New York State Regents Examination in United States History

2014 Technical Report

3UHSDUHG IRU WKH 1HZ <RUN 6WDWH 'HSDUWPHQW

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'DWD 5HFRJQLWLRQ &RUSRUDWLRQ

$SULO

List of Tables

Table 1 Total Examinee Population in Regents Examination in United States History 2

Chapter 1: Introduction

,QWURGXFWLRQ

7KLV WHFKQLFDO UHSRUW SUHVHQWV ([DPLQDWLRQ LQ 8QLWHG 6WDW
1HZ <RUN ZLWK GRFXPHQWDWLRQ RQ WKH SXUSRVH RI WKH 5
HYLGHQFH RI ERWK UHOLDELOLW\ DQG YDOLGLW\ RI WKH H[D
LQIRUPDWLRQ IRU WKH $XJXVW -DQXDU\ DQG -XQH
UHVXOWV IRU WKH -XQH DGPLQLVWUDWLRQ 5HVXOWV IRU WK
$SSHQGLFHV % &RQGXFW DQG 5HVXOWV RI (GXFDWLRQ 'DWD &
[3]7KH REMHFWLYH RI WKH GRFXPHQWDWLRQ LV WR SURYLGH
WKHP DVVHVV WKH QDWXUH DQG TXDOLW\ RI WKH WHVW WKH
WHVW VFRUHV´ $PHULFDQ (GXFDWLRQDO 5HVHDUFK $VVRFLD
$VVRFLDWLRQ >$3$@ 1DWLRQDO &RXQFLO RQ 0HDVXUHPHQ
QRWH WKDW D WHFKQLFDO UHSRUW E\ GHVLJQ GRFXPHQWV
DVSHFWV RI D WHVWLQJ SURJUDP FRQWHQW VWDQGDUGV V
HWF DUH WKRURXJKO\ GRFXPHQWHG DQG UHIHUHQFHG LQ VX

7KH 5HJHQWV ([DPLQDWLRQV LQ 8QLWHG 6WDWHV +LVWRU\ LV JLYHQ WR V
VFKRROV LQ -XQH $XJXVW DQG -DQXDU\ 7KH H[DPLQDWLRQ
&XUULFXOXP ZKLFK LV EDVHG RQ VWDQGDUGV DQG LQ W
6RFLDO 6WXGLHV

3XUSRVHV RI WKH ([DP

7KH 5HJHQWV ([DPLQDWLRQ LQ 8QLWHG 6WDWHV +LVWRU\ PH
6WDWH¶V 1<6 OHDUQLQJ VWDQGDUGV 7KH H[DP LV SUHSDU
<RUN 6WDWH 'HSDUWPHQW RI (GXFDWLRQ VXEMHFW DQG WHV
ZLWK LPSRUWDQW LQIRUPDWLRQ DERXW VWXGHQW OHDUQLQ
VWDQGDUGV 5HVXOWV RI WKLV H[DP PD\ EH XVHG WR LGHQW
WHDFKLQJ DQG OHDUQLQJ 7KH H[DPV DOVR SURYLGH VWXGH
FROOHJH DGPLVVLRQV RIILFHUV ZLWK REMHFWLYH DQG HDVL
XVHG WR LQIRUP HPSLULFDOO\ EDVHG HGXFDWLRQDO DQG YR
SURYLGHG REMHFWLYH EHQFKPDUN WKH 5HJHQWV ([DPLQDW
VDWLVI\LQJ 6WDWH WHVWLQJ UHTXLUHPHQWV IRU VWXGHQW
6WDWHV +LVWRU\ $ SDVVLQJ VFRUH RQ WKH H[DP FRXQWV W
GHVFULEHG LQ WKH 1HZ <RUN 6WDWH GLSORPD UHTXLUHPHQ
KWWS ZZZ S Q\VHG JRY FLDL JUDGXDWLRQ 5HTXLUHPHQWV *UDGXDWH 5HJHQWV
8QLWHG 6WDWHV +LVWRU\ PD\ DOVR EH XVHG WR VDWLVI\ YD
WKH 6WDWH

7DUJHW 3RSXODWLRQ 6WDQGDUG

7KH H[DPLQHH SRSXODWLRQ IRU WKH 5HJHQWV ([DPLQDWLRQ
VWXGHQWV ZKR KDYH FRPSOHWHG D FRXUVH LQ 8QLWHG 6WD

7DEOH SURYLGHV D GHPRJUDSKLF EUHDNGRZQ RI DOO VWX
DQG -XQH 5HJHQWV ([DPLQDWLRQ LQ 8QLWHG 6WDWHV +L

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[1] 5HIHUHQFHV WR QRQVWDQGDUG WHVW SUDFWLFHV SODFHG LQ SDUHQWKHVHV WKURXJKRXW WKH
IRU HDFK VHFWLRQ

WR LQGLFDWH GLVFULPLQDWLRQ 3HDUVRQ 7KH FRUUH
KLJK VFRULQJ VWXGHQWV WHQG WR JHW WKH LWHP ULJKW ZI
EHWZHHQ WKH LWHP VFRUH DQG WKH WRWDO WHVW VFRUH Z
PDJQLWXGH L H DERYH]HUR PHDQLQJ WKH LWHP LV OLNH
SHUIRUPLQJ VWXGHQWV 3RLQW ELVHULDOV DUH FRPSXWHG
LQFRUUHFW RSWLRQV FRPPRQO\ UHIHUUHG WR DV ³GLVWUDF
GLVWUDFWRU DUH DQ LPSRUWDQW SDUW RI WKH DQDO\VLV 7
QHJDWLYH 3RVLWLYH YDOXHV FDQ LQGLFDWH WKDW KLJKHU
RU WKDW WKH LWHP NH\ IRU WKH FRUUHFW DQVZHU VKRXOG

5HIHU WR 7DEOHV DQG IRU SRLQW ELVHULDO YDOXHV RQ
RQO\ 7KH YDOXHV IRU FRUUHFW DQVZHUV DUH RU KLJKH
GLVFULPLQDWLQJ ZHOO EHWZHHQ KLJK

GLVW €`V
E@ €
QHFDQ LQ€UIRU LQ•0ÀZQ0•RU…
RUVp°€0HF FUIRU @€DDO@0p`ÀL ¥kEOHUPL€ O@PK

6RIWZDUH DQG (VWLPDWLRQ $OJRULWKP
,WHP FDOLEUDWLRQ ZDV LPSOHPHQWHG YLD WKH :,167(36

GHWHUPLQH VWXGHQW SHUIRUPDQFH WKLV FDQ EH FDOOHG
ZKHQ UHVSRQVH WR DQ LWHP GRHV QRW GHSHQG RQ WKH
LQGHSHQGHQFH DQG FDQ EH FDOOHG UHVSRQVH GHSHQGHQF
GHSHQGHQFH RQH FDQ VHH WKDW ZKLOH ORFDO LQGHSHQGH
GLIIHUHQW DVVXPSWLRQV DQG WKHUHIRUH UHTXLUH GLIIHUH

5HVLGXDO LWHP FRUUHODWLRQV SURYLGHG LQ :,167(36 IRU
GHSHQGHQFH 5HPRYLQJ WKH LQDWLRQ LQ 8QLWHG 6WDWHV +LVW
DUH FRPSXWHG DV IROORZV)LUVW H[SHFWHG LWHP SHUIRU
XVLQJ DQG LWHP SDUDPHWHU HVWLPDWHV 1H[W GHYLDWLRQ
DQG REVHUYHG SHUIRUPDQFH LV GHWHUPLQHG IRU HDFK LWH
EHWZHHQ WKH UHVSHFWLYH GHYLDWLRQV LV FRPSXWHG

7KUHH W\SHV RI UHVLGXDO FRUUHODWLRQV DUH DYDLODEOH
QRWHG WKDW WKH UDZ VFRUH UHVLGXDO4 FRUUHODWLRQ
VWDWLVWLF XVHG WR DVVHVV ORFDO4LQGHSHQGHQFH DW
í Ní ZKHQ QR ORFDO GHSHQGHQFH H[LVWV 7KXV
YDOXHV VKRXOG EH DSSUR[LPDWHO\ í IRU WKH LWHPV RQ
LQGLFDWH D GHJUHH RI ORFDO GHSHQGHQFH WKDW SUREEC
7KLVVHQ

6LQFH WKH WKUHH UHVLGXDO FRUUHODWLRQV DUH YHU\ VLP
:,167(36 ZDV XVHG IRU WKHVH DQDO\VHV 7DEOH VKRZV WKH
GHYLDWLRQ PLQLPXP PD[LPXP 3QG 3H3UIRU SHUFHQWLOHV
FRUUHODWLRQV IRU HDFK WHVW 7KH WRWDO QXPEHU RI LWH
FRUUHODWLRQV JUHDWHU WKDQ DUH DOVR UHSRUWHG LQ
FRUUHODWLRQV JUHDWHU WKDQ 7KH PHDQ UHVLGXDO FR
$OO UHVLGXDO FRUUHODWLRQV ZHUH YHU\ VPDOO ZLWK D PD
LQGHSHQGHQFH JHQHUDOO\ KROGV IRU WKH 5HJHQWV ([DPLQ

7DEOH 6XPPDU\ RI ,WHP 5HVLGXDO &RUUHODWLRQV 5HJHQ

Chapter 4: Reliability (Standard 2)

7HVW UHOLDELOLW\ LV D PHDVXUH RI WKH LQWHUQDO FRQVL
WKH H[WHQW WR ZKLFK WKH LWHPV RQ D WHVW SURYLGH FR
GRPDLQ 5HOLDELOLW\ VKRXOG XOWLPDWHO\ GHPRQVWUDWH

IDFWRU RI WKH 6(0 $V DQ H[DPSOH VWXGHQWV ZLWK D JLYH
EHWZHHQ í 6(0 DERXW WZR WLPHV ODUJHU WKDQ WKRVH ZLWK
DERXW SHUFHQW

7KH FRHIILFLHQWV DVVRFLDWHG 6(0 IRU WKH 5HJHQWV ([DPLQ
SURYLGHG LQ 7DEOH

7DEOH 5HOLDELOLWLHV DQG 6WDQGDUG (UURUV RI 0HDVXU
6WDWHV +LVWRU\

6XEMHF	&RHIILF $OSK	*SEM*
8QLWHG 6' +LVWRU\		

$VVXPLQJ QRUPDOO\ GLVWULEXWHG VFRUHV RQH ZRXOG H[S
ZLWKLQ RQH VWDQGDUG GHYLDWLRQ RI WKH PHDQ $Q HVWL
EH FRPSXWHG DV

$$SE_{meas} = SD_X\sqrt{1-\rho_{XX'}}$$

Conditional Standard Error of Measurement

(YHU\ WLPH DQ DVVHVVPHQW LV DGPLQLVWHUHG WKH VFRUH
VDPH H[DP ZHUH DGPLQLVWHUHG DQ LQILQLWH QXPEHU RI WLPHV WR WKH VDP
GLVWULEXWLRQ RI WKH VWXGHQW¶V UDZ VFRUHV ZRXOG EH FDOOHG
QR HUURU DQG WKH VWDQGDUG GHYLDWLRQ RI WKH GLVWU
VWDQGDUG HUURU RI PHDVXUHPHQW IRU WKDW VWXGHQW EHFDXVH
PRGHO ZH FDQ DSSO\ WKLV FRQFHSW PRUH JHQHUDOO\ WR D
DQG FDOFXODWH WKH SUREDELOLW\ RI REWDLQLQJ D FKDQ
VWDQGDUG GHYLDWLRQ RI WKLV FRQGLWLRQDO GLVWULEXWL

Results and Observations

7KH UHODWLRQVKLS EHWZHHQ UDZ DQG VFDOH VFRUHV IRU W
VFDOH VFRUHV RI WR DQG WKHQ FRQFDYH GRZQ IURP DE
WUDFN OLQHDUO\ ZLWK WKH UDZ VFRUHV IRU WKH TXDUWHU
UHODWLYH WR WKH UDZ VFRUHV IRU WKH UHPDLQLQJ WKUHH
YDULDWLRQV 7KH &6(0V IRU WKH 5HJHQWV ([DPV FDQ EH H[S
ZLWK VRPH YDULDWLRQV

)LJXUH KRZV WKLV W\SH RI &6(0 YDULDWLRQ IRU WKH 5HJH
ZKLFK WKH FRPSUHVVLRQ RI UDZ VFRUH WR VFDOH VFRUHV D
FXUYH VOLJKWO\ 7KLV W\SH RI H[SDQVLRQ DQG FRPSUHVVLR
FKDQJLQJ GHQVLW\ RI UDZ VFRUH SRLQWV DORQJ WKH VFDOH
WKH ORZHU HQG RI WKH VFDOH XS WR D VFDOH VFRUH RI DE
OHVV GHQVH WKDQ PLGGOH UDQJH RI WKH VFDOH 7KH LQFUH
WKH ILUVW DQG VHFRQG FXW VFRUHV RI DQG

)LJXUH &RQGLWLRQDO 6WDQGDUG (UURU 3ORWV 5HJHQW

'HFLVLRQ &RQVLVWHQF\ DQG $FFXUDF\ 6WDQGDUG
,Q D VWDQGDUGV EDVHG WHVWLQJ SURJUDP WKHUH LV LQWH
LQWR SHUIRUPDQFH FDWHJRULHV ,Q FRQWUDVW WR WKH &R
UDQN RUGHULQJ RI VWXGHQWV LW LV WKH DEVROXWH YDOXH
FRQVLVWHQF\ DQG DFFXUDF\

&ODVVLILFDWLRQ FRQVLVWHQF\ UHIHUV WR WKH GHJUHH WR
UHSOLFDWHG XSRQ UHWHVWLQJ XVLQJ DQ HTXLYDOHQW IRUP
IROORZLQJ TXHVWLRQ L: KRZ FRQVLVWHQW DUH VWXGHQW WZ

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$ F F X U l

(DFK VHFWLRQ RI WKH FULWHULD LQFOXGHV SHUWLQHQW TXI
DQ LWHP LV RI VXIILFLHQW TXDOLW\ :LWKLQ WKH ILUVW WZR
XVHG WR KHOS HQVXUH WKDW VWXGHQWV XQGHUVWDQG ZKDW
TXHVWLRQ GRHV QRW DGYHUVHO\ DIIHFW D VWXGHQW¶V DELO
VHQVLWLYLW\ ELDV FULWHULD DUH XVHG WR HYDOXDWH ZKH
GLVDGYDQWDJHRXV WR DQ\ JLYHQ VXEJURXS V

7KH WKLUG FDWHJRU\ RI LWHP UHYLHZ DOLJQPHQW DGGUHV
7KLV FDWHJRU\ DVNV WKH UHYLHZHU WR FRPPHQW RQ NH\ DV
VNLOOV GHPDQGHG E\ WKH VWDQGDUGV

7KH IRXUWK FDWHJRU\ DGGUHVVHV WKH VSHFLILF GHPDQGV
HYDOXDWH HDFK LWHP WR HQVXUH WKDW LW FRQIRUPV WR W
LWHPV PXVW KDYH DPRQJ RWKHU FKDUDFWHULVWLFV
EXW LQFRUUHFW DQVZHU FKRLFHV)OOORZLQJ WKHVH UHYLH
HGXFDWRU SDQHO PRYH IRUZDUG IRU ILHOG WHVWLQJ

2QJRLQJ DWWHQWLRQ LV DOVR JLYHQ WR WKH UHOHYDQFH R
DVVHVVPHQW &RQVLVWHQW ZLWK D GHVLUH WR DVVHVV WKL

FRQWURO DQG PHDVXUH 5DWHU ELDVHV FDQ DSSHDU DV VHY
%LDV DOVR LQFOXGHV SKHQRPHQD WKDW DFFXUDWHO\ UHIOHF
RQH HOHPHQW RI WKH UXEULF HQFRXUDJHV LQDFFXUDWH VFL

PHDQ FRPSDULVRQ RI WKH RUGHUHG UHVSRQVH FDWHJRULHV
YDOXHV RI WKH PDWFKLQJ YDULDEOH VFRUH ³2UGHUHG´ PHD
LWHP LV EHWWHU WKDQ D UHVSRQVH HDUQLQJ D VFRUH RI ³
³&RQGLWLRQDO´ RQ WKH RWKHU KDQG UHIHUV WR WKH FRP
UHFHLYHG WKH VDPH VFRUH RQ WKH PDWFKLQJ YDULDEOH²W

)RXUWHHQ RSHUDWLRQDO LWHP VKRZHG D PRGHUDWH OHYHO
RI WKH LWHPV WHQGHG WR IDYRU IHPDOH VWXGHQWV 0& LW
DQG WKH WKHRUHWLFDO LWHP W\SH HQFRXUDJHG WR IDYRU PDOHV 0& L
LWHPV VKRZHG KLJK ',) IDYRU IHPDOHV 0& LWHPV DQ
DQG RQH LWHP 0& LWHP VWXGHQW RQO\ IDYRXUHG PDOH VWXGHQWV
VSHFLDOLVWV ZKR ZHUH XQDEOH WR LGHQWLI\ FRQWHQW ED
GLIIHUHQWO\ EHWZHHQ PDOH VWXGHQWV DQG IHPDOH VWXGH
RSHUDWLRQDO WHVW 1RWH WKDW RQH RSHUDWLRQDO LWHP
WHFKQLFDO UHSRUW ZDV QRW DYDLODEOH DW WKH WLPH RI
LQFOXGH UHIHUHQFH WR WKLV LWHP

'LIIHUHQWLDO LWHP IXQFWLRQLQJ UHVXOWV DUH UHSRUWHG
DQG KRWHOLQJ ZRUN DQG Q\VHG JRY7KH UHVSRQVH
ZDV QRW DYDLODEOH DW WKH WLPH RI WKLV UHSRUW GHYHO

0RGHO ILW IRU WKH 5DVFK PHWKRG XVHG WR HVWLPDWH ORF
5HJHQWV ([DPLQDWLRQ LQ 8QLWHG 6WDWHV +LVWRU\ SURYLG
WKH WHVW LV RI KLJK WHFKQLFDO TXDOLW\ 7KH QXPEHU RI

FODVVLILFDWLRQ GLIIHUHQW WKDQ H[SHFWHG IURP WKH WUX
SURYLGHV VWURQJ HYLGHQFH WKDW WKH LQWHUQDO VWUXFV

)RU WKH 5HJHQWV ([DPLQDWLRQ LQ 8QLWHG 6WDWHV +LVWRU
DUH KLJK LQGLFDWLQJ YHU\ JRRG FRQVLVWHQF\ DQG DFFXU
FRQVLVWHQF\ UDQJHG IURP WR DQG WKH GHFLVLRQ
GHFLVLRQ FRQVLVWHQF\ DQG DFFXUDF\ YDOXHV EDVHG RQ L
FRQVLVWHQF\ DQG DFFXUDF\ RI H[DPLQHH FODVVLILFDWLRQV

,Q DGGLWLRQ WR PRGHO ILW D VWURQJ DVVXPSWLRQ RI WKH
WHVW LV XQLGLPHQVLRQDO 9LRODWLRQ RI WKLV DVVXPSWLL
RWKHU WKDQ WKH LQWHQGHG FRQWHQW DQG LQGLFDWH WKD
SULQFLSDO FRPSRQHQWV DQDO\VLV RQ XQLGLPHQVLRQDO
UHVXOWV SURYLGH VWURQJ HYLGHQFH WKDW D VLQJOH GLPH
+LVWRU\ LV H[SODLQLQJ D ODUJH SRUWLRQ RI WKH YDULDQF
FKDUDFWHUL]H RU H[SODLQ WKH GLPHQVLRQ EXW D UHDVRQ
XQLGLPHQVLRQDO DQG WKDW WKH GLPHQVLRQ PRVW SUHVHQ
GHWDLOV RI WKLV DQDO\VLV

&RQVLGHULQJ WKLV FROOHFWLRQ RI GHWDLOHG DQDO\VHV R
8QLWHG 6WDWHV +LVWRU\ VWURQJ HYLGHQFH H[LVWV WKDW
YDOLG DQG UHOLDEOH LQIRUPDWLRQ DERXW H[DPLQHH SHUI

5.4 Evidence Based on Relations to Other Variables

$QRWKHU VRXUFH RI YDOLGLW\ HYLGHQFH LV EDVHG RQ WKH
FRPPRQO\ HQFRPSDVVHV WZR YDOLGLW\ FDWHJRULHV SUHYD
DQG SUHGLFWLYH YDOLGLW\ 7R PDNH FODLPV DERXW WKH Y
SXUSRVHV VXFK DV WKH 5HJHQWV ([DPLQDWLRQ LQ 8QLWHG
E\ SURYLGLQJ HYLGHQFH WKDW SHUIRUPDQFH RQ WKLV WHVW
VDPH RU VLPLODU FRQVWUXFWV $OWKRXJK QRW DEVROXWH
VFRUH YDOLGLW\ H[LVWV VXFK FRUUHODWLRQV FDQ EH KHO
WKH FRUUHODWLRQ LV KLJK 7R FRQGXFW VXFK VWXGLHV PD
WKH VDPH FRQWHQW DV WKH 5HJHQWV ([DPLQDW—PÀ 0ÀQ 8Q
DFTXLVLWLRQ RI VXFK GDWD LV FRPSOH[DQG FRVWO\

,PSRUWDQWO\ D VWURQJ FRQQHFWLRQ EHWZHHQ FODVVURRI
WKH IDFW WKDW 1HZ <RUN 6WDWH HGXFDWRUV GHHSO\ IDPL
HQDFWPHQW LQ WKH FODVVURRP GHYHORS DOO FRQWHQW I

,Q W@—UPV RI SUHGLFWLYH YDOLGLW\ WLPH LV D IXQGDPHQ
VWDQGDUG IRU VXSSRUWLQJ WKH YDOLGLW\ RI SUHGLFWLYH
HYLGHQFH RI WKH UHODWLRQVKLS EHWZHHQ W@VW VFRUHV
WKH H[WHQW WKDW WKH REMHFWLYH RI WKH VWDQGDUGV LV
UHTXLUHPHQWV LW ZLOO EH LPSRUWDQW WR JDWKH—U HYLG

References

$PHULFDQ (GXFDWLRQDO 5HVHDUFK $VVRFLDWLRQ $PHULFDQ &RXQFLO RQ 0HDVXUHPHQW LQ (GXFDWLRQ DQG :DVKLQJWRQ '& $PHULFDQ (GXFDWLRQDO 5HVHDUFK

%DUNDRXL .KDOHG (IIHFWV RI PDUNLQJ PHWKRG DQG UDWHU SHUVRQDOLW\ RQ (GXFDWLRQ 3ULQFLSOHV 3RO

&RQJGRQ 3 - 0F4XHHQ - 7KH VWDELOLW\ RI UDWH SURJUHVVLRQ RI (GXFDWLRQDO 0HDVXUHPHQW

&RRN ' $ %HFNPDQ 7 - 'RHV VFDOH OHQJWK PDWV SRLQW UDWLQJ VFDOHV UHOLDELOLW\ &OLQLFDO 6FLHQFHV (GXFDW

&URQEDFK / - /LQ 5 / %UHQQDQ 5 7 +DHUWHO (IRU HGXFDWLRQDO DVVHVVPHQWV /RV $QJHOHV &$ 8QLY (YDOXDWLRQ 1DWLRQDO &HQWHU IRU 5HVHDUFK RQ (YDOXDWLRQ 6WDQGDUGV DQG 6WXGHQW 7HVWLQJ)HEUXDU\ ZZZ FUVWHVW XFOD HGX SURGXFWV HYDOXDWLRQ F

&URQEDFK / - &RHIILFLHQW DOSKD DQG WKH LQWHUQDO VWUXFWXUH

&URQEDFK / -)LYH 3HUVSHFWLYHV RQ YDOLGLW\ DUJ 9DOLGLW\ ± +LOOVGDOH 1- /DZUHQFH (UOEDXP

1DWLRQDO *RYHUQRUV $VVRFLDWLRQ &HQWHU IRU %HVW 3UD &RPPRQ &RUH 6WDWH 6WDQGDUGV $XWKRUV

*RUPDQ & $ 5HQWVFK - 5 RIUHIHUHQFH DWWULEXWHV LQ UDWHU WUDLQLQ XVLQJ SHUIRUPDQFH DVVHVVPHQW PHWKRGV 3V\FKRORJ\

*XOLNp€J À DH

0F4XHHQ - &RQJGRQ 3 - 0DUFK 5DWHU VHYHULW\
LQYDU3LDDSQHWU" SUHVHQWHG DW WKH $QQXDO 0HHWLQJ RI WKH
$VVRFLDWLRQ &KLFDJR ,/

0HUR 1 3 0RWRZLGOR 6 - (IIHFWV RI UDWHU DFFR
IDYRUDELOLW\ RI SHRUHUQDDQFH$SSOLHG3V\FKRORJ\

0\IRUG & 0 :ROIH (: 0RQLWRULQJ UDWHU SHUIRU
GHWHFWLQJ GLIIHUHQWLDO DF-RXUDF\ DQG(GXFDWLRQDO0
±

3DW] 5 - -XQNHU % : -RKQVRQ 0 6 DQG 0DULDQR / 7
IRU 5DWHG 7HVW ,WHPV DQG LWV $SSOLFDWLRQ3HU
(GXFDWLRQDO DQG %HKDYLRUDO 6WDWLVWLFV

3HDUVRQ . 0DWKHPDWLFDO &RQWULEXWLRQV WR WKH
DQG 3DQ3HDUVRQ 3KLORVRSKLFDO 7UDQVDFWLRQV RI WK5R\DO 6RF

3HFKHRQH 5 / &KXQJ :HL 5 5 3HUIRUPDQFH DVVH
6XPPDU\ RI YDOLGLW\ DQG UHOLDELOLW\ VWXGLHV IRU WKH
8QLYHUVLW\ 3$&7 &RQVRUWLXP

3HQQ\ - -RKQVRQ 5 / *RUGRQ % 8VLQJ UDWLQJ
DQDO\WLFH-RXUQDO7RI ([SHULPHQWDO(GXFDWLRQ

6FKOHLFKHU ' - 'D\ ' 9 %URQVWRQ 7 0D\HV % 7 5
IUDPHZRUN WUDLQLQJ (QKDQFLQJ WKH-RXUQDO$XWR
$SSOLHG 3V\FKRORJ\

7KLVVHQ ' 3RPPHULFK 0 %LOOHDXG . :LOOLDPV 9 6 /
WHVWV LQFOXGLQJ SRO\WRPRXV3V\FKRORJLFDO0HDV

YDQ GHU /LQGHQ : - +DPEOHWRQ5RN RI(PSRGHUQ LWHP U
1HZ <RUN 1< 6SULQJHU

:DQJ 7 .ROHQ 0 - +DUULV ' - 3V\FKRPHWULF SU
SHUIRUPDQFH OHYHOV IRU SHUIRUPDQFRXDQVDVVHVV(QXPDX
0HDVXUHPHQW ±

:DQJ ; 0 :RQJ H

Appendix A Item Writing Guidelines

General Rules for Writing Multiple-Choice Items

1. Use either a direct question or an incomplete statement as the item stem, whichever seems more appropriate to effective presentation of the item.

   Some item ideas can be expressed more simply and clearly in the incomplete statement style of question. On the other hand, some items seem to require direct question stems for the most effective expression. Teachers should use the item style that seems most appropriate.

2. Items should be written in clear and simple language, with vocabulary kept as simple as possible.

   Like any other item, the multiple-choice item should be perfectly clear. Difficult and technical vocabulary should be avoided unless essential for the purpose of the question. The important elements should generally appear early in the statement of the item, with qualifications and explanations following.

3. Each item should have one and only one correct answer.

   While this requirement is obvious, it is not always fulfilled. Sometimes writers produce items involving issues so controversial and debatable that even experts are unable to agree on one correct answer. More often the trouble is failure to consider the full implications of each

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The item should contain only material relevant to its solution, unless selection of what is relevant is part of the problem.

9. Make the responses grammatically consistent with the stem and parallel with one another in form.

10. Make all responses plausible and attractive to students who lack the information or ability tested by the item.
The incorrect responses should be plausible answers. So far as possible, each response

		YES	NO
1.	Is the item significant?		
2.	Does the item have curricular validity?		
3.	Is the item presented in clear and simple language, with vocabulary kept as simple as possible?		
4.	Does the item have one and only one correct answer?		
5.	Does the item state one single central problem completely in the ste (See Helpful Hint below.)		
6.	} • šZš]v o µ v ÇÆšŒ vu}šu•Œ¬]^oÁ]v }ŒÆ ••]v P		
7.	Are all responses grammatically consistent with the stem and paralle with one another in form?		
8.	Are all responses plausible (attractive to students who lack the information tested by the item)?		
9.	Are all responses independent amutually exclusive?		
10.	Are there any extraneous clues due to grammatical inconsistencies, verbal associations, length of response, etc.?		
11.	Were the principles of Universal Design used in constructing the item		

)LJXUH % 6FDWWHUSORW 5HJHQWV ([DPLQDWLRQ L

)LJXUH % 6WXGHQW 3HUIRUPDQFH 0DS 5HJHQWV ([DPLQ

)LJXUH % 6FUHH 3ORWV 5HJHQWV ([DPLQDWLRQ LQ

7DEOH % 6XPPDU\ RI ,WHP 5HVLGXDO &RUUHODWLRQV 5HJH
+LVWRU\

6WDWLV\ 9DOXH
1
0HDQ
6'
0LQLPXP
3
3
3
3
3
0D[LPXP
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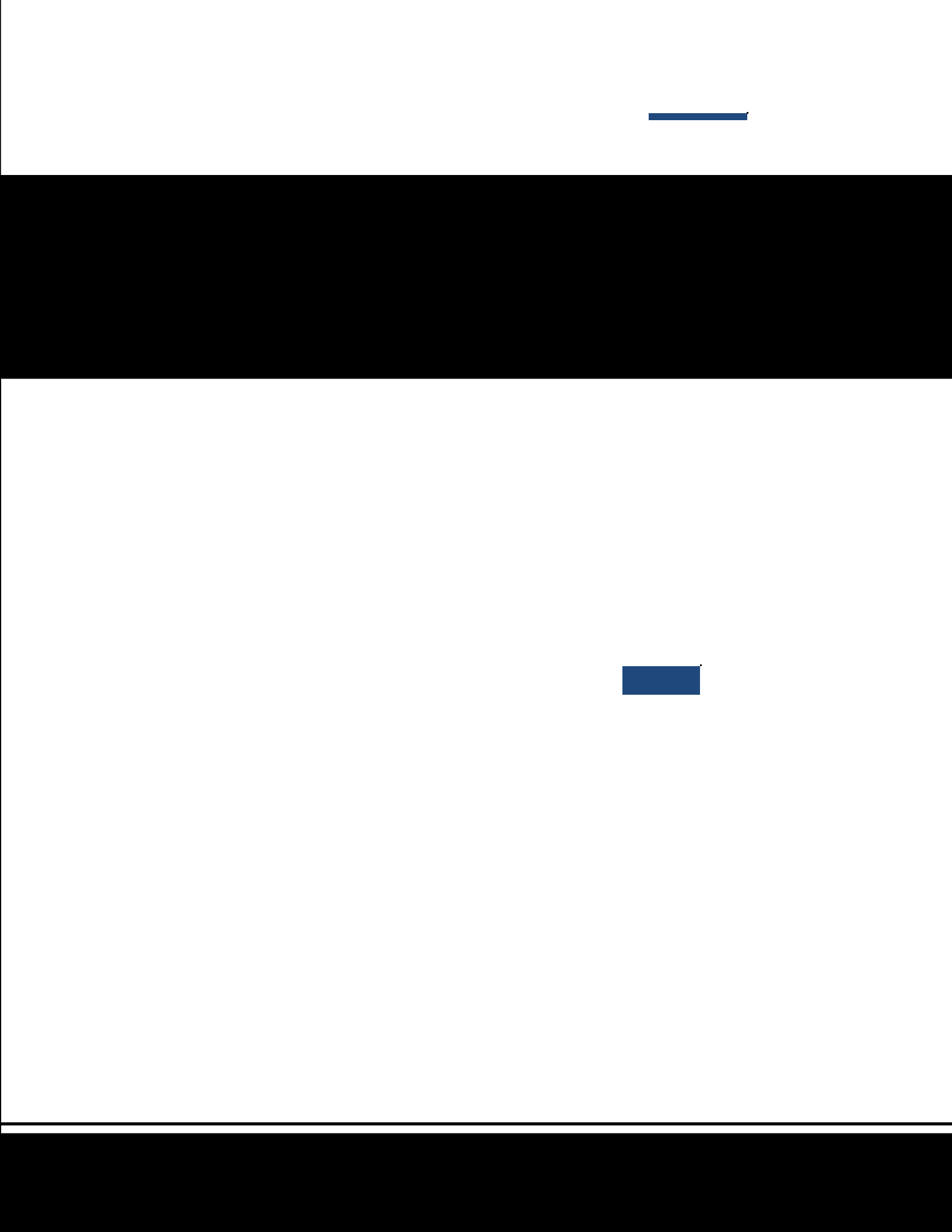
Demographics	Number	Mean Scale score	Standard error of group
All Students*	17014	57.87	16.61
Ethnicity			
American Indian/Alaska Native	101	58.00	16.61
Asian/Native Hawaiian/Other Pacific Islande	995	57.90	17.59
Black/African American	6339	56.23	16.12
Hispanic/Latino	5759	55.99	16.46
Multiracial	78	61.95	13.41
White	3732	63.47	16.23
English Language Learner			
No	14670	58.83	16.43
Yes	2344	51.88	16.47
Economically Disadvantaged			
No	6512	60.98	16.61
Yes	10502	55.94	16.32
Gender			
Female	9203	58.81	15.61
Male	7801	56.76	17.66
Student with Disabilities			
No	13797	59.48	



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