

Landwirtschaftsausschuss für verstärkten Einsatz von gentechnikfreiem Soja

Der Jahresbericht der AMA-Marketing GesmbH über das aus ihrer Sicht durchaus positiv verlaufene Geschäftsjahr 2019 wurde vom Landwirtschaftsausschuss heute diskutiert und mehrheitlich zur Kenntnis genommen. Mehrheitliche Zustimmung gab es auch für ein neues Düngemittelgesetz, das einen gesamtösterreichischen Markt und mehr Nachhaltigkeit bei Düngemitteln fördern soll. Weitere Themen waren die Eiweißstrategie, die in diesem Quartal fertig gestellt werden soll sowie, dass das AMA-Gütesiegel nicht für Fleisch mit nicht-europäischem Eiweißfutter vergeben werden soll. Dabei fand ein Antrag mehrheitliche Zustimmung, der eine Weiterentwicklung des AMA-Gütesiegels im Sinne eines verstärkten Einsatzes von gentechnikfreiem Soja vorsieht sowie die Eigenversorgung mit gentechnikfreiem und europäischem Soja stärken …



9]k Y]» ghfUhY[]YžX]Y]b X]YgYa 'E i UfhU 'ZYfh]['[YghY``h'k YfXYb 'gc ``gck]YžXUgg 'XUg '5 A 5!; ØhYg]Y[Y``b]Wk h'ZØf : `Y]gWk 'a]h'b]Wk h! Yi fcd Å]gWk Ya '9]k Y]» Zi hhYf'j Yf[YVYb 'k YfXYb 'gc ``" '8 UVY] 'ZUbX 'Y]b 5bhfU['a Y\f\Y]h`]Wk Y 'Ni gh]a a i b[ž'XYf'Y]bY 'K Y]hYfYbhk]W_`i b[XYg '5 A 5!; ØhYg]Y[Y`g']a 'G]bbY 'Y]bYg'j YfghÅf_hYb '9]bgUhmYg'j cb [YbhYWkb]_ZfY]Ya 'Gc 'U'j cfg]Y\h'gck]Y'X]Y'9][Ybj Yfgcf[i b['a]h [YbhYWkb]_ZfY]Ya 'i bX 'Yi fcd Å]gWk Ya 'Gc 'U'ghÅf_Yb'gc ``" 5i » YfXYa 'ghUbX'XYf'7 CJ =8!%-!< ÅfhYZU``ZcbXg'ZØf'@UbX!'i bX : cfghk]fhgWk UZh'Ui Z'XYf'HU[YgcfXbi b["

&\$%-`VfUW\hY`ZØf`5A 5!A Uf_Yh]b[`dcg]h]j Y 9bhk |\W_`i b[Yb

<Ui dhn]Y`Y`XYf`5A 5!A Uf_Yh]b['gY]Yb`X]Y`: ÒfXYfi b['XYg
5VgUhnYg'j cb``UbX!`i bX`Zcfghk]fhgW\UZh`]W\Yb`9fnYi [b]ggYbž'X]Y
9fgW\`]Y*i b['i bX`DZY[Y'j cb`A Àf_hYb`ZØf`X]YgY`DfcXi _hY`]a '\delta!
i bX`5i g`UbXž'X]Y`J YfVYggYfi b['XYg'J Yfhf]YVg'i bX`XYf`E i U`]h\h
gck]Y`X]Y`J Yfa]hh`i b['j cb`fY`Yj UbhYb`\deltaZcfa Uh]cbYb`ZØf
J YfVfUi W\Yf\deltabYb\z'ZØ\fhY`@UbXk]fhgW\UZhga]b]ghYf]b`'9`]gUVYh\
? Ògh]b[Yf`Ui g"`: Øf`X]Y`6YUbhk cfhi b['j cb`8YhU]`ZfU[Yb`ghUbXYb
XYb`5V[YcfXbYhYb`5A 5!; YgW\\\ZhgZØ\fYf`A]W\UY``6`Ugg`gck]Y
5bXfYUg`<Yffa Ubb`U`g`@Y]hYf`XYg`6YfY]W\g`E i U`]h\hga UbU[Ya Ybh
ZØf`@UbXk]fh\deltabYb`]b`XYf`F]bXYf!`i bX`GW\k Y]bYdfcXi _h]cbz`XYf
Ui W\\`ZØf`5gdY_hY`XYf`BUW\\U`h][_Y]h`ni gh\\bX][']gh''</pre>

A]WX UY``6`UggʻZØ\fhY`Ui gžʻXUggʻXUgʻ6Yf]WX hgʻU\f`&\$%- `]bg[YgUa h Y]bʻgY\fʻdcg]h]j Ygʻ 3 U\fʻZØfʻX]Yʻ5A 5`[Yk YgYbʻgY]"ʻGcʻk i fXYʻYhk U XUgʻ5A 5!; ØhYg]Y[Y`dfc[fUa a `]a `6YfY]WX`A]`WX`i bX A]`WX dfcXi _hY`k Y]hYfYbhk]W_Y`h"ʻ5i » YfXYa `_Ua `Ygʻ&\$%- `ni f 9]bZØ\fi b[`Y]bYgʻbYi Ybʻ5A 5!; ØhYg]Y[Y`gʻZØfʻ6`i a Ybʻi bX N]YfdZUbnYbžʻXUgʻU`gʻk]WX h][YʻCf]Ybh]Yfi b[`]b'<]bV`]W_ʻUi ZʻY]bY bUWX j c``n]Y\VUfY'<Yf_i bZh'X]YbYbʻgc``žʻk Ugʻj cbʻXYbʻ6Yhf]YVYb

gY\f'VY[fØ» h'k i fXY"' = XYb'6YfY]WXYb'; YZØ[Y`ZY]gWXž'9]Yf'gck]YCVghž'; Ya ØgY'i bX'GdY]gYYfXÀdZY`'k i fXYb'ni XYa 'bYi Y5bZcfXYfi b[Yb'ZØf'X]Y'5A5!; ØhYg]Y[Y`!F]WXh`]b]Yb'ZØf@]nYbnbY\aYf=bYb'VYgWX`cggYb"

=a '5i ZhfU['XYg'@UbXk]fhgW\UZhga]b]ghYf]i a g'\UVY'a Ub'\&\$%- 'XUg BYhnk Yf_'?i`]bUf]_'bYi 'Ui Z[YghY``hž'ZØ\fhY'6`Ugg'Ui g"'8 Ua]h gc``Yb'\Y]a]gW\Y'@YVYbga]hhY``ghÀf_Yf']b'XYf'?i`]bUf]_'j YfUb_Yfh i bX'fY[]cbU`Y'_i`]bUf]gW\Y'=b]h]Uh]j Yb'i bhYfghØhnh'k YfXYbž'i a 'g]Y]b'Y]bY'[Ya Y]bgUa Y'F]W\hi b['k Y]hYfni Ybhk]W_Y`b"

± XYf'8]g_i gg]cb'a]h'XYb'5V[YcfXbYhYb'k i fXY'X]Y': fU[Y'XYf 5A 5!; ØhYg]Y[Y'a Y\fZUW\'Ub[YgdfcW\Yb"'Gc'a Y]bhY'7cfbY`]U 9W_Yf'fGD² Łž'Yg'a ØggY'ZØf'?cbgi a Ybh±bbYb'_`Uf'Yfg]W\h`]W\'gY]bž cV': `Y]gW\'j cb'H]YfYb'ghUa a hž'X]Y'a]h'[YbhYW\b]gW\'j YfÀbXYfhYb: i hhYfa]hhY`b'[YZØhhYfh'k i fXYb"

 $\label{eq:continuity} $$\dot ``]U'<Yff'fGD^2 \& gdfUWX'X]Y'Ui g']\fYf'G]WXh'nU\`fY]WX Ui Z[YhfYhYbYb'DfcV`Ya Y'a]h'XYa '5A 5!; Ughfc!G]Y[Y`Ub'i bX': D^2! 5V[YcfXbYhYf'?U]bn'cfhYhYž'k]Y'gWXcb'5V[YcfXbYhY'9W_Yfž'Y]bYb K]`Xk i WXg 'Ub'5A 5!; ØhYg]Y[Y`bž'XYf'ZØf'?cbgi a Ybh\bbYb i bØVYfq]WXh`]WX 'k YfXY"$

: D² !@UbXk]fhgW\UZhggdfYW\Yf^DYhYf^GW\a]YX`YW\bYf^ZfU[hY^bUW\XYf^G]bb\UZh][_Y]h^Y]bYg^Y][YbYb^5A 5!; \emptyset hYg]Y[Y`g^Z \emptyset f^6`i a Yb i bX^N]YfdZUbnYb"

GWk Y]bYa Ugh'i b[Y`Ògh

 $: \emptyset f'6`Ugg']gh'X]Y': fU[Y'XYf': \emptyset hhYfi b['a]h'[YbhYW\b]_ZfY]Yb \\ : i hhYfa]hhY`b'X]ZZYfYbn]Yfh'ni 'VYhfUW\hYb'''<]Yf'[YVY'Yg'VYfY]hg \\ VYhfÀW\h`]W\Y'9fZc`[Yž'XUg'6Yk i gghgY]b'gY]']b'XYb'`YhnhYb'nY\b \\ \fyb'ghUf_'[Yk UW\gYbž'gcXUgg'X]Y'DfcXi_h]cb'j cb'A]`W\ž'UVYf \\ Ui W\'; YZ\\emptyset[Y`ž'ZU_h]gW\'[YbhYW\b]_ZfY]'gY]'''5i W\'VY]'F]bXZY]gW\\UVY'a Ub': cfhgW\f]hhY'[Ya UW\hž'k \ha\fYbX'X]Y'GW\k Y]bYa Ugh \\ bcW\'Y]b'i b[Y`OghYg'DfcV`Ya 'XUfghY``Y''5i W\'\]Yf'[YVY'Yg'UVYf Y]bY'`YV\UZhY'8]q_i gg]cbž'k]Y'a Ub'XUg'\ha\XYfb'_\ObbY''$

 $5A 5!; YgWX AZhgZØ YfYf 6 Ygg YYhcbhY 'Ui YfXYa ž XUgg Yg YY]a ; Ughfc!G]Y[Y YgY f k Yb]['gi VghUbn]Y `Y '6YUbghUbXi b[Yb [Y[YVYb YUVY" Ni XYa 'gY] Yd Yubhž Yg ']b XUg bYi Y '5A 5!G]Y[Y Y5A 5!G]Y[Y Y5A 5!; Ybi ggfY[]cb 'ni ']bhY[f]YfYb" 5i Z `Ab[YfY G]WXh 'gc `Y Yg XfY] '5A 5!G]Y[Y Y Yb. XUg '5A 5!; ØhYg]Y[Y `ž XUg '5A 5!6]cg]Y[Y `i bX 'XUg '; ØhYg]Y[Y `5A 5 ; 9B I GG F 9; <math>\emptyset$ B " J cb 'Y]bYa 'K] `Xk i WXg _\ObbY 'gc '[YgY Yb 'Ui WX '_Y]bY F YXY 'gY]b " J cb 'XYb '6Yhf]YVYb 'gY] X]Y 'A O[`]WX_Y]hž Xi fWX 'Y]b '5A 5!G]Y[Y `X]Y 'fY[]cbU Y' < Yf_i bZh'j cb 6`i a Yb 'i bX 'N]Yfd ZUbnYb 'bUWX k Y]gYb 'ni '_ObbYb Z'dcg]h]j Ui Z[Ybca a Yb 'k cfXYb"

5A 5 [UV '&\$%- '[UbnY '%& 'DfcnYbh'ZØf 5bXYfYg 'Ui g

B9CG!5V[YcfXbYhY'?Uf]b'8cddY`VUiYf'\]bhYfZfU[hY'XYb6iX[YhdcghYb'5bXYfYgžXYf'&\$%-'YhkU'%&iXYg'5A5!6iX[YhgUig[YaUW\h'\UVYž'nigÀhn`]W\ni'%\$iZØf'?ccdYfUh]cbYb'ibXY]bYf'UbgY\b`]W\Yb'GiaaY'ZØf'KYfVY_cghYb"'G]Y'kc``hY'k]ggYbžcV'Yg'bcW\X]Y'_f]h]g]YfhYb'dYfgcbY``Yb'JYfZYW\hib[Yb'a]hJYfY]bYb'[YVYž'kY`W\Y'5A5!:ÒfXYfib[Yb'Yf\U`hYb"

#DigY]bYf'5bhk cfh'ZØ\fhY'6`Ugg'Ui gžXUgg'&\$%-ii bhYf' 5bXYfYg
Y]b][Yg'Ub'DYfgcbU`_cghYb'ZØf': fYa XdYfgcbU``Ub[YZU``Yb'gY]žXUg
a Ub'ZØf'XYb'5i ZVUi 'XYg'BYhnk Yf_g'?i `]bUf]_']b'5bgdfi W\'\UVY
bY\a Yb'a ØggYb"'9]b'b]W\h'i bVYhfÀW\h']W\Yf'?cghYbZU_hcf'gY]'X]Y
HY]`bU\a Y'Ub'A YggYbž'k cVY]'X]Y'5A 5'VY]gd]Y`gk Y]gY'GhY``ZÀW\Yb
Uba]YhYž'X]Y'j cb'I bhYfbY\a Yb'[YVi W\h'k YfXYb'_ObbYb"'8U\Yf
[YVY'Yg'Ui W\FØW_j YffYW\bi b[Yb'j cb'?cghYb"'DYfgcbY``Y
JYfZYW\hi b[Yb'a]h'JYfY]bYb'[YVY'Yg'i bhYfXYggYb'b]W\h'a Y\fž
k cVY]'Yf'VYhcbYb'k c``Yž'XUgg'X]Y'5A 5'_Y]bY': OfXYfi b[Yb
j Yf[YVYž'gcbXYfb'Yg']a a Yf'i a 'Y]bYb'@Y]ghi b[gUi ghUi gW\'[Y\Yž
gU[hY'6`Ugq"

GWX f]hhY [Y [Y b '6] ``] [Z Y] gWX 3

9]b'[fc»Yf': fU[Yb_ca d`Yl 'VYhfUZ'XYb'6Y]hfU['XYf'5A 5'ni f DfcXi _h]cb'i bX'ni f': ÒfXYfi b['XYg'?cbgi a g'j cb'ei U`]hÀhgj c``Yb @YVYbga]hhY`b"'7`Ya YbgʻGhUa a `Yfʻfl fØbYŁ'k c``hYʻYhk Uʻk]ggYbž cVʻX]Yʻ5A 5ʻGWXf]hhYʻ[Y[YbʻX]Yʻ5_h]cbYbʻj cbʻ<UbXY`g_YhhYb gYhnYbʻk YfXYž'a]hʻXYbYbʻXYfʻDfY]gʻj cbʻ@YVYbga]hhY`bž]bgVYgcbXYfYʻVY]ʻ: `Y]gWXžʻ[YXfØW_hʻk YfXY"'5i WXʻ5`c]gʻ? U]bn fl D² Ł'h\Ya Uh]g]YfhYʻXUgʻDfY]gXi a d]b[ʻj cbʻ@YVYbga]hhY`bž]bgVYgcbXYfYʻVY]ʻ: `Y]gWX"'GD² !5V[YcfXbYhYʻDYhfUʻJ cfXYfk]b_`Yf j Yfk]YgʻXUfUi ZžʻXUggʻX]YʻGWXk Y]bYni WXhij]YʻZUWXʻbcWXʻUi Z J c``gdU`hVÒXYbʻYfZc`[YžʻcVk c\``X]YgYʻk Y]h\]bʻUV[Y`Y\bh'k YfXY"? Uf]bʻ8cddY`VUi YfʻfB 9C GŁ'a Y]bhYžʻYgʻa ØggYʻZØf?cbgi a Ybh\bbYbʻhfUbgdUfYbhYfʻk YfXYbž'k]YʻX]YʻDfcXi _h]cbʻj cb GWXk Y]bYZY]gWXʻhUhgÀWX`]WX`Ui gg]Y\h"`8]Yʻ5A 5ʻYfnYi [Y`\]YfʻcZh Y]bʻZUʻgWXygʻ6]`X"

5i W. 'C`[U'Jc[`Ui Yf'fl fØbYŁ'gdfUW. 'X]Y'6YX]b[i b[Yb']b'XYf GWkY]bY\U`hi b['Ub'i bX'a Y]bhYž'XUgg'\]Yf'a]h'; ØhYg]Y[Y`b'Y]bY GhYi Yfi b['YfZc`[Yb'_ObbhY"'=\f': fU_h]cbg_c``Y[Y'GhUa a `Yf a Y]bhYž'XUgg'Ui W. 'XYf'?cbgi a 'j cb'Xi b_`Ya '?À`VYfZY]gW. ž'XUg j cb'[Ygi bXYb'?À`VYfb'ghUa a Yž'ghÀf_Yf'[YZÒfXYfh'k YfXYb a ØggY"'² J D!5V[YcfXbYhY'7Uf]bU'FY]hYf'h\Ya Uh]g]YfhY'X]Y'\c\Y J YfgWk YbXi b['VY]'6UW_k Yf_'i bX'6fchdfcXi _hYb'i bX'k c``hY k]ggYbž'cV'\]Yf'YVYbZU``g'Ub'Y]b'5A 5!; ØhYg]Y[Y`'[YXUW.h'k YfXY"

5A 5!; YgWk À ZhgZØ\ fYf '6`Ugg 'Yf`Ài hYfhYž'X]Y '5A 5 'XØfZY'_Y]bYb 9]bZi gg 'Ui Z'X]Y 'DfY]g[YghU`hi b['bY\a Ybž'Ui Wk 'k Ybb 'Yf'Ui g dYfgÒb`]Wk Yf 'G]Wk h'XUg 'DfY]gXi a d]b['VY]: 'Y]gWk 'i bg]bb]['Z]bXY": U``g 'Yg 'Y]b 'Dfc V`Ya 'a]h'DfY]gUVgd fUWk Yb '[YVYž'gc 'gY]'Ui g 'gY]bYf G]Wk h'XYf'; YgYhn[YVYf'[YZfU[h"'K Ug 'Y]b'; ØhYg]Y[Y``ZØf'; YhfY]XY Vnk "'6fch'i bX '6UW_k UfYb 'VYhfYZZYž'gc 'ghY\Y'X]Y '5A 5 ']b 'XYb GhUfh`ÒWk Yfb "'9f'\U`hY 'Yg 'YXYb ZU``g 'ZØf'g]bbj c``ž']b 'X]YgYa 6YfY]Wk 'Yhk Ug 'ni 'hi b"'K Ug 'X]Y 'Dfc Xi _h]cb'j cb': 'Y]gWk 'VYhfYZZYž gY]'Yg 'b]Wk h'X]Y '5A 5 ž'X]Y 'Y]b 'ZU`gWk Yg '6]`X'j Yfa]hh`Yž'k]Yg '6`Ugg J cfk ØfZY'j cb'GY]hYb 'XYf'GD2' i bX'B 9C G'ni fØW_"

Ni a '6YfY]W\ 'GW\ k Y]bYZY]gW\ 'ZØ\ fhY '5bXfYUg' < Yffa Ubb'Ui gž XUgg'Ub'Y]bYa 'A UghYfd`Ub'[YUfVY]hYh'k YfXY"'; fi bXgÀhn`]W\ 'gY] a Ub']b'XYf'GW\ k Y]bYZY]gW\ dfcXi _h]cb']b'Y]bYf'gW\ k]Yf][Yb Dcg]h]cbž'XU'X]Y'9fk Ufhi b[Ybž'k Ug'XUg'H]Yfk c\`'VYhfYZZYž'nk UfghY][Ybž'X]Y'J YfUfVY]hYf'UVYf'V]``][Y'Fc\ghcZZY'i bX'X]Y

?cbgi a Ybh\byb'k Y]hYf\]b'V]``][Y'DfcXi _hY'Yfk UfhYb'k ØfXYb" 8 Ug'ZØ\fY'XUni ž'XUgg']b`ÀbX]gW\Yg': `Y]gW\'fUgW\'Xi fW\'\=a dcfhY YfgYhnh'k YfXY"'J]Y`Y'NØW\hYf\byb'gY]Yb'XU\Yf'k]YXYf'ni 'Y]bYf _cbj Ybh]cbY``Yb'DfcXi _h]cb'Ui Z'Jc``gdU`hVÒXYb'i a [Ygh]Y[Yb" 5bXYfY'\ÀhhYb'XYb'I a gh]Y['Ui Z[fi bX'XYf'\c\Yb'< ØfXYž'Yhk U'VY] 6Ui [YbY\a][i b[Ybž'k]YXYf'Ui Z[Y[YVYb"6`Ugg'ZØ[hY'\]bni ž'XUgg Y]bY'JYfÀbXYfi b['nk Y]ZY``cg'Ui W\'Y]bY'JYfÀbXYfi b['XYf'?cbgi a [Ykc\b\Y]hYb'VfUi W\Y"

9]k Y]» ghfUhY[]Y _ca a h]a nk Y]hYb E i UfhU`

8]Y'B9CG'_f]h]g]YfYb']b']\fYa'5bhfU['f\) \$%#5f\P\L'X]Y

J Yfn\[O][Yfi b['VY]'XYf': Yfh][ghY\]'i b['XYf'9]k Y]\[ghfUhY[]Y\[Z'k Y\W\Y\X]Y'5V\\Ab[][_Y]\[hi] cb']\[a\dcfh]YfhYa\[Z'_]\[a\u]\[i\bX'i\ a\k Y\[hg\W\\AX\]\W\\dfcXi\ n]YfhYa\[Y]\[a\u]\[i\bX'\]\[a\u]\[i\u]\[i\u]\[i\u]\[i\u]\[i\u]\[i\u]\[a\u]\[i\u]

BcfVYfh'G]YVYf'fPJDŁ'VYhcbhYž'XUgg'Yg'VYfY]hg'Y]bYb'9bhkifZ'ZØfY]bY'GhfUhY[]Y'[ÀVYŽ'XYf']a'@UiZY'XYg'nkY]hYb'EiUfhU`gdfÀgYbh]Yfh'kYfXYb'gc``"'6Y]XY'5bhfÀ[Y'kifXYb'a]h'XYb'Gh]aaYbXYf'FY[]Yfib[qdUfhY]Yb'jYfhU[h"

5A 5!; ØhYg]Y[Y`b]W\h'ZØf': `Y]gW\a]h'b]W\h! Yi fcdÀ]qW\Ya '9]k Y]» Zi hhYf

 $\pm b Y]bYa k Y]hYfYb 5bhfU[`ff%(%' #5 ff9ŁŁ `gYhnYb `g]W `X]Y `B 9C G `ZØf Y]bY 5bdUggi b[`XYf `J Yf[UVY `XYg 5A 5!; ØhYg]Y[Y `g Y]b" `8 Ya bUW gc ``Yb '_ØbZh][`_Y]bY `Dfc Xi _hYž `k Y `W Y `]b 5i Zni W hi bX `Dfc Xi _h]cb b]W h!Yi fcdA]gW Yg `9]k Y] > Zi hhYf `VY]b \U`hYbž `a]h `XYa `5A 5! ; ØhYg]Y[Y ``Ui g[YnY]W bYh `k Yf XYb '_ObbYb" `9g `gY] `XU\Yf `]a$

±bhYfYggY`XYf`ÒghYffY]W\]gW\Yb`6Yj Ò`_Yfi b[žk Ybb`X]YgY Ui ggW\`]Y» Yb`_ÒbbhYžXUgg`Y]b`a]h`XYa ; ØhYg]Y[Y``a Uf_]YfhYg DfcXi _h`k YXYf`[YbhYW\b]gW\`j YfÀbXYfh`]ghž'bcW\`a]h`YI hYbg]j Ya W\Ya]gW\Ya `DZUbnYbgW\i hn`\Yf[YghY``hž'bcW\`XYb` FUi VVUi `]a 5a UncbUg[YV]Yh`a]h| Yfi fqUW\h"

 $8]Y'5V[YcfXbYhYb'; Ycf['GhfUggYf'fP'JDŁ'ibX'C`[U'Jc[`UiYffl f| fØbYŁ'[f]ZZYb'X]Y': cfXYfib[Yb'XYf'B9CG']b'Y]bYa '5bhfU['UiZ'' 8]YgYf'g]Y\h'j cfž'XUgg'XUg'5A 5!; ØhYg]Y[Y`']a 'G]bbY'Y]bYg j YfghÀf_hYb'9]bgUhnYg'j cb'[YbhYW\b]_ZfY]Ya 'Gc'U'k Y]hYf Ybhk]\www.Y`h'k]fX'gck]Y'X]Y'9][Ybj Yfgcf[ib['a]h'[YbhYW\b]_ZfY]Ya ibX'Yi fcdÀ]g\ww.Ya 'Gc'U'[YghÀf_h'k]fX''5i \(\) YfXYa 'gc``Yb'X]Y H]Yfk c\`_f]hYf]Yb'k Y]hYfYbhk]\ww.Y`h'k YfXYb''6Y]XY'5bhfÀ[YkifXYb'a Y\f\Y]h`]W\ww.Ub[Ybca a Yb'']$

GD^2 . '5 A 5!; ØhYg]Y[Y`'bi f'ZØf': `Y]gWX 'Ui g [YbhYWXb]_ZfY]Yf': ØhhYfi b[

8]Y'GD² 'ZcfXYfh']b']\fYa '5bhfU['f%) - #5\LZ'XYf'YfbYi h']a
@UbXk]fhgW\UZhgUi ggW\i gg'VY\UbXY\h'k i fXY\Z'YVYbZU\`g'Y]bY
5XUdh]Yfi b['VY]'XYf'JYf[UVY'XYg'5A 5!; ØhYg]Y[Y\`g''8Ug'5A 5!; ØhYg]Y[Y\`gc\`'Ui g']\fYf'G]W\h'bi f'ZØf': `Y]gW\'j cb'H]YfYb
j Yfk YbXYh'k YfXYb\Z'X]Y'a]h'[YbhYW\b]_ZfY]Yb': i hhYfa]hhY\b
[YZØhhYfh'k i fXYb''7Uf]bU'FY]hYf'fP J D\L'Uf[i a Ybh]YfhY\Z'XUgg'X]YgY
: cfXYfi b['VYfY]hg'Xi fW\'XUg'[Y\hYbXY'5A 5!; YgYhn'UV[YXY\W_h
gY]"'8Yf'5bhfU['k i fXY'a]h'XYb'Gh]a a Yb'XYf'FY[]Yfi b[gdUfhY]Yb
j YfhU[h"

9]b 5bhfu['XYf'5V[YcfXbYhYb'7cfbY`]U'9W_Yf'fGD² Ł'ni 'X]YgYa Hu[YgcfXbi b[gdi b_h'_Ua 'Ui Z[fi bX'XYf'J YfhU[i b['b] Wh'ni f 5Vgh]a a i b["'8 Uf]b 'ZcfXYfhY'g]Y'X]Y'6i bXYgfY[]Yfi b['Ui Zž'Ui Z Yi fcdÀ]gWXYf'9VYbY'X]Y'Dcg]h]cb 'Y]bni bY\a Ybž'XUgg'U``Y'5fhYb [YbhY WX b]gWX'j YfÀbXYfhYf'Cf[Ub]ga Yb'i bhYf'X]Y'ghfYb[Yb FY[Y`b'ZØf'Ni `Uggi b[ž'F ØW_j YfZc`[VUf_Y]h'i bX'?YbbnY]WX bi b[ZU``Yb"

: D² . DUfhY]Yb __ØbZh][']b '5A 5!

JYfk U`hi b[gfUh

5bdUggi b['XYg'8Øb[Ya]hhY`fYWX hg'Ub'9I! Jcf[UVYb

AY\f\Y]h`]WX`VYgWX`cgqYb`kifXY`jca`5iggWXigg`Y]b`bYiYg 8Øb[Ya]hhY`[YgYhn`f+-*`X"6"L"A]h`XYf`BYiZUggib[`XYg`; YgYhnYg gc``Y'bYVYb'XYf'9fZØ``ib['jcb'9I!Jcf[UVYb'UiW\'Y]b fY]Vib[g`cgYf`OghYffY]WX]gWXYf`AUf_h`a]h'8Øb[YdfcXi_hYb [YkÀ\f`Y]ghYh'k YfXYbž'Yf`Ài hYfhY'@UbXk]fhgWkUZhga]b]ghYf]b ? Ogh|b[Yf":Ni :X|YgYa :Nk YW_:k YfXYb:Y|bY:bch|Z|n|YfYbXY:6Y\OfXY gck]Y'Y]bY'bch|Z|n]YfhY'GhY``Y'Y]b[Yf]WXhYhž'X]Y'VYkYfhYb'gc``Ybž cV8Øb[YdfcXi_hYXYb5bZcfXYfib[YbXYf91!8Øb[Ya]hhY`! JYfcfXbib['YbhqdfYWXYb'ff79!?cbZcfa]hÀhqVYkYfhib[Ł"'8Uq [YgWXYYY]Ui h'? $OghYf]b[Yfb]WXh'ni Yhnh']b' <]bV']W_Ui Z'XYb$ GWNi hnij cb A YbgWN i bX H]Yf gck]Y XYg 6cXYbq i bX XYf BUhi f" Gc gc```Yhk U`]a 'G]bbY'XYf'?fY]g`Ui Zk]fhgW\UZh'X]Y'K]YXYfj Yfk Yfhi b[jcb:FYghqhcZZYb:U`q:8Øb[Ya]hhY`:[YZÒfXYfh:kYfXYb":8]Y 6Yk Yfhi b[qU[YbXYb'k YfXYb'qWkcb'V]q\Yf'a]h'Ua h`]WkYb ?cbhfc``Yb'VYhfUi hYb'=bgh]hi h]cbYb'cV`]Y[Ybž'XYa'6ibXYgUa h'ZØf 9fbà\fi b[gq]W\Yf\Y]hž'6YgW\`U[bU\a Yb'i bX'GhfUZi YfZU\fYb f659GŁgck]Y XYf5[Ybhi fZØf; Ygi bX\Y]hi bX 9fbà\fi b[gg]W\Yf\Y]h'fb; 9GŁ"

 $\label{eq:continuous} $$\dot `]U'<Yff'fGD^2 & Yf_hY'Ubž'XUgg']b'<]bV`]W_'Ui Z'X]Y'9]b\U`hi b[XYg'Jcfgcf[Ydf]bn]dg'VY]'XYf'K]YXYfj Yfk Yfhi b['j cb'FYghghcZZYb']$

Ui W. _f]h]gW.Y.GhY``i b[bU\a Yb`Y]b[YhfcZZYb`gY]Ybži bhYf
UbXYfYa `Ui W. j ca `6i bXYga]b]ghYf]i a `ZØf`?`]a UgW.i hn"
6i bXYga]b]ghYf]b`? Ògh]b[Yf`VYhcbhYž`XUgg`\]Yf`VYghY\YbXY
A]ggj YfghÀbXb]ggY`Ui g[YfÀi a h`k YfXYb`_cbbhYb"`8]Y`5[YbXYb
XYg`6A?`k ØfXYb`j cb`XYf`ŸbXYfi b[`b]W.h`VYfØ\fh"
<Ui dh[Yg]W.hgdi b_h`gY]`Ygž`XUgg`a Ub`Y]bYb
[YgUa hÒghYffY]W.]gW.Yb`A Uf_h`ZØf`8Øb[Ya]hhY``gW.UZZYb`k c``Yž
XYf`=a dcfhY`Ui g`XYa `5i g`UbX'j Yff]b[Yfb`_ObbY"

< AfhYZU``ZcbXg`ZØf`@UbX!'i bX
: cfghk]fhgWXUZh. =bg[YgUa h'fi bX') & A]c"'
V]g'9bXY'A Afn'Ui gVYnU\`h</pre>

8 fY] '6 Y f] W hY ž' X] Y '@U b X k] fhg W U Zhga] b] gh Y f] b '9 `] gU V Y h \ '? Ògh] b [Y f Ø V Y f 'X] Y '5 i g [U V Y b 'X Y g 'Wc f c b U V Y X] b [h Y b ' < À f h Y Z U `` Z c b X g '] b 'X Y f @U b X! 'i b X ': c f g h k] f hg W U Zh '] b _ `i g] j Y 'X Y f 'D f] j U hn] a a Y f j Y f a] Y hi b [j c f [Y `Y [h ` \ U h ž' k i f X Y b 'j c a '@U b X k] f hg W \ U Zhg U i gg W i gg 'X] g_ i h] Y f h i b X 'a Y \ f \ Y] h `] W 'n i f '? Y b b h b] g '[Y b c a a Y b " '? Y] b Y 'N i gh] a a i b [_ U a 'j c b 'X Y b '5 V [Y c f X b Y h Y b 'X Y f ': D 2 "

@UbXk]fhgWkUZhga]b]ghYf]b'9`]gUVYh\'?Ògh]b[Yf'hY]`hY'XYb

5V[YcfXbYhYb'a]hž'X]Y'XifWk'X]Y'7cfcbU!?f]gY'YbhghUbXYbYb

<ÀfhYZÀ``Y'VY]``UbX!'ibX'Zcfghk]fhgWkUZh`]WkYb'6Yhf]YVYb'ibX'VY]

XYf'Df]j Uhn]a a Yfj Yfa]Yhib['gY]Yb'nia'Y]bYb'XifWk'NigWkØggY

nif'5V[Y`hib['XYf'9]b_ibZhgj Yf'ighYž'nia'UbXYfYb'XifWk'XYb

7caYVUW_!6cbig'UV[YZYXYfh'kcfXYb"'\delta'XYf'5ignU\`ib[gd\UgY
&`\UVY'aUb'nigÀhn`]Wk'X]Y'6Yhf]YVgnkY][Y

Df]j Uhn]a a Yfj Yfa]Yhib['ž'5`aUiggWkUb_ibX'6Yhf]YVYž'X]Y

`UbXk]fhgWkUZh`]WkY'DfcXi_hY'X]fY_h'Ub'X]Y'; Ughfcbca]Y']a'KY[Y

XYg'gdYn]U`]g]YfhYb'; fc»\UbXY`g'j YfaUf_hYbž'UiZ[Ybca a Yb'''6]g

Ni f'5ba Yf_i b['jcb'GD2!5V[YcfXbYhYf'9W_Yfž A Y\fZUW\ZÒfXYfi b[Yb'gc``hYb'[fi bXgÀhn`]W\'hfUbgdUfYbhYf Ui g[Yk]YgYb k YfXYbž\]Y`h'? Ògh]b[Yf ZYghž XUgg]a 6Yf]W\h'[YbUi Ui Z[Y`]ghYh'k YfXYž'k]Y'j]Y`Y'6Yhf]YVY'Ui Z[fi bX'XYf'HUhgUWXYž XUggggY]b'a $Y \setminus fYfYb'6fUbWXYb'hAh][g]bXžUiWX'ibhYfgWX]YX`]WXY$ <]`ZgnU\`i b[Yb`]b`5bgdfi W\`bY\a Yb`_ÒbbYb"': D2!CVa Ubb ; YfU`X`<Ui gYf`a Y]bhYž'b]W\h'ni `Yhnh'Ui Z[fi bX`XYg`8fÀb[Ybg`XYf : D² 'k ØfXYb'i bhYfXYggYb'Ui W\ '5i gZÀ``Y'VY]'XYf Df]| Uhn]a a Yf| Yfa]Yhi b['YbhqW\ AX][h" '5 ``YfX]b[q '[YVY 'Yq ']a a Yf bcW\ '@W_Yb'VY]'XYf'5bgdfi W\ gVYfYW\ h][ib["'J]Y`Y JYfa]YhYf=bbYb \ ÀhhYb \ V]g \ Yi hY _Y]bY \ 9bhgW \ ÀX][i b [Yb Yf\U`hYbž'VY_`U[hY`Yf'ibX`XfÀb[hY`UiZ'5V\]`ZY" Hci f]ga i ga]b]ghYf]b? Ògh]b[YfgU\\]b[Y[YbXi fWXX]Y GWN UZZi b['XYf'? UhY[cf]Y' gcbgh][Y'hci f]gh]gWN Y'J Yfa]Yhi b['U``Y : À``Y`UV[YXYW<u>h</u>"'<]Yf`gY]Yb`VYfY]hg`HUi gYbXY`5bhfÀ[Y`[YghY``h k cfXYb i bX X]Y 5 i gnU\ i b [Yb \ AhhYb gW\cb VY [cbbYb"

6Ygi WXYb G]Y i bg Ui Z Z Y]gWXi bXWc "Uh