



# HUMS2000

5fhg`±bhYfbg\]d

HYfa 'C bY ''## '&\$&\$

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# 7 ci fgY<sup>-</sup>Cj Yfj ]Yk

### `GHJZZ`7cbHJWh`8YHJ]`g`

#### '7cbj Ybcfg'

| B Ua Y        | 9a U]` | 5j U]`UV]`]m | @cWUh]cb  | D∖cbY |
|---------------|--------|--------------|---|-------|
| @ci]gY⁻Gh XXm |        |              | F cca '%*) '!,<br>ž ]fghZccfž<br>A cfj Yb'6fck b<br>6i ]`X]b[ |       |

#### GWXcc``7cbHJWhi=bZcfaUh]cb

GWXcc``cZGcWJU``GWJYbWYg

Fcca '%)-

A cfj Yb 6fck b 7 &\$

Ya U]`. gcgg4 i bgk "YXi "Ui

d\cbY.`\$&`-',)`% \$+

### 7ci fgY<sup>·</sup>8YHJ]`g

#### 7 fYX]hDc]bhg\*\*\*

#### Gi a a UfmcZhXY7ci fgY

GiVYWhi5fYU.3dfe

H\]g'WcifgY'WUb'U`gc'VY'ghiX]YX']b'h\Y'Zc``ck]b['gdYW]U`]gUh]cbg.5d[\_['a'aYkł?WV[S/?WV[SBdaVgUf[a`fi ?WV[S/EUd/WV'S`VEag`Vfi?WV[S/5a\_\_e`<agd`S'{e\_fi?WV[S/BgT'{UDWSf[a`eS`V3VhWdf[e['Yfi

H\Y`<IAG&\$\$\$`WcifgY`]g`Ub`Y`YWf] Y`]b`h\Y`IBGK`5fhg`UbX`GcW]U``GW]YbWYg`dfc[fUag`UbX`h\Y 7f]a]bc`c[maU^cf`]b`h\Y`6UW\Y`cf`cZDgmW\c`c[]WU``GW]YbWYg`dfc[fUa"`+iaUmVY`HU\_Yb`Uhh\Y`YbX`cZU Z]fghmYUf`cZghiXmUbX`cZYfg`ghiXYbhg`kcf\_`YIdYf]YbWY`]b`U`fUb[Y`cZcf[Ub]gUh]cbg`ih]`]g]b[`gcW]U` fYgYUfV\`UbX`dc`]WnUbX`\iaUb]h]Yg`g\_]``g"

H\Y'j cWUhjcbU``d`UWYa Ybhž'k \]W\`]g'k cf\_YX`]b'h\Y'GmXbYma Yhfcdc`]hUb`UfYUž'dfcj ]XYg'k cf\_'YI dYf]YbWY UhU`\cghcf[ Ub]gUhjcb'Zcf'%( 'Z ```XUmg'f%\$) 'k cf\_]b[ `\ci fgt"'H\]g'dfUWjWU``YI dYf]YbWY`]g'UWW&a dUb]YX'Vm U'fYUX]b[ `dfc[ fUa "'H\Y'fYUX]b[ `W&a dcbYbhYI Ua ]bYg'X]ZYfYbhUddfcUW\Yg'hc'h\Y`gh XmcZcf[ Ub]gUhjcbgž h\Y]f'ghfi Wi fYgž'Z bWjcbg'UbX'dc`]WjYgž'Ug'k Y```Ug``]b\_g'h\YgY`]ggi Yg'hc'h\Y'd`UWYa YbhYI dYf]YbWY"

**BchY**. `Ghi XYbhg`a i gh\Uj Y`UVX]Yj YX`U`WfYX]h`Yj Y``cf`VYhYf`Uj YfU[ Y`UWfcgg`h\Y`Wci fgYg`]b`h\Y]f`XY[ fYY" H\Y`]bhYfbg\]d`a UmVY`]bWi XYX`Ug`dUfhicZU`a U'cf`]b`h\Y`: UW``hmidfc[ fUa g`k]h\`h\Y`dYfa ]gg]cb`cZh\Y fY`Yj Ubhi7 cbj Ybcf"

# 5ggYgga Ybh

# <u>5ggYgga Ybhg</u>

| HUg_                                      | @Yb[h\`#<br>XifUh]cb                 | K Y][∖h | 8iYXUHY   | @YUfb]b[`CiHWcaYg |
|---|--------------------------------------|---------|---|-------------------|
| 5ggYgga Ybh<br>% 9ggUmd`Ub<br>gi a a Ufmž | +) \$`—`%2\$\$\$`忙心`<br>k cfX`Wci bh | %) ।    | 6gW(b_a`<br>VSk) aXfZW<br>haUSf[a`S^<br>b'SUW_Wf/[žWžž<br>SXfWd) Xg^VSke<br>ZShWTVWV<br>Ua_bWfVWžfi |                   |

: cf`ghi XYbhg`Xc]b[`a cfY`h\Ub`cbY`XUmdYf`k YY\_`h\]g`k]``fYei]fY`]bhYbg]] Y`fYUX]b[`VYZcfY`UbX`Uhih\Y`ghUfh cZh\Y`]bhYfbg\]d`hc`U``ck`UXYeiUhY`dfYdUfUh]cb`Zcf`h\Y`ZfghUggYgga YbhXi Y`cb`XUm+"`A YYh]b[`k]h @ci]gY`Ghi XXmž`h\Y`5WUXYa]W7 cbj Ybcf`k]``Ugg]gh]b``X]fYWh]b[`h\Y`ghi XYbhhc`Uddfcdf]UhY`fYUX]b[ gž WUf]Zm]b[``h\Y`dUfUa YhYfg`cZcf[Ub]nUh]cbU``h\YcfmUbX`Ugg]ghUbWY`k]h\`XfUZh]b[``U`ei Ygh]cb`Zcf`h\Y`Zfgh UggYgga Ybh'

I g]b['thY]f`YI dYf]YbWY'Zfca'thY]f`j cWUt]cbU``d`UWYaYbhghi XYbhgʻg\ci`X`VY'UV`Y'hc`dfcj ]XY'Ub i bXYfgHUbX]b['cZh\Y`cf[Ub]nUt]cbU``dfcWyggYg`UbX`ghfi WhifY'h\Ym\UjY``YbWci bhYfYX`Xi f]b['th\Y]f j cWUt]cbU``d`UVW'aYbh'`K\]`Y`[U]b]b[']bg][\h]bhc`th\Y]f`\cghcf[Ub]nUt]cbž`ghi XYbhg`k]```VY'YI dYWhYX'hc Wcad`YhY'h\Y`HUg\_g`Ugg][bYX`hc`h\Ya`Vmth\Y]f`bca]bUthYX`k cf\_d`UWY`gi dYfj ]gcf"`Hc`gi WWYggZ``mUVX]Yj Y h\YgY`HUg\_gžth\Y]f`gi dYfj ]gcf`]g`YI dYWhYX`hc`Ybgi fY`th\Y`]bhYfb`i bXYfgHUbXg`th\Y`bUhi fY`cZh\Y`HUg\_g`th\Ym \UjY`VYYb'[]j Yb"

5ggYgga Ybhgʻg\ci`X`VYʻfYZYfYbWYX`]bʻUWWcfXUbWY`k]h\`h\Y`EUZaa^aXEaU[S^EU[W`UWeDWXXdW`U[`Y 9g[VWzUjU]`UV`Y`Uhi<u>hhdg.##gcW]U`gW]YbWYg"Ufhg"ibgk "YXi "Ui #ghiXYbhg#fYgcifWYg#dc`]W]Yg![i]XY`]bYg#</u>

#### 5ggYgga YbhHUg\_g

| 5ggYgga YbhˈHJg_  | K Y][ \h | 8iY`8UHY  | GhiXYbhi@YUfb]b[<br>CihWcaYgʻ5ggYggYX |
|---|----------|---|---------------------------------------|
| 8 fUZri9ggUmD`Ub`Gi a a Ufmi  | %) I     | 8iY`UZHYf`+`XUmg`cZ<br>]bHYfbg\]d`Wcad`YHYX"  | %                                     |
| FYZYWNJY'>cifbU``   | %) ı     | %(`WU`YbXUf`XUmg`UZhYf`h\Y<br>]bhYfbg\]d`Z]b]g\Yg"  | &ž(                                   |
| <cgh9j td="" u`i="" uhjcb<=""><td>&amp;\$1</td><td>Ghi XYbhYa U]`gʻh\YʻZcfaʻhc<br/>h\Y]f`gi dYfj ]gcf`]bʻh\Y``Ugh<br/>k YY_`gc`h\Uhh\Y`Wca d`YhYX<br/>Zcfa`WUb`VY`fYhi fbYX`hc`h\Y<br/>K =@'hYUa`hc`Uj c]X`h\Y<br/>ghi XYbhfg`Z]bU``[fUXY`VY]b[<br/>XY`UmYX"</td><td>&amp;Ž Ž(</td></cgh9j> | &\$1     | Ghi XYbhYa U]`gʻh\YʻZcfaʻhc<br>h\Y]f`gi dYfj ]gcf`]bʻh\Y``Ugh<br>k YY_`gc`h\Uhh\Y`Wca d`YhYX<br>Zcfa`WUb`VY`fYhi fbYX`hc`h\Y<br>K =@'hYUa`hc`Uj c]X`h\Y<br>ghi XYbhfg`Z]bU``[fUXY`VY]b[<br>XY`UmYX" | &Ž Ž(                                 |
| Cf[Ub]gUh]cbU`YggUmi)\$1  |          | %(`WU`YbXUf`XUmg`UZhYf`h\Y 'ž(<br>]bhYfbg\]d`\Ug`VYYb<br>We'a d`YhYX"   |                                       |

#### 5ggYgga Ybh8YHJ]`g

5ggYgga Ybh% 8fUZh9ggUmD`Ub Gi a a Ufm

GhufhiXUhY. Bchi5dd`]WUV`Y

@Yb[h\.+)\$`!`%\$\$\$`kcfXg

8YHJ]`g. `DfYW' fgcf`hc`h\Y`cf[Ub]gUh]cbU``YggUm'`+) \$`hc`%\$\$\$`k cfXg"`K f]HYb`ZYXVUW\_

5XX]h]cbU``XYhJ]`g.

H\Y`ghi XYbha YYhg`k]h\`h\Y`5WUXYa]W7cbjYbcf`UZhYf``&!`'`XUmg`cZh\Y`]bhYfbg\]d`hc`X]gW gg`UfYUg`cZ

]bh/fYghZcf<sup>+</sup>h,Y<sup>+</sup>hcd]WZcf<sup>+</sup>h,]g<sup>+</sup>YggUmgi a a Ufmf1UbX<sup>+</sup>h,]g<sup>+</sup>hcd]W]g<sup>+</sup>a U]bhU]bYX<sup>+</sup>Zcf<sup>+</sup>h,Y<sup>+</sup>-cf[Ub]nUh]cbU<sup>++</sup>YggUm<sup>+</sup>Ł H\Y<sup>+</sup>hcd]W]g<sup>+</sup>U<sup>+</sup>ghUhYa Ybhcf<sup>+</sup>ei Ygh]cb<sup>+</sup>h,Uh]bWcfdcfUhYg<sup>+</sup>UZYk<sup>+</sup>\_YmUgdYWg<sup>+</sup>cZ<sup>+</sup>cf[Ub]nUh]cbU<sup>++</sup>h,YcfmY<sup>+</sup>["<sup>++</sup>h,Y ghfi Whi fYžZ bWh]cb<sup>+</sup>ž<sup>+</sup>W<sup>+</sup>hi fYž<sup>+</sup>YUXYfg\]dž<sup>+</sup>Wca a i b]WUh]cbž<sup>+</sup>W<sup>+</sup>U<sup>+</sup>Yb[Yg<sup>++</sup>YhWh,UhWUb<sup>+</sup>VY<sup>+</sup>WcgY<sup>+</sup>mfY<sup>+</sup>UhYX<sup>+</sup>hc<sup>+</sup>h,Y ghi XYbhfg<sup>+</sup>]bh/fb<sup>+</sup>Hug\_g<sup>+</sup>Ghi XYbhg<sup>+</sup>WUb<sup>+</sup>i gY<sup>+</sup>Ub<sup>+</sup>UddfcUWX<sup>+</sup>h,Uh]bWcfdcfUhYg<sup>+</sup>Y<sup>+</sup>["<sup>++</sup>Ub

cf[Ub]nUh]cbU``dYfgdYWhJjYžaUbU[YaYbhdYfgdYWhJjYž\_bck`YX[Y`dYfgdYWhJjY`cf`WUb```cc\_`UhgcaY cf[Ub]nUh]cbU``acXY`g`UbX`hYghcih]Zh\YmUfY`YId`U]b`\ck`h\Y]f`\cghcf[Ub]nUh]cb`ZbWhJcbg"``H\Y ghfiWhifY`cZh\]g`dUdYf`k]```VY`WUf]ZJYX`YgdYWJU``m]ZghiXYbhg`\UjY`bchWcad`YhYX`Ub`YggUmgiaaUfm VYZcfY"`5`h\ci[\`U`giaaUfmž]h]g`hc`VY`kf]hhYb`Ug`Ub``UWUXYa]WdUdYf`gc`bchXchdc]bhg"`GhiXYbhg XYjY`cd`Ub`Uf[iaYbhZUbX`]XYbhJZm`\ck`h\Ymd`Ub`hc`igY`fY`YjUbhhYIhg`UbX`UfhJWYg``flgYY``Y[Ubhc`Zcf`cif hYIhg`UbX`gi[[YghYX``]hYfUhifYEhc`giddcfhih]g"`Gi[[YghYX`]XYUg`UfY`g\UfYX`Vmh\Y`7cbjYbcfžUg`bYYXYXž fYdcfhg"

5ggYgga Ybh' . <cgh'9j U`i Uh]cb

GHJfhXUhY.Bch5dd`]WUV`Y

@Yb[h\.B#5

**8YHJ]`g**. `H\]g`XcYg`bchiHJ\_Y`]bhc`Wcbg]XYfUh]cb`h\Y`k cf\_d`UWY`Wca dcbYbh'`H\]g`]g`h\Y`Z]bU``UggYgga Ybh HJg\_`Zcf`h\]g`Wci fgY": YYXVUW\_Zca `\cghigi dYfj ]gcf"

#### 5AX&1;bd]cbiLb`XaYabU]`gdetails:

Gh XYbhg UfY hc Ya U]``h ]g Zcfa `flZci bX`cb`A ccX`Y`Ł``hc h\Y]f``\cghigi dYfj ]gcf`U`k YY\_`VYZcfY`Z]b]g\]b[ `UbX hc fYa ]bX`h\Ya `h\Uhih\Y]f`Z]bU``[ fUXY`WUbbchVY`Z]bU`]nYX`k ]h\ci hih ]g Wca d`YhYX`Zcfa "`

Hi fb]h]b gYh]b[. H\]g ]g bchU Hi fb]h]b Ugg][ ba Ybh

5ggYgga Ybh(. Cf[Ub]gUh]cbU`YggUm

GHUfhXUHY. Bch5dd`]WUV`Y

@Yb[h\.`&\$\$\$`k cfXgg

cZkUmg`hc`XYjY`cd`h\]g`UggYggaYbhUbX`Zcf`h]dg`cb`Zfh\Yf`fYUX]b["`

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ ba Ybh]g`gi Va ]hYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`WUb`gYY`Hi fb]h]b`g]a ]`Uf]hm fYdcfhg"

### FYgci fWg

#### DfYgWf]VYX F Ygci fWyg

F Ygci fWYgži]biUXX]h]cbihcih\Yidfcj ]XYXi@Y[Ubhcik]``VYiUXXYXihciA ccXiYik \YfYiUddfcdf]UhYiiZcfiU`` ghi XYbhg'''5XX]h]cbU``ifYgci fWYgik]``VYi]XYbh]Z]YXiVmih\Yi7cbj YbcfiUgibYYXYXiZcfi]bX]j ]Xi U``ghi XYbhg''`'

#### FYWca a YbXYX<sup>-</sup>FYgci fWYg

#### 7 ci fgY 9j U`i Uh]cb UbX 8Yj Y`cda Ybh

Gh XYbhZYXVUW\_`]g`\][ \`m`j U`i YX'Vml\Y'7 cbj Ybcf`UbX`]gʻgci [ \ht\fci [ \ci hi\Y'hYfa 'Vch\`]bZcfa U``m UbX`Zcfa U``mj ]U`hY'7 ci fgY'Yj U`i Uh]cb`UbX`A m9I dYf]YbWf"Ghi XYbhg`\Uj Y'Wca a YbhYX`cb`\ck '\Y`dZ` h\Y`]bX]j ]Xi U``gYgg]cbg`k ]h\`h\Y'7 cbj Ybcf`\Uj Y'VYb`Ug`k Y```Ug`h\Y`fYWfbhm]bhfcXi WfX`cdh]cbU` gYa ]bUfg`dfcj ]XYX`cb`XUmg`k \Yb`a cghighi XYbhg`WUb`UhhYbX"5XA gha Ybhg`\Uj Y'VYb`a UXY'hc`h\Y`A ccX`Y dU[ Y'hc`a U\_Y`]hUg`WYUf`Ug`dcgg]V`Y`UbX`bYk `fYgci fWfg`UfY`gci fWfX`hc`\_YYd`fYgci fWfg``i d`hc`XUhY`UbX ]b``]bY`k ]h\`W\Ub[ Yg`]b`h\Y`k cf\_d`UVW"'H\Y`gYa ]bUfg`k YfY`]bhfcXi WfX`UZhYf``h\Y`7 cbj Ybcf`Ug\_YX`ghi XYbhg ]Zgi W\`dYYf`gi ddcfhUbX`cddcfhi b]mihc`g\UfY`]bhYfb`YI dYf]YbWf`k ci`X`VY`k Y`Wca YX`k \]W\`]hidfcj YX`hc VY''Gca Y`ghi XYbhg`UfY`bch'WYUf`cb`k \UhiUb`YggUmgi a a Ufmigc`]bZcfa Uh]cb`cb`h\]g`k ]``VY`UXXYX`hc A ccX`Y'' Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

# Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

### Hi fb]h]b Gi Va ]gg]cb

, Zmci YbWci bhYf'U'dfcV`Ya k∖Yb'UhhYa dh]b[ 'hc'gi Va ]hmci f'Ugg][ b ga Ybh'HUg\_g

#### 5WUXYa]W<cbYghmUbX`D`U[]Uf]ga

D`U[]Uf]ga `]g`i g]b[`H\Y`k cfXg`cf`]XYUg`cZcH\Yfg`UbX`dfYgYbh]b[`H\Ya `Ug`mci f`ck b"`+hWUb`HU\_Y`a Ubm Zcfa gžZfca `XY`]VYfUHY`W\YUH]b[`Hc`UWW]XYbHU``mWcdm]b[`Zfca `U`gci fWY`k]H\ci hUW\_bck `YX[Ya YbH'

- i bXYfgHJbX'mci f`f][\hg`UbX'fYgdcbg]V]`]h]Yg`Ug'U'gh'XYbh'Uh'I BGK
  VY`Uk UfY`cZd`U[]Uf]ga ž'Wcdmf][\hz`I BGK 'Gh'XYbh'7cXY'cZ7cbXi Wh'UbX'5WWYdHJV`Y`I gY`cZ IBGK =7 HFYgcifWgDc`]Wm

## 5WUXYa]W=bZcfaUh]cb<sup>.</sup>

: cf<sup>·</sup>YggYbhJU<sup>··</sup>gh XYbhJbZcfa UhJcb<sup>·</sup>fY<sup>·</sup>UhJb[<sup>··</sup>hc.

• fYei YghgʻZcfʻYl hYbg]cb/