>@54>2=>
?>A5I020BF25B>25B5, BJ9:0B><5=NB>8<2;NG20=09-
25G5=5:B0@. O:>8?5?5@C48?J:A0E0@5A0;8;048>;8B5
70<5AB0, :J45B>40A=0AOB A2>8B5O9F0."0:J25=0?@8<5@
3>;5<8OB,6J;B>:@8; >;5F- Noctua pronuba.

Anthophora, =>

Noctuidae. !JI>B0:0

B3;5640=5: ;048>;8B5A0A@02=8B5;=>;5A=870
>B3;5640=5F25BO,=>?>=O:>308<0B=C640>B?>-
A?5F8D8G=8CA;>28O70@0728B85. ;C15=>-;C:>28F8B5A5
70A0640B?@57?@>;5BB0,23@048=0B0. A0=4JG5B018E0A5
:8;=0;8=0;O2>, =04OA=>85D5:B0A53C18. A25=B>20
;C:>28F8B5<>6540A0?>-4@51=8?@82045=5B>,08A0<8B5
@0AB5=8OI5A0?>-B@C4=870>B3;5640=5. >654038
70A0640B5?@572-3A54<8F8,B0:0G5?>2AO:>2@5<5;OB>B>

408<0B5 FJDBO18 @0AB5=8O 2 42>@0. @5?>@JG8B5;=0
4J;1>G8=0 5 >:>;>10 A<. <09B5 =0?@54284, G5 5 ?>-
>?0A=> 40 38 70A048B5 ?>- =0?;8B:>, >B:>;>B>
=04J;1>:>, BJ9 :0B> 8=0G5 ;5A=> 15 A5
?@5:J@H0B. 715@5B5 A;J=G52>, <OAB>, :>5B> 5 7018B5=>
>B A8;5= 2OBJ@. >1@5 5 ?@8 70A0640=5B> 40 A5 ?>AB02O
<0;:> >1>@A:0 B>@. >30B> 70B@C?0B5 ;C:>28F8B5 A ?>G20
38 ?>;59B5 AJA A;01 @07B2>@ =0 87:CAB25=
B>@. @5?>@JG8B5;=> 5 40 A5 87?>;720 75;5= @8AB0;>= A
NPK18-18-18+2Mg.!:54 ?>=8:20=5B> 704J;68B5;=> A;5420
@54>2=> B>@5=5 ?@57 >:>;>2 A54<8F8. > ?>O20B0 =0
?J?:8 A5 87?>;720 A25B;> A8= @8AB0;>=-NPK20-5-10+2Mg. @8
?>O20B0 =0 F25B>=>A=>B> ABJ1;> 70?>G20 40 A5 87?>;720
>@0=652-NPK6-12-36+3Mg 8 >B =0G0;>B> =0 FJDB560 4>
?@5FJDBO20=5B> A G5@25=-NPK12-12-36+1Mg.!:54
?@5FJDBO20=5B>, :>30B> F25B>25B5 A0 >:0?0;8 A5 ?@028
54=> B>@5=5 AJA A;01 @07B2>@ =0 :0DO2 @8AB0;>=-NPK3-11-38
+4Mg. @8=F8?=> ;048>;8B5 A0 @0AB5=8O, :>8B> 8<0B =C640
>B <=>3> E@0=8B5;=8 2515AB20 8 70B>20 4>@8 8 40 =O<0B5
2J7<>6=>AB 40 >A83C@8B5 3>@5A?><5=0B>B> B>@5=5
>?@545;5=> 5 4>1@5 40 87?>;720B5 =O:0:J2 B>@. @C38OB
2065= D0:B>@ 70 ?@028;=>B> @0728B85 =0 B578 @0AB5=8O 5
?>;820=5B>."J9 :0B> >18G0B <=>3> 2>40, 704J;68B5;=>
38 ?>;8209B5 @54>2=>, >A>15=> 2 ;5B=8B5 6538. 09-
3>@=8B5 ?J?:8 1C:20;=> <>30B 40 87AJE=0B 8 40 =5 A5
>B2>@OB.'C2AB20B A5 =09- 4>1@5 =0 A25B;8 <5AB0, => 18E0 A5
@0728;8 4>1@5 8 =0 ?>;C- AO=:0. 450;=> <OAB> 18 18;>,
:J45B> 4> >1O4 3@55 A;J=F5 8 2?>A;54AB285 A5 D>@<8@0
2J?@>A=0B0 ?>;CAO=:0.!:54 :0B> FJDB56JB ?@8;:NG8 8420
2@5<5 ;048>;8B5 40 87?04=0B 2 ?5@8>4 =0 ?>:>9."5 =5 A0
78<>CAB>9G828. 7G0:20 A5 687=5=8OB F8:J; 40 702J@H8 8
=0475<=0B0 G0AB 40 87AJE=5. B>78 <><5=B ;C:>28F8B5 A5
8720640B.!:54 B>20 2A8G:8 45B:8 A5 >B45;OB 8 70?0720B ?>
65;0=85. 4>;=0B0 G0AB 15 2848B5 AB0@0B0 ;C:>28F0, :>OB>
5 87AJE=0;0- BO A5 >BAB@0=O20 2=8<0B5;=>, 7054=> AJA
AB0@8B5 :>@5=8. C:>28F8B5 A5 87<820B EC102> >B ?@JABB0
?>BOE. =8:0:J2 A;CG09=5 15;5B5 ;NA?0B0!"O
704J;68B5;=> B@O120 40 ?@5AB>8 A ;C:>28F8B5 ?@57 F5;8O
?5@8>4 =0 ?>:>9, BJ9 :0B> 38 ?@54?0720 >B @07;8G=8
2J7459AB28O.!:54 :0B> A0 ?>G8AB5=8 A5 87ACH020B, B0:0 G5 ?>
BOE 40 =5 >AB020 2;030 8 A5 ?@818@0B =0 ACE> 8 E;04=>
<OAB> 2 :0H>= 8;8 <@565AB8 B>@18G:8."0< B@O120 40
?@5AB>OB FO;0 78<0, 4> ?@>;5BB0, :>30B> >B=>2> A5
70A0640B. <0 548=>A=>25= ?@>1;5< ?@8 >B3;5640=5B>
=0 ;048>;8- B5E=8B5 ABJ1;0 @54>2=> 8;8 A5 :8;20B 8;8
?@5GC?20B, BJ9 :0B> A0 87?@025=8 8 2B2J@45=8. 0 @07;8:0
>B 4@C38 @0AB5=8O, =5 ?@8B56020B 3J2:02>AB. B> 701> ?>
B>78 2J?@>A 8<0 =O:>;:> @5H5=8O. J@2>B> 5 4> 2AO:>

@0AB5=85 40 A5 701820 :>;G5, A :>5B> 40 A5 ?@82J@720, B0:0
G5 40 =5 <>65 40 ?04=5.">20 @0718@0 A5 >B 5AB5B8G5A:0
3;54=0 B>G:0>?@545;5=>5=5?@85<;82>8<>65 40
703C18 5D5:B0. @C3 20@8O=B 5 2 :@0810B0=0 FO;0B0 ;5E0 40
A5 701>40B :>;G5B0. B 54=>B> 4> 4@C3>B> 40 A5 2J@60B
:>=F8 8 >B 425B5 AB@0=8=0 ;5E0B0, B0:0 G5 40 ?@84J@60B
@0AB5=8OB0 87?@025=8. D5:B0 >B=>2> A5 =0<0;O20, =>
?>=5=5 B>;:>20. <0 8 B@5B0 2J7<>6=>AB ?@8, :>OB>
;C:>28F8B5 A5 70A0640B <=>3>1;87:>.">20=5 ?@5G8=0
@0728B85B>8<, =>=5 30@0=B8@0 ?J;=0 CAB>9G82>AB.!JI>
B0:0 <>65 40 70A048B5 F25BOB0 1;87>4> AB5=0 8;8>3@040,
=0:>OB> 40 A5 ?>4?8@0B. J?@5:8 B>20 0:>;C:>28F8B5 A0
?>- =04J;1>:>, B>@OB A5 @54>2=>8 A5 >B3;5640B ?@028;=>
B>78 ?@>1;5<18<>3J;40 A5 87153=5 8 ;048>;8B5 40 28
@0420B A FO;0B0 A8 ?@5;5AB. @C3 ?@>1;5< ?@8 B578 @0AB5=8O
5=0;8G85B>=0 2@548B5;8- 3JA5=8F8=0=O:>8
=0A5:><8. 09- 4>1@8OB=0G8=40 A5 >BJ@25B5>B BOE 5 40 3>
=0?@028B5 @JG=>. <09B5=0?@54284, >10G5, G5 A5 :@8OB 2
?0728B5=0 ;8AB0B0 8 ?>=O:>30 A5 A;CG20 40 3@870B A0<>
25G5@, :>30B>=5 38 7015;0720B5. :>=5 7=05B5 4J;3>15 A5
GC48B5 :0:2>5=0E0?0;>B0:0 F25BOB0. >=O:>30 3@870B 8
>B F25B>25B5 8 18E0 <>3;8 40 ?@84040B ?;0G525=284.

07<=>6020=5: J@28OB=0G8=5 ?>7=0B 70 2A8G:8
;C:>28G=8 F25BO. J@EC 54=0 ;C15=>- ;C:>28F0 8<02 8;8
?>25G5 A?OI8 ?J?:8. B BOE A5 @072820B2>B45;=8 @0AB5=8O,
:>8B> ?J: D>@<8@0B2>B45;=8 ;C15=>- ;C:>28F8. 0 5A5=
;C:>28F8B5 A5 8720640B 8 :>;8G5AB2>B>8< ?@>AB>5 ?>-
3>;O<>. <0 4@C3 20@8O=B ?@8, :>9B>;C:>28F0B0 A5
@07@0720, B0:0 G5=0 2AO:0 G0AB 40 8<0 ?>1 A?OI0 ?J?:0, =>
B>78=0G8=5 5 B>;:>20 ?@5?>@JG8B5;5=, BJ9 :0B>8<0
2J7<>6=>AB8 70 @0728B85=0 3=85=5 8;8 ?;5A5=?>
>B@070=0B0 7>=0. 8 8 157 B>20 AJI>B>A5 >AJI5AB2O20 ?>
5AB5AB25=?JB ?> ?J@28O <5B>4, :>9B>=5 878A:20 3@868>B
20H0 AB@0=0. B>@8=0G8=5 G@57 AB@0=8G=8B5, AJ2A5<
4@51=8 45BG8F8, A :>8B> ;048>;8B5>?@545;5=>15 28
70B@C?0B 2 87>18;85."5, >10G5=O<0 40 FJD=0B=0 ?J@20B0
3>48=0 A;54>B45;O=5B>8<>B <09G8=0B0 ;C15=>-
;C:>28F0, BJ9 :0B>A0 <=>3><0;:8. 07<=>6020=5B>AJA
A5<5=0 AJI>5=0?J;=>2J7<>6=>(2J?@5:8, G5 @0718@0
A5 @0AB5=8OB0 AJI>=5 FJDBOB ?J@20B0 3>48=0). >B>78
2J?@>A 70 2 1J45I5>15I020< ?>25G5 8=D>.

J;30@8O=09-@07?@>AB@0=5=8 A0 White City 8 Flower Song. "5 FJDBOB
?@57;OB>B>.