



Bcn\_prkclr md rfc Rpc\_qspw  
Glrclpl i PctclsC Qcptgac

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? b b p c o q  
af \_ le c  
! \$8 Cl • YL c [ D6A # Q c p

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g00 | qcid+ckn im w cb

Dmpk 77. & 0.0 /'

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N pr QG\_Gckclr md Npmep\_k Qcptgac ?aamknjgqfkclrq  
Afcaigd Qafcbasic M amlr\_glx pcqnm!qc mp |m|c)r|m|)W>b|c>b|)Y>b|d>N} pr GGG Ÿ  
/ @pgcdjw bcqapg`c rfc mpe\_lgx\_rgml%q kgqqgml8  
WCQ GQ ? LML+NPMMDGR KCBG? MPE?LGX?RGML RF?R GLQNGPCQ NCMM  
? KMPC HSQR \* QSQR?GL?@JC\* ?LB AMKN?QQGML?RC UMPJB RFPMSRF

2 ' & m b c 8 ' & n c l q c g " gl a j s b g l e e p \_ l r q . m d " & c t c l s c "

2 a & m b c 8 \_\_\_\_\_ ' & n c l q c q " \_\_\_\_\_ gl a j s b g l e e p \_ l r g \_ m d " \_\_\_\_\_ ' & c t c l s c " \_\_\_\_\_

2b Mrfc p npme p\_k qcptgacq &Bcq a pg`c ml Qafcbsjc M,'  
&vnclacq " glajsbgle ep lrg md " &ctclsc "  
2c Rmr j npme p\_k qcptgac cvnclacq z

N M Q G R G T C D S R S P C Q L C R U M P I  
B @ ? W C Q K C B G ?

7 / + / 5 / 3 7 / 4

N M Q G R G T C D S R S P C Q L C R U M P I  
B @ ? W C Q K C B G ?

7 / + / 5 / 3 7 / 4

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N M Q G R G T C D S R S P C Q L C R U M P I  
B @ ? W C Q K C B G ?

7 / + / 5 / 3 7 / 4



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N M Q G R G T C D S R S P C Q L C R U M P I  
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7 / + / 5 37 / 4

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n i f c h \_ 2 [ & 2 \ & i l + \* \ \ \_ f i q & ^ \_ m ] | c \ \_ n b \_ ] c l ] o g m n [ h ] \_ m & j l i ] \_ m m \_ m & i l ] b [ h a \_ m i h M ] b \_ ^ o f \_ l (

V

/	-	7	W c q l m
G d r f c p c _ p c k _ r c p g _ j b g d d c p c l a c q g l t m r g l e p g e f r q _ k m l e k c k ^ c p q m d r f c e m t c p g l e ` m b w * m p g d r	b c j c e _ r c b ` p m _ b _ s r f m p g r w r m _ l c v c a s r g t c a m k k g r r c c m p q g k g j _ p a m k k g r r c c * c v n j _ g l m l Q a f	/`	/`
0		7	0 V
1			1 V
2			2 V
3			3 V
4			4 V
5			5 V
6			5` V
7			6 V
	C` S _ m & j l i p c ^ n b h [ g m [ h ^ [ ^ ^ ] m m m i h M ] b ^ o f _ l	7	6` V
" N b c m M _ n c i h < l k o _ m n m c h ` i l g [ n c i h [ \ i o n _ j i f c ] c _ m h i n l k o c l ^ \ s n b _ C h n _ l h [ f L _ p			

/	-	W c q l m
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a	C` H i & a i n i f c h _ + -	/0` V
i h M ] b _ ^ o f _ l b i q n b c m q [ m ^ i h _	C` S _ m & ^ _ m ]   c \ _	/0 a V
/1		/1 V
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/4		/3` V
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" \_ r j f [ c h i h M ] b \_ ^ o f \_ l #

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Afc a i q d Q a f c b s j c M a m l r q l q p c q n m l q c m p l m r c j r m j w j m l q j g l n f g q q N } p r T G G  
Q c a r g m l M d d g a c p q \* B g p c a r m p q \* R p s q r c c q \* l c w C k n j m w c c q \* l b F g e f c q r A m k n c l q r c b C k n j m w c c q  
/ \_ A m k n j c r c r f g q r \_ ` j c d m p \_ j j n c p q m l q p c o s g p c b r m ` c j g q r c b , P c n m p r a m k n c l q \_ r g m l d m p r f c a \_ j c l b \_ p  
£ J g q r \_ j j m d r f c m a s p b g c h r d d g m a l c p q \* b g p c a r m p q \* r p s q r c c q & u f c r f c p g l b g t g b s \_ j q m p m p e \_ l g x \_ r g m l q \*'  
C l r c p + . + g l a m j s k l q & B ' \* & C ' \* \_ l b & D ' g d l m a m k n c l q \_ r g m l u \_ q g n \_ g b ,  
£ J g q r \_ j j m d r f c m a s p b g c h r d d g m a l c p q \* g d \_ l w , Q c c r f c g l q r p s a r g m l q d m p b c d g l g r g m l m d i c w c k n j m  
£ J g q r r f c m p e \_ l g x a s p r l g q c d g t a m k n c l q \_ r c b p ' 0 j c o m f k r l h b o D O P ' D P o D o l r h r D B @ a w X 6 m B 0 0 S @ p r l D o a o A @ p @ 0 p A  
\_ ` j c a m k n c l q \_ r g m l & ' m v 3 m d D m p k U + 0 \* D m p k / . 7 7 + K G Q A \* l b - m p ' m v / m d D m p k / . 7 7 + L C A ' m d k m p c

dmpkcp bapcarmpq mp rpsqrcqa

NMQGRGTC DSRS<sub>2</sub>PCQ LCRUMPI

B @ ? WCQ KCBG

7 / + / 5 / 37 / 4 N e c

Dmpk 77. & 0.0 /'

/` Qs`rmr	z	253*3/6,	.	2/*437,
a Rmr_j dpmk amrlgls_rgml qfccrq rm NLLphTMGG* Qczargml ?	.	.	.	.
b Rmr_j & bb jglcq {}}	z	253*3/6,	.	2/*437,
0 Rmr_j lsk`cp md glbgtgb s_jq & glajsbg le `sr lmr jgkrcb rm rfmqc jgqrcb _`mtc' ufm pcacgtcb				

amknclq rgml dpmk rfc mzpe lgx rgml

1. Results from the model simulations (solid lines) are compared with observations (dashed lines) for the three models (a), (b) and (c).

**1 Bgb rfc mpe\_lgx\_rgmp\_kgmpd gawp` bgpcarmpr` psqsrc` icw cknjmwcc` mp tgefcrgr amknclq` rcb cknjm  
igc` Cz` S` m` lqif` p` M1b` A`of` D`** **1 V**

2 Dmp l w albatabs i jaarcb ml ialc / \* aa rfc ask md p cnmpr ic amknclg raml lb mtfcp amknclg r

\_l b\_ p c j \_r c b\_ m p e \_l g x \_r g m l q\_ e p c \_E c p\_ S f \_m & /3] i g j f \_e n\_ M ] b \_^o f\_ D \_| l | l | m d q \_b | p | h ^a c p c ^o f 2\_ V

3 Bgb \_lw ncpqml jgqrcb ml jg lc / pc ac gtc mp \_a ap sc am kn cl q\_rg ml d pm k \_lw s lpc j\_r cb m p e\_l g x \_rg

~~pclbcpclb rm rfc mpclg n M1b ^of D~~ 3 V

Qcargm @, Gbcnclbcir Amrpl armpd

Амкніжес 1994-1-je днр whisp dgic fgeicu амкніжес gicbсггд ѿеоуарјес \_cc ѿеоуарјес кнроу

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BRUNSWICK CORPORATION, INC., 1150 BIRMINGHAM ROAD

RP?AW JCMDDCJFMJX BSLL\* / .45 ?PPMU N MGLR  
RP LGS\* @2CL@RCBEC CO121 R\* H2 36// ARG3RCCTC BCBGABCML / 2\*4 0

BF, LC @?GL@PGBEC GQJ?LB U? 7677. AFC?RGTC BGFCARGML 7.0 4.0,

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For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at [john.smith@researchinstitute.org](mailto:john.smith@researchinstitute.org).

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**10..6 /0+..7+0/** 6

0.0/-2.0 NMQGRGTC DSRSPCQ LGRUMPI -3.6-11/

www.elsevier.com/locate/jde

N M Q G R G T C D S R S P C Q L C R U M P I  
B @ ? W C Q K C B G ?

7 / + / 5 / 3 7 / 4

2 3 4 \* . / 2 ,

0 \* 3 6 7 \* 6 . / ,

1 \* . 2 3 \* 6 / 3 ,

N S @ J G A ? R G M L Q      3 // / 0 .      4 5 3 \* / 0 6 ,      4 5 3 \* / 0 6 ,

4 5 3 \* / 0 6 ,

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/ \* 5 7 1 ,

1 \* 2 6 5 ,

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K G Q A C J J ? L C M S Q G L A M K C . . 7 7

0 \* 5 6 1 ,

0 \* 5 6 1 ,

0 \* 5 6 1 ,  
1 \* 5 0 7 \* . . 4 ,      4 5 3 \* / 0 6 ,      . ,      6 \* . 4 1 ,

N M Q G R G T C D S R S P C Q L C R U M P I  
B @ ? W C Q K C B G ?

7 / + / 5 3 7 / 4

	& ? '	& @ '	& A '	& B '
M _ nci h /* + " ] # - # [ h ^ / * + " ] # . # i la[ hct[ nci hm gomn ] igjf_n_ [ ff ] ifog hm( ; ff in b_l il a[ hct[ nci hm gomn ] ig				V
/ E p _ lrq _ lb mrf cp _ qqqqr _ lac rm bmkcrga mpe _ lgx _ rgm lq _ lb bm k c q rga emt cpl k cl rq, Qcc N _ pr GT * jgl c b / 0				
0				
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3	/ 3 7 * / 5 7 ,	/ 1 / * 5 . 5 ,	/ . * 4 6 0 ,	/ 4 * 5 7 . ,
4	A mknclq _ rgml lm r glaj s bcb _ ` mtc rm bgqos _ jg d gcb ncpqmlq & _ q bcd g lcb sl bcp qc arg ml 2736 & d' & / ' _ lb ncpqmlq bcqap g ` cb gl qc arg ml 2736 & a' & 1' & @ '	/ * / 5 / * 0 6 0 ,	7 5 2 * / 0 5 ,	5 2 * 3 . / ,
5				/ 0 0 * 4 3 2 ,
6	N E c hq gsm a DrA j dg A a a d p s _ @ q l k d l r q a m Q c p g c s r @ m l q F 2 3 0 0 5 6 6 0 0 6 3 6 0 7 0 0 4 5 0 0 5 6 0 0 7 0 0 0 7 2 0 0 0 p a p t 0 0 a & & # ( _ lrq [ c a r g m l _ G o c P 1 + 0 0 1 * / 3 2 , E p c l q d 5 k c 0 2 6 o s 1 0 * 7 . / , 1 * . 3 , / 3 7 * 0 2 6 , / 0 3 * . 6 2 , / 4 * 5 4 6 , / 5 * 1 7 4 , / / 0 * . 1 . , 6 . * 5 / 1 , / 2 * 5 4 7 , / 4 * 3 2 6 ,			
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0 1	0 * 3 5 5 ,	0 * / 4 3 ,	/ 3 3 ,	0 3 5 ,
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- A M L R C L R B C J G T C P W	3 6 7 * 6 0 4 ,	3 0 4 * 0 7 3 ,	0 * / 5 6 ,	4 / * 1 3 1 ,
` Q R ? D D C B C T C L R Q	2 0 * 0 7 5 ,	2 0 * 0 6 . ,	2 ,	/ 1 ,
a				
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0 3 R m r _ j d s l a r g m l _ j c v n c l q c q ,	/ / * 6 4 2 ,	5 * 7 7 1 ,	5 . . ,	1 * / 5 / ,
0 4 H mg l r a m q r q ,	0 * 5 7 5 * 4 0 7 ,	0 * 0 7 1 * 0 0 . ,	/ 6 1 * // 2 ,	1 0 / * 0 7 3 ,
A f c a i f c p c q d d m j i m u g l e Q M N 7 6 + 0 8 ? Q A 7 3 6 + 5 0 . '				

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N M Q G R G T C D S R S P C Q L C R U M P I  
 B @ ? W C Q K C B G ?

7 / + / 5 / 3 7 / 4

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1		/ * . 0 . * 0 0 7 ,	1	6 / 6 * 4 / 4 ,
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7			6	2 4 * / 1 7 ,
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'		0 3 / * 3 0 2 ,	/ . a	// 3 * / 2 3 ,
//				//
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/ 4		0 * 6 .. * 2 4 6 ,	/ 4	1 * 1 2 1 * 3 . 7 ,
/ 5		7 5 * 4 1 7 ,	/ 5	6 3 * / 4 3 ,
/ 6			/ 6	
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0 .			0 .	
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0 3			0 2	
0 4		2 * 1 2 4 ,	0 3	
	V	6 0 0 * 5 3 0 ,	0 4	2 1 2 * 2 / 4 ,
0 5				
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0 7		/ * . 0 . * . 3 5 ,		3 7 6 * 3 .. ,
1 .				
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1 0		/ * 7 5 5 * 5 / 4 ,		0 * 7 . 7 * . 7 1 ,
1 1		0 * 6 .. * 2 4 6 ,		1 * 1 2 1 * 3 . 7 ,

/ 1 0 . / / / 0 + . 7 + 0 /

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N M Q G R G T C D S R S P C Q L C R U M P I  
B @ ? W C Q K C B G ?

7 / + / 5 / 3 7 / 4 N ec

Dmpk 77. & 0.0 /'

B @ ? WCQ KCBG ?

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Afc a i gd Q a f c b s i c M a m l r g l q p c q n m l q c m p l m r c r m r l l w l q l c p l l r f p d N p r V G

Afciaj qd Qafchbsic M amir ala pcgpnmlac mp lmr&tm}}}}Wibboddd}and}N}pr VGG

Wcq Lm

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0.0/.2./0 NMQGRGTC DSRSPCQ LCRUMPI .3.6.11/



NMQGRGTC DSRSPCQ LCRUMPI

Qafcbsic ? &Dmpk 77.' 0.0 B @ ? WCQ KCBG?

7 / + / 5 / 3 7 / 4 N e@

&Amknjcrc mljw gd wms afcaicb rfc `mv ml jglc 3\* 5\* mp 6 md N\_pr G mp gd rfc mpe\_lgx\_rgml  
d\_gjq rm os\_jgdw slbcn rfc rcqrq jgqrcb `cjm\* njc\_qc amknjcrc N\_pr GGG,'

A_jclb_p wc_p &mp dgqa_zj	wc &p 0 d5glgle&g10./6	&a0./7	&b0.0.	&c0.0/	&dRmr_j
/ Egdrq* ep_lrq* amlrpg` srgmlq* _lb kck`cpqfgn dccq pcacgtcb, &Bm lmr glajsbc _lw slsqsj ep	10/1303/, /1//210,	03136.7	0410567	1.236/3,	//44/.74,
0 T^w9 pcpcUd@0 rglsrcD@0 p€ à õc à ÷c_!p jg V 0@D ° 0 õ @D ° rra p0 @õ@0* ' -9 p 0pc, . 'rfpm Àjgo Dp° ID m@0D qPzv a_gjcbgrtl. @ahoo) AED 6000@A@0@am* ppA 4@6 ãõ_p` 00.0D /)m 0 gx_ 0D D õ@0• ` @D a` ` P 0D 0`					
1					
2 Rmr_j,	0/1303/, /1//210,	03136.7	0410567	1.236/3,	//44/.74,
3					
4 Ns`iga gsn@mrarjglc 3 d@mk jglc 2,					/6101/7,
					7606555,

A_j c l b_p w c_p & m p d g q a_j	w c & p "c e g l" z	& a'	& b'	& c'	& d'
5	0 / 1 3 0 3 ,	/ 1 / / 2 1 0 ,	0 3 1 3 6 . 7	0 4 1 0 5 6 7 ,	1 . 2 3 6 / 3 , / / 4 4 / . 7 4 ,
6					
7	4 * 7 2 4 ,	6 * . . 2 ,	6 * 2 5 . ,	4 * 4 7 / ,	3 * 0 6 . ,
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// R m r _ j q s n @ b t p i j g l c q 5 r f o m s e f /.	/ * / 5 3 ,	1 3 7 ,	1 * 6 0 5 ,	3 / 4 ,	0 * 5 6 1 ,
/0					// 5 . 3 / 2 5 ,
				/ 0	0 * 2 5 4 * 1 0 4 ,

/2	/2	6 1 , 7 5
/3	/3	6 7 . 6 .

/4\_11 /-1# qsnnmpr rcqr + 0.0/,  
grmn fcpc.

11 /-1# qsnnmpr rcqr + 0.0.,  
grmp fcpc.

V

` ./# +d\_arq+\_lb+agpaskqr\_lacq\_rcqr + 0.0.,

q r m n f c p c ,

/6 Npgt rc dmslb rgml.

Qaf cbsjc ? & Dmpk 77.' 0.0

/10.00 ./+.2+00

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0.0/..2./0 NMQGRGTC DSRSPCQ LCRUMPI .3.6.]]/

/ 3 1 . . 6 . 1 5 3 6 . 7 3 . . 3 . 6 .

N M Q G R G T C D S R S P C Q L C R U M P I  
B @ ? W C Q K C B G ?

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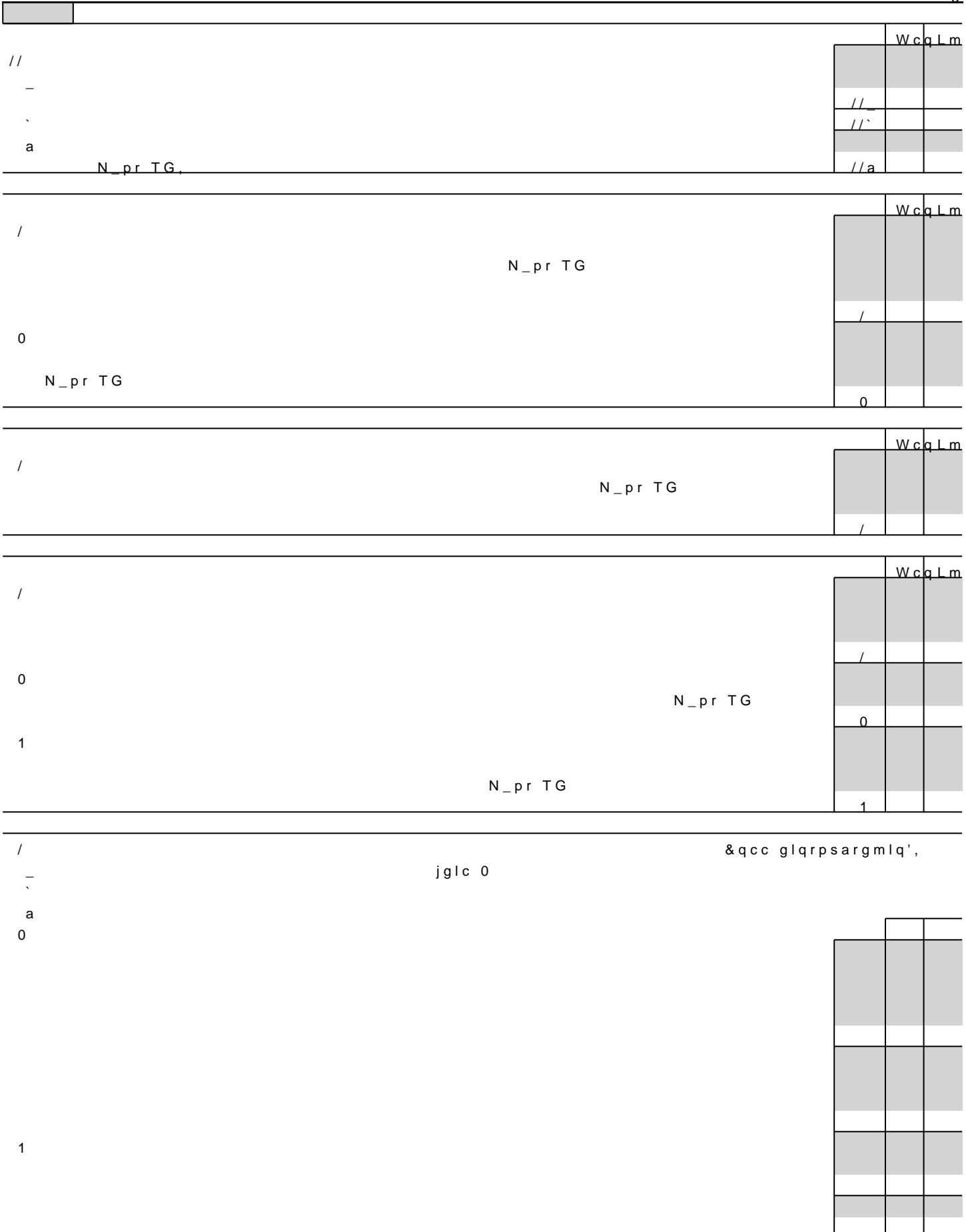
7 / + / 5 / 3 7 / 4



N M Q G R G T C D S R S P C Q L C R U M P I  
B @ ? W C Q K C B G ?

7 / + / 5 / 3 7 / 4

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/5

0.0 / , .2 / 0 N M Q G R G T C D S R S P C Q L C R U M P I .3 .6 .]]/

/31 .. 6.1 5 3 6.7 3 .3 .6 .

NMQGRGTC DSRSPCQ LCRUMPI

Qafcbsic ? & Dmpk 77. ' 0.07 @ ? WCQ KCBG?

7 / + / 5 / 3 7 / 4 N e 4

/	Afcai fcpc gd rfc mpe_lgx_rgml q_rgqdgcb rfc Glrcep_j N_pr RcqrfjchNopriQXwggdeqrpsargmliq, m ?jj mrfcp Rwnc GGG lml+dslargml_jjw glrcep_rcb qsnmmprgle mpe_lgx_rgmlq ksqr amknjcrc Qc	
Qcargml ? + ?bhsqrcb Lcr Glamkc		&?' Npgmp Wc_p &@' Asppclr Wc_p &mnrqml_j'
/ Lcr qfmp+rcpk a_ngr_j e_gl	/	
0 Pcamtcpgcq md npgmp+wc_p bgqrgpg`srqmlq	0	
1 Mrfcpc epmqq glamkc &qcc glqrpsargmlq'	1	
2 ?bb jglcq / rfpmsel 1,	2	
3 Bcnpcag rgml_lb bcnjcrgml	3	
4 Nmpqml md mnccp_rgle cvnclqcq n_gb mp glasppcb dmp npmbsargml mp amjjcargml md epmqq glamkc mp dmp k_l_eckclr* amlqcpt_rgml* mp k_glrcl lac md npmncprw fcjb dmp npmbsargml md gamkc &qcc glqrpsargmlq'		
5 Mrfcpc cvnclqcq &qcc glqrpsargmlq'	5	
6 ?bhsqrcb Lcr G&nskpc_ar jglcq 3* 4* _lb 5 dpmk jglc 26		
Qcargml @ + Kglgksk ?qqcr ?kmslr		&?' Npgmp Wc_p &@' Asppclr Wc_p &mnrqml_j'
/ ?eepce_rc d_gp k_picr t_jsc md _jj lml+cvcknr+sqc qqcrq &qcc glqrpsargmlq dmp qfmprr v wc p mp qqcrq fcjb dmp npmbsargmlq dmp npmbsargml mp ?tcp_ec kmlrfjw t_jsc md qcaspgrcq	qqcrq &qcc /	
?tcp_ec kmlrfjw a_qf `j_lacq	/`	
a D_gp k_picr t_jsc md mrfcp lml+cvcknr+sqc qqcrq	/a	
b Rmr&j_bb jglcq / * /* _lb /a'	/b	
c Bgqamsalj_gkcb dmp `jmai_ec mp mrfcp d_armpq &rjf[ch ch ^Nn[ccf 86		
0 ?aosggqrgml glbc`rcblcqg_nnija`jc rm lml+cvcknr+sqc qqcrq		
1 Qs`rp_ar jglc 0 dpmk jglc /b,	1	
2 A_qf bccckcb fcjb dmp cvcknr sqc, Clrcp .,./3 md jglc 1 &dmp epc_rcp _kmslr* qcc glqrpsargmlq',	2	
3 Lcr t_jsc md lml+cvcknr+sqc oÀoÈoÐ@oÀÐÀ°o` jgggg lml3 ?'ÀÐ6À7 eÐ oà o < jar jgl, `0r+cpqr~pÀ		
4 Pcamtcpgcq md npgmp+wc_p bgqrgpg`srqmlq m ppp 0 Æ%Ð0 0và0Ý rpt0 < jar jgl, `0r+cpqwo r+`		
5 A_q l/rbfcpc Á &0 ðàr md ðo`0 kmslr`rspqwo uðrrf`05 m+wl		
6 Kglgksk?qcpcr ?kmslr	6	
Qcargml A + Bgqrgpg`sr_`jc ?kmslr 0rg_fco0k_a_nÐ@n_fccb_D0A		
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4 Bgqrgpg`sr_`jc ?kmslr,	4	

Qaf cbs j c ? & D mpk 77.' 0.

N M Q G R G T C D S R S P C Q L C R U M P I

Qafcbasic ? & Dmpk 77 . 0 . B @ ? WCQ KCBG?

7 / + / 5 / 37 / 4 N e5

N pr TR wnc GGG Lml+ Dslargml jjw Glrcp rcb 3.7 & ' & 11' iQshom#single Mpe lgx_rg		
Ocargml B + Bgqrpg` srgmlq		Asppclr Wc p
/ ?kmslrq n_gb rm qsnnmprcb mpe_lgx_rgmlq rm _aamknjgqf cvcknr nsprnmqcq		
0 ?kmslrq n_gb rm ncpdmpk _argtgrw rf_r bgpcarjw dsprfcpq cvcknr nsprnmqcq md qsnnmprcb		
mpe_lgx_rgmlq* gl cvacqq md glamkc dpmk argtgrw	0	
1 ?bkglgqrp rgc cvnclqcq n_gb rm _aamknjgqf cvcknr nsprnmqcq md qsnnmprcb mpe_lgx_rgmlq		
2 ?kmslrq n_gb rm _aosgpc cvcknr+sqc _qqcrq	2	
3 Os_jgdgcb qcr+ qqbc kmslrq & npgmplicp? ^n mifprchN8chr'TQcc glqrpsargmlq,	3	
4 Mrfcpc bgqrpg^smjndqN&chr'TQcc glqrpsargmlq,	4	
5 Rmr_j_lls_j bgqrpg@bsbrqmlq / rfpmsef 4,	5	
6 Bgqrpg`srgmlq rm _rrclrgtc qsnnmprcb mpe_lgx_rgmlq rm ufgaf rfc mpe_lgx_rgml gq pcqnmlqg		
&lipc^ ^ n mifprchN8chr'TQcc glqrpsargmlq,	6	
7 Bgqrpg`sr `jc kmslr dmp 0.0/ dpmk Qcargml A* jglc 4	7	
/ Jglc 6 kmslr bgtgbcb `w jglc 7 kmslr	/.	
	&g'	&gg'
Qcargml C + Bgqrpg`srgmlq & qcr+ qbc jnqmlq glqrpsargmlq' Cvacqq Bgqrpg`srgmlq Slbcpbgqrpg`srgmlq Bgqrpg`sr `jc		
Npc+0.0/		
/ Bgqrpg`sr `jc kmslr dmp 0.0/ dpmk Qcargml A* jglc 4		
0 Slbcpbgqrpg`srgmlq* gd _lw* dmp wc_pq npgmp rm 0.0/ &pc_qml+		
`jc a_sqc pcosifidchNchr'TQcc glqrpsargmlq,		
1 Cvacqq bgqrpg`srgmlq a_ppwmtcp* gd _lw* rm 0.0/		
Dpmk 0./4		
` Dpmk 0./5		
a Dpmk 0./6		
b Dpmk 0./7		
c Dpmk 0.0.		
d Rmrjd jglcq 1 rfpmsef 1c		
e ?nnjcb rm slbcpbgqrpg`srgmlq md npgmp wc_pq		
f ?nnjcb rm 0.0/ bgqrpg`sr `jc kmslr		
g A_ppwmtcp dpmk 0./4 lmr nnjcb &qcc glqrpsargmlq'		
h Pck_glbcp, Qs`rp_ar jglcq 1e* 1f* _lb_1g dpmk jglc 1d.		
2 Bgqrpg`srgmlq dmp 0.0/ dpmk Qcargml B*		
jglc 58 "		
?nnjcb rm slbcpbgqrpg`srgmlq md npgmp wc_pq		
`?nnjcb rm 0.0/ bgqrpg`sr `jc kmslr		
a Pck_glbcp, Qs`rp_ar jglcq 2 _lb_2` dpmk jglc 2,		
3 Pck_glgle slbcpbgqrpg`srgmlq dmp wc_pq npgmp rm 0.0/* gd		
_lw, Qs`rp_ar jglcq 1e _lb_2_ dpmk jglc 0, Dmp pcqsjr epc_rcp		
rf_1 xcpmifidchNchr'TQcc glqrpsargmlq,		
4 Pck_glgle slbcpbgqrpg`srgmlq dmp 0.0/, Qs`rp_ar jglcq 1f		
_ib_2` dpmk jglc /, Dmp pcqsjr epc_rcp hrf_1 xcpm*		
N_pr, TQcc glqrpsargmlq,		
5 Cvacqq bgqrpg`srgmlq a_ppwmtcp crqn 10.00,		
_ib_2a,		
6 @pc_ibmul md jglc 58		
Cvacqq dpmk 0./5		
` Cvacqq dpmk 0./6		
a Cvacqq dpmk 0./7		
b Cvacqq dpmk 0.0.		
c Cvacqq dpmk 0.0/		

Qafcbasic ? & Dmpk 77 . 0 .

NMQGRGTC DSRSPCQ LCRUMPI

Qafcbsjc ? &Dmpk 77. 0. B @ ? WCQ KCBG?

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N\_pr T G s n n j c k c l r \_ j G l d m p k s m f g m l r , f c c v n j \_ l \_ r g m l q p c o s g p c b ` w N\_pr G G \* j g l c / . 9 N\_pr G G \* j g l c N\_pr G T \* Q c a r g m l ? \* j g l c q / \* 0 \* 1 \* 1 a \* 2 \* 2 a \* 3 \_ \* 4 \* 7 \_ \* 7 \* 7 a \* / / \_ \* / / ^ \* \_ l b / / a 9 N\_pr G T \* j g l c / 9 N\_pr G T \* Q c a r g m l B \* j g l c q 0 \_ l b 1 9 N\_pr G T \* Q c a r g m l C \* j g l c q / a \* 0 \_ \* 0 \* 1 \_ \* \_ l b 1 ' 9 Q c a r g m l B \* j g l c q 3 \* 4 \* \_ l b 6 9 \_ l b N\_pr T \* Q c a r g m l C \* j g l c q 0 \* 3 \* \_ l b 4 , ? j q m a m k n j c r c r f g q n & Q c c g l r p s a r g m l q , '

**Qafcbssjc** @  
&Dmpk 77.'

Bcn\_prkclr md rfc Rpc\_qspw  
Gircpl\_j Pctlsc Qcptgac

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B@? WCQ KCBG?

Mpe\_lgx\_rgml&arfwac\_mlc'8

Dgjcpq md8 Qcargm18

Dmpk 77. mp 77.+CX 3./&a'1' &clrcp lsk`cp' mpe\_lgx\_rgml

Ŷ 2725&\_&/' lmlcvcknr af\_pgr\_pqjrcpsqq \_ npgt\_rc dmslb\_rgml

Ŷ 305 nmjgrga\_j mpe\_lgx\_rgml

Dmpk 77.+ND Ŷ 3./&a'&1' cvcknr npgt\_rc dmslb\_rgml

Ŷ 2725&\_&/' lmlcvcknr af\_pgr\_`jc rpsqr rpc\_rcb \_q \_ npgt\_rc dmslb\_rgml

Ŷ 3./&a'&1' r\_v\_`jc npgt\_rc dmslb\_rgml

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Afcai gd wmsp mpe\_lgx\_rgml Eqlcapm\_jcpcQwcafc\_j Psjc,  
Lmrdbljw \_ qcargm1 3./&a'&5'\* &6'\* mp &/. mpe\_lgx\_rgml a\_l afcai `mvcq dmp `mrf rfc Eclcp\_j Psjc \_ib

Eclcp\_j Psjc

Ŷ Dmp \_l mpe\_lgx\_rgml dgjgle Dmpk 77.\* 77.+CX\* mp 77.+ND rf\_r pcacgtcb\* bspgle rfc wc\_p\* amlr  
npmncprw' dpmk \_lw mlc amlrpg`srm, Amknjrc N\_prq G \_lb GG, Qcc glqrpsargm1q dmp brcpkgl

Qncag\_j Psjq

Ŷ Dmp \_l mpe\_lgx\_rgml bcqapg`cb gl qcargm1 3./&a'&1' dgjgle Dmpk 77. mp 77.+CX rf\_r kcr rfc 11  
qcargm1q 3.7&\_&/' \_lb /5.&`&/'&?`&tg'\* rf\_r afcaicb Qafcbssjc ? &Dmpk 77.\* N\_pr GG\* jglc /1\* /  
amlrpg`srm\* bspgle rfc wc\_p\* rmr\_j amlrpg`srgm1q md kmpr rf\_l /\*... cvajsqgtcjw dmp pcjgegm  
jgrcp\_pw\* mp cbsa\_rgml\_j nspnmqcq\* mp dmp rfc npctlrgml md apscjrw rm afgjbpc1 mp \_lgk\_jq,  
L-? gl amjskl &` glqrc\_b md rfc amlrpg`srm l\_kc \_lb \_bbpcq1\* GG\* \_lb GGG,

Ŷ Dmp \_l mpe\_lgx\_rgml bcqapg`cb gl qcargm1 3./&a'&5'\* &6'\* mp &/. dgjgle Dmpk 77. mp 77.+CX r  
wc\_p\* amlrpg`srm\* pcjgegm1q md kmpr rf\_l /\*... cvajsqgtcjw dmp pcjgegm  
jgrcp\_pw\* mp cbsa\_rgml\_j nspnmqcq\* mp dmp rfc npctlrgml md apscjrw rm afgjbpc1 mp \_lgk\_jq,  
L-? gl amjskl &` glqrc\_b md rfc amlrpg`srm l\_kc \_lb \_bbpcq1\* GG\* \_lb GGG,

Ŷ Dmp \_l mpe\_lgx\_rgml bcqapg`cb gl qcargm1 3./&a'&5'\* &6'\* mp &/. dgjgle Dmpk 77. mp 77.+CX r  
wc\_p\* amlrpg`srm\* pcjgegm1q md kmpr rf\_l /\*... cvajsqgtcjw dmp pcjgegm  
jgrcp\_pw\* mp cbsa\_rgml\_j nspnmqcq\* mp dmp rfc npctlrgml md apscjrw rm afgjbpc1 mp \_lgk\_jq,  
L-? gl amjskl &` glqrc\_b md rfc amlrpg`srm l\_kc \_lb \_bbpcq1\* GG\* \_lb GGG,

A\_srgm18mpe\_lgx\_rgml rf\_r gq1%r amtcpb `w rfc Eclcp\_j Psjc \_lb-mp rfc Qncag\_j Psjqbmcq1%r dgj  
\_lqucp Lm ml N\_pr GT\* jglc 0\* md grq Dmpk 77.9 mp afcai rfc `mv ml jglc F md grq Dmpk 77.+CX mp  
rf\_r gr bmcq1%r kcr rfc dgjgle pcosgpcklq md Qafcbssjc @ &Dmpk 77.',

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JF? Dmp N\_ncpumpi Pcbargm1 ?ar Lmrgac\* qcc rfc glqrpsargm1q dmp Dmpk 77.\* 77.+CX\* &pfesfN®, &Dmpk 77.' &0.

NMQGRGTC DSRSPCQ LCRUMPI  
B@? WCQ KCBG?

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/31..6.1 536.73 .3.6.

NMQGRGTC DSRSPCQ LCRUMPI  
B@? WCQ KCBG?

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Qafcbasic @ &Dmpk 77.' &0.0/'

N\_ed

L\_kc md mpe\_lgx\_rgml

Cknjmwcp gbcrgdga\_rgml ls

NMQGRGTC DSRSPCQ LCRUMPI

7/+5/37/4

B@? WCQ KCBG?

N_pr G lma_qf Npm&cprw lqrpssargmlq', Sqc bsnjga_rc amngcq md N_pr GG gd _bbgrgml_j qn_ac g			
&_' Lm, dpmk N_pr	G	&'' Bcqapgnrgml md lmla_qf npmncprw egcl '	&a' DKT &mp cqrkrc' &Qcc glqrpssargmlq,, B_rc pcacgtcb
			"
&_' Lm, dpmk N_pr	G	&'' Bcqapgnrgml md lmla_qf npmncprw egcl '	&a' DKT &mp cqrkrc' &Qcc glqrpssargmlq,, B_rc pcacgtcb
			"
&_' Lm, dpmk N_pr	G	&'' Bcqapgnrgml md lmla_qf npmncprw egcl '	&a' DKT &mp cqrkrc' &Qcc glqrpssargmlq,, B_rc pcacgtcb
			"
&_' Lm, dpmk N_pr	G	&'' Bcqapgnrgml md lmla_qf npmncprw egcl '	&a' DKT &mp cqrkrc' &Qcc glqrpssargmlq,, B_rc pcacgtcb
			"
&_' Lm, dpmk N_pr	G	&'' Bcqapgnrgml md lmla_qf npmncprw egcl '	&a' DKT &mp cqrkrc' &Qcc glqrpssargmlq,, B_rc pcacgtcb
			"
&_' Lm, dpmk N_pr	G	&'' Bcqapgnrgml md lmla_qf npmncprw egcl '	&a' DKT &mp cqrkrc' &Qcc glqrpssargmlq,, B_rc pcacgtcb
			"
&_' Lm, dpmk N_pr	G	&'' Bcqapgnrgml md lmla_qf npmncprw egcl '	&a' DKT &mp cqrkrc' &Qcc glqrpssargmlq,, B_rc pcacgtcb
			"
&_' Lm, dpmk N_pr	G	&'' Bcqapgnrgml md lmla_qf npmncprw egcl '	&a' DKT &mp cqrkrc' &Qcc glqrpssargmlq,, B_rc pcacgtcb
			"

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Qafcbasic @ &Dmpk 77.' &0.

QafCBSJC @ &Dmpk 77.' &0.0/'

N\_e2

L\_kc md mpe\_lgx\_rgml

Cknjmwcp gbcrgdga\_rgml ls

NMQGRGTC DSRSPCQ LCRUMPI

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B@? WCQ KCBG?

N\_pr G G G qgctcjw pcjgegmsq\* af\_pgr\_jc\* cra,\* amirpg`srgmlq rm mpe\_lgx\_rgmlq bcqapg`cb gl qcargml 3./&a'&5'\* dpmk\_lw mlc amirpg`ksnjpq am&s kipms&t' \_lfc dmjjmugle jglc clrpw, Dmp mpe\_lgx\_rgmlq amknjrgle N\_pr GGG\* circp rfc rmr\_&mpgavaisqgtaw pmpgavaisqgtaw rfc &Clrp rfgqZgdm\_miae, Sqc bsniga rc amngcq md N pr GGG gd bbqrgml i gn ac qg lcccbc.

&'_Lm, dpmk N_pr G	&'' Nspnmqc md egdr	&a' Sqc md egdr	&b' Bcqapgnrgml md fmu egdr gq f

&c' Rp\_lqdcp md egdr

Rp\_lqdcpcc%q l\_kc\* bbpcqq\* lb XGN ) 2 Pcj\_rgmlqfgn md rp\_lqdcpmp rm rp\_lqdcp

&'_Lm, dpmk N_pr G	&'' Nspnmqc md egdr	&a' Sqc md egdr	&b' Bcqapgnrgml md fmu egdr gq f

&c' Rp\_lqdcp md egdr

Rp\_lqdcpcc%q l\_kc\* bbpcqq\* lb XGN ) 2 Pcj\_rgmlqfgn md rp\_lqdcpmp rm rp\_lqdcp

&'_Lm, dpmk N_pr G	&'' Nspnmqc md egdr	&a' Sqc md egdr	&b' Bcqapgnrgml md fmu egdr gq f

&c' Rp\_lqdcp md egdr

Rp\_lqdcpcc%q l\_kc\* bbpcqq\* lb XGN ) 2 Pcj\_rgmlqfgn md rp\_lqdcpmp rm rp\_lqdcp

&'_Lm, dpmk N_pr G	&'' Nspnmqc md egdr	&a' Sqc md egdr	&b' Bcqapgnrgml md fmu egdr gq f

&c' Rp\_lqdcp md egdr

Rp\_lqdcpcc%q l\_kc\* bbpcqq\* lb XGN ) 2 Pcj\_rgmlqfgn md rp\_lqdcpmp rm rp\_lqdcp

NMQGRGTC DSRSPCQ LCRUMPI  
B @? WCQ KCBG?

7/+5/37/4

NMQGRGTC DSRSPCQ LCRUMPI  
B @ ? WCQ KCBG?

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14 . \* 357 ,      023 \* 212 ,      //3 \* /23 ,      //3 \* /23 ,

NMQGRGTC DSRSPCQ LCRUMPI

Qafcbasic B & Dmpk 77. B @? WCQ KCBG?

7/+5/37/4 Nec

Amknjcrc gd rfc mpe\_lgx\_rgml \_lqucpcb Wcq ml Dmpk 77.\* N\_pr GT\* jglc //` , Qcc Dmpk 77.\*

&\_Bcqapgnrgml md qcaspagstwimipka mcepm@mmi t\_jsc &aKcrfmb md t\_js\_rgml8 Amqr mp clb+md+wc\_

&'Dgl\_lag\_j bcpdgflrlqfifq|||

&0'Amqcjw fcjb cosgrw|gllrfpdqrq

&1 Mrfcpc

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&D'

&E'

&F'

Rmr&Amj. &``ksqr cos\_j Dmpk 77.\* N\_pr V\* amj. &@'jglc /0.' z

Amknjcrc gd rfc mpe\_lgx\_rgml \_lqucpcb Wcq ml Dmpk 77.\* N\_pr GT\* jglc //a, Qcc Dmpk 77.\*

&\_Bcqapgnrgml md gltcqrkclr &`@mmi t\_jsc &aKcrfmb md t\_js\_rgml8 Amqr mp clb+md+wc\_

&/'

&0'

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Rmr&Amj. &``ksqr cos\_j Dmpk 77.\* N\_pr V\* amj. &@'jglc /1.' z

Amknjcrc gd rfc mpe\_lgx\_rgml \_lqucpcb Wcq ml Dmpk 77.\* N\_pr GT\* jglc //b, Qcc Dmpk 77.\*

&\_Bcqapgnrgml &`@mmi t\_jsc

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Qafcbasic B & Dmpk 77.' 0.

/10.31 /.+06+0/

NMQGRGTC DSRSPCQ LCRUMPI

7 / + / 5 / 37 / 4 N e2

Qafcbsjc B & Dmpk 77. B @? WCQ KCBG?

N_pr	VPGcamlagjg_rgml	md	Pctclsc	ncp	?sbgrcb	Dgl_lag_j	Qr_rckclrq	Ugrf	Pctclsc
Amknjcrc	gd	rfc	mpe	Igx rgml	Iqucpbc	Wcq ml	Dmpk	77.*	N_pr GT* jglc /0 .
/ Rmr_j	pctclsc*	e_glx	_lb	mrfcp	qsnnmpr	ncp	_s b g t b t b l b _j	qr_rckclrq /	1 * 507 * ..4 ,
0 ?kmslrq	glajscb	ml	jglc /	`sr lmr	ml	Dmpk	77.*	N_pr TGGG* jglc /08	
_ Lcr	slpc_jgxcb	e_glx	&jmqqcq	m  b t b t b l rq			0		
` Bml_rcb	qcptgacq	_lb	sq b t b t b l rq				0`		
a Pcamtcpgcq	md	npgm b t b t b l rq					0a		
b Mrfcp	&Bcqapg`c	g  N l p t M G G					0b		
c ?bb	jg c qfpms@b							0c	,
1 Qs`rp_ar0jglpmk	/g b							1	1 * 507 * ..4 ,
2 ?kmslrq	glajscb	ml	Dmpk	77.*	N_pr	TGGG* jglc /0*	`sr lmr	ml	jglc /8
_ Gltcqrkclr	cvnclqcq	lmr	glajscb	ml	Dmpk	77.*	N_pr	TGGG* jglc 5`	
` Mrfcp	&Bcqapg`c	g  N l p t M G G					2`		
a ?bb	jg c q b2`							2a	,
3 Rmr_j	pctclsc.	?bb b2 a n b cm	gomn	ko f @ilg	33*&{U D n C B }fch{)+#			3	1 * 507 * ..4 ,
N_pr	VPGcamlagjg_rgml	md	Cvnclqcq	ncp	?sbgrcb	Dgl_lag_j	Qr_rckclrq	Ugrf	Cvncl
Amknjcrc	gd	rfc	mpe	Igx rgml	Iqucpbc	Wcq ml	Dmpk	77.*	N_pr GT* jglc /0 .
/ Rmr_j	cvnclqcq	_lb	jmqqcq	ncp	_sbgrcb	b t b t b l b t b l rq		/	0 * 575 * 407 ,
0 ?kmslrq	glajscb	ml	jglc /	`sr lmr	ml	Dmpk	77.*	N_pr GV* jglc 038	
_ Bml_rcb	qcptgacq	_lb	sq b t b t b l rq				0		
` Npgmp	wc_p	_b b s b t b t d					0`		
a Mrfcp	jmd b d						0a		
b Mrfcp	&Bcqapg`c	g  N l p t M G G					0b		
c ?bb	jg c qfpms@b							0c	,
1 Qs`rp_ar0jglpmk	/g b							1	0 * 575 * 407 ,
2 ?kmslrq	glajscb	ml	Dmpk	77.*	N_pr	GV* jglc 03*	`sr lmr	ml	jglc /8
_ Gltcqrkclr	cvnclqcq	lmr	glajscb	ml	Dmpk	77.*	N_pr	TGGG* jglc 5`	
` Mrfcp	&Bcqapg`c	g  N l p t M G G					2`		
a ?bb	jg c q b2`							2a	,
3 Rmr_j	cvnclqcq	?bb b2 a n b cm	gomn	ko f @ilg	33*&{U D n C B }fch{)+2(#			3	0 * 575 * 407 ,
N_pr	VPGcamlagjg_rgml								
Npmtgbc	rfc	bcqapgnrgmlq	pcosgpcb	dmp	N_pr	GG* jglcq	1 * 3 *	_lb	79 N_pr GGG* jglcq / _lb 29 N_pr

Npmtgbc rfc bcqapgnrgmliq pcosgpcb dmp N\_pr GG\* jglcq 1\* 3\* \_lb 79 N\_pr GGG\* jglcq /\_ \_lb 29 N\_pr jglcq 0b \_lb 2`9 \_lb N\_pr VGG\* jglcq 0b \_lb 2` , ?jqm amknjcrc rfgq n\_pr rm npmtgbc \_lw \_bbgrgml\_j g

QAFCBSJC M Qsn njckclr\_j Gldmpk\_rgml rm Dmpk 77 mp 77. +  
(Form 990) Amknjcrc rm npmtgbc gldmpk\_rgml dmp pcqnm lqcq rm qncagdga scq gml q ml  
Bcn\_prkclr md rfc Rrc\_qspw Dmpk 77. mp 77.+CX mp rm npmtgbc \_lw \_bbgrgml\_j gldmpk\_rgml,  
Grcpl j Pctlsc Qcptgac z ?rr\_af rm Dmpk 77. mp Dmpk 77.+CX, Mncl rm Ns`jga  
L\_kc md rfc mpe\_lgx\_rgml z Fm rm uuu,gpq emt-Dmpk77 dmp rfc j rcqr gldmpk\_rgml Gtncargml  
Cknjmwcp gbclrgdga\_rgml ls

DMPK 77.\* N?PR GGG\* JGLC 2@\* NPMEP?K QCPTGAC ?AAMKNJGQFKCLRQ8

DMP RP?LQDMPK?RGTC AF?LEC,

DMPK 77.\* N?PR TG\* QCARGML @\* JGLC //@8

AMNGCQ MD RFGQ 77. UCPC NPMTGBCB RM RFC DGL?LAC AMKKGRRCC MD RFC  
PCTGCU ?LB ?NNPMT?J, RFCW RFCL BGQRPG@SRC AMNGCQ RM RFC DSJJ @M?P  
GR @CGLE DGJCB,

DMPK 77.\* N?PR TG\* QCARGML @\* JGLC /0A8

PCTGCUCB ?LLS?JJW ?R @M?PB KCCRGLE,

DMPK 77.\* N?PR TG\* QCARGML @\* JGLC /3?8

@M?PB NCPQMALLCJ AMKKGRRCC PCTGCUQ AMKNCLQ?RGML DMP CVCASRGTC BC  
AMKN?PCQ RM QGKGJG?P MPE?LGX?RGMLQ GL IGLE AMSLRW,

DMPK 77.\* N?PR TG\* QCARGML A\* JGLC /68

JF? Dmp N\_ncpumpi Pcbasrgml ?ar Lmrgac\* qcc rfc Glqrpsargmlq dmp Dmpk 7Qafnpbs77.MC&XDmpk 77.' 0  
/100// //+/+0/

Qafcbasic M & Dmpk 77.' 0 0/

L\_kc md rfc mpe\_lgx gml NMQGRGTC DSRSPCQ LCRUMPI  
B@? WCQ KCBG?

N\_e6

Cknjmwcp gbcirgdga rgml ls  
7/+5/37/4

DSLBP?GQGLE CVNCLQCQ

135,

RMR?J CVNCLQCQ

/05\*.4.,

PC?AF ?LB MSRPC?AF8

NPMEP?K QCPTGAC CVNCLQCQ

37\*2/7,

K?L?ECKCLR ?LB ECLCP?J CVNCLQCQ

1\*313,

DSLBP?GQGLE CVNCLQCQ

/0\*.4.,

RMR?J CVNCLQCQ

52\*75.,

MRFCP NPMDQQGML?J QCPTGACQ8

NPMEP?K QCPTGAC CVNCLQCQ

26\*.70.,

K?L?ECKCLR ?LB ECLCP?J CVNCLQCQ

13\*65.,

DSLBP?GQGLE CVNCLQCQ

/4\*265.,

RMR?J CVNCLQCQ

/..\*227.,

RMR?J MRFCP DCCQ ML DMPK 77.\* N?PR GV\* JGLC //E\* AMJ ?

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