

80 8:&)LUVW XWLOL]LQJ WKH REVHUYDWLRQDO VWXG\ DV D SLOF
DQG SODQQHG IRU WKH \H DU IROORZLQJ WKH REVHUYDWLRQDO V
SHULRGV RI WKH DERYH OLVWHG JUDQWV 6HFRQG D GLVFXVVL
VFDOLQJ RI WKH SRWHQWLDLQWHUYHQWLRQ VWXG\)LQDOO\ D
WR HQVXUH WKH WUDMHFWRU\ RI WKHVH SURMHFWV PDNH VHQVH
SROLFLHV DPHG WR EH LPSDFWHG

\$GGLWLRQDOO\ VHYHUDO VPDOOHU VWXGLHV DUH EHLQJ GLVFXV
OHYHO GDWD WR VHH ZKHUH SROLF\ LV XQFHUWDLQ LQ UHJDUGV

\$GGLWLRQDO 2EMHFWLYHV ± 6HPLQDU 3RVWHU DQG 0DQXVFUL

/DVWO\ VHYHUDO RWKHU REMHFWLYHV ZHUH FRPSOHWHG GXULQJ
PDQXVFULSW)LUVW D KDOI GD\ VHPLQDU ZDV UXQ DW WKH 8QLY
+HDWK ZKHUH , SUHVHQWHG RXU ZRUN IURP OLVVRXUL 6 7 DQG
WKH 6RXWK \$IULFDQ FRQWH[W

6HFRQG IURP WKH HDUO\ ZRUN DURXQG GHYHORSLQJ D IUDPHZRU
LPSDFW D SRVWHU ZDV VXEPLWWHG 'DQWHSUHQG DQG 0DQXVFULSW
)RRG 6HFXULW\ LQ &DSH KWRZQ ZZH JOREDO IRRG VHF XULW\ EG 0XGH
UHVHDUFKHUV IURP WKUHH GLIHUHQW XQLYHUVLWLHV LQFOXGLQ

)LQDOO\ WKH DQDO\VLV FRQGXFWHG LQ FROODERUDWLRQ ZLWK F
GDWD ZDV WXUQHG LQWR D PDQXVFULSW DQG LV FXUUHQWO\ JRL
PDQXVFULSW WR WKH -RXUQDO RI :RUOG 'HYHORSPHQW RU VRPH

7LPHOLQH RI \$FWLYLWLHV DQG 0HHWLQJV

+HUH , SURYLGH D VXPPDWLYH WLPOLQH RI NH\ DFWLYLWLHV DQ

-XQH^G ± \$UULYH DQG EHJLQ ZRUN DW WKH 'HYHORSPHQWDO 3D
WKH 8QLYHUVLW\ RI WKH :LWZDWHUVUDQG DW WKH %DUDJZDQDWK

-XQH^G WK ± :RUNHG WR HGLW YDOLGDWH DQG WHVW PDWHULD
PRQLWRULQJ WR EH GHSOR\HG LQ DQ REVHUYDWLRQDO VWXG\ EH

-XQH^{WK} ^{QG} ± \$WWHQGHG WKH \$PHULFDQ \$VVRFLDWLRQ RI (QYL
6FLHQFH 3URIHVVRUV LQ \$QQ \$UERU 0, WR SUHVHQW ZRUN RQ LQ

-XQH^{WK} -XO^{WK} ± +HOG PXOWLSOH URXQG WDEOHV GLVFXVVL
GHYHORS RXU IUDPHZRUN RQ LQIHFWLRXV GLVHDVH WUDQVPLVVL

-XO^{WK} WK ± :KLOH PRVW RI RXU ZRUN ZDV IRFXVHG RQ ORZ LQF
HQYLURQPHQWV ZH YLVLWHG WKH UXUDO ILHOG VLWH UXQ E\ FR
SURMHFWV ZLWK XQLTXH VWXG\ GHVLJQV PHWKRGJRORJLHV IRU HG

-XO\^{WK} WK ± &RPSOHWHG WULS ZLWK UHVHDUFKHUV IURP :LWV
8:& LQ &DSH 7RZQ 'LVFXVVLQRQV ZHUH KHOG RQ WKH VSHFLILFV D
\$GGLWLRQDOO\ , SODQQHG E\ ORQJHU VWD\ LQ &DSH 7RZQ DQG V

-XO\^{WK} WK ± 'XULQJ WKHVH WZR ZHHNV ZH EHJDQ WR GHYHORS
ZRUG EXLOG RII WKH REVHUYDWLRQDO VWXG\ ZLWK WKH DLP RI
LPSURYLQJ FKLOG JURZWK UDWHV

\$XJXVW 6HSWHP EHU ± 9LVLWHG &DSH 7RZQ WR ZRUN ZLWK UHVHD
&R(RQ DSSO\LQJ VWUXFWXUDO HTXDWLRQ PRGHOLQJ WR QDWLRQ
GLDUUKHDO RFFXUUHQFHV DQG V\VWHPLF LQIODPPDWLRQ

6HSWHP EHU ± 5HWXUQHG WR -RKDQQHVEXUJ DQG SDUWLFLSD
PHHWLQJV IRU QH[W VWHSV LQ RXU FROODERUDWLRQV

6HSWHP EHU ± 5HWXUQHG WR WKH 86

, DP YHU\ JUDWHIXO IRU WKH VXSSRUW SURYLGHG E\ 806\$(3 80 8:
RXWSXWV RI WKLV WULS DUH RI KLJK TXDOLW\ DQG ZLOO DOORZ
LV DWWDFKHG WR WKLV UHSRUW DQG WKH PDQXVFULSW ZLOO EH

.LQG UHJDUGV

/HH (9RWK *DHGGHUW 3K ' (, 7
(QYLURQPHQWDO 6\VWHPV (QJLQHUU
0LVVRXUL 8QLYHUVLV\ RI 6FLHQFH DQG 7HFKQRORJ\