

V X V H D O G D I Q ^ V H I B D E V L Q J S U H V F U L S W L R Q S D L  
\$ P H U L F D Q V G L H H Y H U R G D \ D V D U H V X O W R I S U H  
@ W K D V D O V R E H Q U S R U W H G W K D W I Q H Y  
I D G Q J F D X V H R K I G M X O G H D W K U D Q N L Q J H Y  
Y R O Y L Q J F P R A V R U Y H K E P O H  
W K H V H G D W D S U R Y L G H V X S S R U W W K D W W K H Z  
W K R G V

H U Y L H Z 3 W R D F H O X W K H V > @ , Q \$ P H U L F D Q V  
H G R I G U X J R Y H U G R V H R I W K D W H I Q Y R O Y H G S U H V F U L S W L R Q G U X J V  
Q L Q W L D O R Y L G H C H E N Z D V G H Y H O R S H G L R U 3 U H W K H S U H V H Q W H U V \$ O O S D U W L F L S D  
X D W H V W R O S H R S O H D O P R V W S H R S O H D G D X  
U H V H Q W D W L R Q W K D W G D W D D F T X L U H G G U L Q J W K L V Z H E L Q D U Z R X O G E H X V H G I R U  
Q D O V L V R Q G S X E O L F D W L R Q E X W W K H \ Z R X O G U H P D L Q F R P S O H W H O  
Z L Q J S U R E O H P E Q W K H Z R U N S O D F H Q R Q P R X V

H U H V D J U R Z L Q J L V V X H R I D G X O W S U H V F U L S W L R Q G U X J P L V X V H D Q G  
X V H Z K L F K O H D G V W R S U R G X F W L Y L W \ F R V W V L Q W K H Z R U N H Q Y L U R Q P H Q W > @  
S U R E O H P L V G L V W U L E X W H G Z L G H O \ D F U R V V W K H F R X Q W U \ D Q G L V D O D U J H  
U G H Q W R R U J D Q L ] D W L R Q V H V S H F L D O O \ Z K H Q H [ D P L Q L Q J W K H F R P E L Q D W L R Q  
F R V W V > @ : K L O H K H F R ! w \$ • S D U W L F L S D Q W V L Q Y R O Y H G L Q W K H G L V F X V V L R Q

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9 R O X P H k , V V X H k

D O

'DWD ZDV DQDO\vhg XVLQJ SDLU \ZLVH FRPSDULVRQ WHFKQLTXHV  
DOORZV IRU\y\WLRK\Q\WR\WGDWD VR DV WR RQO\ DYRLG WKH PLVVLQJ  
GDWD ZLWKLQ D FDVH SHUPLWWLQJ WKH UHVW RI WKH GDWD UHPDLQLQJ LQ WKH  
WR EH XVHG

3DUWLFLSDQWV

'DWD DFTXLUHG SULRU WR WKH ZHELQDU FDPH IURP SDUWLFLSDQWV  
IHPOH ZHUH D\W\N\W\DR\VL[ LWHP VXUYH\ GHVLJQHG WR DVVHV  
SDUWLFLSDQW RSLQLRQV RQ SUHVFULSWLRQ GUXJ DEXVH DQG GHVLUH WR OH  
PRUH DERXW SUHYHOSWH\Z\W\B\Q\W\\$B\Q\W\FLSDQWV  
ZHUH DVNHG WR SURYLGHD PRUH LQO\HSWK UHYLHZ RI WKH VOLGH GHFN DQG  
RXW D SRVW VXUYH\ ZKLFK PHDXUHG DWXLWXGHV WRZDUG WKH ZHELQDU DQG  
ZHELQDU

	0HDQ 6	\$JUHH 6WURQJO\ \$JUHH
, DP LQWHUHVWHG LQ JHWWLQJ	FHUWLILHG LQ	WKLV WUDLQLQJ
0\ NQRZOHGJH DERXW SUHVFULSWLRQ GUXJV LPSURYHG		
, FDQ VHH ZD\V RI XVLQJ ZHELQDU FRQWHQW LQ P\ RZQ SUDFWL FH RU ZRUN		
, DP PRWLYDW HG WR OH DUQ PRUH DQG GR PRUH LQ WKH DUHD RI SUHYHQW LRQ LQ SUHVFULSWLRQ GUXJV		
, SODQ WR DFWXDOO\ XVH FRQWHQW LGHDV LQ P\ ZRUN		
0\ SHUVSHFWLYH RQ KRZ WR GHDO ZLWK WKH ULVNV RI SUHVFULSWLRQ GUXJV LPSURYHG		

7DEOH\WLOLW\ RI WKH SUHVHQWDWLRQ ,Q GHSWK UH YLHZ HUV 1RWH /LNH UW  
VFDOH DQFKRUV UDQJHG IURP a c6WURQJO\ 'LVDJUHHd WR a c6WURQJO\  
\$JUHHd 6DPSOH VL]H

7DEOH VKRZV D QXPEHU RI UHVS RQV HV WR WKH ZHELQDU WUDLQLQJ DQG

&LWDWIRQSHU 0 %HQQHWW - \*DOYLQ ' /XFDV \* :RUNSODFH 3UHYHQWLRQ RI 3UHVFUL  
HGXFDWLRQDO 3URJUDP - \$GRLFW 5HV 7KHU

3DJH RI

OD\RU(JD%H NH U-PDDQSL\*V :HEMLQMDZUSUWRRO IRSJOWHUQDWLYH \$SSURDFKHV WR 3DLQ 5HVHD  
GHYHORSLHQJH FPDOLWYHW XUHV RQOLQH RU LQ S&KLUVRQQLF 3DGGCQHQGDWVWJ \$GGLFWLRQ =RJE\ S  
\$IULFDQ -RXUQDO RI 2SKWKDOPRORJ\ +HUQDQGH] 6+ 1HOVRQ /6 3UHVFULSW  
0ROD\ . %HVW 3UDFWLFHV IRU :HELQDUWKH HSLGHPLF &OHQDFDO 3KDUP DQG