

'DW3HSDUHG

\$ ('8&\$7,21 \$1' \$&\$'(0,& 48\$/,),&\$7,216

(GXFDWLRQ

%6VXPPD FXP	'LHWHWLFV	8QLYHUVLW\ RI
06	\$OO-LHDCOWK 6FLHQF	8QLYHUVLW\ RI
3K'	1XWULWLRQDO 6FLI	8QLYHUVLW\ RI
	'U -DQHUVVWHL	

3RVWGRFWRUDO 7UDLQLQJ

3RVWGRFWRUDO	1XWULWLRQ	\$JLQJ	,QVWLWXWH IRI
)HOORZ	0XVFXORVNHOWDC	5HVHD	HEUHZ 6
	'U 0DULDQ	QDF	/LIH+DUYDUG 0F
			6FKRRO
± 3RVWGRFWRUDO	1XWULWLRQ	\$JLQJ	%, '0& +DUYDUG
)HOORZ	0XVFXORVND	5HVHD	7UDQVODWLRQI
	'U 0DULDQ 7	+DQC	\$JLQJ 7UDLQLQ

\$SSWPHQWV

\$VVRFLDWH 3	'HSDUWPHQW RI	%L	8QLYHUVLW\ RI
SUHVHC	1XWULWLRQDO 6FLI	0DVVDFKXVHWV	
1XWULWLRQ 3	'HSDUWPHQW RI	%L	8QLYHUVLW\ RI
SUHVHC	'LUHFWRU	1XWULWLRQDO 6FLI	0DVVDFKXVHWV
\$GMXQFW)DF	0DUFXV	,QVWLWXWH	+HEUHZ 6HQLRI
SUHVHC			+DUYDUG 0HGL
			\$IILOLDWH %R

8 6 %RQH DQG 8 6 %RQH DQG W-RY &RPSHWLWLY
 ,QLWLDWLYH <R DFFHSWDQFH
 ,QYHVWLJDWRU\
 \$JLQJ DQG &KUF \$PHULFDQ 6RFLHW' &RPSHWLWLY
 5HVHDFK ,QWH DQG UHVHDU
 3RVWHU &RPSHV
 :LQQHU
 <RXQJ ,QYHVWL \$PHULFDQ 6RFLHW' &RPSHWLWLY
 0LQHUDO 5HVHDFK DQG UHVHDU
 6HYHQWK)HOOR \$PHULFDQ 6RFLHW 6HOHFWHG SI
 0HWDEROLF %R(0LQHUDO 5HVHDFK DQG WUDYHO
 UHFLSLHQW
 0DU\)UDQFHV 3 1DWLRQDO ,QVWLW 6HOHFWHG SI
 'LHWDU\ 6WSSO+ DQG WUDYHO
 5HVHDFK 3UDF UHFLSLHQW
 \$PHULFDQ 'LHWI \$PHULFDQ 'LHWHW 6FKRODVWLF
 \$VVRFLDWLRQ 2
 'LHWHWLF 6WXG
 * -DQH +DUWPD \$PHULFDQ 'LHWHW 6FKRODVWLF
 6FKRODUV 5

% 352)(66,21\$/ \$&7,9,7,(6

3URIHQDQ 6RFLHWLHV

\$PHULFDQIR 6RFLHWLHV QHUC 0HPEHU

SUWH 5HVHDFK

\$PHULFDQIR 6RFLHWLHV 0HPEHU

SUHVHC

\$PHULFDQIR 6RFLHWLHV 1XWULWLRQDO (SLGHPLI
 6HFWRUHQH 6RFLHWLHV U
 &KDLUVPLSOV (LSHULPHQ\
 %LROH 1XWULWLRQ&KDLU
 1XWULWLRQ (SL 5,6 0HQ

\$PHULFDQ &ROOHJH RI 5 0HPEHU

\$FDGHP\ RI 1XWULWLRQ 0HPEHU
 &RQQHFVLFXW 'LHWHWL

3, .HOVH\ 0DQDQJ

'LHWDU\PWGLVRI\SRW\XUH DQG JXW KHDOWK DPRQJ I
86'\$ \$

3, .HOVH\ 0 0DQJDQR

7KH LPSDFW RI WSKHQ & 219,LF RQ SV\FKRVRFLDO KH
ORQJLWXGLQDWRR KIRFUDQ FDIGKCHW 86 OFDYLOO DRQG
8QLHUVLW\ RI ODVVDFKXVHWWV /RZH 619, QWHUQI
3, .HOVH0DQJDQR

7KLV SURMHRV 219, LEWODGHG, FRKRUV WKH %R\
6WXG\ % 219-6 REWDLQ GCHWDPS 619, FDU 619, LF
YXOQHUDEOH HWKQLF PLQRULW\ SRSXODWLRQ

%RQH PLFURDUFKLWHFWXUH GLDEHWHV DQG FKI
DGXOWV

1,+5 1,\$05 \$5

&R, HIIRUW .HOVH\30.DQDQJUDLQRH 719, F 219, 019, 219,

FR QUL QJ SURWHFWLRQ DJDLQVW R V W H D R S R U R G R V L Q K X P
MRQH (SXE 'HF

.UR QUS +PD DQ /HH7KL+QD QDQ.R 2Q PRRG DQXG DWR LG HI QJ C
HQ R X J H V K H D O W K L H Y L D R S I G U F K I R Q H M G W I L X F Q ' H O L J K W 3 U R P R W F
)L J X W L E / D Q J X D J H , Q F U H D V H V 3 H U F H L Y H G (Q M R \ P H G W D D Q
& R P R Q L F D W L R Q

0 D O G R Q W \$ / H U I R (O : D U S 9 H O H P D Q J D . Q R \$ V V R F L D W L R Q V E
J X W L R U E L R P H D Q G V K R U W F K D L Q I D W W \ D F L G S U R G X F W L R
D P H L O W G E \ Q D H X \$ F D G 1 X W U ' L H I F V H G R L
M D Q G (S X E \$ X J

1 R 6 (0 D Q J D . Q R 0 D W - W * H I L I H L W ' D Z V + R Q J K % V % L J F U Q D D F N . H U \$ 6 +
0 H G H U Q H D Q D Q G \$ O W H D V D Q L Y E I G H F D H O W K U H D V V R F L D W H G
5 L F D Q X O W W K U R % R X H W R R C R 5 L F F D S R X V K M \$ W H U L F D Q - R X U Q C
1 X W R Q W L R O X P H , V V X H - X Q H K W W S M J H G R L R U J

1 R 6 (6 \$ U H Y D O R 6 3 0 D O H J D D Q R = 9 0 H O H J 0 / R 4 X Z J K H V % 7 X F N H U .
D V X W G H E H O L H I V E D K G R K R E D Q W H K K H D O W K Q D I P R S Q J Q & D U I D E S E L H Q R
2 V W S I R / U R) H E G R L V \$

4 X L Q Q (0 * K D J D D Q J D Q R 7 K L Q G + 7 R Z D U G V Q M H D D O V K W \$
S Q R W X G R X U Q D O R I \$ P H U L F D Q & R O O H J H + H D O W K
0 D Q D R . 0 1 R H O D K Q 1 6 6 N H 7 X + L J K H U ' D L \$ U H Q S W D R F V D W H G - 1/4

\$6&,\$7(' 35(6HVEHORZ

0DQDR .0 .HQQ\ \$0 7KH 5ROH RI 'LHW DQG XWU LWRW ERS D
WKH CHU & XUU 1XWU 5HS GRL V

0F/HQ 50DQJDQR +DDQ 07 .LHO '3 6DKQL 6 'LHWDU\ 3UR

0DQDR .0 +XWFLVV.HQQ\ \$0 :DOVK 6- \$ERXUSFLX5D\$OX:
.OSLQ\$BUVFBH/HVWZRRG . .HURWHWQVH DQ(GH BX BHDMLCQ
EXW QXW OLSLCO/GHU ZRPHQ \$ UDQGRWJH 5FRQWUROOI

0DQDR 0 6DKQL 6 .HUVWHWWHU -(.HQQ\ \$0 +

L +HDOWKWS ZZZ KHDOWK JFRPDSM BODQWESOR VHKLOG
PXVFOH
M 2UWKRS MGKLVKWNV U\RUWKX QIRODMSWHDVH
EHWKIDQVED OMSD WLDHQRUH

5DGLR

D *HUPDQESDLF 5D6L6RHFWLRQ IRU 6FLDQGHYLRQRQRQRJRJ\
:HVWGHXWVFK)HEBXQGXQN

\$VVRFLDWZCQBQHVV

D 0HGLD \$DUWR OÂÆTE'ÜI Í .F u'Jú\$ VVRFLDW pD O-¼ ¼ • pÍ • .F u'JúÀ

V L J Q D W X P U R H Q J P H R H Q Q Z L W R K B Q V G Z M W W H K R S P U R R W W B Q F B X Q H
2 V W S I R U L R 6 W \$ P G I U L F D Q 6 R F D G O V L Q H R U D % R Q N H D Q F A K L \$ L Q F Q C
2 U Q Q R S R V M W H U Q S V D W L R Q

3 X W & U D S L P % X & K \$ K D M Q R Z * D O H O D Q J D . Q R , P S D F I W L H W D H L Q 3 L
6 R X H R Q X V H F Q H U I R U P , Q Q L F Y R % Q K D Y L \$ P H O L \$ V Q D 6 R F R I Q W \\
\$ Q Q X E L H Q W L I L P % D O M M V E Q W H 0'

0 D Q D R . 0 1 R H O 6 (/ D L & 4 3 D U Q H O O / + X 2 K I G R Y / D V 7 X F N '
\$ V V I R F W L V R Z H E I G K U H G W L W D Q Q H Y P H J W V D R E O L S V H F V I D I Q Q H M W
S W K Z / P D R Q J 3 X H U W R 5 L F K H O \$ Q X O W R Q Z H V S K H Q R W \ S L F V D Q
2 V W S I R U L R 6 W \$ P G I U L F D Q 6 R F D G O V L Q H R U D % R Q N H D O U 6 F K L H I Q W /
0 R Q D U \$ & S R V M W H U Q S V D W L R Q

3 X W & D D O G R Q D G R \$ / D Q J R H O R 6 ((P S U D R W R U \ 6 W X Q W R I 0 L I F U
' L V M H L Q D Q 8 Q G R S X V X V L R Q R I & D U L E E H D Q / D W L Q R \$
1 X W R U Q V \$ Q Q X L D H Q W L Q U % R V W R Q B V W H U S Q H V H Q W D W L R

0 D Q D R . 0 % D U P D V K L - 9 H O H] 0 K I H R H D W 6 (Q R Q & J D R E Q O L M
\$ Z D U Q V V R I % R Q H + H D O W K & R Q P X Q U W Q F Q J D W \$ P H Q W 6 \ P
0 D V V I X F V H W W V : R U F D H V W H I Q W M V M G H U R U F S V M H S U ' [@ U N A @ H Q W I

0 D Q D R . 0 1 R H O 6 (% L J R U Q L D 6 - V H X G F N H M V H / U W D L D U % D I
\$ W R L D G V Z L W K % R Q H 0 L Q H U D H U W H R Q 5 L M D Q D \$ B Q O W X \$ P H L

GLFWDWH \RXU PXVFXOR +HEUHZ 6HHQLRU/L
,QYL3WHG/HQWDWLRQ ,QVWLWXWH DRUHFHVHVDU
3URJUHVV
0HQWRUV DQG @HQJWWHM ,QVWLWXWH IRU \$JLQJ 5
5HODWLRQV KL %HWK QM GDFDO &HQWHU
,QYLWHG 3UHVHQWDWLR 7 3URFWRUDO 7UDLQLG

3URWHLQ URWDFNLVSD ,QVWLWXWH \$JLQJ 5HVHDU
VWJMK DRXWVQDPKQJK +DUYDUG 0HGLFDO 6FKR
2VWHRSRURVLV 6WXG\
,QYLWHG 3UHVHQWDWLR

) R U P ~~D~~ ~~H~~ ~~D~~ ~~F~~ ~~K~~ ~~L~~ ~~G~~ ~~H~~ ~~R~~ ~~L~~ ~~G~~ ~~H~~ ~~Q~~ ~~W~~ ~~V~~ & O L Q L F D I O) ~~H~~ ~~H~~ ~~O~~ ~~O~~ ~~R~~ ~~Z~~ ~~Z~~ ~~W~~ ~~S~~ ~~R~~ ~~G~~ ~~W~~ ~~H~~ ~~V~~ ~~H~~ ~~D~~ ~~U~~ ~~F~~

QH HGV"

'LHW DU\ P& D Q E L) & R D X W K R U

3URWHLQ D\$Q GH'

9LHZ

,QVLGH D 'LHWI0HGLDNVHSHD

&XSERDUG

+R P H D G U Q H H Z V

8QLYVHLW\ R W F W R C

1% & &R Q F W L W Z1M H

8QLYHUV D W V D R F K X V H V & R P P L W W H H O W L H V

<HDW /HYO 3R JUDP 5ROH

'HSDUWP)DFXOW\ 6HDUFK 38KDFUPPLDFW 0HPEHU
6FLHQFHV

'HSDUWP)DFXOW\ 6HDUFK 77 & R P P L W W L 0HPEHU
(SLGHPLRORJ\

8QLYHUV -XLRU)DFXOW\ 0HQWRULQ 0HPEHU

8QLYHUV)DFXOW\ FKH & R P P L W W 77 H % O L F 0HPEHU
'HSDUWP

& R O H J H +XPDQLVP LQ ,QWHUSURIH' 0HPEHU
)HOOR 300MS 0HGLFDO 6FK
0\$

& R O H & +6 8QGHUJUDGXDW H & R P F 0HPEHU

8QLYHUV 3URYRV W W L R Q P D Q G 7H Q X U F 0HPEHU
& R P P L W W H H

& R O H 6F' 3RSXODWLRQ +HDOWK ' 0HPEHU

3UHVF 'HSDUWP 1XW Q D W L R F L H Q F O H H 3 M L R Q J U C & K D L U

3UHVF 'HSDUWP /HDG K L S V & R P P L W W H H P H Q W 0HPEHU
%LRPH D Q E D O X W U L W L R Q D O

8QLYHUV VRI 0DVVD / R K X O H D W G W V K L S \$ F W L Y L W L H V

3UHVF H Q W U 3 W R J U D P 'L U H F W R U 'HSDUWP P G L Q F D O R I 6 F K M Q J L H W L R C