

E E F F E C F E E E
F D A A D A D E A
HORMONE ϕ ON BMAL1, PER2 Ω
AND C-FO ϕ Q EXPRES ϕ ION IN RATO
CA A D A D A A

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,-./-0102'-3'241'.-51,6578',5-,9':0'-8;18'
2-'<11':3':2':0;6,1<'24187/162:',1331,2<='
#4181'47>1'?110'0-'<26;:1<'2472'1@7.:01;
241'1331,2<'3'<281<<'0'A18B'1@/81<C
<:-0='(26;:1<'47>1'<4-D0'2472'A18E',70'?1'
87/;:5F':0;6,1;60;18'<281<<365',-0;:C
2:-0<='G-8'24:<'817<-0H':2':<'/81;:,21;'
2472'A18B'1@/81<<:-0'D:55'?1'<281<<'70;'
10;-I10-6<' )J%# '<10<:2:>1':0'17,4'81I:-0'
-3':02181<2='
! "#$%K'L.75E'D7<',4-<10'7<'7'I101'-3'
:02181<2'?1,76<1':2':<':0>-5>1;':0'241'
/ -<:2:>1'2870<,8:/2:-0'5--/'0'241'.-51,C
6578',5-,9='+@/81<<:-0'/722180<'781'2F/:C
,755F'702:/47<:',-3'A18BH';61'2-'241'
37,2'2472'241<1'2D-',5-,9'I101<'782:,C
:/721':0',-./51.10278F'2870<,8:/2:-075M
2870<572:-075'7,2:>:2:1<'NG:I681'OPBB='Q1'
/81;:,2'2472'L.75E'1@/81<<:-0'D:55';:</57F'
/722180<'3'-<:,5572:-0'2472'781':0'
-//<:21'/47<1'-3'A18B=
&'()*K')CG-<'D7<',4-<10'7<'7'/<:2:>1'
,-028-5'?1,76<1':2',70'?1'62:5:R1;'7<'
7'?:-.78918'3-8',1556578'7,2:>:2FBSHOT='
U121,27?51'51>15<'3',CG-<'D-65;':0;:,721'
2472'241',155'D7<'I1018755F'817,2:>1'2-'
<281<<BB=')CG-<'75<-';:</57F<'7',:8,7;:70'
/722180'-3'7,2:>72:-0H'D:24'51>15<'?1:0I'
4:I41<2';68:0I'241'70:.75V<'D791',F,51='
G-8'24:<'817<-0H',CG-<'1@/81<<:-0':0'241'
4://-,7./6<'70;'7.FI;757'<4-65;';:</57F'
4:I418'51>15<'72'W#EX'2470'W#Y='(281<<'
D:55'75<-'/8-. /2'7'87/;:':0;6,2:-0'-3'
,CG-<=

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Figure 3: Simplified model of the mammalian mo'

! "#\$% "&' () * + !) +

Z-4', -, &". ' *?%ZVM=%O, 2*%@(\$(%4'7'4(4%
(7(-.5%' -2"%! "#\$%4'!! (\$(-2%. '812[4, \$A%
rooms as described in supplementary figure
F=%/" "4%, -4%@, 2(\$%@(\$(%, 7, '. . 6. (% , 4%
' 6' 2#3=%D! 2(\$%, \$ \$' 7, .%, 2%21(%!,)' . ' 25?%
\$, 2*%@(\$(%8'7(-%:%@((A*%2"%),)' . ' 3, 2'U(%
2"%21(' \$%-(@%(-7' \$"-3(-2=%%01(%),)' . ' 3, <
2'"-%&(\$'"4%!*%7'2, .%!"\$%(-*#\$'-8%21, 2%
, -5%4' *&. , 5(4%*2\$(**%(!!)2*%, \$(%4#(%2"%
21(%(9&(\$'3(-2, .%2\$(, 23(-2%\$, 21(\$%21, -%, %
\$(,)2'"-%2"% , %-"7(.%(-7' \$"-3(-2=%D-'3, . *%
@(\$(%(21'), . . 5%2\$(, 2(4%, -4%21(' \$%#*(%
'-%21' *%(9&(\$'3(-2%@, *%, &&\$"7(4%65%21(%
\-'7(\$*'25%!"%G". "\$, 4"]*%Z-*2'2#2' "-, .%
D-'3, .%G, \$(%, -4%*(%G"33'22((=

WXY

?60+#0@

D! 2(\$%21(%:<@((A%,)' . ' 3, 2'"-%&(\$'"4?%
\$, 2*%@(\$(%8'7(-%('21(\$%, 4\$(-, .()2"<
3'(*%KDQRM%"\$%)"-2\$".%K^PDCM%#8(\$'(*=%
B"21%2\$(, 23(-2%8\$"#&*%\$(('7(4%6'. , 2(\$, .%
&(\$'2"-(#3%'-)'*'"-%'"-%\$4(\$%2"% (9&"*(%
21(% , 4\$(-, .%8. , -4*=%Z-%21(%DQR%8\$"#&?%
#6_()2]%, 4\$(-, .%8. , -4*%@(\$(%.)' , 2(4%, -4%
\$(3"7(4%#*'-8%'-2(*2'-. , %2' **#(%!"\$)(&*=%
01(%^PDC%8\$"#&%!" . . "@(4%21(%*, 3(%&\$")(4#\$(%

E %

01(%\$(*#.2*%!"3%21(%DVHfD%,-,.5*' *%!"%
(,)1%8(-(%@'21'-%(,)1%OHZ%,\$(%*#33,\$'U(4%

DQR¹k%1"@(7(\$?%21,2%2\$(-4%@,*%-"2%4'\$()2.5%
"6*(\$7(4=%01(\$(%@,*%,%3,'-!(!)2%!"!
2'3(%'-%GDF?%GDL%, -4%BED=%01(*(%\$15213*%
,\$(%)"-*'2(4%@'21%&&\$ (7'"#*.5%.'*1(4%
\$(*,)\$)1%@'21%,4\$(-.%.%'2,)2%,-'3,. *^{LT}=

Although insignificant, there was a
8(-(\$,.%2\$(-4%!"!%S0;%1,7'-8%1'81(\$%(9&\$(*<
*"-"%21,-%SOFTk%1"@(7(\$?%21' *%2\$(-4%@,*%
\$(7(\$*(4%'-%*1,3%,-'3,. *%'-%GND=%01' *%
\$(*#.2% '*%)"-*'2(-2%@'21%"21(\$%(9&(\$'<
3(-2*%21,2%*1"@%>(\$:%3OVD%, -4%>NO:%&\$"2('-%
. (7(. *%4' *%&. ,5% "&&" *'2(%\$15213*%21,-%
BED%, -4%1' &&"),3&#*^{L'?}LT=%Z-2(\$(*2'-8.5?%
@(%!"#-4%21,2%21' *%2'3(%!"4,5%4'!!(\$<
(-)%1,4%21(%&&" *'2(%&,22(\$-%'-%DQR%\$,2*?%
resulting in a significant time by adrenal
2,2#%'2(\$,)2'"=-

/#2#\$(%2#4' (*%*1"#.4%(9,3'-(%21(%\$".(%
4'!!(\$(-2%25&(*%!"%2\$ (**"\$%*%&. ,5%'-%>(\$:%
(9&\$ (**'"=-%0(*2\$, '-2%*2\$ (**%,)2'7,2(*%
21(%P>D%,9' *?%3,A'-8%'2%,%8"4%), -4'<
4,2(%2%*2#45%3'.4%*2\$ (**=%h1'. (%3'.4%
*2\$ (**%4'4%-"2%,.2(\$%>(\$:%(9&\$ (**'"-%?
4'!!(\$(-2%*2\$ (**%3"4(. *%3,5%5' (.4%4' *'3<
'.,\$%\$(*#.2*=%D%8"4%*2,\$2'-8%&" '-2%@"#.4%
6(%,-.5U'-8%&\$". -8(4%, -4%\$(&(,2(4%*2\$ (**%
6(),#*(%21(*(%)"-4'2'"-*%1,7(%6((-%*1"@-%
2"%3"4#.,2(%3,-5%&\$") (**(*%21,2%, \$(%#-4(\$%
)' \$),4',-%)"-2\$".^{Li}=%

BCDEF

%
%^2\$ (**%1,4%-"%(!!N)2%"-%BCDEF%(9&\$ (**'"-%
'-%1'&&"),3&#*%"\$%,3584,.,=%01(%\$(*#.2*%
show a significant time of day effect in
GDF%, -4%GDL%!"\$%>(\$:%@'21%(9&\$ (**'"-%6('8%
1'81(\$%,2%SOFT=%B3,.F%4' *%&. ,5(4%1'81(\$%
(9&\$ (**'"-%,2%SO:%'-%6'21%!"!%21(*(%6\$, '-%
\$(8'"-%%,%@(.%.%,%BED=%01(%3".()#.,\$%
)".)A%3"4(.%#88(*2*%21,2%>(\$:%(9&\$(*<

B, \$\$'(\$%O((!?'!-%@1')1%21(%6'"4'7(\$*'25%
"!%21(%\$(!'%'&#&l(.4%65%21(%'-2(\$)"-<
nected systems of fora and fauna working
'-%)"3&.(9%8'7(<,-4<2,A(%\$(.,,2'"-*1'&*=%
C,-5%!"%21(%\$(!'%'&#&\$#"#-4'-8%21(%'*.,-4%
,.*%1,7(%6((-%,!!)()2(4%65%21(%)#\$\$(-2%
)"\$,.%6.(,)1'-8%(7(-2=%D&&\$(''##*#*2#45%"-%
21(%(!!)2*%!"%)\$,.%6.(,)1'-8%"-%)"\$,.%
habitats and associated fishes examined the
6\$(,421%!"%&()('(%21,2%,\$(-8,2'7(.5%
,!!)()2(4%65%)"\$,.%6.(,)1'-8%K>\$,2)1(22%(2%
al., 2012). The research revealed that fish
&()('(%21,2%4'\$)(2.5%!(4%"-%)\$,.%,\$(%
3"*2%*2\$"-8.5%,!!)()2(4%65%)"\$,.%6.(,)1'-8%
, -4%4'(%!"!%'-%21(%8\$(,2(*2%-#36(\$*?%6#2%
even non-coralivorous fishes still depend
"-%21(%)"\$,.%*2\$#)2#\$(%!"\$%21(')\$%1,6'2,2%
, -4%21#*%21('\$%&"&#. ,2'"-%4()\$(,*(%!"\$3%
)"\$,.%6.(,)1'-8=%O(!%()"*5*2(3*%,\$(%
so tightly interconnected that all fish
&()('(%,\$(%,!)()2(4%65%).'3,2(%))1,-8(?%
\$*'8%")(-%2(3&(\$,2#\$(?%, -4%*#6*(g#(-2%
)"\$,.%6.(,)1'-8%(7(-2*%K>\$,2)1(22%(2%,.=?%
:aF:M=%

There were two identified hypotheses
*#\$\$#"#-4'-8%21(%g#(*2'"-%!"%1"@%)\$,.%
bleaching affects fish abundance and
6(1,7'"\$=%>"**'6.(%9&.,-,2'"-%*\$\$(7".7(%
,\$#"#-4%)\$,.%,%*,%1,6'2,2%, -4%3,_"\$%!"%4%
*"#\$(%)-%,%\$(!!%())"*5*2(3=%01(%&\$'3,\$5%
15%21(*'***2,2(*%21,2%)\$,.%6.(,)1'-8%1,*%
a negative effect on fish abundance because
'2%4()\$(,*(%21(%3#"#-2%!"%.'7(%)"\$,.%!"\$%
fish to feed on and use as shelter. Three
species of butterflyfish were examined in
21'***2#45J%*Chaetodon auriga*?%*Chaetodon*
ocellicaudus?%, -4%*Chaetodon plebeius*=%Z2%
'*%&\$\$(4')2(4%21,2%,..%21\$(('%&()('%"!%
butterflyfish will be more abundant in reef
1,6'2,2*%21,2%,\$(% (**%6.(,)1(4%21,-%'-%
\$(!%1,6'2,2*%21,2%,\$(%*2\$"-8.5%6.(,)1(4=%
In addition, it is predicted that fish
!"#-4%'-%1'81.5%6.(,)1(4%,\$(%*%@'..%6(%
"6*(\$7(4%*%'33'-8%3"\$(%!"\$\$(g#(-2.5%21,-%
)2'7(.5%(\$,2'-8?%, -4%7')(%7(\$*,%!"\$%. (**%
6.(,)1(4%*'2(*=%D&&\$(''##*#*2#45%(9,3'-'-8%
resource partitioning among butterflyfish
&()('(%\$(7(.,(4%21,2%6'2(%\$,2(%'*,%8"4%
'-4'),2"\$%!"%!(4'-8%1,6'2%, -4%*%'33'-8%
'*%,%8"4%'-4'),2"\$%!"%!"\$,\$8'-8%KS(A(\$',%
(2%,.=?%:aa:M=%Z2%'*%,.*%&\$\$(4')2(4%21,2%

'8#\$(%F%4' * & . , 5 * % , %1'81(\$% "7(\$, . . % , 6# - <
dance of the three species on the reef fat
) "3& , \$(4%2 "%21(%\$((!%)\$ (* 2% , 2%6 "21% * ' 2 (* = %

WXY%
%
B# " - 8) & 0

H6 * (\$ 7 , 2 ' " - * % @ (\$ (% \$ () " \$ 4 (4 % ! " \$ % L : % L 4 \$
- 6 0) + - ? % T % L 4 \$ 1 ' # H #) 6 , ? % , - 4 % : L % L 4 \$ & / # ' ') D
caudus = % / ' 8 # \$ (% : , % 4 ' * & . , 5 * % 2 1 (% & (\$) (- 2 , 8 (%
of time each fish was observed swimming
4 # \$ ' - 8 % 2 1 (% 2 1 \$ ((< % 3 ' - # 2 (% " 6 * (\$ 7 , 2 ' " - %
period. It shows that fish spent 6.7%
8 \$ (, 2 (\$ % 2 ' 3 (% * @ ' 3 3 ' - 8 % , 2 % > , . ! \$ (5 % Z * . , - 4 %
O (! % 2 1 , - % , 2 % P " \$ * (* 1 " (% O (! ? % , - 4 % L 4 \$ - 6 0) + - %
* & (- 2 % 2 1 (% 3 " * 2 % 2 ' 3 (% * @ ' 3 3 ' - 8 % " # 2 % " ! % , . . %
2 1 (% ! ") , . % * & () ' (* = % / ' 8 # \$ (% : 6 % 4 ' * & . , 5 * % 2 1 (%
percentage of time each fish was observed
2 ' . ' U ' - 8 % * 1 (. 2 (\$ % 4 # \$ ' - 8 % 2 1 (% " 6 * (\$ 7 , <
tion period. It illustrates that fish
* & (- 2 % F i = : r % 3 " \$ (% 2 ' 3 (% # 2 ' . ' U ' - 8 % * 1 (. 2 (\$ %
, 2 % P " \$ * (* 1 " (% O (! % 2 1 , - % , 2 % > , . ! \$ (5 % Z * . , - 4 %
O ((4 ? % , - 4 % L 4 \$ 1 ' # H #) 6 , % # 2 ' . ' U (4 % * 1 (. 2 (\$ % 2 1 (%
3 " * 2 % " # 2 % " ! % , . . % 2 1 (% ! ") , . % * & () ' (* = % / ' 8 # \$ (%
2c shows the percentage of time each fish
@ , * % " 6 * (\$ 7 (4 % ! ((4 ' - 8 % 4 # \$ ' - 8 % 2 1 (% " 6 * (\$ <
vation period. It illustrates that fish
* & (- 2 % T = : r % 3 " \$ (% 2 ' 3 (% ! ((4 ' - 8 % , 2 % P " \$ * (* 1 " (%
O (! % 2 1 , - % , 2 % > , . ! \$ (5 % Z * . , - 4 % O (! ? % , - 4 % L 4 \$
ocellicaudus % * & (- 2 % 2 1 (% 3 " * 2 % 2 ' 3 (% ! ((4 ' - 8 %
" # 2 % " ! % , . . % 2 1 (% ! ") , . % * & () ' (* = % / ' 8 # \$ (% : 4 %
displays the percentage of time each fish
was observed interacting with other fish
4 # \$ ' - 8 % 2 1 (% " 6 * (\$ 7 , 2 ' " - % & (\$ " 4 = % Z 2 % * 1 " @ * %
that fish spent 27.3% more time interacting
with other fish at Palfrey Island Reef
2 1 , - % , 2 % P " \$ * (* 1 " (% O (! ? % , - 4 % L 4 \$ 1 ' # H #) 6 , %
' - 2 (\$,) 2 (4 % 2 1 (% 3 " * 2 % " # 2 % " ! % , . . % 2 1 (% ! ") , . %
* & () ' (* = %

5) + 6 0 # \$ = 4 \$ < # 0 / # * 2 - + # \$ & % \$ 2) 3 # \$ L 4 \$ - 6 0) + - 7 \$ L 4 \$ 1 ' # D
beius, and C. ocellicaudus were observed (a)
swimming, (b) utilizing shelter, (c) feeding,
and (d) interacting with other fish during the
three-minute observation period at Horseshoe
Reef and Palfrey Island Reef.

0 , 6 . (* % F % , - 4 % : % 4 ' * & . , 5 % 2 1 (% 3 ') \$ " 1 , 6 ' <

?6H,20-2#

/'8#\$(%L%4'*&.,5*%21(%7(\$,8(%&(\$)(-2%
)"7(\$%!"%6(-21')%)"\$,.,-4%#6*2\$,2(%
"6*(\$7(4%,.-8%. '-(%2\$,-(*)2%,2%P"\$*(*1"(%
O(!%, -4%>, !\$(5%Z*., -4%O(!=%^"!2%) "\$, .%
@, *%3"*2%, 6#-4, -2%, 2%P"\$*(*1"(%O(!?%
@1(\$ (, *%\$#66. (%@, *%21(%&\$"3' -(-2%8\$"#-4<
)"7(\$%, 2%>, !\$(5%Z*., -4%O(!=%D.21"#81%
*"!2%) "\$, .%@, *%4"3' -, -2%"7(\$, . .%, 2%
P"\$*(*1"(%O(!?%21(\$(%@, *, %*.'812.5%
8\$ (, 2(\$%, 3"#-2%!"%1, \$4%4(, 4%) "\$, .%21, -%
*"!2%) "\$, .% "-%21(%\$((!%) \$(*2%, 2%21' *%*' 2(=%

WXY

D%2"2, .%!"%;`L%1, \$4%) "\$, . *%K::d%, 2%
P"\$*(*1"(%O(!%, -4%::`%, 2%>, !\$(5%Z*., -4%
O(!M%, -4%TL:;%*"!2%) "\$, . *%KLi`%, 2%
P"\$*(*1"(%O(!%, -4%:Lb%, 2%>, !\$(5%Z*., -4%
O(!M%@(\$(%6*(\$7(4%, . "-8%21(%.' -(%2\$, -<
()2=%ib=ar%!"%1, \$4%) "\$, .%K/'8#\$(%;, M%, -4%

CA A E D
A D E E CE
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D. (_ , -4\$, % > (4\$, U ,

! "#\$%&' () * + \$, \$ - * \$ # . / # 0 1 2 \$ % 0 & 3 \$ - \$ ' & * + # 0 \$ 1) # / # 4 \$ 5 & 0 \$ % 6 ' ' \$ 2 # . 2 7 \$ 1 ' # - , # \$ 8) ,) 2 \$ (((4 " & * & 0 , 9 & 6 0 * - ' 4 / & 3

EXECUTIVE SUMMARY

D-21\$"&"8(-')%).'3,2(%)1,-8(% '*%2\$, -*<
!"\$3'-8%21(%-,2##\$,.%(-7'\$"-3(-2?%4'\$()2.5%
#-4(\$3'-'-8%21(%@(. .6(' -8%"!%8."6, .%&"&#<
. ,2'"-%, -4%&. ,)'-8%) "-*'4(\$,6.(%*2\$(**%"-%
'7(. '1"4%*5*2(3*=%Z-%4(7(. "&' -8%) "#-<
2\$' (*?%21(%&\$"3-(-)(%!"%).'3,2(<*(-*'2'7(%
()2"\$?%&\$'3,\$'.5%#6*' *2(-)(%!) , \$3'-8?%
&\$"3"2(%21(%)"-4'2'"-.%\$(. ,2'"-*1'&%
6(2@((-%'-4'7'4#, .%.'7(. '1"4*%, -4%). '3,2(%
7,\$',6'.'25=%
PPF<!\$Q\$?0)\$R-*S-%), \$\$'(4%"#2%, %*#7(5%
K^NDQ^M%(-)"3&, **'-8%\$(*&"-*(*%!"\$"3%:`%
4'!!(\$(-2%)33#-'2'(*%, -4%FF;d%1"#*(1".4*%
'-%21(%4\$5%U"-(%!"%^\$'%E, -A, =%01(%8", .%@, *%
2"%#-4(\$*2, -4%1"@%!, \$3(\$*%, 4_#*2%21('\$%
!, \$3'-8%&\$,)2')(*%@1(-%21(5%(-)"#-2(\$%
)1, ..(-8(*%, 22\$'6#2(4%2"%).'3,2(%)1,-8(=#####
&2'. 'U'-8%4,2,%)"..()2(4%!\$"3% ^NDQ^?%Z%
, -.5U(4%, -4%' -2(\$&\$2(4%21(%\$(. ,2'"-<
ship between the five types of capital,

C#.#'7,\$',2(%0(8\$(**"-C"4(.%F=%%

Adaptive Efficacy

The first outcome variable I looked at was Adaptive Efficacy. Adaptive Efficacy is defined as the farmer's confidence in his ability to manage his farm in the face of changing conditions. Adaptive efficacy increases a farmer's adaptive efficacy. On the other hand, a lack of adaptive efficacy seems to have an influence.

As actual rainfall conflicts with expected rainfall, the farmer's adaptive efficacy increases. An explanation for this is that when the farmer's adaptive efficacy increases, the farmer's confidence in his ability to manage his farm in the face of changing conditions increases. This is because the farmer's adaptive efficacy is a function of his confidence in his ability to manage his farm in the face of changing conditions. When the farmer's adaptive efficacy increases, the farmer's confidence in his ability to manage his farm in the face of changing conditions increases. This is because the farmer's adaptive efficacy is a function of his confidence in his ability to manage his farm in the face of changing conditions.

Adaptive efficacy refers to the farmer's confidence in his ability to manage his farm in the face of changing conditions. Adaptive efficacy is a function of the farmer's confidence in his ability to manage his farm in the face of changing conditions. When the farmer's adaptive efficacy increases, the farmer's confidence in his ability to manage his farm in the face of changing conditions increases. This is because the farmer's adaptive efficacy is a function of his confidence in his ability to manage his farm in the face of changing conditions.

who do n
The farmer's adaptive efficacy is a function of his confidence in his ability to manage his farm in the face of changing conditions. Adaptive efficacy increases a farmer's adaptive efficacy. On the other hand, a lack of adaptive efficacy seems to have an influence.

)', .%), &'2, .%((3%2"%6(%21(%., \$8(*2%
)"-2\$'6#2"\$*%2"%&\$"3"2'-8%, 4, &2'7(%
 6(1,7'"\$%, 3"-8%^^\$' %E, -A, -%! , \$3(\$*=%B"21%
 financial and social capital create buffers
 21,2%&\$ (7(-2%, %!, \$3(\$%!"\$"3%(9&(\$'(-)'-8%
 21(%*1"\$2)"3'-8%, **)' , 2(4%@"'21%2\$5'-8%
 *"3(21'-8%-(@"%"\$%4'!!(\$(-2%!"\$"3%21(%(*2, 6<
 . '*1(4%-"\$3=%01#*?%, %!, \$3(\$%@"1"%1, *%, . \$8(%
 quantities of financial/physical and social
), &'2, .%@"'..%6(%6(22(\$%, 6.(%2"%4(7(. "&%
). '3, 2(%\$(*'.'(-)(%, -4%, 44\$(*%21(%)1, .<
 .(-8(*%, **)' , 2(4%@"'21%). '3, 2(%)1, -8(=%%

Research Question 2: Capital and Sustainable Livelihood Outcomes

01(%*()"-4%8", .%!"%35%*2, 2'*2'), .%
 , - .5*' *%@" , %2"%*1(4%. '812%"-21(%\$(. , <
 2'"-*1'&%6(2@((-%), &'2, .%, -4%*#*2, '- , 6.(%
 . '7(. '1"4%#2)"3(*=%01\$"#81%35%, - .5*' *?%
 Z%@" , -2(4%2"%#-4(\$*2, -4%1"@%) , &'2, .%
)"-2\$'6#2(4%2"% , %!, \$3(\$%*()#-\$"8%"#2)"3(*%
 21,2%&\$"3"2(4%, %*#*2, '- , 6.(%. '7(. '<
 1"4=%C5%, - .5*' *%4\$, @*%!"\$"3%C#.2'7, \$', 2(%
 O(8\$(*%'"-%C"4(.% :?%4' *%& . , 5(4%'-%21(%
 O(*#.2*%*()2'"-%"!%21' *%4")#3(-2=%01(%!"#\$%
 *#*2, '- , 6.(%. '7(. '1"4%#2)"3(*%Z%*2#4'(4%
 , \$(%) "-3')%@(.! , \$(?%-#2\$'2'"-%?%1(, .21?%
 , -4%1, &&'-(**=%%

K/&%3)/\$N#'%-0%

D-%'3&"\$2, -2%"#2)"3(%!"% , %*#*2, '- , 6.(%
 . '7(. '1"4%*'*()"-3')%@(.! , \$(=%0"% , - .5U(%
)"-3')%@(.! , \$(?%Z%. " "A(4%, 2%2@"#2)"3(%
 7, \$', 6.(*J%C, 1, %n'(.4*%, -4%Q(62=%P'81(\$%
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Figure 5. When participants' information was categorized by place of residence, it was clear that respondents to this survey typically resided in urban areas along the Front Range. Boulder, Denver, and Lakewood accounted for 48% of 2"#0#,1&*,#,4\$F3&*+,2\$2"#0#3-)*)+\$0#,1&*,#,7\$ a divern p oM M M

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