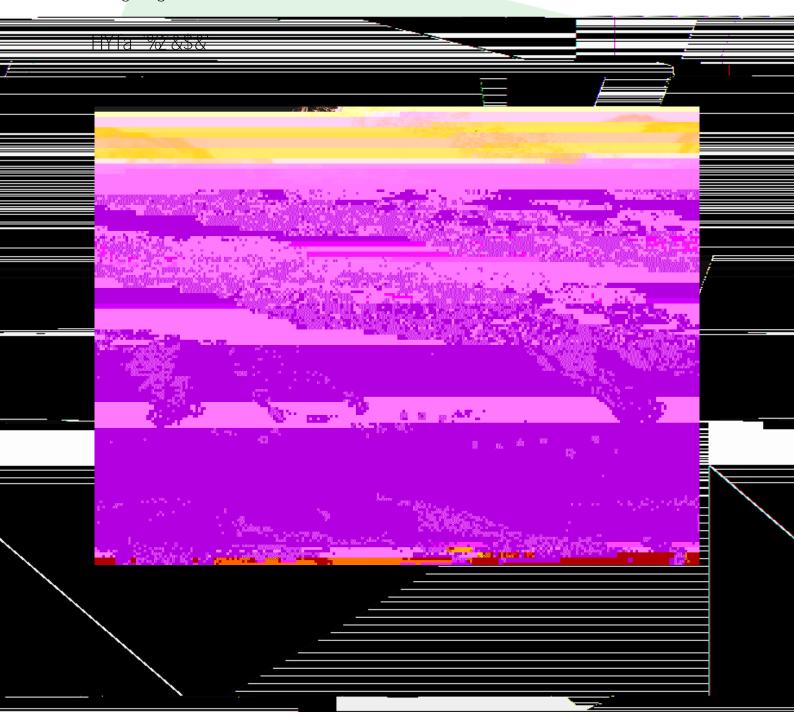


MERE4951, MERE4952, MERE4953, MERE94

A UghYfg Dfc YWn7



7ci fgY⁻Cj Yfj]Yk

GHJZ7cbHJWh8YHJ]`g

7cbj Ybcfg

BUa Y	9a U]`	5j U]`UV]`]lm	@cWUh]cb	D\cbY
M `>]b[mi "Ĵb[4 i bgk "YXi "Ui_	J]U HYUa gž 9a U]` cf D\cbY	F cca '&% ž HmfYY'9bYf[m HYW.bc`c[]Yg 6i]`X]b['?! <*	Ž*%l&!-',)`\$+,-

GWXcc`7cbHJWhi±bZcfa Uh]cb

GW.cc``cZA]bYfU`g`UbX`9bYf[mF Ygci fWYg C`X`A U]b`6i]`X]b[ž`@Yj Y``%z*%) - `fP %) Ł I BGK `GM8B9MBGK `&\$) & 5I GHF 5@-5

 $: cf'W ffYbhighi XYbhgž'U```Ybei]f]Yg'UbX'Ugg]ghUbW'`fY`Uh]b[`hc `Ybfc`a Ybhz'WUgg'fY[]ghfUh]cbz'dfc[fYgg]cbWXYW_g'UbX'ch\Yf'UXa]b]ghfUh]j Y'a UhYfgž'd`YUgY'gYY'<u>H\Y'Bi WYi g. `Ghi XYbh<i V</u>"`$

7ci fgY 8YHJ] g

I b]hg c Z 7 f Y X]h'(

Gi a a UfmcZh\Y 7ci fgY

H\Y'dfcYWndfcj]XYg'Ub'cddcffi b]mmZcf'mci 'hc'Vf]b['hc[Yh\Yf'Yb[]bYYf]b['df]bWJd'Yg''YUfbYX'cjYf mci f`dfYj]ci g`mYUfg`cZgh XmUbX`Udd`mh\YgY`df]bV]d`Yg`hc`]bbcj Uhjj Y`m'gc`j Y`dfcV`Ya g`gi VX`Ug`h\Y XYj Y`cda YbhcZU'gdYWJZJWXYg][bždfcW/gg'UbX#cf'h\Y']bj Ygh][Uh]cb'cZU'\mdch\Yg]g"A UghYf'dfcYW/g'UfY Wca d`Yl z'cdYb!YbXYX'dfcV`Ya g'h\Uh'U``ck 'fcca 'Zcf'mci f'WfYUhjj]lmz'UbX'h\Y'UWei]g]hjcbz'UbU`mg]g'UbX]bhYfdfYhUh]cb~cZfYgi~hg"~H\YfY~UfY~ai~h]d~Y~dcgg]V~Y~gc~i~h]cbg~cf~WcbWi~g]cbg~Uhhh\Y~ci~hgYhUbX~gi~Z]W]Ybh~ Wca d'Yl]mhc fYei]fY U'XY[fYY cZdfc YWid'Ubb]b["H\Y'dfc YWifYei]fYg mci 'hc 'Zcfa i 'UhY'dfc V'Ya g']b gWJYbhJZJWcfYb[]bYYf]b['hYfa gža UbU[Y'Ub'hYWXb])WU`dfcYWhUbX'ZJbX'gc`i hJcbg'VmUdd`mJb['gWJYbhJZJWUbX Yb[]bYYf]b['a Yh\cXg"'Mci'k]```U`gc'XYj Y`cd'h\Y'UV]]lmihc'k cf_']b'U'fYgYUfW\'UbX'XYj Y`cda Ybh Ybj Jfcba Ybh

7 ci fgY 5]a g

H\Y'h\Yg]g'dfcj]XYg'Ub'cddcfhi b]lmiZcf'h\Y'ghi XYbhhc'Vf]b['hc[Yh\Yf'Yb[]bYYf]b['df]bW]d'Yg''YUfbYX'cj Yf h\Y]f`dfYj]ci g`mYUfg`cZgh XmUbX`Udd`mh\YgY`df]bV]d`Yg`hc`]bbcj Uhjj Y`mgc`j Y`dfcV`Ya g`gi VX`Ug`h\Y XYj Y`cda YbhcZU'gdYWJZJWXYg][bž'dfcW/gg'UbX#cf'h\Y']bj Ygh][Uh]cb'cZU'\mdch\Yg]g"H\Yg]g'dfcYW/g'a i gh VY Wca d`Yl z'cdYb!YbXYX'dfcV`Ya g'h\Uh'U``ck 'fcca 'Zcf'gh XYbh'WfYUh]j]lmz'UbX'h\Y'UWei]g]h]cbz'UbU`mg]g UbX`]bhYfdfYhUh]cb`cZfYgi`hg"`H\YfY`aighVY`ai`h]d`Y`dcgg]V`Y`gc`ih]cbg`cf`WcbWig]cbg`Uhh\Y`cihgYhUbX gi ZJWJYbhWca d`YI]hmhc`fYei]fY`U`XY[fYY`cZdfcYWid`Ubb]b[`Zfca 'h\Y`ghi XYbh'`H\Y`h\Yg]g`fYei]fYg`h\Y ghi XYbhhc Zcfa i `UhY dfcV`Ya gʻ]b Yb[]bYYf]b['hYfa gža UbU[Y 'Ub Yb[]bYYf]b['dfc YWhUbX Z]bX gc`i h]cbg Vm Udd`m]b['Yb[]bYYf]b['a Yh\cXg" Ghi XYbhg U`gc 'XYj Y`cd h\Y]f UV]`]hmhc k cf_]b U fYgYUfW UbX XYj Y`cda Ybh Ybj]fcba Ybh

7 ci fgY @YUfb]b[Ci hWca Yg

52hYfgi WWggZi ``m'Wca d`Yh]b['h\]g'Wci fgYžmci 'g\ci `X'VY'UV`Y'hc.

@YUfb]b['Ci hWca Y	95 GHJ[Y %7ca dYhYbW]Yg
%":8Yj Y`cd`U`XYg][b`cf`U`dfcWYgg`cf`]bj Ygh][UhY`U`\mdch\Yg]g Zc``ck]b[`]bXi ghfmUbX`dfcZYgg]cbU``Yb[]bYYf]b[`ghUbXUfXg"`	D9&"%žD9&"&žD9&" žD9&"(
&"`7 f]h]WU``mfYZYWicb`U`gdYWJU`]ghVcXmcZ_bck`YX[Y`fY`UhYX`hch\Y]f`h\Yg]g`hcd]W'	D9%"
' "'5dd`migWjYbtjZjWUbX'Yb[]bYYf]b['a Yt\cXg'tc'gc`j Y'Ub Yb[]bYYf]b['dfcV'Ya "'	D9&"%
("'5bU'mgY'XUHU'cVYWNj Y'mig]b['eiUbh]hUh]jY'UbX'aUh\YaUh]WU' aYh\cXg"'	D9%"&ž`D9&"%ž`D9&"&
) "'8 Ya cbglfUlY'cfU`'UbX'k f]ltlYb'Wca a i b]WUl]cb']b'dfcZYgg]cbU` UbX``Um'Xca U]bg"'	D9' "&

HYUWX]b[GhfUhY[]Yg

 $H\Y'Wci fgY']g'HUi [\hrug'Ub']bX]j]Xi U''fYgYUfWX'dfc YWfz'hc'XYj Y`cd'U''Yj Y''cZfYgYUfWX'g_]`'g'UbXUi hcbca m'' \\$

5XX]h]cbU`7ci fgY ±bZcfa Uh]cb

CbWY Ybfc``YX`]b'h\Y'WcifgYža U_Y'gifY'h\Uh'mci'[Yh'UWWYgg'hc'h\Y'<u>A]WfcgcZhHYUag</u> <u>q]hY</u>!!]Z'bchd`YUgY'WcbhUWh\Y'WcifgY'WcbjYbcf'Zcf'UWWYgg"

CbY Dfc YWhz H\fYY 7ci fgYg

H\fYY`Wci fgYg`Wcj Yf`k f]h]b['mci f`F YgYUfV\\`H\Yg]g`UbX`fY`UhYX`UggYgga Ybhg"

•

5 hhyb XUb WY F Yei]fYa Ybhg

 $\hbox{Ghi XYbhg'UfY'ghfcb[`m'YbWc'i fU[YX'hc'UhhYbX'U```WUggYg'UbX'fYj]Yk'``YWhi fY'fYWc'fX]b[g''' } \\$

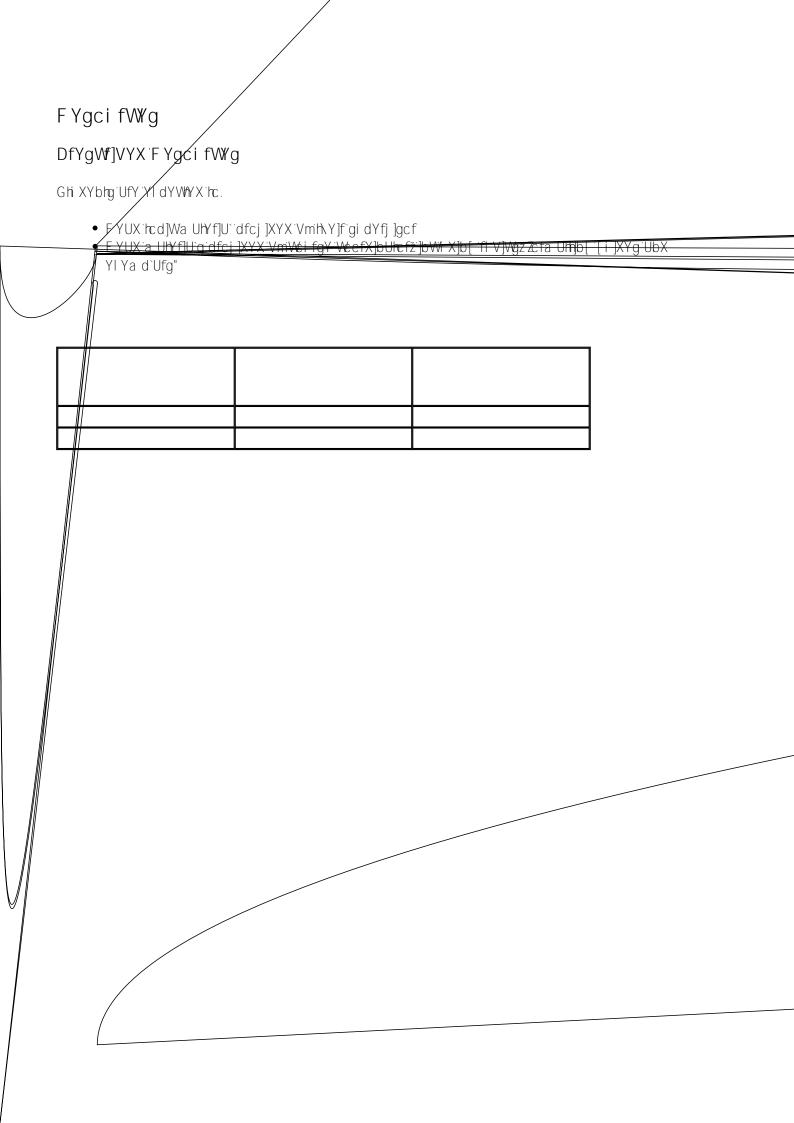
7ci fgY GWX YXi `Y

J]Yk 'WUgg'ha YHUV'Y

H]a YtUV`Y

8UHY	HmdY	7cbhYbh
K YY_'% '% ': YVfi Ufm! %+': YVfi Ufm		GłUfhicZhYfa 'a YYh]b['k]h\'gi dYfj]gcf'fgi[[YghYXŁ
K YY_") . "% "A UfVX "! "%+ A UfVX		A]X!hYfa 'a YYh]b['k]h\'mci f'gi dYfj]gcf fgi [[YghYXŁ
K YY_', .'' '5df]`'!'+'5df]`		Gi Va]hiXfUZhH\Yg]g'hc'gi dYfj]gcf'Zcf'ZYYXVUW_ fgi [[YghYXŁ
K YY_''%\$'5df]`'!'%(5df]`	5ggYgga Ybh	

KYYR YYXVII**%**o %f %& YYXVIIW



YU[Y"cf[9i fcdYUb 5ggcWJUhJcb cZ; YcgWJYbhJghg/

9b[]bYYfg

DYlfc`Yi a '91 d`cfUl]cb GcWYlmcZ5i glfU`]U dYgU"Wca "Ui

GcWYhmcZ9Id`cfUhcb; Ycd\mg]Wjghg... gY["cf[

GcWYhmcZDYhfcYia 9b[]bYYfgfGD9Ł gdY"cf[

gdk `U"cf[GcWJYhmicZDYhfcd\mg]WJghg:/ K Y```@c['5bU`mghg'''

; YcgVJYbWY 5i ghfU`]U [U"[cj "Ui

7 ci fgY 9j U'i Uhjcb UbX 8 Yj Y'cda Ybh

: YYXVUW_Zfca 'ghi XYbhg']b'k Y`Wca YXž'UbX']g'i gYX'hc Wcbh]bi ci g`m]a dfcj Y'h\Y'Wci fgY ci hWca Yg UbX Yl dYf]YbWYg Zcf ghi XYbhg"

@UVcfUhcfmK cf_g\cd \=>Zcfa Uhlcb

D`YUgY`WcbHJWhmcif'gidYfj]gcf'Zcf``UVcfUhcfmYei]daYbhž'UVWWgg'cf'ch\Yf'gdYWJU``fYgcifVWg'mci'a][\h byyx ho Wea d'yhy moi f'h yg]g"

Gh XYbhGi ddcfh

 $H \ Y' I b] j \ Yfg] hm Ub X' h \ Y' : \ UW' \ hm dfcj \] X Y' U' k \] X Y' f Ub [\ Y' c Zgi \ ddc fhg Yfj \] W g' Z c f'gh \ X Y b hg ž'] b Wi \ X] b [\ . \\$

5 WUXYa]W = b Zcfa Uh cb

7 ci fgY F Ygi `hg

: cf'XYHJ]'g'cb'l BGK 'UggYgga Ybhdc']Whž'd'YUgY'j]g]h <u>k k k "gh XYbh'i bgk "YXi "Ui #JggYgga Ybh</u>

±bʻgca Yʻ]bgHJbWYgʻmci fʻZ]bU``Wci fgYʻfYgi `ha UmVY`k]h\\Y`XʻUbXʻbchfY`YUgYXʻcbʻh\YʻI BGK ʻd`UbbYX`XUHY" H\]gʻ]gʻ]bX]WJHYX`VmU`Wci fgYʻ[fUXYʻfYgi `hcZY]h\Yf.

- @9'-']bX]\\Uh\g`mci'\Uj\Ybch\\cappaca d`Yh\X`cbY`cf'a cfY']h\ag'cZUgg\gga Ybh\cf
- K 8]bX]WJhYg h\YfY]g Ub]ggi Y k]h\ cbY cf a cfY Ugg][ba Ybh/cf
- K 7 K \]WX]bX]WUhYg`mci `\Uj Y`Udd`]YX`Zcf`GdYWJU``7 cbg]XYfUh]cb`Xi Y`hc`]``bYgg`cf`a]gUXj Ybhi fY UbX`h\Y`Wci fgY`fYgi `hg`\Uj Y`bchVYYb`Z]bU`]gYX"

 $\pm 0.17 \text{ lb.} Yf'Yj \text{ Ybh.} \text{lik ci.} X'VY'\text{mci.} f'fYgdcbg]V]']\text{mihc.} WcbhUWhh.Y.7 ci. fgY.7 cbj. YbYf'Ug'gccb.' Ug'dfUWf)WUV'Y'Vi. h. bc.'`UhYf'h. Ub.'Zj, Y'f). EXUmg'UZhYf'fY`YUgY'cZh.Y'Wci. fgY'fYgi.'h'.<math>=$ Zmci.' Xcb'hWcbhUWh.Y'Wcbj. YbYf'cb'h]a. Yzmci.'a UmVY'fYei.]fYX'hc'fY!gi.Va.]hUb'Ugg][ba.Ybhcf'fY!g]hh.Y'Z]bU''YI.Ua.'UbX'a UmfYgi.'h']b''mci.'ZJ]']b[.'h.Y

• UV]]|mihcij |YkighfYUa]|b[ij]|XYcifN][\icfick:XYZ|b]|hcbil BGK:HJicdhcbgk

A cfY]bZcfa Uh]cb UVci hgmghYa 'fYei]fYa Ybhg]g Uj U] UV Y Uhkkk mgh XYbh'i bgk "YXi "Ui #a ccX Y!gmghYa!fYei]fYa Ybhg

.

5 WW gg]b[7ci fgY A UhYf]U g H\fci [\ A ccX`Y

7 ci fgY'ci h]bYgžgi ddcfha UhYf]U`g`UfY'i d`cUXYX'hc`A ccX`Yž'h\Y'i b]j Yfg]lmighUbXUfX'@YUfb]b[
A UbU[Ya YbhGmghYa 'f@A GŁ"' \= b`UXX]h]cbžcb!`]bY'Ugg][ba Ybhigi Va]gg]cbg'UfY'a UXY'i g]b['h\Y
Ugg][ba YbhXfcdVcl 'ZUVJ\]lmidfcj]XYX']b'A ccX`Y"'5``Ybfc``YX'ghi XYbhg'UfY'Ui hca UhJVV\`m]bWi XYX']b
A ccX`Y'Zcf`YUW\'Wci fgY"'Hc'UVWYgg'h\YgY'XcW a Ybhg'UbX'ch\Yf'Wci fgY'fYgci fWYgž'd`YUgY'j]g]h'
k k k "a ccX`Y'hY`h'i bgk "YXi "Ui

 $\label{thm:continuous} FZ[e UagdeWagf'] WeWfe agf VWeUq[bf[a`aXU'SeeWe Sf fZWVSfWfZW5 agdeWA gf'] W[e bgT'[eZW] FZW `SfgdWaXU'SeeWe _ Sk UZS`YWVgd] Y fZWF Wd_ SXfWd fZW5 agdeWA gf'] W[e bgT'[eZW] ? aaV WeZag V TW Ua`eg'fW Xad fZWgb fa VSfWU'See VWeUq[bf[a`ez̄;XfZWdW[e S`k [`Ua`e[efW Uk [`fZWVWeUq[bf[a`aX SUf[h[f]We TWf] WW fZWG`[hWde[fk f]_ WfST'WS`V fZW5 agdeWA gf'] W/Se gbVSfW [`?aaV'Wf] fZW VWeUq[bf[a`[`fZW5agdeWA gf'] W?aaV'WSbb']Wez̄$

< ck K Y 7 cbhJWh Mci

5 hh]a Ygžh\Y'GV\\cc``cf'mci f`V\cbi fgY`V\cbj Ybcfg'a UmbYYX'hc`V\cbhUV\nci 'UVci hmci f`V\cbi fgY`cf'mci f Ybfc`a Ybh''\\chci f'V\cbi fgY`V\cbj Ybcfg'k]```i gY'h\Y'Ya U]``Z b\\ngreentleft b\\ngreentl

K Y'i bXYfgHJbX'h\Uhimci 'a Um\Uj Y'Ub'Yl]gh]b['Ya U]``UVWci bhUbX'k ci `X'dfYZYf'Zcf'mci f'l BGK 'Ya U]`g'hc VY'fYX]fYWhYX'hc'mci f'dfYZYffYX'UWWci bh''D`YUgY'gYY']bghfi Wh]cbg'cb'\ck 'hc'fYX]fYWhmci f'l BGK Ya U]`q.''<u>< ck 'WJb'=Zcfk UfX'a mYa U]`q'hc'Ubch\Yf'UVWci bh8"</u>

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< ck Mci 7Ub 7cbHJWhlg

K Y'UfY'U'k Umg'fYUXm'hc'Ugg]gh'mci 'k]h\'mci f']bei]f]Yg"'Hc'Ybgi fY'mci f'ei Ygh]cb']g'X]fYWYX'hc'h\Y'WcffYWhdYfqcbž'd'YUgY'i gY'h\Y'Ya U]`'UXXfYgg'VY`ck 'Zcf.

5W_bck `YX[Ya YbhcZ7ci bhfm

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