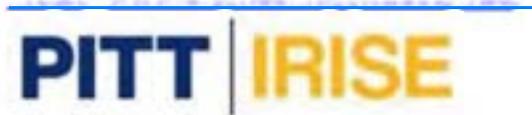


KTUG

Vj g'K r ce v h w i T g u k l e p v k p h t c u t w e w t g " U e k p e g " (" G p i k p g g t k p i " e q p u q t v k w o " y c u " g u c d r i k u j g f " k p " v j g " F g r c t w o g p v " q h " E k x k i " c p f " G p x k t q p o g p v e n " G p i k p g g t k p i " k p " v j g " U y c p u q p " U e j q q n " q h " G p i k p g g t k p i " c v " v j g " W p k x g t u k v { " q h " R k w u d w t i j " v q " c f f t g u u " v j g " e j c m g p i g u " c u u q e k v g f " y k j " c i k p i " v t c p u r q t v e k q p " k p h t c u t w e w t g O ' K T U G " k u " c f f t g u k p i " v j g u g " e j c m g p i g u " y k j " c " e q o r t g j g p u k x g " c r r t q c e j " v j c v " k p e n f g u " n p q y n g f i g i g ' i c v j g t k p i . " f g e k u k q p " o c n k p i . " f g u k i p " q h " o c v g t k e n i " c p f " c u u g u " c p f " k p v g t x g p v k p u O ' K ' h g e w t g u " c " e q m e d q t e v k x g " g h h q t v " c o q p i " v j g " r w d i k e " c i g p e k g u " v j c v " q y p " c p f " q r g t e v g " v j g " k p h t c u t w e w t g . " v j g " r t k x c v g " e q o r c p k g u " v j c v " f g u k i p " c p f " d w k f " k ' c p f " v j g " c e c f g o k e " e q o o v p k v { " v q " f g x g n r " e t g e v k x g " u q n w k q p u " v j c v " e c p " d g " k o r n g o g p v g f " v q " o g g v " v j g " p g g f u " q h " k u " o g o d g t u O ' V q " n g c t p " o q t g . " x k u k v <



Cempqyngfigogpvu

Vj g' c w j q t u " i t c v g h w i { " c e m p q y n g f i g " v j g " h k p e k e n i u w r r q t v " q h " c m i e q p v t k d w k p i " o g o d g t u " q h " K T U G O

Vj g' c w j q t u " y q w f " c n u q " r k n g " v q " c e m p q y n g f i g " G f y c t f " U n q t r k p u n k " * R V E + " I c o g u " [q w p i " * I w k u g m + " c p f " D t c p f q p " H e t t g m " * I w k u g m + " h q t " e q q t f k p e v k p i " u k g " x k u k u " c p f " c u u k u k p i " y k j " u g c r k p i " v j g " c u r j c m " u r g e k o g p u " k p " v j g " h k g f = N { f k c " R g f f k e q t f " * R g p p F Q V + h q t " r t q x k f k p i " h k g f " r g t h q t o c p e g " c p f " l q k p v " u g c r c p v " u w t x g { " f c v c = " c p f " V q o " D { t c p " * D t { c p " E q p e t g v g + " c p f " L w u k p " D { t c p " * P g x k n g " C i i t g i c v g u + " h q t " r t q x k f k p i " v j g " e j g o k e c n " c f o k z w t g u " c p f " c i i t g i c v g u . " t g u r g e v k x g n { . " w u g f " h q t " e c u k p i " v j g " e q p e t g v g " u r g e k o g p u O ' Y g " y q w f " c n u q " r k n g " v q " c e m p q y n g f i g " v j g " g h h q t w i " q h " v j g " w p f g t i t c f w e v g " t g u g t e j g t " I c e m ' R e t n j w t u v " y j q " c u u k u v g f " g z v g p u k x g n { " q p " v j k u " t g u g t e j " g h h q t v O

k p " c f f k k q p . " y g " c t g " k p f g d v g f " v q " v j g " c f x l e g " c p f " c u u k u c p e g " r t q x k f g f " d { " v j g " v e j p l e c n " c f x k u q t { " e q o o k v g g <

O c w j g y " D n q w i j " c p f " E j c t r g u " D w e j c p c p " * R V E + " I c u q p " O q n k p g t q " * C m g i j g p { " E q w p v { + " E j w e n i P k f g t t k g t " c p f " F c x k f " U e w n k q " * I q n f g p " V t k e p i n g " E q p u t w e v k p + " N { f k c " R g f f k e q t f " * R g p p F Q V + " c p f " [c v j k [c v j k r q q t " * H J Y C - O

Fhænclo gt

Vj g' x k g y u " c p f " e q p e n w u k q p u " e q p v c k p g f " k p " v j k u " f q e w o g p v " c t g " v j q u g " q h " v j g " c w j q t u " c p f " u j q w f " p q v " d g " k p v g t r t g v g f " c u " t g r t g u g p v k p i " q h h e k e n i " r q n e k g u . " g k j g t " g z r t g u u g f " q t " k o r r k g f . " q h " v j g " R g p p u { i x c p k c " F g r c t w o g p v " q h " V t c p u r q t v e k q p . " v j g " R g p p u { i x c p k c " V w t p r k n g " E q o o k u k q p . " C m g i j g p { " E q w p v { . " I q n f g p " V t k e p i n g " E q p u t w e v k p . " O k e j c g n i D c m g t " k p v g t p c v k a p c n " v j g " E q p u t w e v q t u " C u u q e k v k q p " q h " Y g u g t p " R g p p u { i x c p k c " q t " E F T " O c i w k t g O

Gzgewkxg'Uwo o ct{

Vj g'f gxgnr o gpv'qh'vcpuxgtug'hcvi wg'etcemi'ku'pqv'c'r gthqto cpeg'kuwg."ukpeg"cf qr vki "c"37/h' vcpuxgtug'lqpv' ur cekpi "hqt" lqpv'gf "r rkp" eqpetgv" r cxgo gpw' *LRE-Ru" kp" Rgppu{ncpk0' Cu' r gthqto cpeg'gxr gev'kpu'cpf "vj g'f guki p'rhg"eqpv'kwg"vq'dg'kpetgcugf "hqt" LRE Ru."k'ku'ko r qt vpv' vj cv'vj g'lqkv'qh'vj g'LRE-R"o ggv'vj gug'f go cpf u0C"j qrkvke"cr r tqcej "o wuv'dg"cnrgp"hqt"vj ku"vq'dg" cej kxgf 0

Vj g'vj kempuu'cpf "vj g'rgpi vj "qh'urcd'hqt" c"LRE-R"ku'guvdrkuj gf "kp"vj g'f guki p'r tqegu0'Vj g' urcd'uj qwf "dg'uw'hekpvw' "vj kenuq"vj cv'vj g'pwo dgt'qh'vcpuxgtug'hcvi wg'etcemi'vj cv'f gxgnr "f qgu' pqv'gzeggf "vj g'f guki p'vj tguj qrf "r tkqt"vq"vj g'gpf "qh'ku'f guki p'rhg0'Vj g'urcd'rgpi vj "lqkv'ur cekpi +" qh'c'LRE-R"ku'ugrgev'f "uwej "vj cv'vj g'urcd'ku'cu'rgpi "cu'r quukdr"vq" f getgcug'vj g'equu'cuuqekv'f "y kj " vj g'eqpustw'kpv'cpf "o ckv'gpcpeg"qh'vj g'lqkv'u'y kj qwf' gxgnr kpi "o kf /urcd'etcenkpi "qt"j kpf g'kpi " vj g'r gthqto cpeg'qh'vj g'lqkv'0

Vy q'eqo r qpgpv'o wuv'dg'cf f tguugf "vq"cej kxg'vj g'f guktgf "r gthqto cpeg'rhg"cv'vj g'lqkv'u0' Hkuv."vj g'r cxgo gpv'o wuv'dg'eqpustw'v'f "y kj "c" f wcdrg"eqpetgv"o kzwg0'lqkv'ecp"ugt'xg'cu" c" r qkv'qh'gpvcpeg'hqt"o qluwg'cpf "f g'ekpi "ucnu"vj gtd{ "gxr qulpi "vj g'eqpetgv'hcgu0'Kj"vj g'eqpetgv" o kzwg'ku'pqv'uw'hekpvw' "f wcdrg."f wcdrgk'v' "tgrv'f "f kvt guu'ecp" f gxgnr 0'Vj ku'ecp'dg'cxqkf gf "d{" wulpi "Rgthqto cpeg'Gpi kpggtgf "O kzwg'u"RGO -u'dw'k'ku'cnuq'etk'ecn'vq"gpw'g'vj g'eqpetgv'ku'hgr v' rguu'vj cp": 7"r gtegpv'ucw'cv'f."cu"ku" f guetkdgf "d{" "Vc{mqt"gv'cr0'kp"4234"}3_0'J ki j "f gi tgg'u"qh' ucw'cv'kpv'y kmi'qee'w'y j gp'y cvgt'ku'r qpf kpi "kp"vj g'lqkv'0'Rqpf kpi "kp"vj g'lqkv'ecp'dg'r t'gxgpv'f "d{" o ckv'ckpki "c"y gm'ugcrgf "lqkv"vq"nggr "y cvgt"htqo "gpv'gtkpi 0'Vj g'r j qv"kp" Hki wtg"3"uj qy u" c" r cxgo gpv'ugev'kpv'y kj "ugcrgf"cpf "wpugcrgf "lqkv'u0'Vj g'wpugcrgf "lqkv'u"j cxg'y cvgt'hqy kpi "kv'vq"vj g' lqkv'cpf "f tckpki "cetquu"vj g'uw'hc'eg."y j krg'hqt"vj g'y gm'ugcrgf "lqkv'u"vj g'y cvgt'ecp'dg'uggp'hqy kpi " qxgt"vj g'lqkv'cpf "cetquu"vj g'r cxgo gpv'uw'hc'eg0'Kj"vj g'lqkv'v'j cu'cev'kcv'f."vj g'qr gp'i tcf gf "dcug'wugf " kp"Rgppu{ncpk"cmqy u'y cvgt"gpv'gtkpi "vj g'lqkv'vq"htgg'n" f tckp"vj tqwi j "vj g'uw'uw'hc'eg"y kj qw' r qpf kpi 0'Gpuw'kpi "htgg" f tckpci g'vj qwi j "vj g'uw'uw'hc'eg"r t'gxgpv'u'y cvgt"vj cv'o cngr'k'r cu'v'vj g'ugcrgp'v' htqo "r qpf kpi "kp"vj g'lqkv'qt'ucw'cv'kpi "vj g'wpf gtn'kpi "rc{gt0'Uc'w'cv'kpi "vj g'wpf gtn'kpi "rc{gtu'uj qwf " dg'cxqkf gf "cu'k'ecw'gu'uq'h'g'kpi "qh'vj g'rc{gt"o cnkpi "k'uw'egr v'drg"vq"gt'q'kpv'cpf "r wo r kpi 0



Hki wtg'30Rj qv'q'h'ugcrgf "cpf "wpugcrgf "lqkv'u

Vj g'ugeqpf "eqo r qpgpv'tgs wktgf "vq"cej kxg'vj g'f guktgf "r gthqto cpeg'rhg"cv'vj g'lqkv'u'ku"vq"

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F wtdcrg"eqpetvg."ghge'v'xg"mcf "vcpuhgt"cpf "c" f tclpcdrg"dcug"cm'eqvtdkdwg"vq"i qqf " r gthqto kpi "vcpuxgtug"lqkv'0Vj g'rcu'ng{ "h'ev'qt"ku'gpwtkpi "vj g'lqkv'ctg"r tqr gtn{ "ugcrgf 0Lqkv' ugcrgp'w'j gr "r tngxgpv'vj g'gpv'cpeg"qh'y cvgt"cpf "f g'ekpi "ucnu"vj cv'ecp'ngcf "vq"ceegr'gtcv'gf "eqttqukq" qh'vj g'f qy gn'dctu'cpf "f wtdc'kx{ "t'g'v'gf "f kwtguu'kp"vj g'eqpetvg0Vj ku'f co ci g'ecp"dg'ceegr'gtcv'gf "kh' vj g'y cvgt"gpv'gtkpi "ku"j gr "y kj kp"vj g'lqkv'cpf "ecppqv'f tclp"ht ggn{ "qww"vj g"dqwo "kh'vj g'lqkv'vj cu' pqv'cev'x'cv'gf . "qt" c" f tclpcdrg"dcug"ku'p'qv'r t'gugp'0

Ugcrgp'v'cmq"r tngxgpv'kpego r tguakdrgu."uwej "cu'uo cm'r gddrgu"cpf "ucpf . "htqo "gpv'gtkpi "vj g' lqkv'kp"vj g'y kpv'gt"y j gp'vj g'vgo r gtcwtgu'f tqr "cpf "vj g'lqkv'y kf gp0Vj ku'ecp'tguw'kp"ur cmkpi "qh' vj g'lqkv'cu"vj g'urcd"gzr cpf u'cpf "vj g'lqkv'i gv'pcttqy gt"kp"vj g'uwo o gt"y j gp'vj g'vgo r gtcwtgu'tkug0 Hki wtg"4"uj qy u'c'r j qv'v'cngp"kp"4244"qh'c"lqkv'htqo "UT/88"pgct"Hqtf"Ek{ . "RC0K"ecp"dg'uggp"vj cv' eqj gu'xg'hc'kwt'gu'f g'xgnr gf "y kj kp"vj g'ugcrgp'v'cpf "kpego r tguakdrgu"ctg'r t'gugp'kp"vj g'ug'ctgcu'y kj " hc'kwt'gu'0Vj g'ur cmgf "ctgcu'lpetgcug"vj g'uk' g'qh"vj g'gpv' { "r qkv'cmqi "vj g'lqkv'cmq' kpi "cf f k'k'p'cn' kpego r tguakdrgu."f g'ekpi "ucnu"cpf "y cvgt"vq"gpv'gt"vj g'lqkv'0Vj g'i tcf wcn'dw'kf /w "qh'kpego r tguakdrgu" kp"vj g'lqkv'ecp"ngcf "vq"dmqy /w u'0 Vj gtgh'gt." r tqr gt "lqkv"ugcrgpi "ku"tgs w'k'gf "vq"gzv'gf "vj g' r gthqto cpeg"qh'vj g'lqkv'0Rgppu{ r'xcpk'cpf "ugxg'tcn'qv'gt"ucv'gu"j cxg"tgr qtvgf "pqv'cej k'x'kpi "y gni' ugcrgf "lqkv'kp"t'gegpv' { gctu0



Hki wtg"40Y kf g'lqkv'y kj "eqj gu'xg'lqkv'ugcrgp'v'hc'kwt'g'cpf "kpego r tguakdrgu"0UT/88."pgct"Hqtf" Ek{ -0

r gtegpv'dw'kf gcm{ 'rguu'vj cp'47'r gtegpv'j9_0Vj g'ucpf ctf 'ucy 'ew'y kf vj 'kp'Rgppu{ ncpkc'ku'v' r kecm{ " 205: 'kp0Vq'o ckwckp'cp'cmqy cdng'utckp'dgwy ggp'72'cpf '42'r gtegpv.'vj g'lqkv'o wuv'qr gp'pq'o qtg" vj cp'202: 'v'203; 'kp'hqt'c'v'v'v'lqkv'y kf vj 'qh'2067'v'2078'kp0Cp'wr f cvgf 'gs wcvkqp'hqt'ecrewv'kpi " lqkv'qr gpkpi 'y cu'f g'xgr'gf "dcugf "qp'f cv'ltqo "vj g'kputwo gpv'gf "Uo ctv'Rcxgo gpv'qp"UT/44'kp" O wt { uxkng.'RC0Vj ku'ku'r tqxkf gf 'kp'Cr r gpf kz 'E0K'y cu'uj qy p'vj cv'c'v' r kecm{lqkv'qr gpkpi 'f wtkpi " vj g'y kpvgt'kp'Rgppu{ ncpkc'y qwf "dg'cr r tqzko cvgn{ '203'kp'hqt'c'lqkv'y kf vj 'qh'206: 'kp0Vj ku'uj qwf " dg'kp'vj g'y qtnkpi 't'cpi g'hqt'vj g'ugrcpw'wugf 'kp'Rgppu{ ncpkc'0Vj ku'ku'eqo r ctdng'v'vj g'2038'kp'qh' lqkv'o qxgo gpv'o gcuwgf "d{ 'vj g'O lej ki cp'F gr ctvo gpv'qh'Vt'pur qt'v'kqp'kp'c'uwf { 'r gthqto gf "kp" 4222"d{ "Gcengt"cpf "Dgppgw']: _0K'uj qwf "dg"pqv'gf "vj cv'k'ku'dguv'v'nggr "vj g'lqkv't'gugtxqk'cu" p'cttqy "cu'r quikng'dgecwug'k'ku'o qtg'geqppqo kecm'rguu'ugrcpv'cpf "c'o qtg'p'cttqy 'lqkv'v'ew'w'cpf " v'cxqkf 'pqkug'et'cv'gf "d{ 'v'k'g'ur' r kpi 0Gcej 'uwdugs wgpv't'gugrc'pi 'r tq'gevy knt'guw'kp'cp'k'pet'cgug" kp'vj g'lqkv'y kf vj 'cu'c'p'gy 'hceg'qh'vj g'eqpet'gv'o ki j v'p'ggf "v'q'dg'ucy gf "v'q'gpj cpeg'vj g'dqpf "dgwy ggp" vj g'ugrcpv'cpf "vj g'qf "eqpet'gv'o

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Vj g'q'v'j g't'cur'gev'qh'vj g't'gug'x'q'k'f'g'uk'i p'ku'g'p'uw'k'pi "vj g'f'gr'vj "qh'vj g'ugrcpv'ku'uw'h'ke'gp'v' "u'q" vj g'ugrcpv'f'q'g'u'p'q'v'h'k'k'p'cf'j'g'uk'p' "d'q'p'f' "h'k'w'g'dgwy ggp'vj g'eqpet'gv't'gug'x'q'k'cpf "vj g'ugrcpv'o' Vj g'ugrcpv'f'gr'vj "ku'ug'v'g'v'gf "dcugf "qp'vj g't'gs'w'k'gf "uj'cr'g'h'ev'q't' "y kf vj "v'q'f'gr'vj "t'v'k'q'+ur'g'ek'h'gf "hqt" vj cv'ur'g'ek'h'e "ugrc'pv'o cv'g't'k'r'f'Q'peg'cp'cr r t'q'r'k'v'g'ucy "ew'y kf vj "ku'f'g'v'g'to k'p'g'f "dcugf "qp'vj g' cm'qy cdng'utckp. "vj cv'ecp"dg'f'k'k'f'gf "d{ "vj g'uj'cr'g'h'ev'q't'v'q'g'uc'd'r'k'uj "vj g'f'gr'vj "qh'vj g'ugrcpv'o' Cur'j'cn'v'f'r'kecm' "j'cu'c'uj'cr'g'h'ev'q't'qh'3'cpf "u'k'ke'q'p'g'3'v'q'40Vj g'f'gr'vj "qh'vj g'ugrcpv'ku'eq'p't'q'm'g'f " d { "r' t'q'r'g't' "r' m'ego gpv'qh'vj g'd'c'eng't' "t'q'f'0Vj g'd'c'eng't' "t'q'f' "uj'q'w'f "j'cx'g'c'f'k'co'g'v'g't' "vj cv'ku'3047'v'ko'gu" vj g'y kf vj "qh'vj g'lqkv't'gug'x'q'k'o

50' O cvgt'k'v'ur'g'ek'h'ec'v'k'p'u'cpf "r'g't'h'q'to c'peg"t'gs'w'k'go g'p'u'k' Tgi ctf kpi " cr r t'q'r'k'v'g' "ugrc'pv' o cvgt'k'v'u' "R'gpp'F'Q'V'eq'o o q'p'n' "w'ug'u'cur'j'cn'v'q't' "u'k'ke'q'p'g'0C' "k'v'q'h'vj g'ur'g'ek'h'ec'v'k'p'u'vj g'ug'o cvgt'k'v'u' u'j'q'w'f "o g'g'v'ku'r' t'q'x'kf'gf "kp'Cr r gpf kz "C'0'Vj g' "r'k'g't'c'w'g' "t'g'r'q't'v'gf "vj cv' "u'k'ke'q'p'g' "cpf "r'g't'h'q'to gf "

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Tgeqo o gpf cvkpu

Vj g"hmny kpi "tgeqo o gpf cvkpu"ctg"r tqxkf gf "dcugf"qp"vj g"kp' kpi u"qh"vj ku'tgugctej 0Vj g"ugevkqp" qh'vj g'tgr qv'eqpv'ekp'kpi "eqpvgpv"ur r qt'kpi "vj g"tgeqo o gpf cvkpu"ku'r tqxkf gf "kp"r ctgpy gugu0

30' *K'ku'y gm'npqy p"vj cv'c"ft { . "engcp"lqkv'tgugtqxk"ku"pggf gf "vq"cej kxg" c"i qaf "dapf " dgw ggp"vj g"ugcncpv"cpf "eqpetvgw0Vj g'wug'qhc'xcewwo 'cpf lqt'y cij kpi 'vq'tgo qxg' uwtt{ 'ht qo 'vj g'wht'ceg'fwtkpi 'kpkcncpf 'kpcnky 'eww'j cu'ij qy p'vq'dg'dgpg'kckn' kp'kpetgculpi 'vj g'knglj qaf 'qhc'ej kxkpi 'e'bigcp'wht'ceg'cpf 'y qwf 'dg'dgpg'kckn' cffgf 'vq'vj g'lqkv'ugcncpi 'br gt cvkpu' *Crr gpf kz 'C < Ugevkap'60+0*

40' *K'ku'gugpv'ekn'q'gpwttg'cnllqkv'btg'ev'xcvgf 'rtkqt'vq'v'ekpi 'vj g'ugcncpv'uq'vj cv'r qat" ugcncpv'r gthqto cpeg"fgu"pqv'qeev"cu'c'tguwn'qh'lqkpu'dgkpi "wfp gtugcncf "qt"qxgtugcncf " *Crr gpf kz 'F < Ugevkap'60+0*

50' *Vj g'p'gy 'ugcncpv'f guli p'gs wcvkqp'ltq' *Gs 0! +ec'wew'vpi 'lqkv'br gplpi 'vq'gpwttg'ij g' cnny cdig'wtkp'tgs wktgo gpw'ctg'b gv'ij qwf 'dg'wht'vj gt'gxcw'vgf 'ltq'cf qr vkqp"vq" tgr nceg"vj g'gctkgt'xgtukqp" *Gs 07 +f g'xgnr gf "kp"vj g'3; 99\ gtq'O kpv'gpcpeg'uwf { "cpf " r tqxkf gf "kp"vj g'3; ; 5"CCU VQ'F guli p'I vkf g" *Crr gpf kz 'E < Ugevkap'800+0*

60' *P cttqy *2047'kp+lkpi'rg'ky 'eww'lqkv'v'ij qwf 'qpr' 'dg'eqp'v'gtgf 'ltq' r cxgo gpw'y kj " uj qv'lqkv'v'rcelpi u0Vj g'ugcncpv'kp"vj g'pcttqy "lqkv'v'gpf "vq" f g'xgnr "eqj gukxg'hckntgu" y kj "mipi gt"lqkv'ur celpi u0Vj g'dw'kf /wr "qh"keqo r tguukdrgu"y kj kp"vj g'ug"i cr u'kp"vj g" ugcncpv" y j gtg" eqj gukxg" hckntgu" f g'xgnr "ecp" r'cgf "vq" ur cnkpi "cpf "dmqy wr u0' Vj g" kpetgculf "kpkcncvkqp"qh'y cvgt"tguwnkpi "htqo "vj g"ugcncpv'hckntg"ku'pqv'c"uki pkklecpv' eqpegp'ukpeg'RgppF QV" wugu" c'f tckp'cdng"dcug"cpf "cnllqkv" g'xgpwcm\ "cev'xcvg0Dqj " hcev'qtu'r t'g'gpv'r qpf kpi "qh'y cvgt"kp"vj g'tgugtqxk" *eqpv'kdwg"vq"o cvgtkcn'tgrvgf "f kntguu" kp"vj g" eqpetvgw" qt" ucw'cv'gf "vj g" wpf gtn' kpi "rc {gtu" *eqpv'kdwkpi "vq" gtukqp" cpf " r wo r kpi + *Crr gpf kz 'F < Ugevkap'6+*

70' *Uk'leqpg'ugcncpv'r gthqto gf "urki j v\ "dgwgt"vj cp"cur j cn'ugcncpv'dw'ecp'dg"o qtg"*

ugpukxg"vq"tgugtxqk"rtgr"rtkqt"vq"rncgo gpv0Gkij gt 'ugncpv'vrg'ij qwf 'dg'cdig'iq"
o ggv'vj g'r gthqto cpeg'tgs wktgo gpvu'ht "c"Rgppu'ncpk "uacpfctf"LER"fgukip"
*Crr gpfkz"C<Ugekqp"4=Crr gpfkz"F<Ugekqp"6+0 K'uj qwf "dg"pqvf "vj cv"kp"vj g"
rkgtcwtg."k'j cu'dggp"tgr qtvgf "vj cv'ukleqpg"ugncpv'ecp'rcv'7"vq"9" { gct'u'qpi gt"vj cp"
cur j cu'ugncpv'0Vj ku'uwf { 'f kf "pqv'eqpukf gt "vmtc/xkqngv'gZR quwtg."y j lej "ku'npqy p"vq"
dg"o qtg"f gtko gpvcn'vq"vj g"r gthqto cpeg"qh"vj g"cur j cu'ugncpv'cu"eqo r ctgf "vq"vj g"
ukleqpg0Cnj qwi j 'r tghqto "ugncpv'y gtg'pqv'gxcnvcvf "cu'r ctv'qh'vj ku'uwf { . 'vj g { 'uj qwf "
dg"eqpukf gtgf "ht"wg'ht"qpi /nkig'r cxgo gpvu'cu"42/ { gct'r gthqto cpeg"nkig"j cu'dggp"
tgr qtvgf "kp"vj g"rkgtcwtg0 K'ku'cnuq"tgeqo o gpfgf"vj cv'r gthqto gf"ugncpv'dg"
eqpukf gtgf 'ht'qpi /nkig'r cxgo gpvu"*Crr gpfkz"C<Ugekqp"4+0

Tghgt ppegu

- 13_ " Vc{mqt."R0"TOTcuo wugp."J 0Vqttgu."I 0Hkem"FOJ cttkpi vqp"cpf "V0Ecemgt."\$Kpvgttlo " I wkf g'ht"Qr vko wo "LqkpvRgthqto cpeg"qh"Eqpetvg"Rcxgo gpwu."\$P cvkqpcnEqpetvg" Rcxgo gpv"Vgej pqmi { "Egpgvt."42340
- 14_ " Nctuqp."T00 0cpf "M0F 0Uo kj ."\$Cnngtpcvkg"F qy grDctu'ht" Nqcf "Vtcpuht"kp"Lqkpvf " Eqpetvg"Rcxgo gpwu."\$kp"Gki j y "KpvgtpcvkqpcnEqphtgpeg"qp"Eqpetvg"Rcxgo gpwu." Eqmtef q"Ur tkpi u."EQ."42270
- 15_ " Xcpf gpdquej g."L00 0'E0C0F qppgm{ "cpf "C0Hcuegw"Rtgf kvkqp"qh"fy grleqttqkqp"cpf " ghgevp"r gthqto cpeg"qh"eqpetvg"r cxgo gpwu."\$Wpkxgtuk{ "qh"Rkxudwti j ."42470
- 16_ " Co gtlecp"Eqpetvg"Rcxgo gpv"Cuqekcvkqp."\$Eqpetvg"Rcxgo gpv"LqkpvUgcnkpi IHkmp " Tgr qtv"q0VD232/423: ."\$Co gtlecp"Eqpetvg"Rcxgo gpv"Cuqekcvkqp."Unqmk."KN."423: 0
- 17_ " UgnlP q"UgnlI tqwr ."\$Vgej "Dtlgh"Vj g" Wug"qh"Xcewwo u"vq"Engcp"Ucy gf "Lqkpv."\$UgnlP q" UgnlI tqwr ."42470
- 18_ " Crr rkgf "Rcxgo gpv"Vgej pqmi { ."\$REE"Rcxgo gpv"Gxcnvcvqp"cpf "Tgi cdkkvcvqp" Tghgt ppeg" O cpwcn"\$WUF QV"Hgf gtenJ ki j y c{ "Cf o kpkvvcvqp."Y cuj kpi vqp."FE."Qevdgt"42230
- 19_ " Co gtlecp"Eqpetvg"Rcxgo gpv"Cuqekcvkqp."\$Eqpetvg"Rcxgo gpv"Vgej pqmi { ."Lqkpv"cpf " EtceniUgcnkpi "cpf "Tgr ct "ht"Eqpetvg"Rcxgo gpwu"Vgej pkecn"Dwngvkp."\$3; ; 70]Qprkpg_0" Cxckrdng<j wr u<ly y y G cxgo gpv t g u g t x c v k p Q t i l y r / " [eqpvgpvwv mcf u4232 B4 l Etcema Lqkpvua Ugcnkpi G f h 0](#)]Ceeguugf "Hgdwtct { "4247_0
-]: _ " Gcengt."O 0L0'cpf "C0T0Dgppgw."\$Gxcnvcvqp"qh"Xctkqwu"Eqpetvg"Rcxgo gpv"Lqkpv" Ugcnpvu."\$O lej ki cp"F gr ctwo gpv"qh"Vtcur qtvcvqp."Ncpukpi ."O K"42220
-]; _ " Rgf fleqtf ."NO"LOHtgggo cp."T0Lvej c."LOEtlddgp"cpf "LODgengt."Lqkpv"Ugcnpv"cpf "Rcxgo gpv" Rgt hqt o cpeg"F cv "ht" Lqkpvf "Rr k p"Eqpetvg"Rcxgo gpwu"kp"Rgppu{ xcpk."Rgppu{ xcpk" F gr ctwo gpv"qh"Vtcur qtvcvqp"Eqpetvg"Rcxgo gpv"Scnkl "Kpkvcvkg"F cv" Tgrgcug."42430
- 132_ " Hgf gtenJ ki j y c{ "Cf o kpkvvcvqp"*HJ Y C+."\$Eqpetvg"Rcxgo gpv"Lqkpv0Vgej pkecn" Cf xkuqt { "V726262."\$Hgf gtenJ ki j y c{ "Cf o kpkvvcvqp."Y cuj kpi vqp."FE."423; 0
- 133_ " Ucpfdgti ."N0D0"\$Eqo r ctkuqpu"qh"ukleqpg"cpf "wtgvj cpg"ugcnpvf wtdckkkgu."\$Lqwt pcn'qh' O cvgtkcn'kp"Ekkl'Gpi kpggt kpi ."CUEG."xqr05."pq06."3; ; 30
- 134_ " Vj qtpvqp."L0D0"\$Kpxguki cvkqp"kp"v"j g"r gthqto cpeg"qh"tki kf "r cxgo gpv"Lqkpv"cpf "o cvgtkcn"\$ kp"KpvgtpcvkqpcnEqphtgpeg"qp"Eqpetvg"Rcxgo gpwu."Rgtf wg" Wpkxgtuk{ 0Y guv"Nchc{ gwg." R ."3; 9: 0
- 135_ " J cm"MO"LOEtqxgw"V0G0J qgtpgt."M0F 0Uo kj ."C00 0Kqcppkf gu"cpf "L0Cto ci j cpk" \$Ghgevxpguu"qh"Ugcnkpi "Vtcpuhtug"Eqpvtcvkqp"Lqkpv"kp"Eqpetvg"Rcxgo gpwu/"Hkpcn" Tgr qtv."F VHJ 83/25/E/22324."\$QHkcg"qh" Tgugctej ."F gxgnr o gpv"cpf "Vgej pqmi { ." F gr ctwo gpv"qh"Vtcur qtvcvqp."Hgf gtenJ ki j y c{ "Cf o kpkvvcvqp."O eNgcp."XC."422: 0
- 136_ " O qtkcp."F 0C0cpf "U0Uqhhgu."\$Lqkpv"UgnlRtcevegu"kp"vj g" Wpkgf "Ucygu"Qdugt xcvkqpu"cpf " Eqpukf gtcvqpu."\$Vtcur qtvcvqp" Tgugctej "Tgeqtf <Lqwt pcn'qh'j g"Vtcur qtvcvqp" Tgugctej " Dqctf."xqr03849."pq0*3-<r 09/34."r r 09/34."3; ; : 0
- 137_ " Gknpg."U0"\$Ucy kpi "cpf "Ugcnkpi "Dculeu"Eqphtgpeg"r t g u g p v c v k p _ \$ k p " 4 5 t f " C E R C I R C " Eqpetvg"Eqphtgpeg"."Xk wcn"42430
- 138_ " Dcnj uj ."M0'cpf "F 0\ qmkpi gt."\$S wcnkvcvqp"qh"Lqkpv"Ugcnpv"GHgevxpguu" Tgi ctf kpi " Lqkpvf "Eqpetvg"Rcxgo gpv"Rgthqto cpeg."\$Vgzcu"C(O "Vtcur qtvcvqp"Kpukwng."Eqmgi g

Ucvkqp."42370

-]39_" Vc{mqt."R0'T0Tcuo wuugp."J 0Vqttgu."I 0Hlem'cpf "F 0J cttkpi vqp."\$kpvgtko "I wkf g'hqt"
Qr vko wo "LqkpvRgthqto cpeg"qh'Eqpetgv'Rcxgo gpw.\$'ky c"Ucvg'Wpkxgtukv{."Co gu."Kc."
42330
-]3: _" Uwtcpgpk'R0'Q0D0Ki qt."X0C| cf "cpf "Y 0LOY gkuu."\$F gkekpi "Ucnu'cpf "F wcdkxv{ "qh"
Eqpetgv'Rcxgo gpw'cpf "Lqkpv<O kki cvkpi "Ecrekwo "Qz{ej mtkf g'Hqto cvkqp."\$Eqpetgv"
kpvgtpcvkqpcn/Lqwtpcn5: *6+'r r 06: /76."Cr tki'42380
-]3; _" Vqo r nkp."F 0'cpf "N0Mj cl cpqxlej ."\$Vgej "Dtlgh'Lqkpv'Ugcrkpi "HJ Y C/J KH/3: /23+."\$"
Hgf gtdnJ ki j y c{"Cf o kpkutcvkqp."Wtdcpc."KN."423; 0
-]42_" Mko ."L0'cpf "F 0\ qmkpi gt."\$Ghgewu"qh'Uj cr g'cpf "Dqpf "Utgpi vj "qp'Cf j gukxg'Hekmwg"qh'Lqkpv"
Ugcrpvu."\$Vt cpur qt vvkqp "Tgugctej "Tgeqtf u'4897"*3+'r r 0425/434."3"Lcpwct {"42430
-]43_" Uj qdgt."U0H0'\$Vj g'I tgcv'Wpugcrkpi <C'Rgtur gevkg"qp'Rqtvrpf "Ego gpv'Eqpetgv'Lqkpv"
Ugcrkpi "Rcr gt"P q0; 93546+."\$Vt cpur qt vvkqp "Tgugctej "Tgeqtf "37; 9."r r 044/55."3; ; 90
-]44_" J cy nkp."D0M0'C00 0Kqcppkf gu'cpf "K0C00 kpnctej ."\$Vq "Ugcnlt "P qv'vq"Ugcn'AC "Hkgrf "
Gzr gtko gpv'vq"Tuqmkxg'cp'Ci g/Qrf "F krgo o c"*Rcr gt"P q023/4; 43+."\$Vt cpur qt vvkqp "
Tgugctej "Tgeqtf "396; ."r r 05: /62."42230
-]45_" Kqcppkf gu."C00 0'cpf "K0C00 kpnctej ."\$Qj kq"Twgw'72"Lqkpv'Ugcrpv'Gzr gtko gpv'Hkpcn'
Tgr qtv*"Tgr qtv'P q0HJ Y C IQJ /4224 I23; +."\$Wpkxgtukv{ "qh'E kpekppcvk'Eqmgi g"qh"
Gpi kpggtkpi ."Ekpekppcvk'QJ ."42240
-]46_" P cvkqpcn'Cecf go kgu"qh'Uekpegu."Gpi kpggtkpi ."cpf "O gf kekpg."Rqtvrpf "Ego gpv'Eqpetgv"
Rcxgo gpv'Lqkpv'Ugcrpv'Rtcevkgu'cpf "Rgthqto cpeg."Y kuj kpi vqp."FE<Vj g'P cvkqpcn'
Cecf go kgu'Rtguu."42430
-]47_" N{pej ."NOP 0'T0Ughgu."L0Ej gj qxku."I 0Xqki v."NOGxcpu'cpf "K0N0Cn/S cf k"\$Lqkpv/"cpf "
Etcem'Ugcrkpi "Ej cmgpi gu."\$Vt cpur qt vvkqp "lp"vj g'P gy "O kmgppkwo 0
-]48_" Ugcnl'P q'Ugcnl' tqwr ."\$Vgej "Dtlgh'<Hkgrf "Gxcnvcvkqp"qh'Lqkpv'Ugcrpv'Rgthqto cpeg."\$Ugcnl'P q"
Ugcnl' tqwr ."42430
-]49_" CUVO "kpvgtpcvkqpcn"\$F 88; 2"Ucpcf ctf "Ur gekkcvkqp"ht"Lqkpv'cpf "Etcem'Ugcrpvu."J qv'
Crr rkgf ."ht'Eqpetgv'cpf "Cur j cn'Rcxgo gpw."\$CUVO "kpvgtpcvkqpcn"Y guv'Eqpuj qj qengp."
RC."42430
-]4: _" CUVO "kpvgtpcvkqpcn"\$F 7: ; 5"Ucpcf ctf "Ur gekkcvkqp"ht'Eqrf /Crr rkgf ."Ukpi ng/Eqo r qpgpv"
Ej go kcm{ "Ewtkpi "Ukdeqpg'Lqkpv'Ugcrpv'ht'Rqtvrpf "Ego gpv'Eqpetgv'Rcxgo gpw."\$"
CUVO "kpvgtpcvkqpcn"Y guv'Eqpuj qj qengp."RC."42430
-]4; _" CUVO "kpvgtpcvkqpcn"\$F 484: "Rgthqto gf "Rqn{ej mtr tgp'Grcuqo gtle'Lqkpv'Ugcnl'ht"
Eqpetgv'Rcxgo gpw."\$CUVO "kpvgtpcvkqpcn"Y guv'Eqpuj qj qengp."RC."42380
-]52_" I wltct."C0'J 0D0Mko ."G00 qqf {"cpf "P 0L0Dwej ."\$Ncdqtcvqt {"kpxgunki cvkqp"qh'Hcevqtu"
Clhgevki "Dqpf "Utgpi vj "lp'Lqkpv'Ugcrpvu."\$Vt cpur qt vvkqp "Tgugctej "Tgeqtf "3849."r r 035/
43."3; ; 0
-]53_" Crr rkgf "Tgugctej "Cuuqekvgu."\$Vgej plecniO go qtcpf wo <Ctk qpc"URU/4'REE "Lqkpv'Ugcnl'
Rgthqto cpeg."\$Crr rkgf "Tgugctej "Cuuqekvgu."42350
-]54_" N{pej ."NOP 0'L0I 0Ej gj qxku."F 0I 0Nwf gtu'cpf "O 0Dgrpi kg."\$Lqkpv'Tgugcrkpi "Rtqlgewu'cv"
Hktej kf "Ck "Hqtg'Dcug."Y kuj kpi vqp<Vy gpv{/Qpg/[gct'Hkgrf "Rgthqto cpeg."\$"
Vt cpur qt vvkqp "Tgugctej "Tgeqtf "4583."r r 0; ; /327."42350

- 155_" Nk'S 0'\$F gxgrqo gpv'qh'Vgukpi 'U{ ugo 'hqt'Cpcn{ uku'qh'Vtcpuugtug'Eqpvtcevkap'Lqkpw'lp"
Rqtvrpf'Ego gpv'Eqpetgv'Rcxgo gpw.\$'WO KF kuugtvcvkap'Rwdrkuj kpi .42330
- 156_" Cn'S cf k'KON0'J 0Q| gt.'U0U0| qwughk'O 0Ucy enj c'cpf'M0M00 eI j gg.\$'Xcrkf cvkap'qh'J qv"
Rqwtgf'EtcemUgcrpv'Rgthqto cpeg/Dcuqf'I wkf grkpgu*'Tgr qtv'P q0'HJ Y C IXVTE'39/"
T48+.\$'Xkti kpc'Vtcur qtvcvkap'Tgugctej 'Eqwpekn'Ej ctnqwguxkmg.'XC.'42390
- 157_" I wq.'O 0'1 0Vcp.'Z0F w'cpf '\ 0Nx.\$'Uwf { 'qp'yj g'Eaj gukqp'cpf'Cfj gukqp'qh'J qv'r qwtgf "
EtcemUgcrpvu.\$'Ht qpvkt u'qh'Ut wewt c'n'cpf 'Ekki'Gpi kpggt kpi '*33+'r r 0575/57; .': 'Lwpg"
42390
- 158_" Hgrf o cp.'F 0'\$Rqn{ o gt'Y gcvj gtkpi <Rj qvq/Qzlf cvkap.\$'Lqwt pcr'qh'Rqr{ o gt u'cpf 'yj g"
Gpxkt qpo gpv'32*6+'r r 0385/395.'4224'Qevqdgto
- 159_" Mko .'10'F 0\ qmkpi gt'cpf'U0Ngg.\$'Gzr gtko gpv'cn'Uwf { 'qp'yj g'F guki p'cpf'Dgj cxkqt'qh'
Eqpetgv'Rcxgo gpv'Lqkpv'Ugcrpvu.\$'Vtcur qtvcvkap'Tgugctej 'Tgeqtf u'4897*8+'r r 058; /
59; .3'Lwpg'42430
- 15:_" Mj wtk'O 0'H0'\$F guki p'qh'Tgevcpi wrct'twddgt'Ugcn'qp'yj g'Dcuku'qh'Xqp'O kugu'Ut guu.\$'
Vtcur qtvcvkap'Tgugctej 'Tgeqtf u.'r r 075/85.'3; ; 50
- 15;_" Vqpu.'GO'\$C'Vj gqtgv'ecn'Cr r tqcej 'v'F guki p'qh'c'Tqcf 'Lqkpv'Ugcn'\$'P cvkap'cn'Tgugctej "
Eqwpekn'Y cuj kpi vq.'F 0'3; 7; 0
- 162_" O cuvq.'O 0'\$Nqpi 'Nkg'Eqpetgv'Rcxgo gpv'Rgthqto cpeg'kp'O kppguvc.\$'lp'45tf 'Cpwwcn'
CERCIRC'Eqpet gv'E qplgt gpeg.'Qprkpg.'423: 0
- 163_" \ lgi rgt.'H0I 0'cpf'T0J qtpgt.'\$Rtcevleg'qh'Wpugcrf 'Lqkpw'lp'P gy 'Rqtvrpf'Ego gpv'
Eqpetgv'Rcxgo gpw.\$'P qt vj 'F cnqvc'F gr ctvo gpv'qh'Vtcur qtvcvkap.'Dkuo ctem'P F.'422; 0
- 164_" Uo kj .'M0'cpf'C0Tqo kpg.\$'NVVR'Rcxgo gpv'O clpv'gpcpeg'O cvgtkcn'U TR'Etcem'
Vtgcvo gpv'Gzr gtko gpv.\$'Hgf gtcn'J ki j y c { 'Cf o kpkutkq.'Y cuj kpi vq.'F E.'3; ; 0
- 165_" F wpp.'E0'D0'Hvej u'cpf'M0'Gxgtv'\$Rtcevleg'qh'Wpugcrf 'Lqkpw'lp'P gy 'Rqtvrpf'Ego gpv'
Eqpetgv'Rcxgo gpw'HK'CN'GXCNWC VKQP 'TGRQTV.\$'P qt vj 'F cnqvc'F gr ctvo gpv'qh'
Vtcur qtvcvkap'O cvgtkcn'cpf'Tgugctej 'F kxkukq.'Dkuo ctem'P F.'Lcpwct { 422; 0
- 166_" Dwtng.'O 0R0L0'cpf'LO'Y 0Dwi rgt.\$'Vj g'Nqpi /Vgto 'Rgthqto cpeg'qh'Wpugcrf 'Lqkpv'gf "
Eqpetgv'Rcxgo gpw'*\$Rcr gt'P q024/45; 6+.\$'Vtcur qtvcvkap'Tgugctej 'Dqctf.'Y cuj kpi vq.'
F 0'42240
- 167_" Rgppu{ nkcplc'F gr ctvo gpv'qh'Vtcur qtvcvkap.'Dwngv'37.'Rwdrkecvkap'57.'J cttkudwti .'42440
- 168_" Rgppu{ nkcplc'F gr ctvo gpv'qh'Vtcur qtvcvkap.'Cwqo cvgf 'Rcxgo gpv'Eqpf kqkq'Uwt xg{ 'Hkgf "
Ocpwcn'Rwdrkecvkap'558.'J cttkudwti .'RC.'42440
- 169_" Rgppu{ nkcplc'F gr ctvo gpv'qh'Vtcur qtvcvkap.'Rcxgo gpv'Rqrke{ 'Ocpwcn'Rwdrkecvkap'464."
J cttkudwti .'RC.'42430
- 16:_" Mko .'10'cpf'F 0\ qmkpi gt.\$'Ghgew'qh'Uj cr g'cpf'Dqpf'Ut gpi vj 'qp'Cfj gukxg'Hckwtg'qh'Lqkpv'
Ugcrpvu.\$'Vtcur qtvcvkap'Tgugctej 'Tgeqtf u'xqr04897.'r r 0425/434.'3'Lcpwct { 42430
- 16;_" Y gmu.'U0'D0'Rj knk u'cpf'LO'Xcpf gpdquuej g.\$'Ej ctcevgtk kpi 'Utc'kp'kpf weg'f'd { "
Gpxkt qpo gpv'cn'Nqcf u'lp'Lqkpv'gf 'Rrck'Eqpetgv'Rcxgo gpw'K0 o gf kcvn{ 'Chgt'Rcxkpi 'cpf "
Vj tqwi j qw'Hktv'32'o qpj u.\$'Vtcur qtvcvkap'Tgugctej 'Tgeqtf <Lqwt pcr'qll'yj g"
Vtcur qtvcvkap'Tgugctej 'Dqctf.'pq03; 69.'r r 058/62.'42280
- 172_" Dwtpj co .'V0'cpf'C0Mqwdcc.\$'C'P gy 'Cr r tqcej 'v'Guko cvkpi 'yj g'K0/Ukw'Vj gto cni'
Eqghlekpv'cpf'F t { kpi 'Uj tkpnei g'ht'Lqkpv'gf 'Eqpetgv'Rcxgo gpw.\$'lp'9y 'Kpvt pcvkqpcn

- Eqplgt gpeg"qp'Eqpet gvg'Rcxgo gpvu."Qtrcpf q."HN."42230*
- 173_" CUVO "Kpvtgpcvqpcn"\$Ucpcf ctf "Vguv'O gj qf "hqt'Ngpi y 'Ej cpi g'qh'J ctf gpgf "J { f cwke/" Ego gpv'O qtvt"cpf "Eqpetgvg.\$"42430
- 174_" Lcpuugp."F 0'\$O qkuwtg'kp"Rqtvrpf "Ego gpv'Eqpetgvg.\$"kp"Rtqeggf kpi u'ht qo "qhl'y g'88y " Cppwcn'O ggvkpi "qhl'y g'Vt cpur qt vvkqp'Dqctf."Y cuj kpi vqp."F (E0'3; : 90
- 175_" Glugpo cpp."LOcpf "I 0Ng{ nwh "\$Uko r rkhgf "Ecrewvkvq"O gj qf "qh'Urd'Ewtrkpi "Ecwugf "d{ " Uwtceg"Uj tkpnci g.\$"kp"4pf "Kpvtgpcvqpcn"Y qtmij qr "qp'yj g'Vj gqt gvkecn"F guki p"qh'Eqpet gvg" Rcxgo gpvu."Ur clp."3; ; 20
- 176_" Ngf gtrg."T0cpf "LOJ kngt."\$Tgxgtukdrg"Uj tkpnci g'qh'Eqpetgvg"O cf g'y kj "Tge{engf "Eqpetgvg" Ci i tgi cvg"cpf "Qvj gt "Ci i tgi cvg"V{r gu."\$CEKO cvgt kcnu"Qwtpcn"xqr0332."pq06."r r 0645/ 653."42350
- 177_" Xcpf gpdquuej g."LOO 0'\$Vj g'O gcuwtgf "Tgur qpug"qh'Wmtc/Vj kp"cpf "Vj kp"Y j kgvqr r kpi "vq" Gpxktqpo gpcn"Nqcf u.\$"kp"9y "Kpvtgpcvqpcn"Eqplgt gpeg"qp'Eqpet gvg'Rcxgo gpvu."Qtrcpf q." HN."42230
- 178_" CCUI VQ."\$Ucpcf ctf "O gj qf "qh'Vguv'hqt"Eqghhlekpv'qh'Vj gto cni'Gzr cpukqp"qh'J { f tcwke" Ego gpv'Eqpetgvg.\$"422; 0
- 179_" O cvgqu."C0'LOJ ctxg{."LODqrcpf gt."T0R0L0Y w'cpf "H0cpf "Rcpki wc."\$Hkgrf "Gxcnwkvq"qh" yj g'k0 r cev'qh'Gpxktqpo gpcn"Eqpf kkpqu"qp'Eqpetgvg"O qkuwtg/Tgrcvf "Uj tkpnci g'cpf " Eqghhlekpv'qh'Vj gto cni'Gzr cpukqp."\$Wpkxgtuk{ "qh'Ecnhqtplc'Rcxgo gpv'Tgugctej "Egpgvt." F cxku."EC."423; 0
- 17: _" O g{gtu."U0'\$Ej ctcevgtkukcu"qh'J ctf gpgf "Ego gpv'Rcuvg"cpf "qh'Eqpetgvg.\$"xqr052."r r 03; 5/ 425."3; 730
- 17; _" \ qmkpi gt."F 0'LO'Rctm'cpf "LONo ."\$Ci g'cpf "O qkuwtg'Ghgew"qp"Vj gto cni'Gzr cpukqp"qh' Eqpetgvg'Rcxgo gpv'Urdu."\$O cvgt kcnu"kp'Ekkn'Gpi kpggt kpi ."42340
- 182_" F ctvgt."O 0K0'\$F guki p"qh'\ gtq/O clpvgpceg'Rrckp"Lqkpvf "Eqpetgvg'Rcxgo gpv."Xqr0K/" F gxgnr o gpv'qh'F guki p"Rtqegf vtgu."\$HJ Y C."Y cuj kpi vqp."F (E0'3; 990
- 183_" CCUI VQ."Ucpcf ctf "O gj qf "qh'Vguv'hqt"Y cvgt "Eqpvgpv'qh'Ht guj n{ "O kzgf "Eqpetgvg"vukpi " O ketqy cxg"Qxgp"ft { kpi ."Y cuj kpi vqp."F (E0'42370
- 184_" P cvkqpcn'Qegcple"cpf "Cvo qur j gtle"Cuuqekvq" *P QCC+."\$Nqecn'Erko cvqmi kecn"Fcw" *NEF +F cvcugv'F qewo gpcvkvq."\$]Qprkpg_0Cxcckrdrg< [j vr u<ly y y 3pfe e0qcc0 qx lr wd lf cvc kf q lf qewo gpcvkvq INEF af qewo gpcvkvq0 f10](#)
- 185_" Dtaf {." \ 0C0'E0C0F qppgm{ "cpf "LOO 0Xcpf gpdquuej g."\$Vgo r qtcn'cpf "Ur cvkn'Xctkcvq" kp"ft { kpi "Uj tkpnci g'cpf "Vj gto cni'Tgur qpug"qh'c'Lqkpvf "Rrckp"Eqpetgvg'Rcxgo gpv."\$ Vt cpur qt vvkqp" Tgugctej "Tgeqtf <Lwt pcr'qhl'y g'Vt cpur qt vvkqp" Tgugctej "Dqctf."42450
- 186_" Co gtlecp"Cuuqekvq"qh'Ucvg"J ki j y c{ "cpf "Vt cpur qt vvkqp"Qhhecnu."CCUI VQ" I wkf g'ht " F guki p"qh'Rcxgo gpv'Utwewtgu"3; ; 5."Y cuj kpi vqp."F (E0'42230
- 187_" Uknr"WUC."\$Uknrukn /94: "P U.\$Uknr."\$]Qprkpg_0Cxcckrdrg< [j vr u<lwuc0uknc0eqo lgp leqput vevkvq kf j gukx gu/ugc rcpvullqkv vugc rcpvult qcf y c{/ " ugc rcpvulukrukn/94: /putj vo r0\]Ceeguugf "43" P qxgo dgt"4246_0](#)
- 188_" Etcheq"Kpe0'Rtqf vev'Fcw"Uj ggv'Tqcf ucxgt"453."Ej cpf rgt."Ctk qpc<Etcheq"Kpe0"42440
- 189_" Rgppu{ rxcplc" F gr ctvo gpv'qh'Vt cpur qt vvkqp."\$Rwdnecvq"940 "Ucpcf ctf u'hqt" Tqcf y c{ " Eqput vevkvq."\$Rgppu{ rxcplc" F gr ctvo gpv'qh'Vt cpur qt vvkqp."42380

-]8: _" Cr r r k f "Rcxgo gpv'Vgej pqmji {."kpe0"REE'Rcxgo gpv'Gxcnecvkap"cpf "Tgj cdkkcvkap."
Ej co r cki p."KN<P cvkqpcn'J ki j y c { "kpukwg."Qevqdtg'42230
-]8; _" CUVO "kpvgtpevkqpcn'\$E3; 4"Ucpcf ctf "Rtceveg'hqt'O cnkpi "cpf 'Ewtkpi 'Eqpetgvg'Vguv"
Ur geko gpu'kp'yj g'Ncdqtcvqt { .\$'CUVO "kpvgtpevkqpcn"Y guv'Eqpuj qj qengp."RC."42370
-]92_" CUVO "kpvgtpevkqpcn'\$E365"Ucpcf ctf "Vguv'O gj qf 'hqt'Unwo r 'qh'J { ftcwke/Ego gpv"
Eqpetgvg.\$'CUVO "kpvgtpevkqpcn"Y guv'Eqpuj qj qengp."RC."42370
-]93_" CUVO "kpvgtpevkqpcn'\$E453"Ucpcf ctf "Vguv'O gj qf 'hqt'Ckt'Eqpvgpv'qh'Higuj n' 'O kzgf "
Eqpetgvg'd { 'yj g'Rtguwtg'O gj qf .\$'CUVO "kpvgtpevkqpcn"Y guv'Eqpuj qj qengp."RC."42320
-]94_" CUVO "kpvgtpevkqpcn'\$E5; "Vguv'O gj qf 'hqt'Ego r tguukxg'Ut gpi vj 'qh'E { n'kf tlecn'Eqpetgvg"
Ur geko gpu.\$'CUVO ."Y guv'Eqpuj qj qengp."RC."42250
-]95_" P cvkqpcn'Qegeple"cpf "Cvo qur j gtle"Cuuqekcvkap"*P QCC+."\$F cvc"Vqqnu<Hkpf 'c'Ucvkap.\$"
P cvkqpcn'Egpgvtu'hqt'Gpxkqpo gpvcn'kphqto cvkap."]Qprkpg_0Cxcnkdrp<
[j wr u<ly y y Qpegk0qccc0 qx lef q/y gd lf cvcvqnuHkpf ucvkap0\]](#)Ceeguugf "P qxgo dgt"4245_0
-]96_" Co gtlecp'Eqpetgvg'Rcxgo gpv'Cuqekcvkap."\$Ucpcf ctf "Ur gekhlecvcap'hqt'F qy gn'Dctu'hqt"
Eqpetgvg'Utggv'cpf "J ki j y c { 'Rcxgo gpv'O 476/43.\$'CERC."42430
-]97_" Mko .] 0T0'F 0Nkwrg"cpf "T0N{ wqp."\$Hcwi wg"cpf "J gcnkpi 'Ej ctcevgtk cvkap'qh'Cur j cn'
O kzwtgu.\$'xqr037."pq03."42250
-]98_" CUVO "kpvgtpevkqpcn'\$F 754; "Ucpcf ctf "Vguv'O gj qf u'hqt'Ugcrcpw"cpf "Hkngtu."J qv'Cr r r k f f ."
hqt'kqkpw"cpf 'Etcem'kp'Etcem'kp'Rcxgo gpw.\$'CUVO ."Y guv'Eqpuj qj qengp."RC."42420
-]99_" Xcp'F co ."V0L0'U0Tgc{.'O 0Cr r rg{ ctf "cpf 'O 0L0Gcengt."\$F gxgnr o gpv'qh'c'Ncdqtcvqt { "
Uetggpkpi "Vguv'hqt'Cur j cn'Rcxgo gpv'Etcem'Ugcrcpw.\$'xqr038: 2."pq03."r r 058/65."3; ; ; 0
-]9: _" F klm"Y 0X0'\$Rtcevelecn'Hcwi wg'Ej ctcevgtk cvkap"qh'Dkwo kpquw'O kzgu.\$'Rj gqpkz.'Ctk qpc."
3; 970
-]9; _" Rgvgtuqpg."lOE0'\$C'Tgxkgy "qh'yj g'Hwpf co gpvcn'qh'Cur j cn'Qzkl cvkap<Ej go lecn"
Rj { ukeqej go lecn'Rj { ulecn'Rtqr gtv{."cpf 'F wcdkrlv' 'Tgrvkapuj kr u.\$'Y cuj kpi vqp."F OE0"
422; 0

Cr r gpf lz 'C0LqkpVUgcncpvNkgt c wwt g'T gxlgy

3'0'kpv qf wevkqp

Ugcncpi "cpf "hknpi "eqpetgvr cxgo gpv'lqkp'u'ku'eqpukf gtgf "dgpghlekn'vq'r cxgo gpv'r gthqto cpeg" hqt "xctkquw'tgcuqpu'0'Hktuv."lqkp'ugcncpw'r tngxgpv'y cvgt "htqo "kphkncvki "vj g'r cxgo gpv'utwewtg." y j lej "o kki cvgu'f gxnqr o gpv'qh'o qkuwtg"tgrcvf "f knt guugu"uwej "cu"hcwvki . "uqhgplki "qh' y j g" uwdcug."eqtpgt "dtgcmu."cpf "htggj g/vj cy "f co ci g'0'Ugeqpf ."lqkp'ugcncpw'r tngxgpv'y g'kpvwukqp"qh' hkgu'kpv' y j g'r cxgo gpv'lqkp.'o kpo k kpi "ur cmki "cpf "dmj wr u'y j gp'vj g'r cxgo gpv'gzc'cpf u'f wg" vq"gpv'kqpo gpv'nc'f ki "j35."36."37."38_0'kpcmf . "vj g'wug'qh'lqkp'ugcncpw'tgf wegu'vj g'co qwpv'qh' f gkpi "ej go kcnu."y j lej "ecp"j cxg"cp"cf xgtug"ghgev'qp"r cxgo gpv'r gthqto cpeg. "vj cv'gpvt" y j g" r cxgo gpv'u{uwo "j6."39."3: . "3; _0

Hki wtg'C0'uj qy u'hkxg'eqo o qp'lqkv'f guki pu'wugf "hqt"eqpetgvr cxgo gpv'j6_0C"eqpxgpv'kpcn' lqkp' f guki p" eqphki wcvkqp"ku"uj qy p"cu" y j g" 0'Ugcncf "kpv"tugtxqkt "eww'0"kp" Hki wtg' C0'f 0' Vj g" eqpxgpv'kpcn'lqkp'v'eqphki wcvkqp"ku'eqpwt wevgf "d{ "htuv'eww'ki "cp"kp'kcn'ucy "eww."y j lej "eqpvtqnu" etcen'neqcvkqp"kp" y j g'r cxgo gpv'0'Vj g'f gr y j "qh'ucy eww'ku'v' r kcmf "gs wcn'vq"ppg'hqwt y j "qt"ppg' y j kf " y j g'f gr y j "qh' y j g'r cxgo gpv'ht' r cxgo gpv' y kj "wpucdrk' gf "cpf "ucdrk' gf "dcugu."tgr gev'gn' 0'P gzv." c'tugtxqkt "kp" y j lej "vj g'ugcncpv'ku'vq"dg'r megf "ku'ew'0'Vj g'f ko gpukpu'qh' y j g'tugtxqkt "ctg'c"hwpevkqp" qh' y j g'lqkp'ugcncpv'uj cr g'hcevqt"cpf "dcengt' tgf "vj kempuu"j6."38_0'Vj g'uj cr g'hcevqt"ku' y j g'f gr y j "vq" y j kf y j "tcvq"qh' y j g'ugcncpv'cpf "j cu'dggp" f gvtgto kpgf "vq"dg" c"etk'kcn'hcevqt "kp"t'gukucpeg"vq"hc'kntg" ecwugf "d{ "lqkp'v'o qxgo gpv'j6."42_0

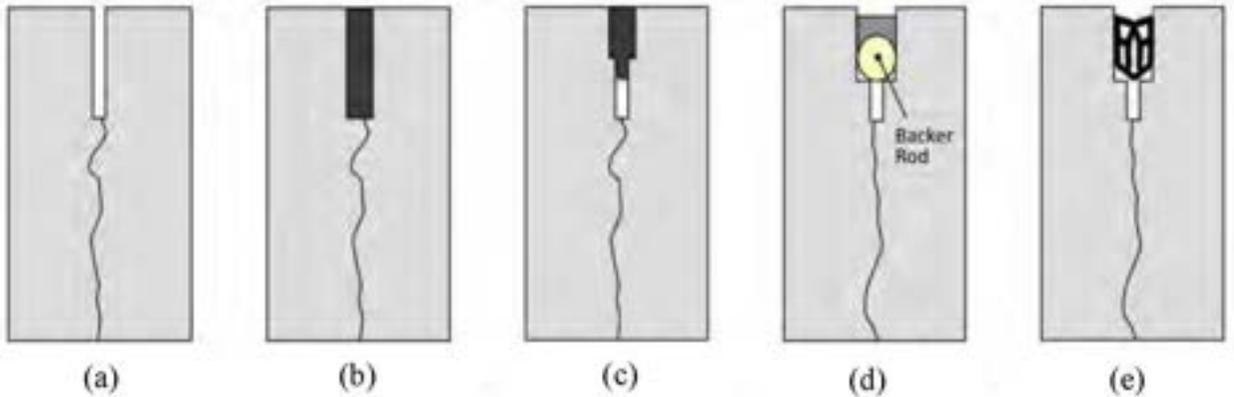
Vj g'htguj n{ "ew' t'ugtxqkt "ku' y j gp'engcpgf "y kj "y cvgt."cmjy gf "vq"ft { "cpf " y j gp'ucpf "drcuvf "vq" tgo qxg'cmf wuv'cpf "o qkuwtg"kp" y j g'tugtxqkt "vj cv'y qwf "cf xgtugn' "chgev' y j g'cf j gukqp"qh' y j g'ugcncpv' vq" y j g'r cxgo gpv'0'K o gf kcvn' "chgt" y j g'lqkp'ku'engcpgf "cpf "f tkgf . "vj g'dcengt' tgf "ku'kpuvcmgf "cv' y j g" ur gek'k'gf "f gr y j "vq" r tngxgpv' y j g'lqkp'ugcncpv'htqo "cf j g'kpi "vq" y j g'dqwo "qh' y j g'lqkp'v'tugtxqkt 0' Rtngxgpv'ki " y j g'ugcncpv'htqo "cf j g'kpi "vq" y j g'dqwo "qh' y j g'tugtxqkt "tgf wegu' y j g'utguu"kp" y j g'ugcncpv' cv' y j g'dcug"qh' y j g'tugtxqkt 0'Vj g'lqkp'ugcncpv'ku' y j gp" r megf "kp" y j g'tugtxqkt "cpf "hqtgto gf "vq"ku" ur gek'k'gf "uj cr g'hcevqt"j6."38_0

Qpg'cngt'pcv'xg'lqkp'v'f guki p"qr v'kqp."f gr lev'gf "kp" Hki wtg' C0'c."ku'cp'v'phkngf "ukpi ng'ucy "ew'lqkp'v." y j lej "grko kpcv' y j g'pggf "vq"ew' y j g'lqkp'v'tugtxqkt "cpf "hkn' y j kj "c'ugcncpv'0'Vj ku'qr v'kqp"j cu'i k'kpgf " r qr wctk'f "kp" y j g'y gv'htggj g'tgi kqp"qh'Co g'k'ec'f wg"vq" r tgo cwtg'ugcncpv'hc'kntg'0'Vj g'Y k'ueq'p'k'p" F gr ctvo gpv'qh'Vt'cpur qt'cvkqp" *Y ku'F QV+"j cu'cf qr v'gf "vj ku'r tce'k'eg" y j lej "ucxgu"Y ku'F QV"qxgt "&" o k'k'k'p" f qm'tu" c" { gct"vq"eqo r ngv"qy gt" r t'q'lgew"j43_0'Y ku'F QV"cpf "qy gt"ucv'gu" y j cv'wug" y j ku" o gv' qf "kp" y j g'y gv'htggj g'tgi k'p'u'qh'Co g'k'ec'j cxg'uggp"p'q'muu'kp" r cxgo gpv'r gthqto cpeg"j43."44." 45_0

Cpqy gt" cngt'pcv'xg"dgkpi "gxcncv'gf "kp"t'gegpv' { gct'u"ku"vq"grko kpcv' y j g'lqkp'v'tugtxqkt "cpf " dcengt' tgf "cpf "hkn' y j g'k'k'k'cn'ucy "eww'gpv'k'gn' "y kj "c'ugcncpv."v' r kcmf "c"j qv' r qwt "cur j cn'ugcncpv' j38."37_0'Vj ku'lqkp'v'eqphki wcvkqp"ecp"dg'uggp"cu" y j g'0'Hkngf "kpv"ukpi ng'ucy "eww'0'lqkp'v'f guki p"kp" Hki wtg' C0'd'0'Vj g'P qt y j "F cmjvc" F gr ctvo gpv'qh'Vt'cpur qt'cvkqp" *P F F QV+"j cu'dgi wp'hknpi "ukpi ng" uc y "eww'lqkp'u" y kj kp" y j g'k' "ucv'g'0'Vj g'ucv'g"v' r kcmf "wugu" c"20'47/kp"lqkp'v' y j kf y j "hkn'gf "y kj "c"j qv" r qwt "cur j cn'dcugf "ugcncpv'0'J qy g'xgt."P F F QV"uqo g'ko gu'wugu" c"20' /kp"lqkp'v' y j kf y j "y kj "c"uk'k'ep'g" ug'cncpv'0'P F F QV"erko u' y j cv'hkngf "ukpi ng'ucy "eww'lqkp'u"j cxg'pqv'r tgf wegf "cp{ "f knt guugu"tgrcvf " vq"ur cmki "y kj kp" y j g": "{ gct'u'k'peg" y j g'ugcncpv' y cu'k'p'ucmgf "j46_0'Vj ku'cngt'pcv'xg"ecp"cu'q"j cxg'c" y j kf g'pgf "lqkp'v."cu'uggp"kp" Hki wtg' C0'e0

Vj g'hkpcn'cngt'pcv'xg" f guki p"ku'uj qy p"kp" Hki wtg' C0'g"ku' y j g'eqo r t'gu'k'qp"ugcnc'f guki p'0'Vj ku' f guki p"nggr u' y j g'r qn'ej n'qr t'gpg'gr'ucv'qo g'k'ec'ugcnc'42"vq"72" "eqo r t'gu'ugf "qh' y j g'ugcnc'qt'ki kpcn'

ngpi vj 0Mggr kpi "vj g"ugcn'eqo r tguugf "cpf "kp"vj g"lqkv'y kj qww'qdvckpki "r gto cpgpv'f ghqto cvkqp" vj tqwi j "qxtg'eqo r tguukpi "vj g"ugcnpv'ku'xkcn'vq"vj g"uweegu'qh'vj ku'v' r g'qh'ugcnpki "o gvj qf 0Vj gug" ugcni'ctg'v' r kecni' "o qtg'gxr gpukxg"vj cp"qvj gt "hqtto u"qh'ugcnpv'dw'j cxg" c'mpi gt "f guki p'rhg"ukpeg" eqo r tguukqp'ugcnpv'y kn'p'qv'f gvtkqtc'v'cu's wlemf "f wg"v'g'p'xk'qpo gpv'nh'cevqtu"j38_0



*Hli wt g'CB0E qpet gv g'Rcxgo gpv'Lqkv'F guki p" *c +Wp/hkngf " *qr gp +*d +Hkngf 'kp' ukpi ng' lcy " eww" *e +Hkngf 'kp' t' gugt xqkt " *f +Ugcngf 'kp' t' gugt xqkt " *g +Eqo r t guukqp "ugcn'j6_*

4"0'V{ r gu'qh'Ugcnpv

Vj g" vj tgg" o clp" ugcnpv" wugf " hqt" eqpetgv" r cxgo gpv" ctg" cur j cn" ukleqpg" cpf " r tghqto gf " eqo r tguukqp'ugcnpv'0Cur j cn'ugcnpv'ctg'r nceg' y j gp'vj g'ugcnpv'ku'j qv'cpf 'ku'vj g'o quv'eqo o qp" v' r g'qh'ugcnpv'wugf "hqt"eqpetgv'r cxgo gpv'0J qy gxgt."ukleqpg"cpf "r tghqto gf "ugcnpv'ctg"cuq" eqo o qpn' "ceegr vgf "cngt'pc'v'x'gu'hqt"o cp{"ucv'gu'F QVu"j47."3; _0Vj g'hqmqy kpi "ugev'kqp"r tqxkf gu" i tgcvt'f gvck'iqp"gcej "v' r g'qh'lqkv'ugcnpv'0

40"Cur j cn'Ugcnpv

Cur j cn'ugcnpv'ctg'vj g'o quv'y kf gn' wugf "ugcnpv'd{"ucv'F QVu'0K" c's wgu'k'pp'ck'g'r tgr ctgf "d{" Mko "cpf "\ qn'kpi gt."4; "qh'55"ucv'gu'y j lej "r ct'v'ekr cvgf "ucv'gf "vj cv'cur j cn'ugcnpv'ctg'wugf "y kj kp" vj gkt "ucv'g'0K"eqo r ct'kuq. "qpn' "39"ucv'gu'wug'ukleqpg'ugcnpv."cpf "35"ucv'gu'wug'eqo r tguukqp'ugcni' j46_0Cur j cn'ugcnpv'j cxg" c'v' r kecni'ugt'x'leg'rhg'qh'5"vq": "{ gctu'cpf "ctg'npqy p'hqt'i qqf "hngz'kdk'v' " cpf "ugcnpki "ej ctcev'gt'ku'eu'0K"cf f k'k'q. "vj g"equv'v'q"hn'l'qkv'ku't'gr'v'x'gn' "mqy "eqo r ctgf "vq"qvj gt" o gvj qf u"qh'ugcnpki "lqkv'0Lqkv'ugcnpki "cee'q'wpv" hqt"cdqw"7' "vq"32' "qh'vj g"kp'k'cn'equv'qh" r cxgo gpv."uq't'gf w'v'k'p'qh'vj g'equv'ugcnpki "j cu'vj g'r qv'gp'v'cn'ihqt'uki p'k'k'ec'p'v't'gf w'v'k'p'qh'vj g'r tq'lg'ev' qxgt'cm'equu"j48_0Cnj qwi j "y kf gn' "cf qr vgf ."cur j cn'ugcnpv'ctg'r t'qpg"v' "h'c'k'w't'g'q'x'gt'v'ko g'f w'g'v'q" uk'k'p'kpi "qh'vj g"ugcnpv'0K'p'et'g'cugf "uk'k'p'g'u" ecw'gu" ut'guu" eqpeg'p'v'c'v'k'p'u" y kj kp" vj g"ugcnpv." t'gu'w'kpi "kp'ugcnpv'h'c'k'w't'g'y j gp'vj g'r cxgo gpv'l'qkv'ku'wd'l'g'ev'gf "v'g'z'eg'u'k'x'g'o qxgo gpv"j38."46_0

Vj gtg'ctg'hqwt "v' r gu'qh'cur j cn'ugcnpv"cee'qt'f kpi "vq"CUVO "F 88; 2."y j lej "ctg'f gpq'v'f "cu" V{ r gu'K'K'K'K'cpf "KX"j49_0Vj g'em'uk'k'ec'v'k'p'qh'gcej "v' r g'qh'ugcnpv'ku'd'cugf "qp'vj g'gh'g'ev'x'gp'guu" qh'vj g'ugcnpv'kp'ur gek'k'e"en'ko cvg'eqpf k'k'qpu."y j lej "ku'c'hw'p'ev'k'p'qh'vj g'd'qpf "ut'gpi vj "cpf "gz'v'p'uk'q" ej ctcev'gt'ku'eu'0Cur j cn'ugcnpv'r gthqto cpeg"ku'v'g'ugf "kp"mqy "vgo r gtc'w't'gu"cpf "ut'gvej gf "vq" c" ur gek'k'gf "gz'v'p'uk'q"r'gx'gn'v'q" f gv'to k'p'g'y j cv'ku'vj g"cr r tq'r t'k'v'g'ugcnpv'em'uk'k'ec'v'k'p'0K"cf f k'k'q. " CUVO "F 88; 2" r'ku'u" vj g"ur gek'k'e" t'gs w't'go gpv" hqt" gcej " cur j cn' ugcnpv' v' r g' dcugf "qp" eqpg"

r gpgtckqp." uqhnglpi " r qlpv." dqp" utgpi vj ." tgukdpeg." qxgp" ci gf " tgukdpeg." cpf " cur j cn' eqo r ckdrlk\ "vgu0

404''Ukdeqpg'Ugncpvu

Vj g'ugeqpf "o quv'eqo o qpn\ "wugf "ugncpvv\{r g'ku'ukdeqpg0Cnj qwi j "nguu'y kf gn\ "wugf "eqo r ctgf "vq" cur j cn'ugncpvu."ucvgu\j cxg"dgi wp"vq"cf qr v\j g'wug'qh'ukdeqpg'lp'tgegpv\{ gctu'dgecwug'qh'kpetgcugf " dqp" utgpi vj "cpf "gzcrcpukqp"ej ctcevtkueu"lqwpf "kp"pgy gt"ukdeqpg"ugncpv'o cvgtkcn0'Ukdeqpg" ugncpvu"cnq"j cxg"gzegmrv"cf j gukg"ej ctcevtkueu"cpf "ctg"nguu"uwegr vdr"vq"ci kpi "f wg"vq" gpvktqpo gpvcl'hcevqtu"y j gp"eqo r ctgf "vq"cur j cn'ugncpvu0'k\cf f kkp."ukdeqpg"ugncpvu"fq"pqv" tgs vkt g'j gcvpi "r tkqt"vq"cr r necvqp."y j lej "o cngu'kpuvcmvqp"qh'ukdeqpg'ugncpvu'uchgt "cu'eqo r ctgf "vq"cur j cn'ugncpvu."cpf "ewt"vq"v tawi j "c"ej go kecn'tgcevqp0'Cnj qwi j "o qtg"equv\ "vj cp"cur j cn' ugncpvu."vj g'gzcrcpukqp"cf f guki p'rhg'qh'ukdeqpg'ugncpvu'ku": "vq"37"\{ gctu."cu'eqo r ctgf "vq"cf f guki p'rhg" qh'5"vq": "\{ gctu'o qtg'eqo o qpn\ "qdugtvgf "hqt"cur j cn'ugncpvu"j38_0

CUVO "F 7: ; 5"nkuv"vj g'ucpf ctf "ur gekhcekvapu"lqt"ukdeqpg"ugncpvu0'Vj ku'ucpf ctf "nkuv"y q" encu'khecvkp'qh'ukdeqpg'ugncpvu."pqp/uci "P U+cpf "ugr/rxg r kpi "UN+0P U'ugncpvu'tgukv'uci i kpi " chgt"cr r necvqp"cpf "tgs vkt g'vj g'wug'qh'c"vqqr"vq"lqto "vj g'ugncpv"vq"vj g'tgs vkt gf "lj cr g'hcevqt"y j krg" UN'ugncpvu"j cxg'uw'hkegpv"lqy "ej ctcevtkueu"vq"lqto "c"uo qqv . "rxgr'uw'hceg"y kj qw"vj g'ckf "qh" c"vqqr"j4: _0k\cf f kkp."CUVO "nkuv"vj g'tgs vkt go gpv'tgi ctf kpi "vj g'ukdeqpg'ugncpvu"uj grh'rhg."lqkv" r tgr ctcvqp."ewt kpi "ej ctcevtkueu."gz v wukqp"tcvg."gz v pulqp"ecr cdkrlkgu."cpf "j ctf pgu0

405''Rtghqto gf 'Eqo r tguakp'Ugncpvu

Rtghqto gf "eqo r tguakp"ugncpvu"eqpukv'qh'c"pqp/ds wkf "ugncpv."y j lej "ku'r tguugf "kpv"vj g'lqkv'y kj " cp"cf j gukg'nvdtkecp0'CUVO "F 484: "rtqxf gu'ur gekhcekvapu"lqt"rtghqto gf "eqo r tguakp"ugncpvu" j4; _0'Wprkng"cur j cn'cpf "ukdeqpg"ugncpvu."rtghqto gf "ugncpvu"fq"pqv'tgn\ "qp"j ctf gkpi "qh'vj g" o cvgtkcn'vq"r tqxf g'tki kf k\ "qh'vj g'ugncpv0'Rtghqto gf "ugncpvu"ctg"cf f guki pgf "vq"dg"eqo r tguugf "c" o kpo wo "qh'42' "vq" c" o czko wo "qh'72' "qh'ku"qtki kpcn'y kf vj "vq" gpvwtg"cf gs wcvg"ugncpv " ej ctcevtkueu"y kj qw'fco ci kpi "vj g'ugncpv0

Rtghqto gf "ugncpvu"ctg"o qtg"gzrcpukxg"eqo r ctgf "vq"dqv "cur j cn'cpf "ukdeqpg"ugncpvu"dw" j cxg'dgwtg"r gthqto cpeg"ci kpuv"vj g'y gcvj gt."uwprk j v"qku"cpf "ej go kecn."j gev."cdtckqp."ko r cev." cpf "j { f tquvke"r tguvwtg0'k\cf f kkp."rtghqto gf "ugncpvu"j cxg" c"42/{ gct"gzrcpukxg"cf f guki p'rhg." y j lej "ku"mipi gt"vj cp"vj g"cf f guki p'rhg"qh"dqv "cur j cn'cpf "ukdeqpg"ugncpvu"d{ "32"cpf "37"\{ gctu." tgr gevkn\0'Vj g'eqo o qp"ecwug'qh'hckmvg"lqt"rtghqto gf "ugncpvu"ku"vj g"ko r tqr gt"guko cvqp"qh" lqkv'o qxgo gpv0'Gzeguukxg"lqkv'o qxgo gpv'ecwugu"gzrcpukqp"qh'vj g'ugncpv"cpf "tgf wegu"vj g" eqo r tguakp"r gtepcw" g"qh'vj g'ugncpv0'Cu" c"tguv."gz v tpcn'lqtegu."uwej "cu"xgj kerg"mcf u"cpf " j { f tquvke"r tguvwtg."eqwf "ecwug'ugncpv"cf f kur mego gpv"j38_0

5''Ugncpv'Hckmvg

Ugncpv'hckmvg"mcf u"vq"vj g'gpv\ "qh'o qkuwtg."kpego r tguakdgu."cpf "f gkpi "ucnu"cpf "ecp"eqvtdwv" vq"eqpetvg"o cvgtkcn'tgrv"cf f kvtguu."r wo r kpi ."ur cnkpi "cpf "dnj vr u."cpf "vq"vj g"eqttukqp"qh" f qy gn0'Vj g'y q"v\ r gu'qh'ugncpv'hckmvg"vj c'vcp"qeew"ctg"cf j gukg"cpf "eqj gukg'hckmvg0'Hckmvg" v\ r g'ku'kpnwpegf "d{ "vj g'ugncpv'o cvgtkcn'r tqr gtv\ "ej ctcevtkueu."enko cvke"eqpf kkp."eqpvt wvqp" cpf "lqkv"r tgr ctcvqp."vj g'i gqo gvt\ "qh'vj g"lqkv"tguvtxqk."lqkv'o qxgo gpv."lqkv"v kvtguugu."cpf "

ej go kecn'tgcev'kpu"]38_0Vj g'hqmjy kpi "uge'kqp" f g'cku" gcej "v{ r g'qh'hckntg." cpf "vj g'tqrg"ugrcpv
f guki p'j cu'qp"vj g'hckntg'o qf g0

50''Cf j gukqp'Hckntg

Cf j gukxg'hckntg'qeewtu'y j gp"vj g'ugrcpv'f g/dqpf u'ht qo "vj g'eqpetgv'uwdutcvg."vj wu'cmjy kpi "vj g'
ugrcpv'vq" f kur meg" f ggr gt "kpq"qt"qw"qh"vj g'lqkv0Vj ku'hckntg"v{ r g'f gxgnr u'f wg"vq"kp'w'hk'k'gpv'
dqpf "utgpi vj "dgy ggp"vj g'ugrcpv'cpf "lqkv'tgugtxqk0Qpeg"cf j gukqp'hckntg'qeewtu. "vj g'k'v'w'k'q'
qh" o qk'w'g" cpf " h'p'gu" ecp" gpvgt " vj g" r cxgo gpv' u{ uvg " cpf " f getgcug" vj g" qxgtcm" r cxgo gpv'
r gthqto cpeg0'Et'k'ecn'hcevqtu'y j lej "eqp'tk'dwg"vq"cf j gukxg'hckntg"kp'nmf g"uw'hceg"r tgr ctc'k'qp."
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Rtqr gt "uw'hceg"r tgr ctc'k'qp"qh"vj g'lqkv'tgugtxqk"j cu'dggp"hw'pf "vq"dg"et'k'ecn'k'p"o kki cvkpi "
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cmjy "hqt" c"o czko wo "dqpf kpi "ctgc"cpf "r tqr gt"ewt'kpi "qh"vj g'ugrcpv'0I wtlet"gv'c'f'uw'f'kgf" hcevqtu"
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ci i tgi cvg'u'ej go kecn' "tgcev'y kj "vj g'cur j cm'ugrcpv'0Rtko kpi "vj g'lqkv'tgugtxqk"dg'htg"vj g'ugrcpv'
ku'r megf "ecp"j gr "r t'g'x'gp'vj g'ugrcpv'ht qo "tgcev'kpi "y kj "vj g'ci i tgi cvg'u0

I wtlet'au" h'k'p' kpi u"j cxg"dg'gp" xgt'k'kgf "vj tqwi j "xct'k'q'w" h'k'nf "g'x'c'w'c'k'p'u"y j gtg"uk'le'q'p'g"cpf "
cur j cm'ugrcpw'y gtg"hw'pf "vq"j cxg"xct { kpi "ugt'x'leg"hx'gu'0Vj g'Qj kq" F QV" *QF QV+"hw'pf "vj cv'vj gk"
ugrcpw"y gtg"r tgo cwt'gn{ "hck'k'p" "nguu"vj cp" c" { gct "ch'gt"vj g'ugrcpw"y gtg"r megf "]45_0'QF QV"
eqpenmf gf "vj cv'vj cv'vj g'qo ku'k'qp"qh'ucpf "d'w'k'p"i .y j lej "y cu't'geqo o gpf gf "d{ "vj g'o cp'w'h'ce'w'gt"
qh"vj g'ugrcpv."cpf "nem'qh"r tqr gt "t'ge'gu'k'p" qh"vj g'ugrcpv"y gtg"vj g" o k'p" hcevqtu"vj cv'ec'w'gf "
r tgo cwt'g"cf j gukqp'hckntg'0'k'p"eqo r ctk'qp."ugrcpw" g'x'c'w'c'g'f "cv'vj g'Ctk' qpc"URU/4"V'g'u'U'kg"cpf "
Hck'ej kf "Ck" H'q'teg" D'cug" k'p"vj g'uc'v'g"qh"Y cuj kpi vq"y gtg"l'p'uc'ngf "y kj "r tqr gt"lqkv'r tgr ctc'k'qp"
cpf "f kur m { gf "ugt'x'leg"hx'gu"gzeggf kpi "42" { gct u"]53."54_0

Cpqj gt "hcevqt" k'p"r tqr gt "lqkv'r tgr ctc'k'qp"ku"o qk'w'g'0'0 qk'w'g"r t'g'ug'p'v'k'p"vj g'lqkv'y j gp"
cr r n{ kpi "vj g'ugrcpv'y k'f'ec'w'g'ko r tqr gt "ewt'kpi "qh"vj g'ugrcpv."vj wu't'gf w'k'p"i "vj g'cf j gukxg'utgpi vj "
qh"vj g'ugrcpv'cpf "r q'v'p'k'cm{ "ec'w'kpi "hckntg'0'0 qu'v'uc'v'g'u" F QV"u" f q"p'q'v"ur g'ek{ "c"ko g"ht"vj g"
eqp't'cev'qtu"vq"y ck'vq"cmjy "vj g'lqkv'tgugtxqk"vq" f t { "dg'htg"ugrc'kpi "]46_0Vj ku'ecp"j cxg'cp"cf xgt'ug"
gh'ge'v'q'p"vj g'ugrcpv'u'dqpf "utgpi vj "f wg"vq"vj g'r t'g'ug'peg"qh'o qk'w'g" f w'k'p"i "ewt'kpi "qh"vj g'ugrcpv'0'
Nk'uw'f'kgf "vj g'gh'ge'u"qh'o qk'w'g"cpf "lqkv'y kf vj "qp"vj g'cf j gukxg'utgpi vj "qh'uk'le'q'p'g"ugrcpw'y j k'g"
k'ew'gf 0'k'v' cu'eqpenmf gf "vj cv'cp"l'pet'gcug"kp"o qk'w'g"eq'p'v'p'v'vj g'vko g'qh'ugrc'kpi "y q'w'f "f getgcug"
vj g'cf j gukxg'utgpi vj "qh"vj g'ugrcpv'0'k'p"cf f k'k'qp."uo cmgt"lqkv'y kf vj u'p'ggf "o qtg"vko g'vq" f t { "uk'peg"
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eqp't'cev'qtu"pggf "vq"dg"cy ctg"vj cv'o q'x'kpi "vq"uo cmgt"lqkv'y kf vj u'y k'ni't'gs'w'k'g"o qtg"vko g'vq" f t { "
dg'htg"vj g'r mego gpv'qh"vj g'ugrcpv"qt"r tgo cwt'g"cf j gukxg'hckntg"eqw'f "qeewt"]55_0

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Eqj gukxg'hckntg'qeewtu'y j gp"j ki j "v'p'uk'g"ut'gu'gu"y kj k'p"vj g'ugrcpv'o cvgtkn'ec'w'g"uki p'k'le'cpv'
etcen'kpi "y kj k'p"vj g'ugrcpv'o cvgtkn'0Eqj gukxg'hckntg" f gxgnr u'dge'c'w'g"qh'o let'q'et'cem'htqto cv'k'p'u"
y kj k'p"vj g'ugrcpv'o cvgtkn'f'wg"vq"ci kpi "cpf "lqkv'o q'x'go gp'0'Cu"vko g'r tqi t'gu'gu."tgr g'cv'gf "lqkv'
o q'x'go gp'v'ec'w'g'u"r tqr ci cv'k'p"qh'o let'q'et'cemu."t'gu'w'k'p"i "k'p" hckntg"qh"vj g'ugrcpv']38_0J qy gxgt."
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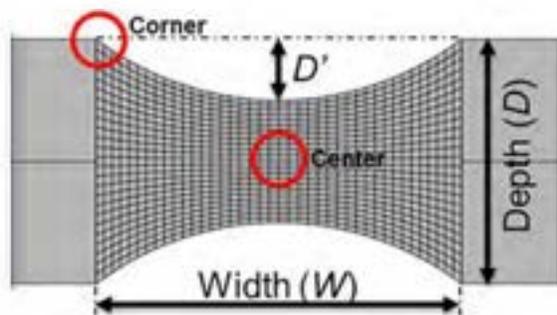
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505''Ghgevu'qh'lqkv'Tgugt xqlt 'I gqo gvt { 'kp'Hckwtg'V{ r g

C'etkknecnlhcevt "vj cv'f gvto kpgu'hckwtg'v{ r g'ku'vj g'uj cr g'hcevt "UH"qh'vj g'ugncrpv."y j lej "kphwpegu" vj g'iqecvqp'cv'y j lej "etkknecnl'utguu'ku'i gpgtcvgf 0V{ r kn'cm{ ."vj g'etkknecnl'utguu'i gpgtcvgu'cv'vj g'eqtpgt" qt'kp'vj g'egpvt"qh'vj g'ugncrpv'ht'cf j gukxg'qt'eqj gukxg'hckwtg."t gur gevkn'g{ ."cu'f gr kev'f "kp'Hki wtg" C04"]42."59_0Vj g'UH'ku'f ghkpgf "cu'vj g'tcvq'qh'vj g'ugncrpv'f gr vj ."F."vq'y kf vj ."Y 0I gpgtcv{ ."vj g'UH' ku'tgeqo o gpf gf "vq'dg"4F -3Y "hqt'ukdeqpg'ugncrpv'cpf "3F -3Y "hqt'cur j cn'ugncrpv"]42."3; ."59_0

Rtgxkqu'uwf kvu'j cxg' dggp" r gthqto gf "vq"s wcpvkh{ "vj g'ghgevu'uj cr g'hcevt "j cu"qp"ugncrpv' r gthqto cpeg0Qpg'uwf { "hqw'f "vj cv'f getgcukpi "vj g'UH'kpetgcugu'vj g'utguu'y kj kp'vj g'ugncrpv']5: _0 Mko "gv'cn'f gxnqr gf "c"rdqtcvt { "gZR gtko gpv'cpf "hpkv'g'rgo gpv'o qf gn'HGO +vq'f gvto kpg"vj g" qr vko cn'UH'vj cv'ku'tgs wktgf "hqt'ugncrpv'0Kp'vj ku'uwf { ."vj g'f gi tgg'qh'ewt'xcwtg" *F qE+]42."59_y cu" kptqf wegf "cu"c"pgy "ugncrpv'f guki p'hcevt "vq'dgwgt'f guetkdg"vj g'j qwti nuu'eqphki wcvkqp"]5; _hqt" qr vko cn'lqkv'ugncrpv'f guki p0Kp'v'qf wekpi "vj g'j qwti nuu'eqphki wcvkqp"j gr u'f kvtkdwg"vj g'utguugu" cy c { "htqo "vj g'eqtpgt"qh'vj g'ugncrpv."vj wu'o kni cvkpi "cf j gukxg'hckwtg'0Vj g'f gi tgg'qh'ewt'xcwtg"ku" f ghkpgf "cu"y q"vko gu'vj g'tcvq'qh'vj g'ugncrpv'egpvt" f gr vj ."F a"vq"vj g'ugncrpv'f gr vj 0Vj g'egpvt" vj kempgu'cpf "gf i g'vj kempgu'ctg'f gr kev'f "kp'Hki wtg"C040Vj g'HGO "uwf { "eqpukv'f "qh'cpcn{ | kpi " vj g'utguu'cpf "utckp'f kvtkdwkqp'kp'vj g'ugncrpv'ht'F qE"dgw ggp"2'cpf "30Vj g'utguu'y cu'gxcn'cv'f " cv'vj g'eqtpgt'cpf "egpvt"qh'vj g'ugncrpv."cu'uggp'kp'Hki wtg"C04"]42."59_0



Hki wtg'C040Et quu'ugevqp'f gr kev'f qh'lqkv'ugncrpv."y kj 'iqecvqpu'qhl'ut guu' eqpegpvt cvkqp'gxcn'cv'f "cv'vj g'eqtpgt'cpf "vj g'egpvt"qh'vj g'ugncrpv"]42_

T guwmu'htqo 'y j g'rcdqtcvqt { "gZR gtlo gpv'cpf 'HGO "cpcn{ uku'kpf kecvgf 'y j cv'cu'y j g'F qE 'kpetgcugu." y j g'utguu'cv'y j g'eqtpgt 'f getgcugu'cpf 'y j g'utguu'cv'y j g'egpvtg'qh'y j g'ugrcpv'kpetgcugu0Vj g'f getgcug" k'utguu'eqpepvtcvkqp'cv'y j g'eqtpgt "qh'y j g'ugrcpv'tgf wegu'y j g'rkgrkj qqf "qh'cf j gukxg'hc'kwtg"]42." 59_0'T gs wtkpi "eqpvtcevqtu"vq "kpuvcn'y j g'ugrcpv"vq "c"r tqr gt"UH'cpf "F qE" eqwf "j gr "r tngxgpv' r tgo cwtg"cf j gukxg'hc'kwtg0J qy gxgt."y j g'utguu'eqpepvtcvkqp'cv'y j g'egpvtg'qh'y j g'ugrcpv'y kni kpetgcug."y j kej 'kpetgcugu'y j g'rkgrkj qqf "qh'eqj gukqp'hc'kwtg0

6''E wt t gpv'Ugcrcpv'Rt cevegu

Lqkv'ugrcpi 'r tcevegu'ctg'f gvtgto kpgf 'd{ 'ucv'ci gpeku."cpf 'cu'c'tguwmu'y j g'ku'xctcvkqp'kp'v' r kecn' r tcevegu0C 's wgu'kppckg'r tgr ctgf 'd{ 'Mko 'cpf '\ qmki gt'y cu'ugpv'v'gcej 'ucv'F QV'y j cv'kpenf gf " s wgu'kpu'tgi ctf kpi 'y j g'lqkv'ugrcpi 'r tcevegu'qh'gcej 'ucv'F QV0Vj g'utxg{ 's wgu'kpu'tgrcvf "vq" i gpgtci'lqkv'ugrcpv'r tcevegu."f guki p'qh'y j g'lqkv'ugrcpv."lqkv'r tgr ctcvkqp."r gthqto cpeg"qh'y j g" lqkv'ugrcpv"o ckpv'ppeg"cpf "tugrcpi 'r tcevegu."cpf "cp{ "cngt'pckxg"o gvj qf u'y j g'ucv'F QVu" ko r ngo gpv]46_0Qh'y j g'72'ucv'g'lp'Co gtlcc."64'ucv'F QVu'tgur qpf gf "vq'y j g'utxg{ 0T guwmu'htqo " y j ku'utxg{ 'uj qy 'y j cv'ugrcpi 'r tcevegu'xct{ 'y j tqwi j qw'y j g'eqwpt{ . 'kpf kec'kpi 'y j cv'ewtgpv'ugrcpi " r tcevegu'ctg'p'qv'qr vko k gf "dcugf "qp'enko cvg0Gcej 'ecvgi qt { "qh's wgu'kpu'y kni'dg'f guetkdgf 'kp'y j g" hqmj kpi 'ugev'kpu0

60'I gpgtci'lqkv'Ugcrcpi 'Rt ceveg

Qh'y j g'64'ucv'g'y j cv'tgur qpf gf "vq'y j g's wgu'kppckg."55'ucv'g'*9; ' +wug'lqkv'ugrcpv0Vj tgg'ucv'g'u" *9' +f q'pqv'wug'eqpetgvg'r cxgo gpw0Ukz 'ucv'g'*36' +wug'cngt'pckxg'lqkv'ugrcpi 'r tcevegu0P kpg" uc'v'g'*43' +f q'pqv'wug'lqkv'ugrcpv'cv'cm'cpf 'cm'p'kpg'qh'y j g'ug'ucv'g'ctg'kp'y j g'pqt'y j 'htgg' g'ctgc" qh'Co gtlcc"]46_0Cur j cn'ugrcpv'ctg'y j g'o qu'eqo o qp'ugrcpv."cu'4; "qw'qh'y j g'55'ucv'g'u": ' + tgr qtvgf "wug'qh'cur j cn'dcugf 'ugrcpv'039'ucv'g'*74' +wugf 'uk'eqpg'lqkv'ugrcpv'035'ucv'g'*5; ' + wugf "eqo r tgu'kxg'ugcn'0K'ku'pqvgf 'y j cv'o qu'ucv'g'lp'y j g'pqp/htgg' g'tgi k'pu'qh'Co gtlcc" wug'dqj " cur j cn'cpf 'uk'eqpg'ugrcpv."y j kej 'ku'y j { 'y j g'r t'gxk'w'u'y j g'g'r gtegp'ci gu'f q'pqv'cf f 'w' 'vq'322' "]46_0

Qpg's wgu'kqp'cumgf 'h'y j g'ucv'F QVu'wug'qh'y j g'P VRGR/REE 'f cv'cdug'vq'qdv'k'f cv'hqt 'y j gkt" lqkv'ugrcpv'f guki p0Vj ku'f cv'cdug'eqp'ckpu'kphqto cvkqp'tgi ctf kpi 'ewtgpv'cpf 'r cu'ugrcpv'wuci g0 Uwej 'kphqto cvkqp'kpenf gu'r tqf wev'kphqto cvkqp.'r mego gpv'kphqto cvkqp."o cvgt'kcn'v'g'u'kphqto cvkqp." cpf 'r gthqto cpeg'f cv'0Qh'y j g'ucv'g'y j cv'tgur qpf gf ."qpn{ "34"qw'qh'y j g'55'ucv'g'u"*59' +y j cv'ugcn' r cxgo gpv' lqkv'wug" y j g'P VRGR" f cv'cdug'0J qy gxgt."y j gp" cpcn{ | gf ."pq" eqtt'g'cvkqp" dgvy ggp" tgi k'pcn'ej ctcevg't'k'w'cu'cpf "ugrcpi 'r tcevegu'y j g'h'qwpf 'y j k'j kp'y j g'f cv'cdug"]46_0

60''F guki p'qh'y j g'lqkv'Ugcrcpv

O qu'ucv'g'f k'f "pqv'ur gekh{ 'y j g'tgeqo o gpf gf "UH'wugf "hqt'uk'eqpg'lqkv'ugrcpv'f guki p0Qh'y j qug" y j cv'f k'f 't'gur qpf ."h'w'ucv'g'u'wug" c"UH'dgy ggp"30'cpf "40."p'kpg'ucv'g'u'wug" c"UH'dgy ggp"30'cpf " 30'."cpf "ukz'ucv'g'u'wug" c"UH'dgy ggp"20'cpf "30"]46_0Tgi ctf kpi 'y j g'lqkv't'gugtxqk"o k'pko wo " y k'f y j ."34'ucv'g'u"*58' +wug'2047'kp."h'xg'ucv'g'u"*37' +wug'2047'kp."38'ucv'g'u"*6: ' +wug'2097'kp." cpf " | gtq'ucv'g'u"*2' +wug'20'kp'lqkv'y j k'f y j 0Vj g'ug'lqkv'y j k'f y j u."hqt 'y j g'o qu'r ctv.'h'cn'l'k'p'k'p'g'y j k'j " y j cv'y j g'Co gtlcc'Eqpetgvg'Rexkpi 'Cu'qekcvkqp"*CERC +tgeqo o gpf "]46_0Gki j yggp'ucv'g'u"*82' + wug" c'tegegu'gf "eqphki w'cvkqp'hqt 'y j gkt"cur j cn'ugrcpv'eqo r ctgf "vq'y j g'33'ucv'g'u"*59' +y j cv'wug" c" h'wuj /h'kn'eqphki w'cvkqp0Tgegu'eqphki w'cvkqp'eqpukv'qh'c'tegegu'k'p'kp'y j g'lqkv'ugrcpv'o cvgt'kcn'

kp'vj g'tgugtxqk'y j gtgcu'c'hwuj 'hknf'eqphki wtcvkqp'hku'vj g'lqkv'y kj 'ugncpv'wpk'vj g'ugncpv'ku' hwuj 'y kj 'vj g'r cxgo gpv'uwthceg0Vj g'cwj qtu'pqvgf 'vj cv'vj g'r tcevek'qh'tgeguu'hkmpi "c"eqpetgvg' r cxgo gpv' lqkv' y kj " cur j cn' ugcnpw' ku" ci ckpuv' vj g' CERC" i wkf grkpu0 Ukeg" vj g' tgeguugf' eqphki wtcvkqp'i qgu'ci ckpuv'CERC"i wkf grkpu."ucvgu'vj cv'tgeguu'vj gkt'cur j cn'lqkv'ugncpv'eqwf " r qvvpkcmf 'ugg'r tgo cwtg'ugncpv'hkntg0Hqt 'ukleqpg'ugncpv."39'ucvgu"*: 7' +wug'c'tgeguugf 'hkn' hqt'vj gkt'ukleqpg'ugncpv.'y j lej 'i qgu'y kj 'vj g'CERC'tgego o gpf cvkpu]46_0

605''Lqkv'Rt gr ct c vkqp

Vj g'tgur qpugu'v'vj g'uwtxg{ 'kpf kecvg'vj cv'lqkv'engcpki 'r tqegf wtu'xgt { 'dgy ggp'ucvg'F QVu00 quv' ucvgu'kpf kecvg'vj cv'c'eqo dlpckv'qh'ck'drcukpi . 'y kg'dtwuj kpi . 'cpf kt'ucpf drcukpi 'ku'tgs wktgf 'vq" engcp'vj g'lqkv.'j qy gxgt. 'k'ku'pqvgf 'vj cv'vj g'r tcevek'ug'cpf 'ur gekh'ekv'kpu'qh'engcpki 'xct { 'Itqo 'ucvg' vq'ucvg'0'k' uqo g'kpuv'pegu. 'vj g'ucvg'cmjy u'vj g'eqpvtcevqt'vq'f gvgto kpg'vj g'engcpki 'r tqegf wtg' y kj qw'cp{ " cr r tqxn'ltqo 'vj g'ucvg'F QV0J qy gxgt. "o quv'ucvgu"*4; "ucvgu'+tgs wktg'c" xkuwn' kpur gev'kpv'qh'vj g'lqkv'r tkqt'vq'ugncpi 0Qpn{ 'vj g'P gxc'c'F QV'o cpf cvgu'vj g'CERC'S wcrk{ 'Eqpvtqn' Y kr g'Vguv'v'f gvgto kpg'vj g'engcpkpu'qh'vj g'lqkv.'y j kg'9'qy gt'ucvgu'tgs wktg'c'hkpi gt'v'guv'vj cv'ku" uko krt'vq'vj g'S wcrk{ 'Eqpvtqn'Y kr g'Vguv']46_0

Cu'r t'gkxkwun{ 'f guetkdgf . 'k'ku'etk'kcn'vj cv'vj g'lqkv'ku'f t { 'r tkqt 'vq' r mego gpv'qh'vj g'ugncpv'0' Ucv'F QVu'f'q'p'v'v'f' r kec'ur gekh{ 'c'vko g'p'ggf gf 'hqt'vj g'lqkv'v'f t { . 'cpf 'uq'eqpvtcevqtu'f gvgto kpg' y j gp'vj g'lqkv't'gugtxqk'ku'uw'h'ekgpv'f t { 0'Qh'vj g'ucvgu'y j q'tgur qpf gf . 'qpn{ 'ugxgp'ucvg'F QVu" tgs wktg'ugncpi 'vq'qee'w'y kj kp'uk'j' qwtu'qh'engcpki 'qr gtcvkpu0J qy gxgt. "45'ucvgu"*94' +j cxg" uqo g'y c{ " qh'ej genkpi "hqt"o qk'w'g' dghqtg'cmjy kpi "vj g'eqpvtcevqtu'vq" r gthqto "vj g'ugncpi " qr gtcvkpu]46_0

Uwtt { "xcewo "gs wkr o gpv'j cu'dggp"cf qr vgf "d { "vj g'ck'h'gr "r cxgo gpv'kpf wut { "vq"r tqxkf g" y qtngtu'tgur kcvqt { 'r tqgev'kpv'ltqo 'vj g'et { ucnc'k'g'uk'k'c'f wv'etgcv'f'ltqo 'vj g'f'k'gf 'ucy 'uwtt { 0'K' cnuq'j cu'vj g'cf f'g' dgpghk'qh'tgo qxkpi 'vj g'uwtt { 't'guk'f'wg'ltqo 'vj g'r cxgo gpv'uwthceg'cpf 'cu'y gmi' cu'uo g'ltqo 'kp'vj g'lqkv'0'Xcewo kpi 'cmjy 'y kj 'vj g'r tguw'g'y cuj kpi 'qr gtcvkpv'r tkqt'vq'vj g'o gf k'c' drcukpi 'qr gtcvkpv'ecp'cnuq'dg'dgpgh'ekcn'p'q'v'q'pn{ 'ltqo 'c'y qtngt'uch'v'f' r g'ur gev'kxg'dw'k'p'cej k'xkpi " c'engcp'lqkv']7_0

606''Ugcnpv'Rgt hqto cpeg

O quv'ucvgu'j cxg'h'w'g'tgr qtvgf 'kphqto cvkqp'tgi ctf kpi 'm'pi /v'gto 'ugncpv'r gthqto cpeg0Hqt'gzco r ng." 36" cpf "33'ucvg'F QVu'ctg' wpuw'g'qh'vj g'r gthqto cpeg'qh'vj gkt'cur j cn'cpf "ukleqpg'ugncpv." t'gur gev'kxgn{ . 'kp'vj gkt'ucvg'0'J qy gxgt. "cm'ucvgu." gze'gr v'qpg." vj cv'y g'g'cy ctg'qh'vj gkt'ugncpv' r gthqto cpeg'kpf kecvg'vj cv'dqvj "cur j cn'cpf "ukleqpg'ugncpv'ctg"i gw'kpi "cv'rgcu'ugxgp" { gctu'qh' r gthqto cpeg. 'cpf 'y q'ucvgu'tgr qtvgf "q'xgt'37" { gctu'qh'r gthqto cpeg0Vj gug't'guw'u'kpf kecvg'vj cv'vj g' ugcnpw'ctg't'gej kpi 'vj gkt'g'zr gev'f'f'guki p't'h'g'hqt'uo g'ucvg'F QVu']46_0'K'x'g'uki cvkpi 'j qy 'vj gug' ucvgu'ugcn'y qwf "dg'dgpgh'ekcn'hqt'vj g'f'guki p'cpf 'kpuv'c'vkpv'qh'lqkv'ugncpv'o cv'g'kcn'0

Ucv'F QVu'y g'g'cnuq'cungf 'j qy 'vj gkt'ugncpv'h'knf'0Hqt'cur j cn'cpf "ukleqpg'ugncpv." vj g' o ckp'f'k'w'gu'ku'f'gdqpf kpi "cpf "cf j gu'kxg'h'knw'g." y kj "lwu'q'xgt'j'cni'vj g'ucvgu'vj cv't'gur qpf gf " g'zr g'k'g'p'kpi "vj ku'v'f'g'qh'h'knw'g'hqt'vj gkt'ugncpv'0'E'qj gu'kxg'h'knw'g'cpf "ci kpi "ctg'vj g'ugeqpf " j ki j guv'h'knw'g'v'f'g'*59' +: 'cpf 'f'kur mego gpv'qh'vj g'ugncpv'ku'vj g'v'k'f'j ki j guv'h'knw'g'v'f'g'*; ' + hqt'cur j cn'ugncpv'0J qy gxgt. 'ukleqpg'ugncpv'g'zr g'k'g'peg'o q'g'f'kur mego gpv'h'knw'g'*49' +'vj cp' eqj gu'kxg'h'knw'g'*42' +0'Rt'ghqto gf "ugcu'o ckpn{ "g'zr g'k'g'peg'f'kur mego gpv'f'wg'vq'g'zegu'kxg'lqkv' qr g'k'kpi 'cu'vj g'o ckp'h'knw'g'o qf g']46_0

60''O ckwpcpeg'cpf 'Tgucnpi 'Rtcevlegu'

94' "qh'ucvqu'f q'tgucn'vj gk'r cxgo gpv'lqkpw."dw'vj gug'ucvqu'y gtg'wpcdng'vq'ur gekh' "c'tgucnpi " vko grkpg'0'k' "cf f kklqp."o quv'ucvq'F QVu'f q'pqv'j cxg'gucdrikuj gf "tgeqo o gpf ckwqpu"qp"y j gp"vq" r gthqto "o ckwpcpeg'hqt'lqkpv'ugcncpw'j46_0'Vj ku'eqwf "j cxg'c'pgi ckwg'ko r cev'qp"vj g'rapi /vgt o " r gthqto cpeg'qh'vj g'r cxgo gpv'dgecvug"kv'j cu'dggp"uj qy p"vj cv'pqv'o ckwcklpi "cp'ghgevwg'ugcn' eqwf 'hgc'f "vq"o qtg'cpf "o qtg'ugxgtg'lqkpv'f kwt guugu'eqo r ctgf "vq'wpucngf "r cxgo gpv'lqkpw'j62_0

60''Cngt pcvkg'Ugcnpi 'O gjv qf u

P kpg"ucvq'F QVu'tgr qtvgf "wug"qh'cngt pcvkg'r tcevlegu'hqt "ugcnpi "lqkpw"kwvgcf "qh'wulpi "y j g" vcf kklqpcn'lqkpv'tgugtxqk'eqphk' wcvkqp'0'Hqwt'ucvqu'qpn' "wug'cngt pcvkg'cpf "f q'pqv'ugcn"y j gtg" vj g'qyj gt'hkg'ucvqu'wug'cngt pcvkg'cpf "ugcn'vj g'r cxgo gpv'lqkpw'0'Uqo g'cngt pcvkg'lqkpv'ugcnpi " r tcevlegu'ctg'r t gupvgf 0C'hgy 'ucvqu'wug'c'ulpi ng'ucy "ew'cpf "f q'pqv'hkm'vj g'lqkpv'cv'cn'0'Qpg'ucvq' eqpukf gtu'vj go ugrku'c'ulpi ng'ucy "ew'ucvq."dw'vj g' "cnuq'tgs wktg'vj g'wug'qh'c'ego gpv'tgcvgf "dcug'0' Qpg'ucvq'wugu'c'20847'kp'lqkpv'y kf vj "ew'vq'qpg"vj kf "vj g'urcd"vj kempguu'y kj qw'hkncpi "vj g'lqkpv' y j gp"vj g'ur ggf "hko k'ku'i tgcvtg'vj cp'67"o r j 0Cpqvj gt'ucvq'wugu'vj g'31: "kp'0'lqkpv'y kf vj "ew'vq'qpg" vj kf "vj g'f gr vj "qh'vj g'r cxgo gpv'vj kempguu."dw'vj g'lqkpv'ku'hkngf "y kj "cp'cur j cn'ugcncpw'0'Vj gtg'y cu' pq'eqo o gpv'qp"vj g'ur ggf "hko k'htqo "vj ku'ucvq'j46_0

7''0'Vq'Ugcnht 'Pqv'vq'Ugcn

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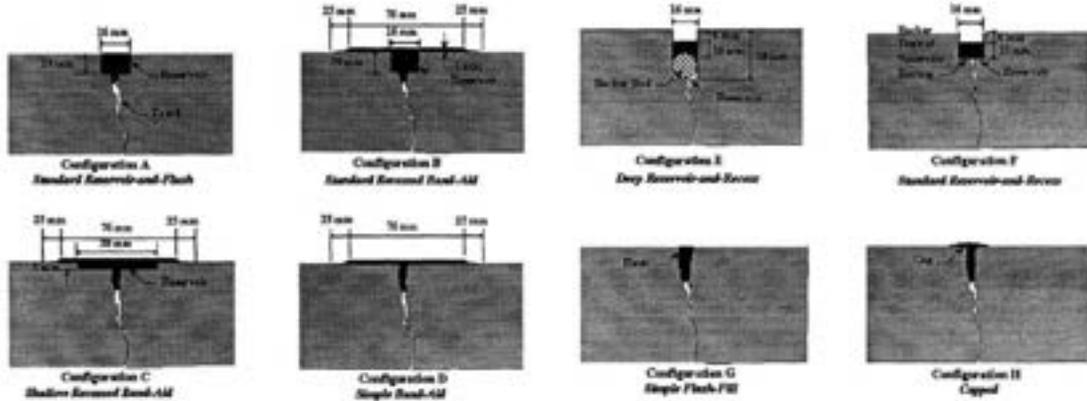
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Kp " v j g " U R U / 4 " u w f { . " v j g " r t k o c t { " o q f g " q h " u g c r p v " h c k m t g " y c u " c f j g u k x g " h c k m t g " q h " v j g " u g c r p v . " c p f " v j g " o q u v e q o o q p " l q k p v f k u t g u u " y c u " u r c m k p i 0 Q p " c x g t c i g . " c f j g u k x g " h c k m t g " q p n { " c e e q w p v g f " h q t " 7 " q h " v j g " l q k p v " h c k m t g " y j k r g " e q j g u k x g " h c k m t g " y c u " o k p o c i 0 k p " c f f k k q p . " u r c m k p i " q e e w t t g f " c v 8 7 " " q h " v j g " l q k p w " k p " v j g " v g u v " u g e v k q p 0 V y q " e q p e t g v g " u t g p i v j u " y g t g " v g u v g f " c v " v j g " U R U / 4 " n e c v k p p " c p f " v j g " p q t o c n " u t g p i v j " e q p e t g v g " j c f " 4 0 6 " v k o g u " o q t g " u r c m i " v j c p " v j g " j k i j " u t g p i v j " e q p e t g v g . " k p f k e c v k p i " e q p e t g v g " u t g p i v j " e q w f " d g " c " h c e v q t " v j c v t g f w e g u " l q k p v f k u t g u g u 0 G x g p " c u " u r c m k p i " q e e w t t g f . " k v y c u " q d u g t x g f " v j c v " v j g " u g c r p v " y c u " u k m " c f j g t g f " v q " v j g " u r c m g f " e q p e t g v g . " u k i p e r k p i " c f j g u k x g " h c k m t g " f k f " p q v " q e e w " d g h q t g " v j g " l q k p v " u r c m g f "] 5 3 _ 0 V j k u " u w f { " u w i i g u u " v j c v " u k r e q p g " u g c r p v " e c p " r c u v " q x g t " 4 2 " { g c t u " c p f " v j c v " v j g " r c x g o g p v " u t g p i v j " e q w f " d g " c " h c e v q t " y j g p " e q p u k f g t k p i " l q k p v " u r c m k p i 0

Vj g " W U U " C t o { " G p i k p g g t " T g u g c t e j " c p f " F g x g n r o g p v " E g p v g t " c p f " E t c h e q . " k p e 0 " u g v " q w " v q " f g x g n r " u r g e k h e c v k p p " v q " k o r t q x g " j q v c r r k g f . " l g v " h w g n " t g u k u c p v " c p f " p q p / l g v " h w g n " t g u k u c p v " c u r j c n " u g c r p w u 0 V j g " u w f { " c n u q " c l o g f " v q " f g v g t o k p g " j q y " v j g " e q p h i w t c v k p p . " u j c r g " h c e v q t " c p f " t g e g u k q p " f g r v j . " q h " v j g " l q k p v " u g c r p v " k p " v j g " l q k p v " t g u g t x q k " k o r c e v g f " h k r n f " r g t h q t o c p e g 0 V j g " u w f { " v q q n l r n e g " c v " v j g " H c k e j k f " C k " H q t e g " D c u g " k p " U r q n e p g . " Y C 0 V j k u " v g u v " u k g " y c u " u g r e v g f " d g e c w u g " q h " v j g " r c t i g " v g o r g t c w t g " u y k p i u " y k j k p " v j g " t g i k p p = " v j g " g z v t g o g " m y " c p f " j k i j " v g o r g t c w t g u " c t g " / 5 2 Å H " c p f " 9 2 Å H " t g u r g e v k x g n { 0 V j g " r c t i g " v g o r g t c w t g " u y k p i " g p u w t g f " c o r n g " l q k p v " o q x g o g p v " c p f " x c t k q w u " o c v g t k e n " r t q r g t v { " e j c t c e v g t k u k e u " q h " v j g " l q k p v " u g c r p v " v j t q w i j q w v " v j g " { g c t "] 5 4 _ 0

Vj g " u w f { " g x c n e v g f " r c x g o g p v " v g u v " u g e v k q p " c v " 7 : / . " 8 : / . " 3 3 9 / . " c p f " 4 7 2 / o q p v j u 0 C v " v j g " 3 3 9 / " o q p v j " g x c n e v k q p . " v y q " c u r j c n " u g c r p w u " c p f " h q w " u k r e q p g " u g c r p w u " y g t g " u k m k p " y q t n k p i " e q p f k k q p u " c p f " j c f " p q v " o g v " v j g " 4 7 " " h c k m t g " e t k g t k c 0 k y c u " c n u q " p q v g f " k p " v j g " 4 7 2 / o q p v j " g x c n e v k q p " v j c v " v j g " c u r j c n " u g c r p w u " v r k e c m f " h c k r g f " k p " c f j g u k q p " y j k r g " v j g " u k r e q p g / d c u g f " u g c r p w u " h c k r g f " f w g " v q " l q k p v " u r c m k p i . " y j k e j " k u " e q p u k u g p v " y k j " r t g x k q w u " h k p f k p i u 0 H n u j " h k m g f " c u r j c n " u g c r g f " l q k p w " r t q f w e g f " c p " k p e t g c u g " k p " u g c r p v " u g t x l e g " r k h g " q h " 7 2 " " e q o r c t g f " v q " v j g " t g e g u g f " c u r j c n " u g c r g f " l q k p w " y j g p " g x c n e v g f " c h g t " 4 7 2 " o q p v j u 0 D q y " u k r e q p g " c p f " m y / o q f w w u " c u r j c n " u g c r p w u " y k j " h n u j " i g q o g t { " g z j k k k g f " i t g c v g t " v j c p " 4 3 " { g c t u " q h " r g t h q t o c p e g " y k j q w " o g g v k p i " v j g " h c k m t g " e t k g t k c 0 V j g " h k p f k p i u " k p " v j k u " u w f { " k p f k e c v g " m p i g t " r g t h q t o c p e g " q h " l q k p v " u g c r p w u " y k j " h n u j " h k m g f " c u r j c n . " y j k e j " u w r r q t w u " v j g " t g e q o o g p f c v k p p " o c f g " d { " C E R C " v q " p q v e q p u t w e v t g e g u u " h k m g f " l q k p w 0 0 q u v " u g c r p w u " h c k r g f " f w g " v q " c f j g u k q p " c p f l q t " u r c m k p i " c v " v j g " 4 7 2 / o q p v j " g x c n e v k q p "] 5 4 _ 0

Qv g t " u w f l g u " j c x g " f g v g t o k p g f " v j c v " c u r j c n " u g c r p w u " j c x g " v j g " r q v g p v k e n " h q t " m p i " u g t x l e g " r k h g "] 6 4 _ 0 V j g " H J Y C " h q w p f " q x g t " 9 7 " " g h h g e v k x g p g u u " y j g p " v j g " l q k p v " u g c r p v " y c u " g x c n e v g f " c v " 3 4 2 " o q p v j u 0 V j g " g h h g e v k x g p g u u " q h " v j g " l q k p v " u g c r p v " f g r g p f g f " q p " v j g " o c p w h c e w t g t . " t g u g t x q k t " e q p h i w t c v k p p . " e n k o c v k e " e q p f k k q p u . " c p f " l q k p v " o q x g o g p v] 6 4 _ 0 V g u u " y g t g " r g t h q t o g f " k p " h q w t " n e c v k p p u " k p " v j g " W p k g f " U c v g u " v q " g x c n e v g " t e p u x g t u g " l q k p v " u g c r p w u 0 V j g u g " c t g c u " t g r t g u g p v " v j g " h q w t " h w p f c o g p v e r k o c v k e " t g i k p u " q h " C o g t k e c . " f t { / p q p l t g g l g . " f t { / h t g g l g . " y g v p q p l t g g l g . " c p f " y g v h t g g l g 0 Q p g " u k g " r n e g f " v j g " l q k p v " u g c r p v " k p " k f g e n " c p f " c f x g t u g " e q p f k k q p u " v q " v g u v " v j g " g h h g e v " q h " c o d l g p v " y g c v j g t " e q p f k k q p u " q p " v j g " l p k k e n " u g c r k p i " q r g t c v k p p 0 k p " c f f k k q p . " w r y c t f u " q h " 3 2 " f k h g t g p v o c v g t k e n " y g t g " w u g f " c v " g c e j " n e c v k p p " v q " v g u v " v j g " x c t k c d k r k v { " q h " v j g " u g c r p v " f w g " v q " v j g " o c p w h c e w t g t 0 k p " v j k u " u w f { . " g k i j v " f k h g t g p v " t g u g t x q k t " e q p h i w t c v k p p u " y g t g " g x c n e v g f . " c u " f g r k e v g f " k p " H k i w t g " C 6 0 U g x g p " f k h g t g p v " r t g r c t c v k p p " r t q e g f w t g u " y g t g " w u g f . " k p e n m f k p i " p q " e r g c p k p i . " y k t g " d t w u j " c p f " c k " d r u v g f . " j q v " c k " d r u v g f . " c k " d r u v g f . " c k " d r u v g f " y k j " d c e n g t " t q f . " u c p f d r u v g f " c p f " d c e n g t " t q f . " q t " u c p f " d r u v g f " c p f " d c e n g t " v c r g "] 6 4 _ 0



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C'uwwf { "y cu'r gthqto gf "d{ "P F F QV"vq'f v'g'to k'p'g'h'lqkv'ugcrkpi "ku'p'geguuct { "hqt"nqpi "v'g'to " eqpet'g'v' r cxgo gpv'r gthqto cpeg'0'P F F QV" ku' ewt'gpw' { "gzr g'k'o gpv'kpi "y kj "pqv'ugcrkpi "lqkvu" d'gecv'g'vj g'ucv'g'j cu'q'dugtxgf "c"j ki j "pwo dgt"qh'lqkv'ugcrpv'h'k'nt'g."r tqo r v'kpi "vj g'F QV"vq' eqpu'k'gt "h'vj g'equ'vq'ugcr' r cxgo gpv'lqkvu'ku'geq'p'qo k'ecm' { "dgp'gh'ek'c'f'0'W'p'ug'c'ng'f "eqpet'g'v' r cxgo gpv' ugev'k'qpu'y gtg'eqpu'w'egf "d{ "P F F QV"cv'h'qwt "vuv'uk'gu'kp'3; ; 9'cpf "y gtg'g'x'c'nc'v'g'f "g'ce'j " { gct "hqt"

32" { gctuo' F wtkpi " gcej " { gctn{ " gxcnvcvkqp." vj g" f gr ctwo gpv' o qpkqtgf " cpf " tgeqtfgf " vj g" lqkp' f kvtguugu. tkf g's wcrk{ . 'co qwpv'qh'kpeo r tguakdrgu'kp'vj g'lqkpw."cpf 'kh'kpeo r tguakdrgu'ctg'hkngt gf " vj tqwi j "vj g'r cxgo gpv'f tckpci g'u{ ugo 0Vj g'wpugcrnf "lqkpw'j cf "c'2047'kp"ucy "ew'vq"cf f gr vj "qh' qpg'vj kf "qh'vj g'vj kempgu'qh'vj g'eqpetgv'r cxgo gpv']65_0

Vj g'uwf { "eqpenf gf "vj cv'dqvj "vj g'ugcrnf "cpf "wpugcrnf "lqkpw'gZR gtkepegf "vj g'uco g'v{ r gu'qh' f kvtguugu. 'dw'vj g'wpugcrnf "r cxgo gpv'lqkpw'gZR gtkepegf "o qtg'ur cnkpi . "cpf "ur cnkpi "qewttgf "cv'c" y qtug'f kvtguu'ngxgr'0Hqt "gzco r ng. "qpg'v'guv'ugevkqp'htqo "vj ku'uwf { "gZR gtkepegf "ur cnkpi "kp'940 ' " qh'ku'wpugcrnf "lqkpw'cpf "qpn{ '4205' "qh'ur cnkpi "kp'ku'ugcrnf "lqkpw'0kpeo r tguakdrgu'y gtg'hqwpf " kp'vj g'vcpuxgtug'lqkpw'qp'vj g'ncpg"cpf "uj qwf "lqkpw'0J qy gxgt. "vj g'y j ggn'r cvj "eqpukv'pwn{ "j cf " nguu'kpeo r tguakdrgu'kp'vj g'lqkpw'0Vj ku'ku'o quv'ikngn{ "f wg'vq'vj g'vtchke "f kurf i kpi "vj g'kpeo r tguakdrg' kp'vj g'lqkp'cv'vj g'y j ggn'r cvj 0K'y cu'pqv'dngxgf "vj cv'vj g'kpeo r tguakdrgu'y gtg'chgevkpi "vj g' f tckpci g'cv'o quv'v'guv'ugevkpw'0J qy gxgt. "ukpeg" P F F Q V "ku'wulpi "hgy gt"cpf lqt "uo cmgt "f tckpci g' u{ ugo u'y kj "gcej "pgy "f guki p. "vj g'uwf { "dngxgf "vj cv'ugcrkpi "vj g'lqkpw'y qwf "ukm'dg'dgpg'hkcn' vq'j gr "r tngxgpv'y cvgt'htqo "gpvgtkpi "vj g'r cxgo gpv'u{ ugo "cpf "r tngxgpv'vj g'ceengr'cvkqp'qh'ur cnkpi "]65_0

704'P qv'vq'Ugen

Vj ku'ugevkqp'f kuewugu'tngxcpv'rkgtcwtg'qp'pqv'ugcrkpi "eqpetgv'r cxgo gpv'lqkpw'0Vj g'HI Y C"cpf " Qj kq'F gr ctwo gpv'qh'Vtcur qtvcvkp'f gxgnr gf "cp"gzr gto gpv'vq'v'guv'vj g'r gthqto cpeg'qh'xctkqwu" lqkp'ugcrpw'kp'vcpuxgtug'lqkpw'qh'eqpetgv'r cxgo gpv'tqcf u'0Vj ku'uwf { "y cu'y q" { gctu'rqi . " f wtkpi "y j lej "vko g" y q" ugr ctcvg" gxcnvcvkpu" y gtg" o cf g" qp" vj g" r cxgo gpv' r gthqto cpeg'0Vj g" r cxgo gpv'y cu'eqputwv'gf "kp'C'vj gpu. "Qj kq. "vq'v'guv'y gv'htgg{ g'erko cvg'ko r cev'qp'lqkp'ugcrkpi 0Vj g" r tq'gev'ku'vq'eqo r ngo gpv'uko krt "ugevkpw'eqputwv'gf "hqt"vj g'Ur gekhke "Rcxgo gpv'Uwf { "URU+d { " vj g'Utcv'gi le'J ki j y c{ "Tugctej "Rtqi tco "UR TR+"44. '45_0

Chgt "cdqww'qpg" { gct'qh'vj g'r mego gpv'qh'vj g'ugcrpw. "o quv'qh'vj g'cur j cn'cpf "ukr'eqpg'ugcrpw" y gtg'kp'hck'vq'r qat "eqpf k'kqp"cpf "f kur n{ gf "uki p'k'kecpv'hwmf gr vj "cf j gukqp'hckwtg'0J qy gxgt. "k' y cu'ucv'gf "vj cv'vj cv'vj gtg" y gtg"eqpetgtpu" y kj "vj g"lqkp'r tgr ctcvkp. "cu'ucpf d'urkpi "y cu'pqv' r gthqto gf. "y j lej "r qv'p'kcm{ "ngn'f gdtku"qp'vj g'hceg'qh'vj g'tgugtxqk"44_0I wlc"gv'cn'eqphko gf " vj cv'lqkp'r tgr ctcvkp'ku'qpg'qh'vj g'o quv'ko r qtv'hcevqtu'tgi ctf kpi "vj g'cf j gukxg'utgpi vj "qh'vj g'ugcrpw"]49_0Ukpeg'vj g'lqkpw'y gtg'pqv'r tqr gtn{ "r tgr ctf. "vj g'hwmf gr vj "cf j gukqp'hckwtg'hqt "QF QV'eqwf " dg"eqp'v'kdwgf "vq'vj g'wpcgcp'lqkp'vcy gt'vj cp'vj g'ugcrpw'v'kugr'0E'eqpetgtpu'hqt "lqkp'ugcrkpi "ctkug" dgecv'wg'k'ku'y qttkuo g'vj cv'vj g'r mego gpv'qh'vj g'ugcrpw'kp'vj ku'v'guv'ugevkp'r quakdn{ "tgr t'gugpw'vj g' pqto cn'ugcrkpi "eqpf k'kqp'eqp'v'cevqtu'ugcrkpw"44_0

Cpqj gt "rko kcvkqp" hqt "vj g' cur j cn' cpf "ukr'eqpg'ugcrpw" y gtg" vj cv' vj g'ugcrpw" y gtg" pqv' tgeguugf "r tqr gtn{ 0Htqo "Mko "gv'cn'HGO "uwf { . "k'y cu'f gv'to kpgf "vj cv'vj g'uj cr g'hcevqt"cpf "f gi tgg" qh'ewt'xcwtg'ctg'ko r qt'v'p'hcevqtu'kp'tgf wtkpi "vj g'utguu'cpf "utckp'y kj kp'c'ugcrpw"]42. "59_0K'y cu' cmq'pq'v'egf "vj cv'uo cm'lqkp'v'y kf vj u'gZR gtkepegf "o qtg'ugcrpw'hckwtg'f wg'vq'vj g'ugcrpw'v'qxgthqy kpi " qw'qh'vj g'lqkp'cpf "vj g'vtchke "f gv'tkqt'cvkpi "k']44_0Vj ku'eqwf "dg'f wg'vq'gzeguukg'lqkp'vo qxgo gpv' kp'vj g'y cto "o qpj u'vj cv'f kur n'egf "vj g'lqkp'ugcrpw'qt'ko r tqr gt'uj cr g'hcevqtu. "y j lej "go r j cuk' gu" vj g" ko r qt'v'peg" qh' wpf gtucpf kpi " lqkp' o qxgo gpv' cpf " uj cr g" hcevqtu" hqt " lqkpw" kp" eqpetgv" r cxgo gpw0

Kp'eqo r ctkuqp'vq'vj g'cur j cn'cpf "ukr'eqpg'ugcrpw. "vj g'eqo r tguakp'ugcrpw'cpf "wpugcrnf "lqkpw" y gtg'kp'xgt { "i qaf "eqpf k'kqp. "cpf "vj g'ugevkpw'cv'y j lej "vj g{ "y gtg" r megf "f kur n{ gf "o k'pko cn' f kvtguu'0Vj g'wpugcrnf "ugevkpw'gZR gtkepegf "pq'ur cnkpi . "dnjy wr u. "qt "mqu'qh'uwr r qt'0K'cf f k'kqp. " qvj gt'wpugcrnf "v'guv'ugevkpw'htqo "vj g'URU'y gv'htgg{ g'tgi kqp'cmq'gzr gtkepeg'pq'lqkp'v'f kvtguugu'qt"

mquu'qh'uwr r qtv'f wtkpi "vj gk" gxcnvcvkppu0Vj g'y q/{ gct "gxcnvcvkp"qh'vj g'r cxgo gpv'vuv'ugevkppu" eqphkto gf "vj g'tguwnu'qh'vj g'qpg/{ gct "gxcnvcvkp."cu'lwuv'f kuewugf "J45_0K'y cu'eqpenmf gf "vj cv'vj g" wpugcrgf "r cxgo gpv'lqkpw'uj qwrf "eqpvkpwg"vq"dg" gxcnvcvgf "d{ "tgugctej gtu'dgecwug"kh'vj gtg"ku"pq" pgi cvkxg"ko r cev"qp"r cxgo gpv'r gthqto cpeg"y kj "wpugcrgf "lqkpw."ngcxkpi "vj g'r cxgo gpv'lqkpw" wpugcrgf "ku'c'equv'ghgevcnrgtpcvkxg'f guki p"J44_0J45_0

Y kueqpukp" F gr ctwo gpv'qh' Vtcur qtvcvkp" j cu" dggp" uwf { kpi "vj g" ghgevu" qh'ugcrgf "xgtuwu" wpugcrgf "eqpetvg'r cxgo gpv'lqkpw' hqt "qxgt"72" { gctu0C hgt " { gctu'qh'tgugctej . "Y kuF QV" eqpenmf gf " vj cv'ugcrgf "r cxgo gpv'lqkpw' j cf "pq" r qukkxg"ko r cev"qp"r cxgo gpv'r gthqto cpeg0Vj wu. "vj g" uvcv' F QV" gno kpcv'gf "cm'eqpetvg'r cxgo gpv'lqkpw'ugcrgf "qr gtcvkppu'lp"3; ; 20Hqt" c"v' r kecn{ gct. "Y kuF QV" y cu" r c{ kpi "crr r tqzko cvgn "&40 "o knkqp"qp"ugcrgf "pgy "eqpetvg'r cxgo gpv'lqkpw"cpf "&50"o knkqp"qp" tg/ugcrgf "qf" r cxgo gpv'lqkpw'0Ukpeg"ugcrgf "lqkpw"r tqxkf gf "pq" r qukkxg"ko r cev"qp"r cxgo gpv' r gthqto cpeg. "Y kuF QV" uvcv' "&8"o knkqp" f qmctu'cppwcm{ "d{ "pqv'ugcrgf "r cxgo gpv'lqkpw. "y j ke j "ku" cmqecv'gf "vq"qj gt'r tqlgevu'vq"ko r tqxg'wugt' tkf g's wcrk{ "cpf "gzr gkgepeg"J43_0

Vj gtg" ctg" uqo g" nko kcvkppu" vq" vj g" Y kuF QV" gxcnvcvkp" qp" wp/ugcrgf "lqkpw'0 Uj qtv'vgtu" r cxgo gpv'r gthqto cpeg'f cv'y cu'gz vcr qrcv'gf "vq" gxcnvcv' hpi "vgtu" r cxgo gpv'r gthqto cpeg'tguwnu" cpf "eqpukf gtgf "hckrgf "lqkpw'ugcrgf"cu'y qtnkpi "lqkpw'ugcrgf"J66_0J qy gxgt. "dqj "vj g" HJ Y C" cpf " O pF QV" gxcnvcvgf " vj g" r cxgo gpv' ugevkppu" cpf " eqpenmf gf " vj cv' vj g" Y kuF QV" hpf kpi u" y gtg" tgcuaqpcdr" cpf " vj cv' ugcrgf " r cxgo gpv' lqkpw" f kf " pqv" ko r tqxg" vj g" r cxgo gpv' r gthqto cpeg" kp" Y kueqpukp"J43_0

Vj g" WU' F gr ctwo gpv'qh' Vtcur qtvcvkp" hwpf gf "c" lqkpw'ugcrgf" uwf { 0' C" vqvcn'qh"339" vuv' ugevkppu" y gtg" kpuvcmgf " dgw ggp" Ctk qpc. "Eqmtef q. "Hmktf c. "I gqti kc. "Kkpkqu. "Kpf kpc. "Kqy c. " O kppguqc. " P gy [qtm" Qj kq. " cpf " Y kueqpukp'0' Cur j cn/dcugf " cpf " ukreapq/dcugf " ugcrgf. " r tghqto gf "ugcu. "cpf "wpugcrgf "r cxgo gpv'lqkpw' y gtg'wugf "lp"vj g' uwf { 0' Vj g' r cxgo gpv'vuv'ugevkppu" y gtg'vj gp" gxcnvcvgf "hqt"cp{ "r cxgo gpv'f kumguugu'0Hqo "vj g" eqmgevgf "f kumguu" f cv. "vj gtg" y cu"pq" uki p hiecpv'f khgt gpeg'lp" r cxgo gpv'r gthqto cpeg' dgw ggp" vj g' ugcrgf "cpf "wpugcrgf "ugevkppu"J35_0

Cr r gpf lz 'D0Ugcnpv'Hlgrf 'Rgt hqt o cpeg'T gxlgy

3'Ø'Ipvt qf wevkqp

Vj g"r wtr qug"qh"vj ku"uwf {"y cu"vq" gxcnvcg"vj g"ghgev"qh"lqkv"ugcnpv'r gthqto cpeg"qp"vj g" r gthqto cpeg"qh"lqkv" r rclp"eqpetgv" r cxgo gpv" *LRE R+u" wukpi "f knt guu" uwt xg {"t guwmu' lqkv" ugcnpv" eqpf kxqp" ku" pqv" f k gev" " cuugugf " f wtkpi " v{ r kecn' f knt guu" uwt xg { u0' Vj gt ghqtg. " f knt guu" f gxgr o gpv"vj cv'ecp"dg"cuuqekvcg" y kj " r qqt"ugcnpv'r gthqto cpeg"y cu" gxcnvcg" 0'Vj g'f knt guugu" vj cv"cv'ko gu."ecp"dg"cv'rcuv'r ct vcm {"cwt kdwgf "vq" r qqt"lqkv"ugcnpv'r gthqto cpeg" kpenmf g"lqkv" ur cmkpi ." hewmki ." cpf " dmry w u0' Wphqt wpcvgn. " dmry w " f knt guu" f cv" ku" pqv" kpenmf gf " kp" vj g" r gthqto cpeg" f cvdcugu" hqt" vj g" ci gpekgu" eqpvtkdwkpi " f cv" cpf " vj gt ghqtg" y cu" pqv' eqpukf gtgf " kp" vj ku" cpcnf uku' Gcej " f knt guu" y cu" gxcnvcg" y kj " t gur gev" vq" r cxgo gpv' f guki p" r ctco gvgtu. " mjevkvqp" qh" r cxgo gpv' ugevkqp. " pwo dgt" qh" { gct u" kp" ugt xleg. " cpf " eqput wevkqp" ci g0' Et k kecn' r ctco gvgtu" y gtg" kf gpv' hkgf " dcugf " qp" vj g" utgpi vj " qh" vj gk " eqttgrvkvqp" y kj " f knt guu" f gxgr o gpv0

4'Ø'F guet lr vkqp' qh' F cvdcugu

Rgt hqt o cpeg" f cv" y cu" r tqxkf gf " d {" vj g" Rgppu { krcpk" F gr ctwo gpv' qh" Vtcur qt vkvqp" *RgppF QV+ " cpf " Rgppu { krcpk" Vwtr kng0' F cv" htqo " Cmgi j gp {" Eqwpv {" y cu" pqv' cxckrdrg" hqt" kpenwukqp" kp" vj ku" cpcnf uku' 0' Vj g' f cvdcug" r qr wcvgf " y kj " RgppF QV" f knt guu" f cv" eqpukv" qh" 58.7; 6" qdugt xcvkpu" y kj " gcej " f cv" r qkv'tgr tguvpkpi " c' ukpi ng" ugevkqp" qh" tqcf y c { 0C " vq' vcl' qh" 947' f khtg gpv' ugevkpu" qh" tqcf y c {" y gtg" tgr tguvpv" 0' F knt guu" f cv" kpenmf gf " r gpi vj " qh" eqpetgv" twkpi . " pwo dgt" qh" lqkv" ur cmgf . " cpf " pwo dgt " qh" lqkv" hewmki " cv' xctkwu" r xgnu" qh" ugxgtkv' 0' Vq" gxcnvcg" f knt guu" f gxgr o gpv" cu" " hpevkqp" qh" ugcnpv'r gthqto cpeg. " vj g" RgppF QV" f cvdcug" y cu" hkvgtgf " vq" qpn {" kpenmf g" qdugt xcvkpu" htqo " y j gp" vj g" r cxgo gpv' y cu" eqput wevgf " wvki' y j gp" vj g" hkv' tgr ckt" y cu" r gthqto gf 0' Vj ku" y cu" f qpg" vq" gpwvtg" qdugt xcvkpu" y gtg" pqv' kpenmf gf " y j gtg" ugcnpv' y cu" tgr nregf 0' Ugevkpu" vj cv' j cf " eqpetgv" r cxgo gpv' t guqtcvkvqp " *ERT + " r gthqto gf " y gtg" kf gpv' hkgf " kp" c " ugr ctvcg" f cvdcug" qh" r cxgo gpv' j kvqt {" . y j lej " y cu" cnq" r tqxkf gf " d {" RgppF QV0' Chgt" gko kpcvki " r gthqto cpeg" f cv" qdvcvkgf " chgt " ERT. " vj g" RgppF QV" f cvdcug" eqpukv" qh" 4: . 7: 4" qdugt xcvkpu0

C' f cvdcug" qh" 3.; 74" qdugt xcvkpu" y cu" r tqxkf gf " d {" vj g" Vwtr kng0' Gcej " qdugt xcvkqp" eqpvkpgf " f knt guu" uwt xg {" kphqto cvkqp" hqt " c' ukpi ng" ugevkqp" qh" tqcf y c {" eqmgev" dgvy ggp" 3; ; 9" cpf " 42430' Vj g" hqmjy kpi " tqcf y c {" u" y gtg" kpenmf gf " kp" vj g" f cvdcug- P qt vj / Gcu" Gz vgpukqp. " Dgcxgt" Xcng {" Gz r tguu y c {" I tggpudwti " D { r cuu. " O qp/ Hc {" gw" Gz r tguu y c {" Uqwj gtp" Dgny c {" . " cpf " O ckrkpg" Vwtr kng0' F knt guu" f cv" kpenmf gf " r gpi vj " qh" eqpetgv" twkpi . " pwo dgt " qh" lqkv" ur cmgf . " cpf " pwo dgt" qh" lqkv" hewmki " cv' xctkwu" r xgnu" qh" ugxgtkv' 0' Eqput wevkqp" { gct " hqt " gcej " ugevkqp" y cu" f gvgt o kpgf " wukpi " eqput wevkqp" tgeqtf u" kp" eqplwpevkqp" y kj " eqput wevkqp" cpf " o ckrkpgcpeg" eqpvcevu. " y j lej " y gtg" r tqxkf gf " d {" vj g" Vwtr kng0' Kt' g eqput wevkqp" qt " tgr cktu" y gtg" ur gekhgf " hqt " c" i kxgp" ugevkqp" kp" vj g" tgeqtf " qh" eqpvcevu. " vj g" { gct " qh" vj g" o quv' tgegpv' t g j cdkrkcvkqp" y cu" ej qugp" cu" vj g" eqput wevkqp" { gct " y j gp" gucdrikuj kpi " vj g" ci g" qh" vj g" ugcnpv' 0' Chgt " gko kpcvki " ugevkpu" eqpukvki " qh" tco r u. " vj g" hpcn' Vwtr kng' f cvdcug" eqpvkpgf " 3.854" qdugt xcvkpu0

Vy q" v{ r gu" qh" cur j cm: " cnq" npqy p" cu" j qv' r qwt. " ugcnpw" ct g' tkvgf " cu" cp" cr r tqxgf " ugcnpv' hqt" eqpetgv" r cxgo gpv' kp" RgppF QV" Dwngv" 37" dcugf " qp" CUVO " F 88; 2" ur gekhckvkvu"]49_]67_ 0' Hqt " vj g" o clqtkv {" qh" vj g" eqput wevkqp" { gct u. " V { r g" KX" ugcnpv' y cu" vj g" qpn {" cr r tqxgf " cur j cm' ugcnpv' hqt" eqpetgv" r cxgo gpv' 0' J qy gxgt. " dgvy ggp" O c {" qh" 422: " cpf " Qevqdg" qh" 423: " vj g" cr r tqxgf " ugcnpv' y cu" ej cpi gf " htqo " V { r g" KX" vq" V { r g" KO' Y kj kp" gcej " f cvdcug" qh" f knt guu" uwt xg {" t guwmu. " vj g" ugcnpv' v{ r g' y cu" cuuki pgf " cu" c' hpevkqp" qh" vj g" { gct " qh" eqput wevkqp" qt " t g j cdkrkcvkqp" { gct 0' Vj ku" y cu" wugf " vq

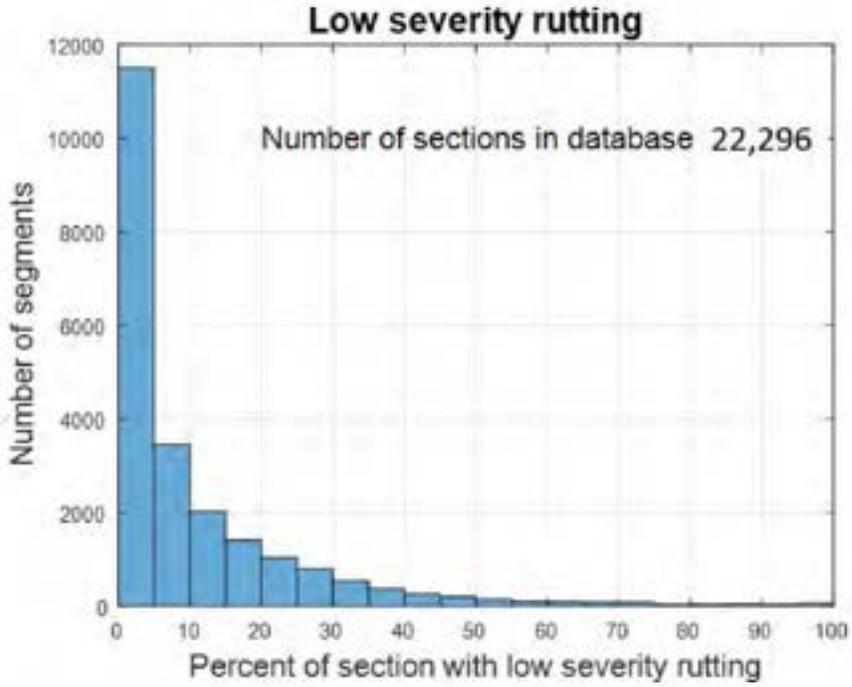
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5''Ø'Eqpet gvg'T wwlpi

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508''RgppF QV'T wwlpi 'T gumu

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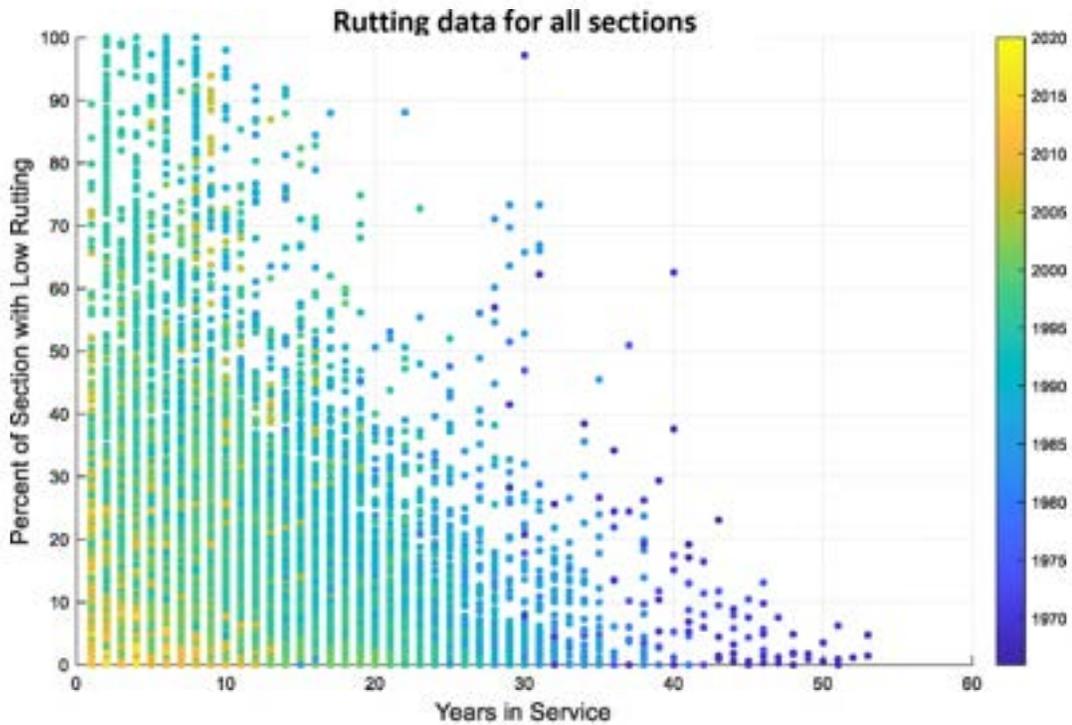


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r ctco gvgtu."y j lej "ctg'uki pñhlecpr'ht'twwkpi "f gxgr o gpv0Vj g'qtki kpcn'cuwo r vkp'y cu'vj cv'twwkpi " o ki j v'dg'o qtg'r tgcrcpvp'lp"vj g'ctgcu'qh'Rgppu{ncpk'tgegkxkpi "vj g'i tgcvgu'co qwpv'qh'upqy hcnf' k'vj gug'ctgcu."vj g'wug'qh'vtg"ej ckpu'qt'uwf f gf "vt gu'o ki j v'dg'o qtg'r tgcrcpvp'cpf "y qwf "eqpvtkdwg" vq"vj g'f gxgr o gpv'qh'twwkpi 0Twwkpi "y cu'pqv'qdugt'xgf "vq"xct {"uki pñhlecpr' "cu" c"hwpevkp"qh" nqecvkp"y kj lp"vj g"ucvg"cpf "vj gt ghtg"eqwf "pqv'dg'rkngf "vq"cp'kpetgcug"lp"vtg"y gct"ecwugf "d{" j ki j gt'upqy hcnf

Vj g'o clqtk' "qh'qdugt'xcvkpu"y kj "c"j ki j "r gtegpv'qh'vj g"ugevkp"twwgf "qeevttgf "y j gp"vj g" ugevkp"j cf "hgy gt"vj cp"32" { gct'u'kp'ugt'xleg0Vj gug'ugevkpu"y gtg'o quv' "eqputwevgf "dgy ggp"3; ; 7" cpf "4227."cu'uj qy p"lp" Hki wtg'D040Vj ku'v'gpf "ku'eqwvgt "kpwkxg"cu"ku'y cu'gzi gev'f "y cv'qif gt" ugevkpu"y qwf "f kur r {"j ki j gt"ngxgn'qh'r cxgo gpv'f ku'guu0Vj gtg'ctg"ugxgtn'rkng' "gzi rcpvkpu" ht "vj g'qdugt'xgf "v'gpf 0K'ku'r quukdg"vj cv'vj g'twwkpi "ku'cp'ct'v'ce'v'qh'vj g'o gv' qf qm' {"."gs wkr o gpv' qt" f c'c'r tqegu'kpi "v'ej pls wgu'wugf "lp"vj g'r gthto cpeg" f c'c"eqngevkp0Vj ku'ku'ur r qt'v'f "d{" "vj g" h'ev'vj cv'vj g'o clqtk' "qh'vj g'qdugt'xcvkpu"y kj "i tgcvt"vj cp"72"r gtegpv'qh'vj g"ugevkp"gzj kdkkpi " twwkpi "y gtg'eqputwevgf "y kj lp" c"32/ { gct'v'ko ghtco g0C f f k'k'p'cm' . "ugevkpu"y kj "c"j ki j "r gtegpvc' g' qh'vj g'ugevkp"twwgf "eqwf "j cxg"dggp" f gp'v'htg' "gctn" {cpf "j cf "ERT"r gthto gf . "tguw'kpi "lp"vj gkt" tgo qxcn'htqo "vj g' f c'c'ug'v'eqpuk' gtgf "lp"vj ku'cpcn' uku0Vj ku'y qwf "gzi rkp"y j {"qpn' "c" hgy "ugevkpu" qif gt"vj cp"42" { gct'u'qif "j cf "i tgcvt"vj cp"72"r gtegpv'ugevkp"twwgf 0K'ku'g'xk' gpv'vj cv'twwkpi "ku'pqv'c" o clqtk'ku'w'g"lp"eqpetg'v'r cxgo gpv'vj tqwi j qw'vj g"ucvg"cpf "vj cv'ngcf u'vj g'tgugcte'j gtu"vq"dg'k'xg" vj ku'twwkpi "qdugt'xgf "ku'cp"cpqo cn' "cu'qek'v'f "y kj "vj g' f c'c"eqngevkp"r tqegu



Hki wtg'D040Rgt egpv'ugevkp"y kj "hgy "t wwkpi "cu" c"hwpevkp"qh' { gct u'kp'ugt'xleg"qp" vj g'z/cz'ku'ht "cn'lugevkpu."y kj "vj g'eqrt "kpf kec'kpi "eqput wevkp" { gct

504"Ur cnkpi

Ur cnkpi "ku'ej ctcev'gk' gf "d{" f co ci g"vq" IRRER'urcd"gf i gu'cnppi "vj g'v'cpuxgtug"lqkp0F co ci gf "

qt'o kułpi "lqłpv'ugcnpv'ecp'cmqy 'lpeqo r tgułdrgu'v'g'pvg' 't'cpuxgtug'lqłpw'0Vj g'lpeqo r tgułdrgu' r t'gxgpv'urcd'gzr cpukqp'f w'g'v'j gto cñ'ej cpi gu."ecwłpi "c'dwłf w' "qh'utguugu'cv'j g'hceg'qh'j g' lqłpw'0Ur cñłpi 'f g'xgmr u'y j gp'j g'utguugu'gzeggf 'j g'eqpetgv'utgpi j 'cpf 'etcentłpi 'f g'xgmr u'p'gct' j g'lwthceg'cmłpi 'j g'lqłpw'0Ur cñłpi 'y cu'wugf 'v'g'xcnvcv'j g'r gthqto cpeg'qh'j g'lqłpv'ugcnpv'y kj " t'gur gev'v'f guki p'r ctco gvtu'0Eqpetgv'ur cñłpi 'ku'tgr qt'v'f 'cv'j t'gg'rgxgn'ny . 'o gf kwo . 'cpf 'j ki j + cu'c'hwpev'kp'qh'j g'y kf j 'qh'j g'ur cñłpv'j g'urcd'cpf 'j g'rgpi j 'qh'j g'ur cñłcmłpi 'j g't'cpuxgtug' lqłpv'68_0K'j ku'cpcn'uku . 'r gtegpv'lqłpw'ur cmgf 'y cu'ecwrcv'f 'hqt'gcej 'qdugt'xcv'kp'd{ 'uwo o kpi " j g'v'cn'pwo dgt'qh'lqłpw'ur cmgf 'cet'quu'gcej 'rgxgn'qh'ugxgk'v' 'cpf 'f'k'k'k' kpi 'd{ 'j g'pwo dgt'qh'lqłpw' k'j g'ugev'kp'0

504B"RgppF QV'Ur cñłpi 'T gumu

Vj ku'cpcn'uku'y cu'hwewugf "qp" gctn' "ur cñłpi "j cv'eqwf "f g'xgmr "f w'g'v'j r tgo cwt'g'ugcnpv' h'k'wt'g'0Gctn' "y cu'f gh'k'p'g'f "cu'y kj k'p'j g'h'ktuv'32" { gct'v'j g'r cxgo gpv'ku'k'p'ugtxleg'0H'qewłpi "qp" r gthqto cpeg'y kj k'p'j g'h'ktuv'v'gp" { gct'u'cñłj j gr u'v'j r t'gxgpv'k'p'w'ł'k'pi "ur cñłpi "j cv'o ki j v'dg" cuu'qek'cv'f "y kj "o cv'g'k'cn't'gr'v'f "f k'w'g'uu'uk'peg"dqj "f w'cd'k'k'v' "etcentłpi "cu'y gm'cu'cm'cn'k'uk'ec" t'gcev'kp'v'gp'f u'v'f g'xgmr 'ch'gt'v'gp" { gct'u'k'p'ugtxleg'0H'ktuv'j g'34.569"qdugt'xcv'kp'u'y kj "32"ugtxleg" { gct'u'qt' "h'gy gt'y gt'g'k'f gp'v'k'f'0'Qh'j g'34.569"qdugt'xcv'kp'u."k'y cu'uggp"j cv'j g'o clqt'k'v' "j cf " o k'p'ko cñł'v'p'q'lqłpw'ur cmgf 0Qpn' '97; "80B' +qh'j g'qdugt'xcv'kp'u'gzeggf gf "32" 'qh'lqłpw'ur cmgf . " y j lej "k'p'f'k'ec'v'f "q'x'gt'cm'f'g'gpv'r gthqto cpeg'ku'd'g'k'p'i "cej k'g'x'g'f'0'J qy g'x'g't."k'y cu'p'q'v'f "j cv'c'h'gy " qdugt'xcv'kp'u'eqp'v'k'p'g'f "uki p'k'h'ec'p'v'ur cñłpi 0'Vj ku'uw'dug'v'qh'j g'f'c'v'y cu'ku'q'rc'v'f "v' "dg'cpcn' | gf " ugr c't'ev'gn' "v' "k'f'gp'v'k'h' "h'g'c'w'g'u'y j lej "eqwf "gzr r'k'p'j g'ec'w'g'qh'j g'uki p'k'h'ec'p'v'ur cñłpi 0

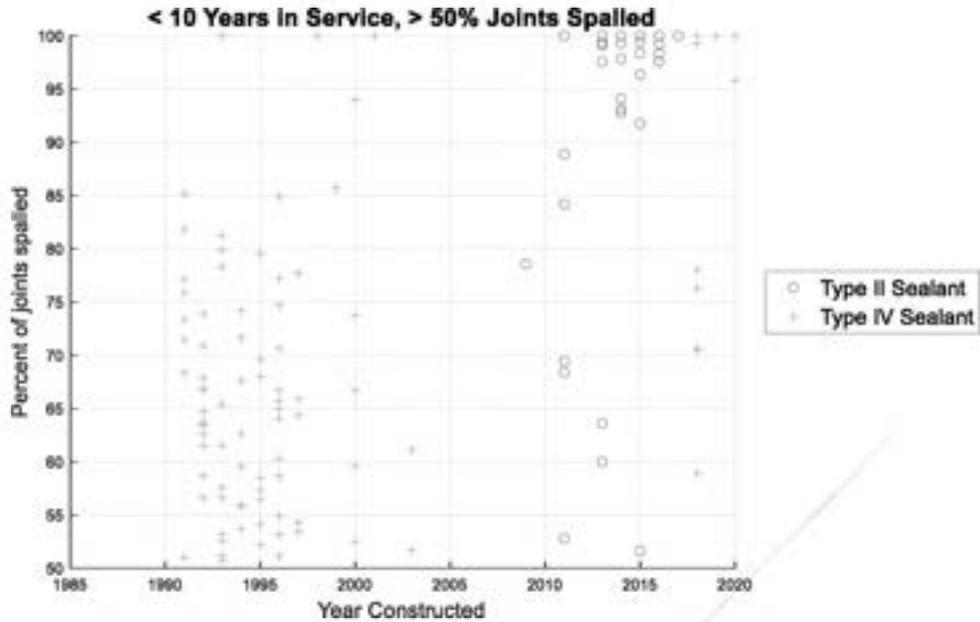
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< 10 Years in Service, Spalling > 10%

District	1	-0.1519	0.3291	-0.1782	-0.04863	0.206	0.0254	-0.2493
County	-0.1519	1	-0.0498	-0.04876	-0.06293	0.1538	-0.1263	0.1017
Construction Year	0.3291	-0.0498	1	-0.328	-0.3131	0.5555	-0.06304	-0.6629
Years in Service	-0.1782	-0.04876	-0.328	1	-0.02042	-0.1163	0.02812	0.04895
Jt Space	-0.04863	-0.06293	-0.3131	-0.02042	1	-0.1961	0.3369	0.1716
% Joints Spalled	0.206	0.1538	0.5555	-0.1163	-0.1961	1	-0.0007642	-0.3979
% Joints Cracks	0.0254	-0.1263	-0.06304	0.02812	0.3369	-0.0007642	1	-0.009512
Sealant Type	-0.2493	0.1017	-0.6629	0.04895	0.1716	-0.3979	-0.009512	1
District	County	Construction Year	Years in Service	Jt Space	% Joints Spalled	% Joints Cracks	Sealant Type	

Hki wtg'D050E qtt grv kqp'o cvt k. fqt 'ugev kpu'y kj '32'ugt xleg'f gct u'qt 'fgy gt 'cpf 'cv'rgcw'32' " lqkpw'ur cmgf. 'y kj 'r gtegpv'lqkpw'ur cmgf 'qwrkpgf 'kp't gf

Y j gp'vj g'f cvugv'y cu'hnrtgf "v'kpenwf g'qpn' 'y g'429'qdugt xcv kpu'y kj 'i tgcvt'vj cp'72' "qh' lqkpw'ur cmgf "cpf "32'qt'nguu'f gct u'qh'ugt xleg. 'y g'o ci pkwf g'qh'vj g'eqttgrv kpu'dgy ggp'r gtegpv' lqkpw'ur cmgf "cpf "eqpust wv kqp'f gct "cpf "r gtegpv'lqkpw'ur cmgf "cpf "ugcrpv'v' r g'kpetgcugf "v'20 3" cpf "/2072. "tgr gevxgn' 0'Cu"uj qy p"kp" Hki wtg'D06. "y gug'tguwnu"o c{ "dg"fqo kpcvgf "d{ "ugev kpu' eqpust wv gf "dgy ggp"4234"cpf "42420Vj g'hcev'vj cv'vj g'ugcrpv'v' r g'y cu'ej cpi gf "htqo "c"V{r g"KX" cur j cn'ugcrpv'v' c"V{r g"K' dgy ggp"422: "cpf "423: "eqwf "dg" kphwgpelpi "y gug'tguwnu0Vj ku' kpf kcvgu'vj g"wg"qh" c"V{r g"K'ugcrpv'eqwf "dg"o qtg'r tqpg"v' gctn'f "hknrtg"qt "y cv'kuwgu'y kj " eqpust wv kqp'kp'vj gug'f gct u'tguwnf 'kp'cp'gct rkt'f gxgnr o gpv'qh'ur cnkpi 0

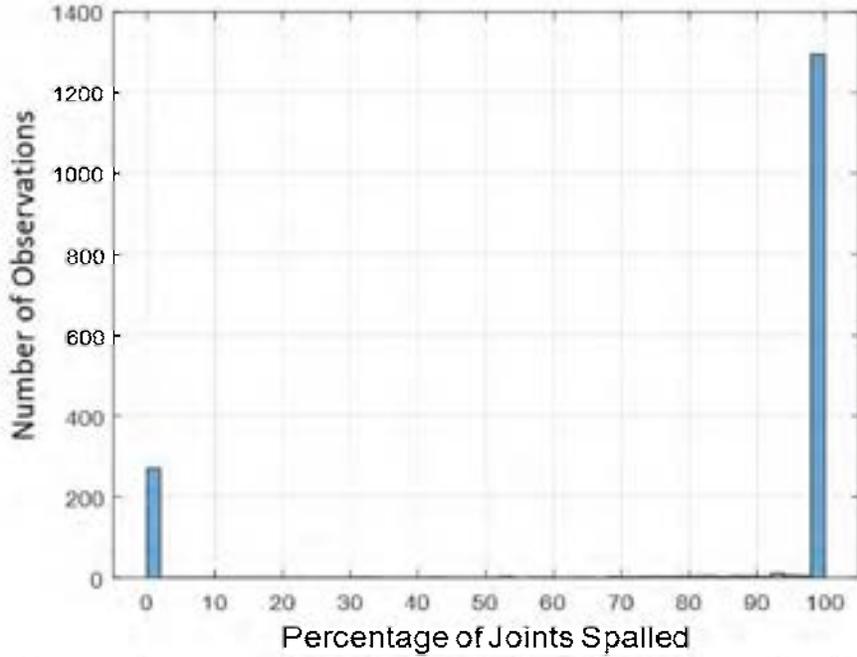


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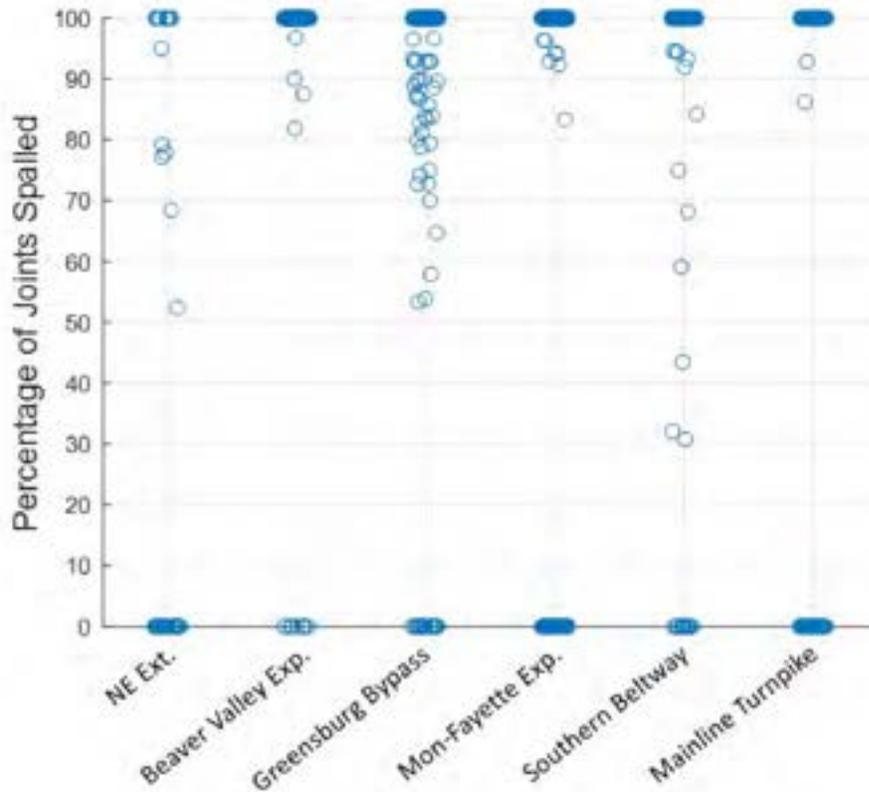
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Vj g'o c l q t k v { " q h " u g e v k p u " y k j k p " v j g " V w t p r k n g " f c v c d c u g " f k u r n c { g f " u k i p k h e c p v " h g x g n u " q h " u r c m k p i 0 ' Q h ' v j g " 3 . 8 5 4 " q d u g t x c v k p u . " 9 ; ' " q h " u g e v k p u " j c f " u r c m k p i " c v " g x g t { " l q k p v " y j k n g " 3 7 " " q h " v j g " u g e v k p u " g z j k k k g f " p q " u r c m k p i 0 ' V j k u " k u " f g r l e v g f " k p " H l i w t g " D 0 7 0 ' V q " g p u w t g " u g e v k p u " y k j " 3 2 2 " " l q k p u ' u r c m g f " y g t g " p q v " e q p e g p t c v g f " k p " u r g e k h e " t q c f u . " u r c m k p i " y c u " g x c m c v g f " c u " c " h w p e v k p " q h " V w t p r k n g " t q c f y c { " c u " u j q y p " k p " H l i w t g " D 0 8 0 K " y c u " f g v g t o k p g f " v j c v ' v j g " f k u t k d w k a p " q h " u g e v k p u " y c u " p q v " u n g y g f " v q y c t f " c p { " r c t v e w r t " t q c f y c { 0



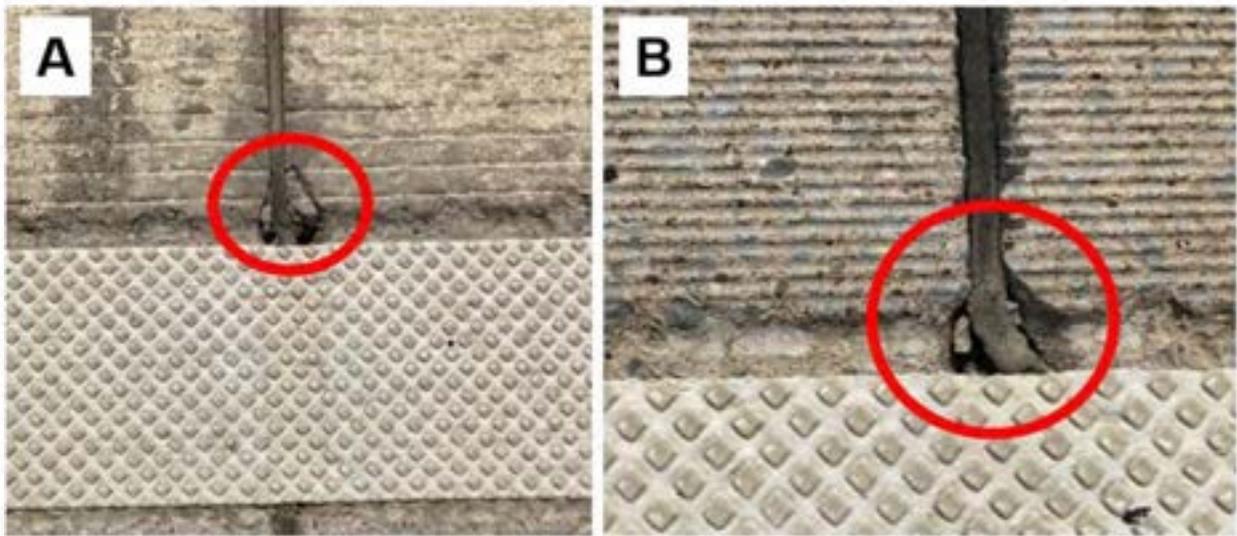
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Hli wt g'D080R gte'gpv'lqkpu'ur cngf "cu'c'hwpevkp'qhl'Vwt pr kng't qcf y c'f

Qpn' '8' 'qhl'ugevkppu'tgr qt vgf 'dgy ggp'2' 'cpf '322' 'lqkpu'ur cngf 0Dgecwug'y g'f cwc'ku'j gcxkn'

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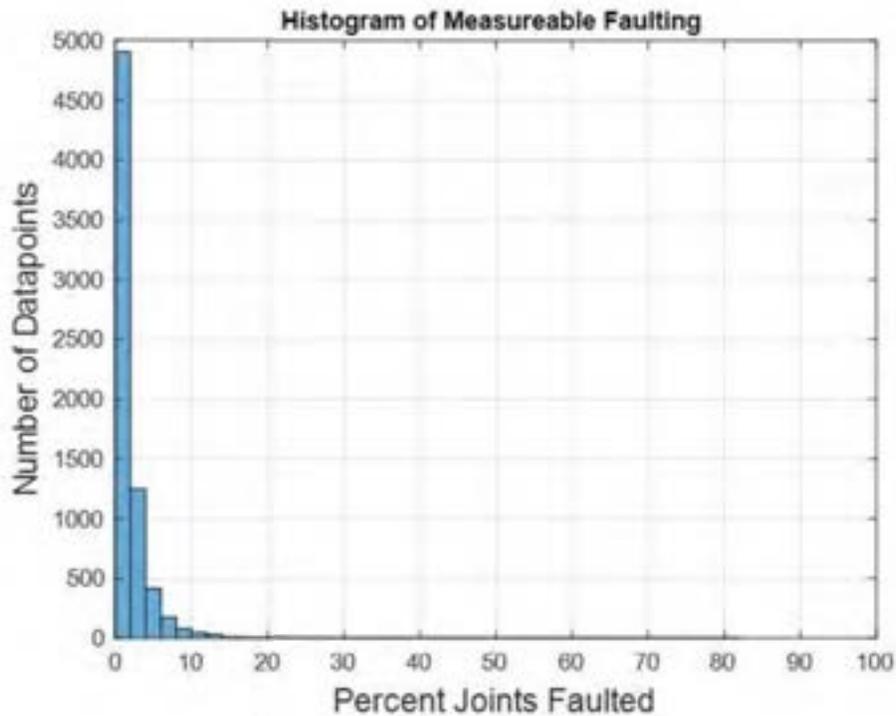
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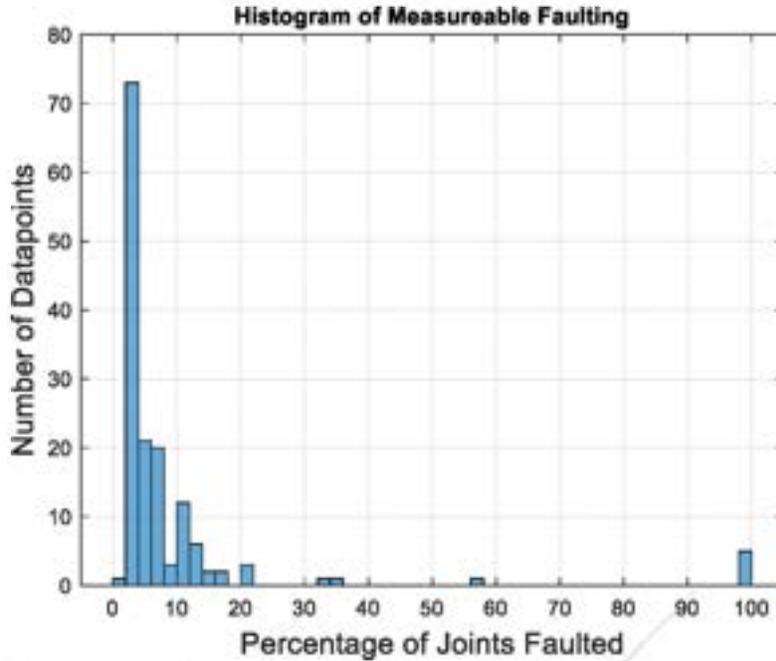
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Hli wt g'DQ OEqttrvkvq'p'o cvtk'fqt'cm'ugevkvpu'y kj 'o gcuwcdng'hcwnkpi . 'y kj 'r gtegpv'lqkpu' hcwnkf'qwnkpgf'kp'tgf

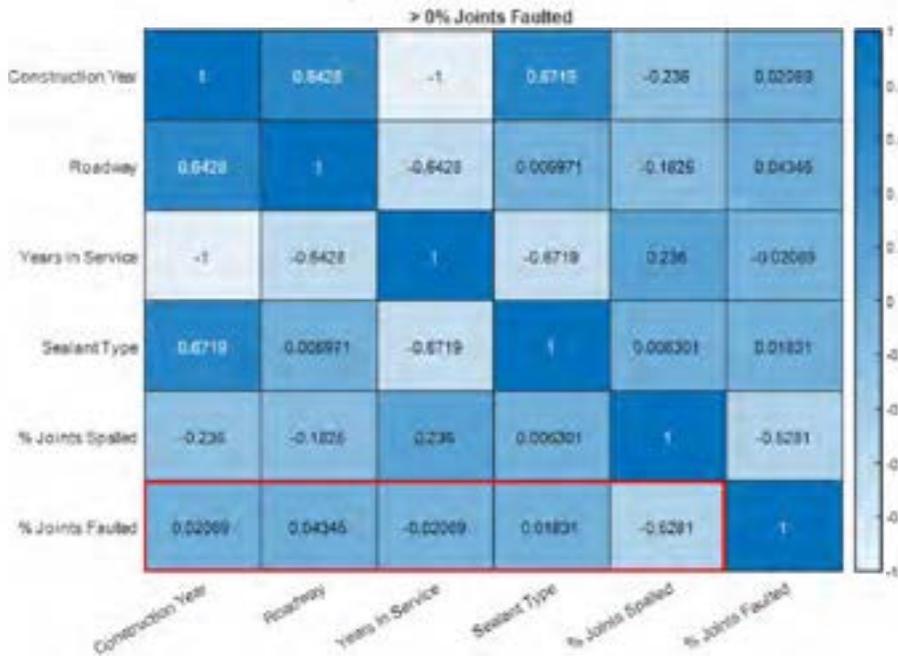
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Hli wt g'DB30Eqttgrvkqp"o cvtk"ht "vj g'373'ugevkpu'y kj "o gcuwt cdrng'fcwvki ."y kj "r gt egpv" lqkpw'fcwngf "qwrkpgf 'kp't gf

K'y cu'pqv'f 'y cv'y g'y tguj qrf "qh'2047'lp'hqt'hcwnkpi 'v'dg'tgr qtvgf 'ku'j ki j . 'gur gekm' " eqpukf gt'kpi 'lqkpw'y kj 'i tgcvt 'y cp'2087'lp'qh'hcwnkpi 'ctg'eqpukf gt'gf "ör qqtö'd{ 'RgppF QV' uc'pf ctf u'j69_0Dgecwug'qh'y ku'j ki j 'y tguj qrf 'hqt'hcwnkpi 'lp'y g'f kurt guu'uwtxg{ . 'y g'f cvcug'v'o c{ " ki pqtg'c'uki p'k'hecpv'pwo dgt'qh'dqj 'RgppF QV'cpf 'Vwtpr kng'ugev'kpu'y kj 'o gcuw'cdng'hcwnkpi 0' Vj g'tghqtg. 'o qtg'f cv'ku'tgs wktgf 'lp'qtf gt 'v'kf gpvkh{ 'y g'ghge'v'qh'ng{ 'r cxgo gpv'hcw'wt'gu'qp'lqkpv' ugc'rpv'r gthqto cpeg'cpf 'hcwnkpi 'f g'xg'qr o gpv'lp'Rgppu{ k'c'pk0

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"" 9; ' "qh'qdugt'xc'v'k'p'u'y kj lp'y g'Vwtpr kng'f cvdcug'tgr qtvgf '322' "qh'lqkpw'ur cm'gf . 'cpf " 37' 'tgr qtvgf '2' 'lqkpw'ur cm'gf 0Vj ku'ku'o qu'v'k'ng'n' 'f w'g'v'q'eqput'we'v'k'p'r t'ce'v'ge'u'cpf 'pqv' ugc'rpv'r gthqto cpeg0

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Cr r gpf lz 'E0Gxcnvcvqp'qh'vj g'Ht levkqpcnE qghlekgpv'Wugf " hqt 'Lqkv'Ugcrcpv'T gugt xqkt 'F guki p

3'0'Kpvt qf wevkqp

Kp'c'uwf { 'r gthqto gf "d{ "vj g"Hgf gtcnJ ki j y c{ "Cf o kpkmtcvqp"*HJ Y C+ "vj g"ghgevkxgpguu"qh" lqkv'ugrcrpw'y cu'gxcnvcvqf "qxtg'c'807/{ gct'r gtlqf "]64_0Vj ku'uwf { 'y cu'r gthqto gf "kp'hqwt'f khhgtgpv' erko cvg'tgi kqpu'y kj "vgp'ugrcrpv'o cvgtkcnu."gki j v'f khhgtgpv't gugt xqktu'f guki pu."cpf "ugxgp'f khhgtgpv' r tgr ctcvqkq"vej pls wgu0Vj g'uwf { "hqwpf "vj cv'pkpg'qh'vj g'83" f guki p"eqo dlpvcvqpu'j cf "qxtg": 2' " ghgevkxgpguu'y kj "pq'uki pu'qh'hckmtg'cv'vj g'gpf "qh'vj g'807/" { gct'r gtlqf 0'Kp'cf f kxqkq. "vj ku'uwf { " r tgf levqf "vj cv'9'qh'vj g"; "uweeguhtw'ugrcrpw'y qwf "rcuv'iqpi gt "vj cp"32" { gct'u0Y j krg'vj ku'cpf "qyj gt" uwf lgu'j cxg'uj qy p'vj cv'i qqf 'r gthqto cpeg'ecp'dg'cej kxgf "htqo "vj gug'ugrcrpw"]64."54."53_ "qyj gt" uwf lgu'j cxg'cnuq'kf gpv'kxgf "uki pkhlecpr'ngxgnu"qh'r tgo cwtg'ugrcrpv'hckmtg"]44."45_0'Rtgo cwtg' ugcrcpv'hckmtg'ku'cnuq'htgs wgpv' "tgr qtvgf "d{ "ucv'g'f gr ctvo gpw'qh'xcpur qtvcvqkq0'C "pwo dgt "qh" r tglxqwu'uwf lgu'j cxg'gxcnvcvqf "ugrcrpv'r gthqto cpeg."dw'vj g'hcevqtu'y j kej "eqpv'kdw'g'v'q'r tgo cwtg" ugcrcpv'hckmtg'ctg'pqv'y gm'gucdrkuj gf 0

Vj g'vy q'r tko ct { "hckmtg"o gej cpkuo u'hqt "ugrcrpw"ctg'cf j gukxg'cpf "eqj gukxg'hckmtg"]46_0 Cf j gukxg'hckmtg"qeewtu'y j gp'vj g"dqpf "ku'iquv'dgy ggp'vj g'lqkv'ugrcrpv'cpf "tgugt xqkt0Cf j gukxg' hckmtg"qeewtu'cu'c'tguwn'qh'kpcf gs wcv'g'eqput wevkqp'r tcev'egu."uwej "cu'pqv'cf gs wcv'gn' "ergcpkpi "vj g" tgugt xqkt'r tkt'v'q'r ncego gpv."c'j ki j "eqpetgv'o qluwtg'eqpv'cv'vj g'vko g'qh'ugrcrpi ."qt'cp'ko r tqr gt" ugcrcpv'go r gtcwtg'f wtkpi "]6: ."52_0Eqj gukxg'hckmtg"qeewtu'y kj kp'vj g'ugrcrpv'o cvgtkcn'y j gp'vj g" utguu"qh'vj g'ugrcrpv'ku"o qtg"vj cp"vj g"cmjy cdrg"utguu."y j kej "ecp"qeewt"cu"c"tguwn'qh'mjy " wgo r gtcwtgu'cv'vj g'vko g'qh'ugrcrpi "cpf "ci kpi "qh'vj g'ugrcrpv"]45."46."57_0

Dqj "cf j gukxg'cpf "eqj gukxg'hckmtg"ecp"qeewt"cu'c'tguwn'qh'gzeguukxg'lqkv'qr gpkpi u'f wtkpi " vj g'eqf gt"o qpj u0Kj' cu'dggp'eqpenf gf "htqo "c'r tkt'uwf { "vj cv'vj g'o czko wo "cmjy cdrg'utckp'kp" vj g'ugrcrpv'uj qwf "pqv'gzeggf "42' "dw'vj ku'ku'v'r kcm' "f lev'v'g'f "d{ "vj g'ugrcrpv'o cvgtkcn'wugf "]6: _0 Vj g'tgugt xqkt'y kf vj .y . "uj qwf "dg'ugrgev'g' "uwej "vj cv'vj g'utckp'vj cv'f g'xgnr u'cv'vj g'o czko wo "lqkv' qr gpkpi "ku'y kj kp'vj g'cmjy cdrg'iko k0Uwf lgu'j cxg'cnuq'uj qy p'vj g'wug'qh'c'uwkcdrg'uj cr g'hcevqt" *UH: "f hkp'gf "cu'vj g'tcvq'qh'vj g'ugrcrpv'f gr vj .F . "v'q'y kf vj .y . "cpf "ku'pgeguuct { "v'q'tgf weg'vj g'utguu" kp'vj g'ugrcrpv'0I gpgtcm' . "vj g'UH'ku'tgeqo o gpf gf "v'q'dg'4F -3y "hqt'ukkeqpg'ugrcrpw'cpf "3F -3y "hqt" cur j cn'ugrcrpw"]6: ."3; ."59_0Vq'gpuwtg'vj g'cmjy cdrg'utckp'etkgtk'ku"o gv."vj g'o czko wo "co qwpv' vj g'lqkv'y kn'qr gp"o wv'dg'ceewt'v'gn' "guko cvgf 0

Ewtgpv'ugrcrpv'tgugt xqkt'f guki p"eqpuku'qh'gucdrkuj kpi "vj g'y kf vj .y . "qh'vj g'tgugt xqkt"d { " f gvto kpkpi "vj g'o czko wo "lqkv'qr gpkpi "vj cv'vj kn'qeewt"uwej "vj cv'vj g'cmjy cdrg'utckp'iko k'y kn' pqv'dg'gzeggf gf 0'Qpeg"vj g'tgugt xqkt'y kf vj "ku'f gvto kpgf . "vj g'f gr vj "ku'ugrgev'g' "v'q'gpuwtg"UH" tgs wktgo gpw'ctg"o gv"]5; _0'Vq'r tgf lev'j qy "o wej "c"lqkv'qr gpu."ewtgpv'f guki p"o gvj qf qm'j { " r tgf lew'ej cpi gu'kp'ucd'ngpi vj 0'Vj g'ej cpi g'kp'ucd'ngpi vj "ku'c'hwpevkq'qh'vj g'pkkcn'ucd'ngpi vj . " ej cpi g'kp'vgo r gtcwtg."vj g'eqghlekgpv'qh'vj gto cn'gzr cpukq"*E VG+ "f t { kpi "uj tkpnci g."cpf "vj g' htlekqpcn'eqghlekgpv"*E/xcnvg+0Vj ku'ku'uj qy p'kp'Gs wevkqp"3"]46_0

ê N? EN*ê V - FUH" gs 08

Y j gtg.
ê N? "ej cpi g'kp'ucd'ngpi vj .kp
E"? "htlekqpcn'eqghlekgpv"*2087'hqt'ucd'k'gf =20 'hqt'i tcvwct'dcug="hqt'ucd'qp'uwdi tcf g+

N"? 'kpkkcn'urcd'rgpi vj . 'kp

V"? 'vgo r gtcwtg'ej cpi g '*Vugv'ó'Vo kp+.'ÁH

Vugv'? 'r cxgo gpv'ugv'vgo r gtcwtg.'ÁH

Vo kp"? 'o kpkó wo 'vgo r gtcwtg'vj g'r cxgo gpv'gZR gtlgpegu.'ÁH'

'?' 'rdqtcvt { 'eqghhlekpv'qh'vj gto cñ'gZR cpukqp '*E VG+. '32'8 IÁH'

FU'? 'rdqtcvt { 'vñko cvg'f t { kpi 'uj tlpnci g.'32'8

Vj g'wug'qh'vj ku'gs wcvkpu'tgs wktgu'cp'ceewtcvg'ej ctcevtgk cvkqp'qh'vj g'kp/ukw'f t { kpi 'uj tlpnci g' cpf 'E VG' uq'vj cv'vj g'rdqtcvt { 'xcwgu'ecp'dg'eqtgenv { 'cf lwxgf 'y kj 'vj g'htlekqpcn'eqghhlekpv.'E0 Vj gug'vj tgg'r ctco gvgtu '*f t { kpi 'uj tlpnci g.'E VG' cpf 'htlekqpcn'eqghhlekpv+'ctg'gcej 'f kuewuugf " dgrqy 0

4'Ø'F t { kpi 'Uj tlpnci g

F t { kpi 'uj tlpnci g'qh'vj g'r cxgo gpv'utwewt g'xctkgu'vgo r qtcml { 'cpf 'ku'uki pkklecprñ 'chgevgf 'd { " nqecvqp'y kj kp'vj g'urcd'cpf 'vj g'o qkuwtg'eqpv'qv'qh'vj g'eqpetgv'Ort gxlqwu'tgugctej 'j cu'hqwpf 'vj cv' qxgt'72' 'qh'vj g'f t { kpi 'uj tlpnci g'y knl'f gxrqr 'y kj kp'vj g'htuv'ukz'o qpj u.'cpf 'f t { kpi 'uj tlpnci g' y knl'ucdktk g'y kj kp'vj g'htuv'hxg' { gctu'ht' r cxgo gpv'ugev'kpu' eqputwewt "kp'O kppguvc" cpf " Rgppu { rcpkc']6; . '72_0Vj g'f t { kpi 'uj tlpnci g'cr r tqzko cvgn' '7' { gctu'chgt 'r cxkpi 'y cu'tgr qtvgf "vq" dg'dgy ggp'5; 'cpf '599' 'ht'ugev'kpu'kp'O kppguvc']72_0Uko krc't guwuu'y gtg'qdvckpgf 'htqo "c" tqcf y c { 'kp'Rgppu { rcpkc'y j gtg'vj g'f t { kpi 'uj tlpnci g'xctkgf 'vj tqwi j qw'vj g'r cxgo gpv'cpf 'tapi gf " dgy ggp'72'vq'422' 'chgt'cdqw'372'f c { u']6; _0

Vj g'f t { kpi 'uj tlpnci g'qh'vj gug'r cxgo gpv'utwewtgu'ctg'uki pkklecprñ 'rguu'vj cp'vj g'vñko cvg' f t { kpi 'uj tlpnci g'eqo o qpn' 'o gcuwtg' hqt'vj g'eqpetgv'g'o kzwtg'y j gp'vukpi 'kp'ceeqtf cpeg'y kj " CUVO 'E3790Vj ku'ku.'kp'r ctv.'f wg'vq'vj g'f hgtgpeg'kp'vj g'ucpf ctf 'ewtkpi 'eqpf kkpqu'wugf 'kp'vj g' rcd' cpf 'vj g'co dlep'v'eqpf kkpqu'r t gupv'kp'vj g'hgrf " cpf 'tgutckpv'eqpf kkpqu'Wpf gt'E379.'vj g' ur geko gpu'ctg'o ckvckpgf 'cv'c'tgrv'xg'j wo kf kv' '*TJ +'qh'72' ']73_0J qy gxgt.'ht' r cxgo gpw.'vj g' TJ 'j cu'dggp'o gcuwtg'cv': 2' 'vq': 7' 'dgrqy 'vj g'wr r gt'4'kp'qh'vj g'urcd'cpf '322' 'cv'vj g'dqwqo 'qh' vj g'urcd']6; . '74.'75_0Cu'c'tguwv.'vj g'rdqtcvt { 'eqpf kkpqu'f q'pqv'tgr rkecv'vj g'kp/ukw'o qkuwtg' ucvg'qh'vj g'r cxgo gpv'utwewt g'OC f f kkpccm' . 'vj g'eqpu'cpv'j wo kf kv' 'qh'vj g'rdqtcvt { 'f qgu'pqv' tgr rkecv'j wo kf kv' 'hñewcvkpu.'y j lej 'qeewt 'kp'r cxgo gpv'utwewt gu' Cñj qwi j 'vj g'TJ 'cv'vj g' uwt'ceg'ecp'f getgcug'vq'pgct'72' . 'r tgekr kcvkqp'tgkvtqf wegu'o qkuwtg'vq'vj g'wr r gt'r qt'v'kp'qh'vj g' urcd.'cpf '52' 'qh'vj g'f t { kpi 'uj tlpnci g'ku'tgeqxtcdrg'ht'c'v' { r kecn'r cxkpi 'o kzwtg'f wg'vq'tgy gw'kpi "]76_0

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Ncuwv' . 'k'j cu'dggp'qdugtxgf 'vj cv'f t { kpi 'uj tlpnci g'xctkgu'vj tqwi j qw'vj g'urcd'cu'c'hñevkqp'qh' t guntckpv'eqpf kkpqu'qt' r tqzko kv' 'vq'lqkpw'cpf 'etcem'0Vj g'f t { kpi 'uj tlpnci g'vj cv'f g'xgtr u'lp'c'urcd' ku'tguntckpgf 'f wg'vq'vj g'htlekq'p'dgy ggp'vj g'dqwqo 'qh'vj g'urcd' cpf 'vj g'dcug' cpf 'vj g'tguntckpv'ecwugf " d { 'f qy gn'cpf 'vkg'dctu.'y j lej 'hwt'vj gt'tgf wegu'f t { kpi 'uj tlpnci g'o gcuwtg'kp'vj g'urcd'cu'eqo r ctgf "

vq"vj g"ltgg"uj tlpnei g"o gcuwtgf "lp"ceeqtfcpeg"y kj "CUVO "E3790Ft{ lpi "uj tlpnei g"y cu"cnq" qdugt xgf "vq"dg"j ki j gt"cv"vj g"lqkpu"y j gp"eqo r ctgf "cv"vj g"b kf /r cpgrlht "kf gpvkecrlf gr vj u"lp"vj g"urcd"]6; _O"K"y cu"j { r qvj guk gf "vj cv"vj g"lpetgcug"lp"ft { lpi "uj tlpnei g"y cu"fwg"vq"vj g"hwewcvkqp"lp" ucwtecvkqp"ngxgn"cpf "gZR quwtg"vq"vj g"cw qur j gtg"cv"vj g"lqkpu"Vj ku"vtgpf "y cu"ci ckp"qdugt xgf "y j gp" eqo r ctgpi "vj g"vkgf "egpvtkpg"npi kwf kpcrl"lqkpu"vq"cm"qyj gt "lqkpu"Vj g"vkg"dtu"r t g xgpv"vj g"rcpgu" ltqo "ugr ctevkpi "cpf "gZR qukpi "vj g"hecg"qh"vj g"egpvtkpg"lqkpu"vq"vj g"cw qur j gtg"Vj ku"tgf wegf "vj g" mqu"qh"y cvgt "cv"vj g"egpvtkpg"lqkpu"vj gtghqtg. "tgf wegf "vj g"ft { lpi "uj tlpnei g"]6; .77_0

408 "Eqghlekp v'qh"Vj gto cniGzrcpukp

Vq"o gcuwtg"vj g"EVG"ht "eqpetgv. "hmm" "ucwtecvf "rd"ur geko gpu"ctg"uwlgevgf "vq"vgo r gtcwtg" ej cpi gu. "cpf "vj g"eqttgur qpf lpi "ej cpi g"lp"ngpi yj "ku"o gcuwtgf "lp"ceeqtfcpeg"y kj "CCUJ VQ"V"558/ 2; "]78_OY j kg"vj ku"cr r tqcej "ecr wtgu"vj g"ghge"v'qh" f khtgtpv"ci i tgi cvg"v{ r gu"qp"EVG. "vj ku"vuv" f qgu" pqvtgr rdecv"vj g"lp/ukw"eqpf kkpqu"qh"c"r cxgo gpv"utwewtg"lp"vy q"ng{ "cur geu"0Hktuv. "vj g"r cxgo gpv" utwewtg" ku" pqv" cny c { u" hmn" " ucwtecvf O' Ugeqpf n. " wptgustckpgf " ur geko gpu" ctg" vuvgf " lp" yj g" rcdqtcvqt { . " y j gtgcu"urcd"lp" c"r cxgo gpv"utwewtg"ctg"tgustckpgf "ltqo "o qxgo gpv"fwg"vq"htlevkqp" y kj "vj g"dcug"cpf "vkg"dtu"o

Ugxgtcn"lpxguki cvqtu"j cxg"uwf kgf "vj g"ghge"v'qh"eqpetgv"o qkuwtg"eqpvpv"qp"EVG"0Hktuv. "kv" j cu"dgpp"uj qy p"vj cv"hm" "ucwtecvf "eqpetgv"ur geko gpu"j cxg" c"mgy gt "EVG"vj cp"r ctvcm" "ucwtecvf " vuv"ur geko gpu"0K"hev. "vj g"EVG"qh" c"r ctvcm" "ucwtecvf "eqpetgv"j cu"dgpp"uj qy p"vq"lpetgcug"d { "cu" o wej "cu"72" "eqo r ctgf "vq" c" hmn" "ucwtecvf "rd"ur geko gp"]79_0Rcu"uwf kgu"y gtg"r gthqto gf "vq" swcpvkh { "vj g"ghge"v'qh"eqpetgv" TJ "qp"vj g"EVG"0 g { gtu"eqpenmf gf "vj cv"vj g"o czko wo "EVG"qeewtgf " y j gp"vj g"eqpetgv"j cu" c" TJ "qh"92" "]7: _OC"uko krt"uwf { "r gthqto gf "d { \ qnkpi gt "gv"ci"0hqw"pf "vj g" EVG"ku"j ki j guv"y j gp"vj g"eqpetgv"ku"cv"cr r tqzko cvgn" c": 7" " TJ 0Cu"r t g xkqwn { "f guetkdgf. "vj g" wr r gt" r qt vqp" qh" vj g" urcd" ku" eqo o qpn { "r ctvcm" " ucwtecvf O' Vj gtghqtg. "f gvto klpki "r cxgo gpv" gZR cpukp"cpf "eqpvtcev"lp"y kj "ej cpi gu"lp"vgo r gtcwtg"dcugf "qp"vj g"EVG"o gcuwtgf "lp"ceeqtfcpeg" y kj "CCUJ VQ"V"558/2; "ecp"tgumn"lp" c" f tcvk" wpf gtguko cvkqp"O qtgqxtg. "vj g"EVG"qh" vj g" eqpetgv"ku"mgy guv"y j gp"vj g" TJ "ku"pgct"322" "qt"dgny "72" . "cpf "uo cm"ej cpi gu"lp" TJ "j cxg" uki phtcepv"ghge"v'qp"vj g"EVG"y j gp"vj g" TJ "ku"i tgcvt "vj cp"72" "]7; _OCu"r t g xkqwn { "ucv"gf. "vj g" o qkuwtg"lp" c"r cxgo gpv"utwewtg"ku"pqv"vphqto "cpf "vj gtghqtg"vj g"EVG"ku"pqv"eqpucpv"vj tqwi j qw" vj g"r cxgo gpv" f gr vj "cu"ku"ewttgpv { "cuwo gf "lp"r cxgo gpv" f guki p"0Vj ku"kmwtecvu"vj cv" c" ukpi ng"EVG" xcwng" f gvto kpgf "vj tqwi j "rdqtcvqt { "vuvkpi "qp" c" hmn" "ucwtecvf "ur geko gp" f qgu"pqv"ceewtcvgn" f gr lev"vj g"lp/ukw"EVG"qh" c" urcd"0Vj ku"cnq"j cu"tco khtecv"kp"qp"vj g"guvko cvgf "lqkpu"qr gpkpi "cpf" emukpi . " cpf " j gpeg" ugcmpv" r gthqto cpeg. " ukpeg" vj g" rcdqtcvqt { " f gvto kpgf "EVG" ku" c" etkhtcrl r ctco gvgt "lp"lqkpu"v" f guki p"0

Cf f kkpem { . "vj g" f gi tgg"qh"ucwtecvkqp" xctkgu"ur cvkcm { "vj tqwi j qw"vj g"r cxgo gpv"fwg"vq"vj g" r t g u g p e g " q h " l q k p u " c p f " e t c e m u . " y j k e j " c m y " o q k u w t g " v q " l p h k m t c v g " v j g " r c x g o g p v " u t w e w t g " V j g " e q p e t g v " l p " t g i k p u " e m u g t " v q " l q k p u " c p f " e t c e m u " y k n i d g " u c w t e c v f " o q t g " h t g s w p v n { " e q o r c t g f " v q " v j g " e q p e t g v " c v " o k f / u r c d " q t " q v j g t " t g i k p u " c y c { " h t q o " r q k p u " q h " g p v { "] 6 ; _ O V j k u " l p f k e c v u " v j c v " v j g " E V G " y k n i p q v " d g " e q p u c p v " v j t q w i j q w " v j g " f g r y j " q t " n g p i v j " q h " v j g " u r c d " 0 V j g " g h g e w " q h " v j g " x c t k e d k r k v { " l p " v j g " E V G " q p " v j g " f g x g m r o g p v " q h " e w t r k p i " u t g u u g u " c u " y g m " c u " q p " v j g " q r g p k p i " c p f " e m u k p i " q h " v j g " l q k p u " k u " p q v " e w t g p v n { " c e e q w p v g f " h q t " l p " v j g " f g u k i p " r t q e g u u 0

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5''U'Ueqrg

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504''U'g'puqt 'Nc { q'w'

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50'' F c v c'Eqngevklp

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6'' Ø'O gvj qf qm {

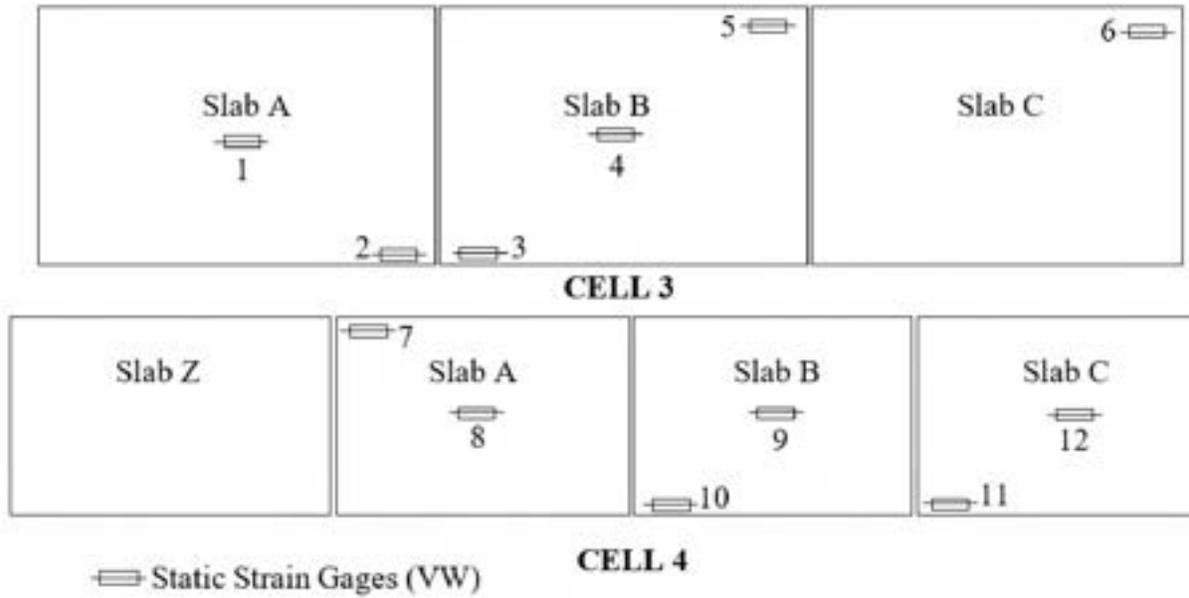
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tot " ? " * 3 " / " 2 + " - " * * 3 " / " C 2 + " t " " \ \ + " ` 04
m - c " ? " * 3 " / " 2 + " - " * * C 3 " / " t C 2 + " t " * , / " + " ` 05

Y j gtg<

- tot " ? " vqcn'utckp."
- m - c " ? " o gej cplecn'utckp."
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- 2 " ? " vgo r gtcwtg'cv'vj g'vko g'vj g'eqpetgvg'ugvu."ÅH
- 3 " ? " vgo r gtcwtg'cv'vko g" 3."ÅH
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Hli wt g'EBOU/44'incve'xkdt cvkpi 'y kt g'int ckp'i cwi g'hqecvkpu

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Egm	Urd	Nqecvkqp	Nqecvkqp	F gr vj	Ugpuqt 'K
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	D	5	Eqtpgt'NcpglUj qwf gt	Dqwqo	5D/EU/D
		6	O kf /r cp gn	Vqr	5D/O R/V
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Dqwqo				5E/EE/V	
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				5'kp'ltqo 'vqr	6C/EE/O
				Dqwqo	6C/EE/D
				Vqr	6C/O R/V
	D	:	O kf /r cp gn	Dqwqo	6C/O R/D
				Vqr	6D/EU/V
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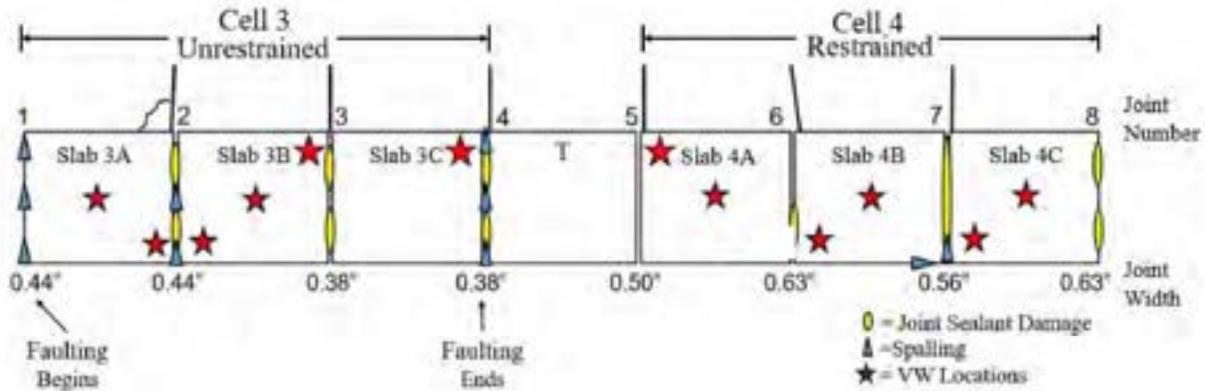
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608''F knt guu'Uwt xg{

C'r c x g o g p v ' f k u t g u u ' u w t x g { ' y c u ' r g t h q t o g f " c v ' 3 2 - 2 2 " C O " q p " L w p g " 3 9 . " 4 2 4 3 0 ' V j g ' c o d k e p v ' v g o r g t c w t g ' y c u ' c d q w w 9 2 A H 0 ' V j g ' r w r q u g ' q h ' v j g ' f k u t g u u ' u w t x g { ' y c u ' v q ' f g v g t o k p g ' h ' v j g t g ' y g t g ' c p { " k p h n w g p e k p i " h c e v t u ' v j c v ' u j q w f " d g " e q p u k f g t g f " y j g p " c p e n f | k p i " v j g ' u t c k p " f c w 0 ' C " f t e y k p i " q h ' v j g " f k u t g u u ' u w t x g { ' k u ' u j q y p ' k p " H k i w t g " E 0 1 0 K ' y c u ' q d u g t x g f ' v j c v ' v j g ' q x g t c m i e q p f k k q p ' q h ' v j g ' r c x g o g p v "

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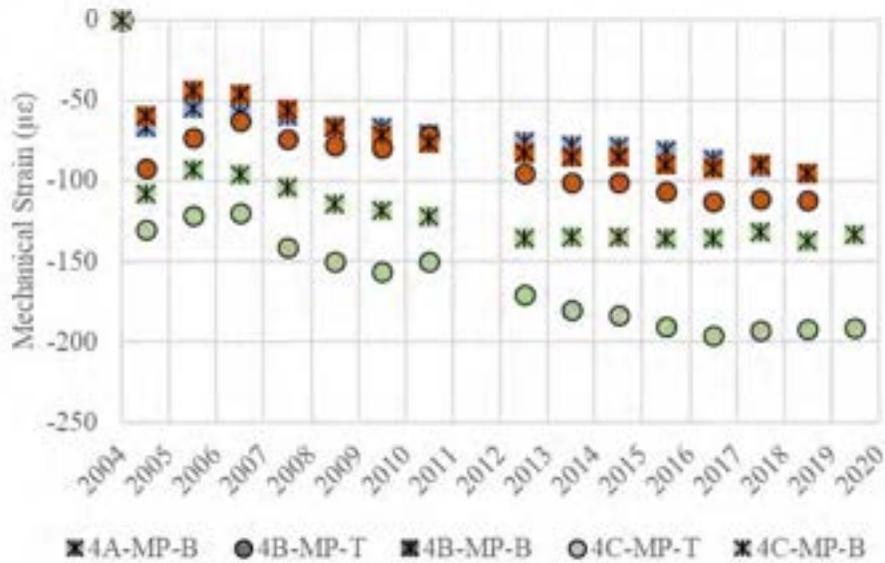
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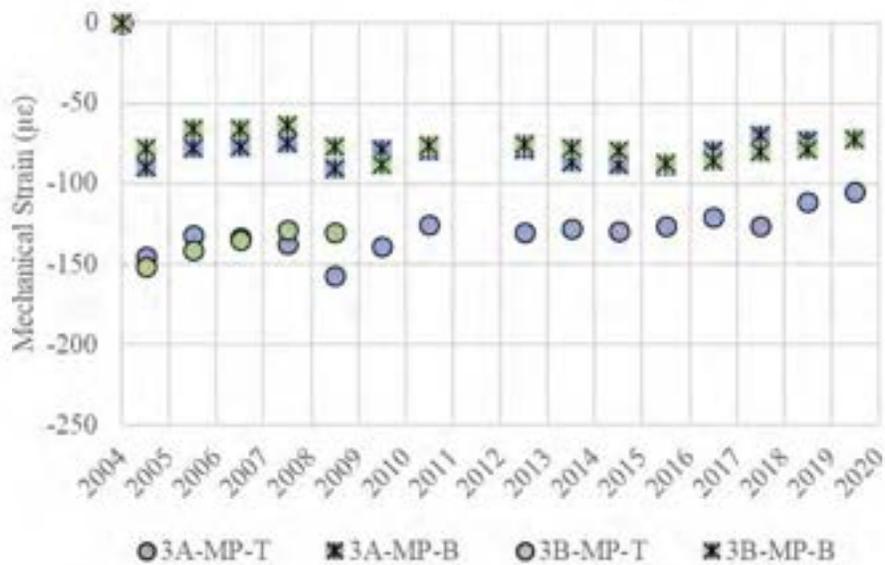
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604'F t { lpi 'Uj t'k'p'nci g

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Hki wt g'E600 gej cplecniwt ckp'iqi 't gut ckpgf 'urcdu'cv'o kf urc d



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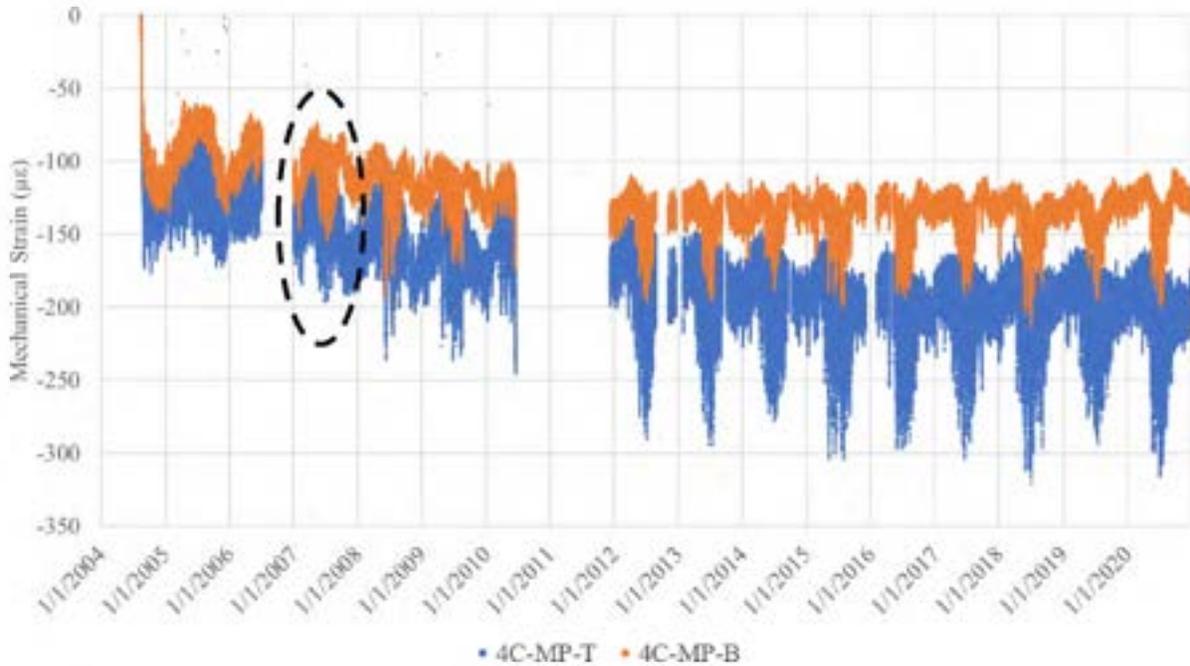
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Hli wtg'E00F t { kpi 'uj t k p n e i g 'c v 'o k f u r c d 'q h U r c d '6 E 'c v 37 / o k p w g 'k p v g t x c r u

Vj ku'cr r ctg p v l p e t g c u g 'k p 'f t { k p i 'u j t k p n e i g 'f g x g n r g f 'k p 'U r c d '5 C 'f w t k p i 'v j g 'u w o o g t 'q h '4232 . " c u 'u j q y p 'k p 'H l i w t g 'E 0 0 V j k u 'k p f l e c v g u 'u g c r p v 'h c k w t g 'c p f . 'u w d u g s w g p v n l . 'k p e q o r t g u k d r g u 'g p v g t g f " L q k p v '4 " q p 'v j g 't k i j v 'u k f g 'q h 'U r c d '5 C 0 V j g 'f k u t g u u 'u w t x g { 'u j q y g f 'v j c v 'v j g 'u g c r p v 'k p 'L q k p w '3 " c p f " 4 " j c f 'r g u u 'f c o c i g 'e q o r c t g f 'v q 'v j g 'u g c r p v 'k p 'L q k p w '9 " c p f " : 'c f l c e g p v 'v q 'U r c d '6 E 0 V j k u 'j g r u 'v q 'g z r n k p " y j { 'v j g 'c r r c t g p v l p e t g c u g 'k p 'f t { k p i 'u j t k p n e i g 'k p k c v g f 'k p 'U r c d '5 C 'v j t g g { g c t u 'c h n g t 'U r c d '6 E 0 V j g t g " y c u 'c n u q 'u r c n k p i 'r t g u g p v 'c n p i " L q k p w '3 " c p f " 4 " d w 'v j c v 'o q u v 'r k n g n l " e c p " d g " c w t k d w g f " v q " r q q t " m c f " v t c p u h t " k p " v j g " w p t g u t c k p g f " * p q " f q y g n u " u r c d " c p f " p q v 'h c k w t g " q h 'v j g " l q k p v 'u g c r p v '0 V j g " h c w n k p i " q d u g t x g f " c v 'L q k p w '3 " v j t q w i j " 6 " k u 'c p q v j g t 'k p f l e c v k p " v j c v 'v j g 'm c f " v t c p u h t " c v 'v j g u g 'l q k p w 'j c u " d g g p " t g f w e g f " c p f " e q w f " d g " e q p v t k d w k p i " v q 'v j g 'u r c n k p i " q d u g t x g f 0 U r c d u '6 D 'c p f " 6 E 'y g t g " e q o r c t g f " v q " g x c n w c g 'v j g 'l p e t g c u g 'k p " c r r c t g p v 'f t { k p i 'u j t k p n e i g 'd g w y g g p 'u r c d u 'v j c v 'j c x g 'u k o k r c t " e q p f k l q p u 'q h " v j g 'u g c r p v 'k p " c f l c e g p v 'l q k p w 0 C u 'u j q y p 'k p 'H l i w t g 'E 0 . " U r c d " 6 D " g z j k d k u " c p " l p e t g c u g 'k p " c r r c t g p v ' f t { k p i 'u j t k p n e i g 'q h 'v j g 'u c o g 'o c i p k w f g " c u 'q d u g t x g f 'k p " U r c d '6 E 0 0 q t g x g t . 'v j k u 'l p e t g c u g 'k p k c v g u " k p '4229 'h q t 'd q v 'U r c d u '6 D 'c p f " 6 E . 'k p f l e c v k p i 'v j g 'u c o g 'r j g p q o g p q p 'k u 'q e e w t t k p i 0 L q k p v '9 'u g r c t c v g u " U r c d '6 D 'c p f " 6 E 0 V j k u 'l q k p v 'j c u 'u k i p h l e c p v 'u g c r p v 'f c o c i g . 'r t q x k f k p i " g x k f g p e g 'v j c v 'v j g 'l p e t g c u g 'k p " c r r c t g p v 'f t { k p i 'u j t k p n e i g 'k u 'e c w u g f " d { 'v j g 'k p v t w u k a p 'q h 'k p e q o r t g u k d r g u 'k p v q 'v j g 'l q k p v 'g p c d r g f " d { " v j g " l q k p v 'u g c r p v 'f c o c i g 0 C u " e c p " d g " u g g p . " y k j " v j k u " v { r g " q h " c p c n u k u . " v j g " g h g e v k x g p g u u " q h " l q k p v ' u g c r p v 'q p 'r c x g o g p v 'r g t h q t o c p e g " e c p " d g " g u c d r k u j g f 0

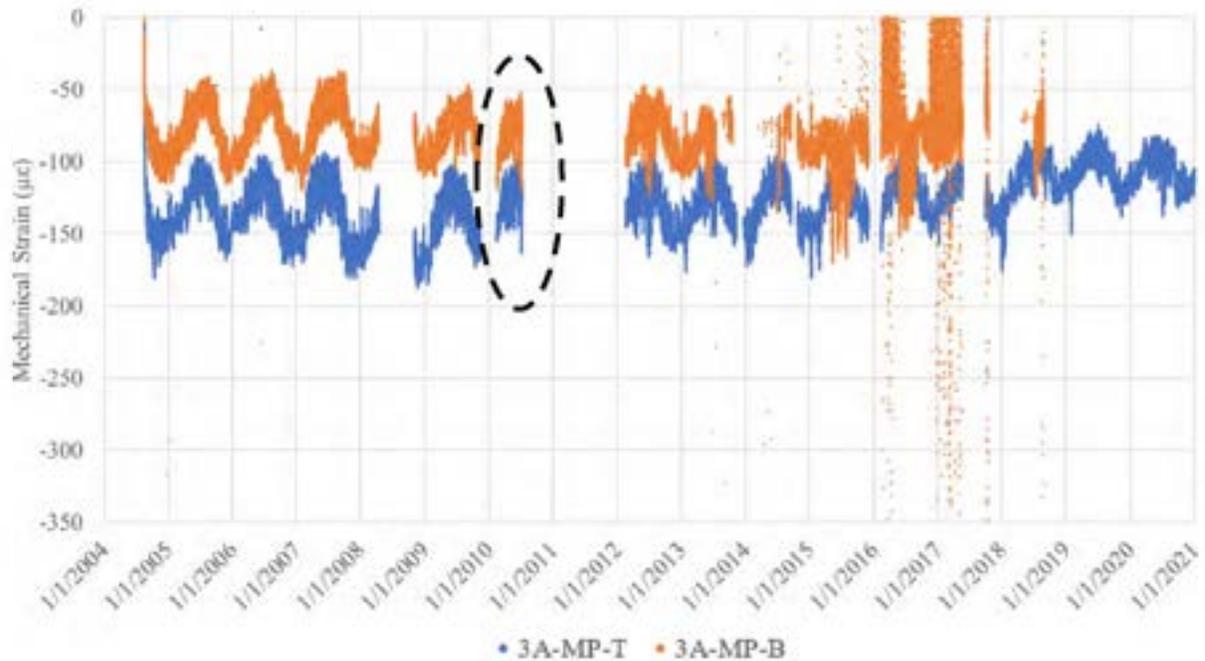


Figure C.6. Drying shrinkage at midslab of Slab 3A at 15-minute intervals

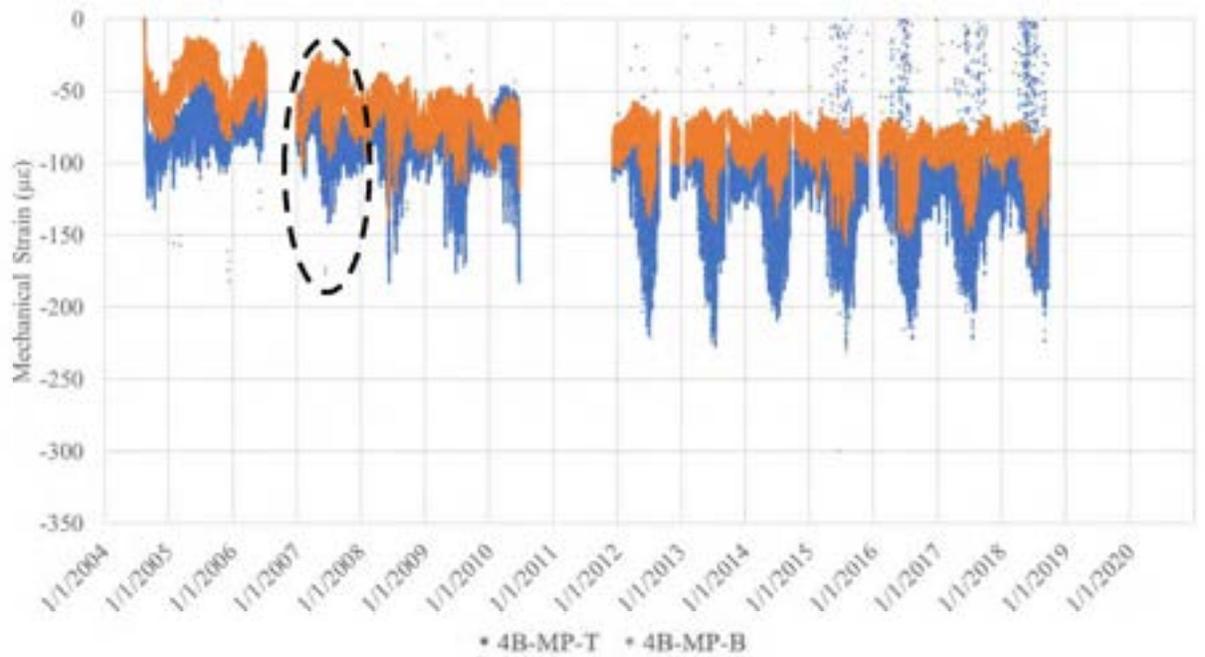
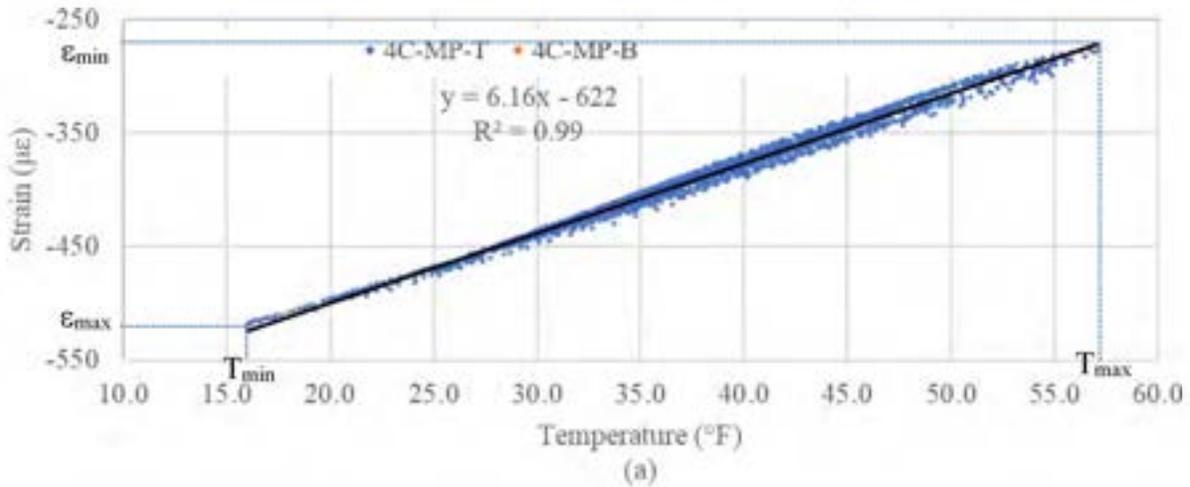
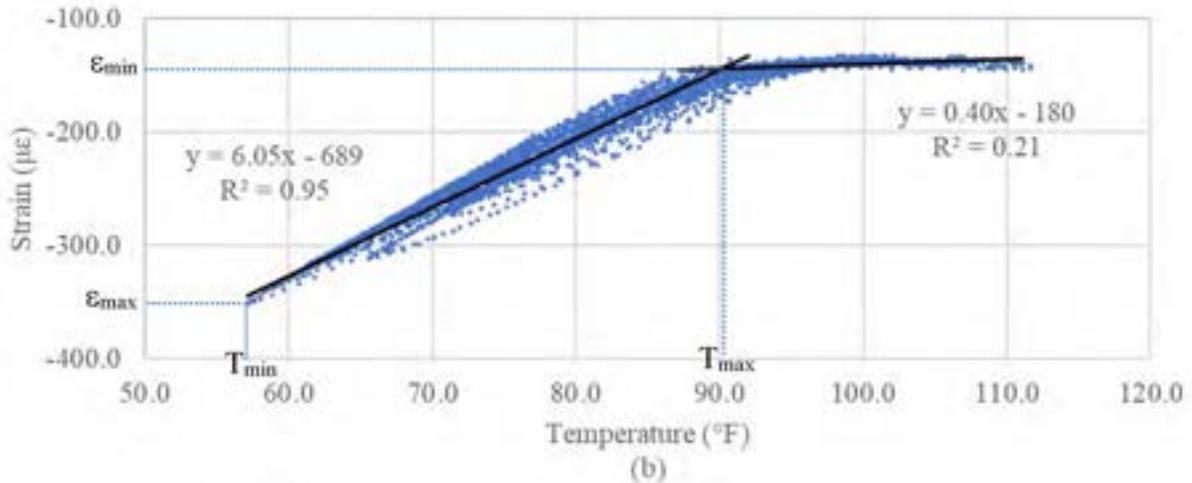


Figure C.7. Drying shrinkage at midslab of Slab 4B at 15-minute intervals

604" Ghge'v'qH'Vgo rgtcwtg

K'y cu'j { r qy guk gf "vj cv'j g'tgur qpug"qh'j g'r cxgo gpv'utwewtg"vq"vgo r gtcwtg"ej cpi gu'ku"c" hwpv'kpp"qh'o qkuwtg"cpf "urcd'tgutckpwa'0Vj"gxcn'evg"vj ku."vj g'r tqegu'f g'xgmr gf "d{ "Dwtpj co "cpf " Mqwcc"4223+y cu'wugf "vq's wcpv'h{ "vj g'ej cpi g'lp'utckp"qh'j g'urcd'r gt'w'pk'ej cpi g'lp'vgo r gtcwtg." y j lej "ku'tghgtgf "vq"cu'vj g"utwewtcr'eqgh'ekp'v'qh'j gto cr'g'zr cpukqp"UEVG+"72_0Hkuv."{ gctn{ " vqcn'utckp"fcv'htqo "4234"vq"4237"y cu'i tqwr gf "d{ "o qpj "uq"vj cv'j g'vgo r qtcn'ej cpi gu'lp"UEVG" eqwf "dg"gxcn'evg'0Vj g'o qpj n{ "vqcn'utckp"y cu'r m'wgf "ci ckpu'vj g'eqtgur qpf kpi "vgo r gtcwtg"ht" gcej "37/o kpwg'kpwgtxcn'0Vj g'urq'g'qh'j g'hp'g'qh'dgu'v'kv'y cu'eqpuk'gtgf "vj g'UEVG"xcn'evg'0Vj"uqo g" ecugu."vj g'tgr'v'kpuj k' "dgw'ggp"vgo r gtcwtg"cpf "utckp"y cu'd'k'p'gct."y kj "kpetgcug'lp"vgo r gtcwtg" r cu'v'cp"l'ph'ge'v'kpp'r q'kp'v' { k'gf kpi "pq"l'petgcug'lp"utckp'0Vj g'ug'ecugu'y gtg'kf gp'v'k'gf "cu'j cxkpi "lq'kp'v' m'emw."cpf "vj g'urq'g'qh'j g'dgu'v'kv'hp'g'ht"vgo r gtcwtg'u'ny gt"vj cp"vj g'k'ph'ge'v'kpp'r q'kp'v'y cu'wugf " cu'vj g"UEVG'Gzco r ng'r m'w"qh'o qpj n{ "UEVG"y kj "dqj "pq"lq'kp'v'm'emw"cpf "lq'kp'v'm'emw"ctg" uj qy p"lp"Hi wtg'E0 0Vj g'UEVG'ht"ku'808" 1A'cpf "pq"lq'kp'v'm'emw"qeewtu'lp"Hi wtg'E0 c0Vj g' UEVG'ku'807" 1A'cpf "lq'kp'v'm'emw"qeewtu'cv'cr r tqzko cvn{ "2A'lp"Hi wtg'E0 d0





*Hli wt g'E0 0Gzco rrg'UEVG'r rqu'fqt 'ecug'y j gt g'*c +pq'lqkv'r qemw' qeewt u.'cpf '*d+lqkv'r qemw' qeewt u*

Vq'f gvgto kpg'yj g'UEVG'y tqwi j qw'yj g'r cxgo gpv.'utckp'f cw'y cu'wugf 'htqo '8'f khtg'gpv'urdu." qh'y j lej 'yj tgg'y gtg'tgutckpgf "urdu'cpf "yj tgg'y gtg'wptgutckpgf 0'k'gcej "urdu."y q'ugpuqtu'y gtg' wugf."qpg'r qecvgf "3'k'htqo 'yj g'qr "cpf "qpg'3'k'htqo 'yj g'dqwqo "qh'yj g'r cxgo gpv'0'Vj g'wptgutckpgf " urdu'j cf "yj tgg'ugpuqtu'r qecvgf "cv'yj g'ncpg'lj qwf gt "eqtpgt"cpf "5'ugpuqtu'cmqpi "yj g'eqtpgt"cv'yj g' egpvgt'kpg'0'Vj g'tgutckpgf "urdu'j cf "hqwt"ugpuqtu'r qecvgf "cv'yj g'ncpg'lj qwf gt "eqtpgt"cpf "y q' ugpuqtu'cmqpi "yj g'eqtpgt"cv'yj g'egpvgt'0'cm'ugpuqtu'kpenwf gf "ctg'qtkpgv'gf "k'yj g'mqpi kwf kpcn'f k'ge'v'k'p" vq'gxcn'w'v'g'tcpuxgtug'lqkv'o qxgo gpv'0'Vj g'o qpj n' "cxgtci g'UEVG'y cu'f gvgto kpgf 'htqo "4234'v" 4237."cpf "yj g'tg'w'w'ctg'w'wo o ctk' gf "k'Vcdrg'E0"cpf "Vcdrg'E0

Vcdrg'E'00Egm5'wpt gunt c kpgf "UEVG"* IÅH+

O qpj /l gct	5C/" EU/V	5C/" EU/D	5D/" EE/V	5D/" EUD	5E/" EE/V	5E/" EE/D	Vqr " Cxi 0	Vqr " UVF gx	Dqwqo " Cxi 0	Dqwqo " UVF gx
Lcpwt{/4234	/	/	/	/	/	/	/	/	/	/
Hdwt{/4234	/	/	/	/	/	/	/	/	/	/
O ctej/4234	804	808	70 :	807	808	803	802	204	804	207
Cr tln/4234	809	809	806	804	805	804	804	209	809	205
O c{/4234	809	804	802	805	807	70 8	809	208	808	204
Lypg/4234	804	802	803	808	808	806	802	204	803	208
Lwn{/4234	803	808	/	805	805	805	804	205	807	202
Cwi wuv/4234	803	807	806	803	807	807	807	204	807	205
Ugr ygo dgt/4234	809	807	804	803	802	804	804	207	803	205
Qevdgt/4234	805	808	803	809	808	808	809	208	806	204
Pqxgo dgt/4234	809	808	70 :	805	808	802	803	206	805	206
F gego dgt/4234	804	807	70 :	808	805	804	806	209	806	202
Lcpwt{/4235	803	809	809	805	804	803	808	206	809	202
Hdwt{/4235	809	805	70 5	806	70 7	807	807	208	806	206
O ctej/4235	808	808	709	805	70 8	802	70 9	208	805	202
Cr tln/4235	806	805	709	802	808	808	805	206	802	206
O c{/4235	809	70 9	803	70 :	804	70 :	802	207	70 3	207
Lypg/4235	809	70 4	/	70 4	805	70 9	807	205	70 9	207
Lwn{/4235	805	807	/	807	805	804	804	209	803	207
Cwi wuv/4235	807	808	808	806	802	809	809	208	807	208
Ugr ygo dgt/4235	804	809	807	802	805	805	804	202	807	207
Qevdgt/4235	802	806	/	809	808	803	804	209	804	207
Pqxgo dgt/4235	/	/	/	/	/	/	/	/	/	/
F gego dgt/4235	/	/	/	/	/	/	/	/	/	/
Lcpwt{/4236	805	803	808	803	808	806	802	208	807	207
Hdwt{/4236	805	804	70 5	808	803	804	804	202	805	204
O ctej/4236	802	806	703	804	70 9	802	70 :	208	805	205
Cr tln/4236	804	808	708	806	70 :	802	70 5	205	808	202
O c{/4236	803	70 9	70 3	708	804	708	806	203	705	204
Lypg/4236	806	70 6	705	70 3	808	70 :	802	204	70 3	202
Lwn{/4236	806	806	804	70 2	808	70 5	805	208	70 :	205
Cwi wuv/4236	805	802	/	804	806	806	803	207	802	207
Ugr ygo dgt/4236	/	/	/	/	/	/	/	/	/	/
Qevdgt/4236	/	/	/	/	/	/	/	/	/	/
Pqxgo dgt/4236	809	802	/	809	808	803	809	207	805	209
F gego dgt/4236	806	805	/	804	805	804	806	207	804	203
Lcpwt{/4237	804	802	/	706	803	70 9	804	207	70 9	202
Hdwt{/4237	803	802	/	70 4	804	70 :	809	208	70 9	202
O ctej/4237	802	806	/	805	804	809	802	205	809	208
Cr tln/4237	803	803	/	808	/	704	803	/	70 5	208
O c{/4237	806	70 5	/	70 4	/	705	806	/	70 5	202
Lypg/4237	806	804	/	705	/	402	806	/	70 8	208
Lwn{/4237	808	/	/	707	/	306	808	/	707	/
Cwi wuv/4237	807	70 :	/	707	/	307	807	/	704	204
Ugr ygo dgt/4237	802	802	/	70 :	/	804	802	/	802	202
Qevdgt/4237	807	802	/	806	/	804	807	/	807	206
Pqxgo dgt/4237	806	804	/	802	/	802	806	/	809	205
F gego dgt/4237	/	/	/	/	/	/	/	/	/	/

Dqf 'lpf lecvu'lqpv'emquw'g'qewt'gf 0Kc'k'eu'lpf lecvu'p'q'lqpv'emquw'g'qewt'gf 0
 ö, ö'lpf lecvu'hwil'qkp'v'qen'w' 'cpf 'j' g'xc'ng'ku'wpt'gr t'guc'p'c'x'g'q'h'j' g'lqpv'o q'xgo gp'0
 ö'ö'egm'lpf lecvu'j' cv'j' gt'g'y' cu'lp'w'w'he'lp'v'f'c'v'q'g'uc'd'rk'j' 'c'UEVG'xc'ng'cpf'ct'g'p'q'p'enf'gf'
 lp'cx'gt'ci'gu

Vcdrg'E60Egm6't gut ckgf "UEVG"* IAH+

O qpy /I gct	6C/" EE/V	6C/" EE/D	6D/" EU/V	6D/" EUD	6E/" EU/V	6E/" EUD	Vqr " Cxi 0	Vqr " UVF gx	Dqwqo " Cxi 0	Dqwqo " UVF gx
Lcpwt{/4234	802;	805	807	809	808	808;	805	203	808	202;
Hdwt{/4234	808	806	806	802	806	808;	803	209	808;	209
O ctej/4234	70 3	803	70 2	805	70 5	70 8	70 3	203	809	205
Cr tkl/4234	802	807;	804;	804;	803	70 ;	802	202;	804;	202
O c{/4234	802	70 5	808	706	70 ;	606;	803	206	707	205
Lypg/4234	70 8	808;	807	707	708	60 2	70 ;	207	709	208;
Lwn{/4234	705	808	70 2	704;	706	606;	70;	202;	707	20 ;
Cwi wuv/4234	804;	804	809	803	807	802;	809	204	809	202
Ugr go dgt/4234	/	/	/	/	/	/	/	/	/	/
Qevdgt/4234	/	/	/	/	/	/	/	/	/	/
Pqxgo dgt/4234	807	80;	809	804	803	809	808;	209	808	205
F gego dgt/4234	/	/	/	/	/	/	/	/	/	/
Lcpwt{/4235	/	/	/	/	/	/	/	/	/	/
Hdwt{/4235	70 6	808;	807;	70 6	807	80;	808;	206	809	208
O ctej/4235	70 4	809	70 3	806	70;	806	70 6	209	804	209
Cr tkl/4235	70 2	804;	70 ;	70 2	70 5	70 ;	70 2	204	808	203
O c{/4235	70 5	802;	808;	708	806	709	808	205	70 3	207
Lypg/4235	804	708	805	60 5	706	40 8	70 5	208	707	207;
Lwn{/4235	70 8	805	70 8	709	707	408;	70 4	208	70 7	20 8
Cwi wuv/4235	804;	802	803	60 4	804;	502	802	203	708	307
Ugr go dgt/4235	/	/	/	/	/	/	/	/	/	/
Qevdgt/4235	807	804	808;	809	/	806	804	202	809	203
Pqxgo dgt/4235	803	804	809	805	808	807	807	205	805	202
F gego dgt/4235	805	808	806	806;	804	806;	802	207	806	202
Lcpwt{/4236	802;	806;	70 4	803	806	808;	804	202;	808	203
Hdwt{/4236	709	803	70 4	809	70 ;	808	70 5	208	807;	207
O ctej/4236	702	806	709	807	706	804	702	208	809	202
Cr tkl/4236	70 8	805;	70 3	70 6	702	803	70;	202;	803	206
O c{/4236	708	704	708	705	607	60 2	708	204	704	209
Lypg/4236	70 8	605	70 3	403	60 ;	30 9	707;	203	605	/
Lwn{/4236	70 8	808;	70 8	708	605	406	707	20 2	70 5	209
Cwi wuv/4236	70 ;	70 6	807	705;	607	40 2	705	20 7	703	204
Ugr go dgt/4236	/	/	/	/	/	/	/	/	/	/
Qevdgt/4236	809	903	808;	802	/	807	805	208	802	209
Pqxgo dgt/4236	802	804	802	804	/	805	807	209	804	202
F gego dgt/4236	805	808;	808;	807	/	802	802	205	803	209
Lcpwt{/4237	70 4	806	70 6	805;	/	806	70 5	204	804	209
Hdwt{/4237	706	807	70 3	804	/	808;	70;	208;	804	209
O ctej/4237	70 7	805	70 7	805	/	806;	70 7	202	804	202;
Cr tkl/4237	70 4	809	70 ;	705	/	704	70 8	207	706	205
O c{/4237	70;	802;	70 7	60 5	607	404	708	203	703	20 4
Lypg/4237	809	70 5	807	608	603	305;	703	20 7	702	306
Lwn{/4237	608	703	608;	30 8	504	406	604	207	703	/
Cwi wuv/4237	707	70 6	70 9	306	407	309	70 3	205	70 6	/
Ugr go dgt/4237	70 9	804	706	702	702;	406	709	204	803	20 8
Qevdgt/4237	802	809	806	70 ;	70 3	702	807	207	804	202
Pqxgo dgt/4237	808;	808;	807	802	808	802	802	207	805;	207
F gego dgt/4237	/	/	/	/	/	/	/	/	/	/

Dqf 'lpf lecvu'lqpv'emqwtg'qewt'gf 0Kc'leu'lpf lecvu'pq'lqpv'emqwtg'qewt'gf 0
 õ, õ'lpf lecvu'hwilqpv'emqwt'cpf 'y'g'xcmg'ku'wptgr'gugpvc'xg'qh'y'g'lqpv'õ qxgo gpv0
 õ'õ'egml'lpf lecvu'y'cv'y'gt'y'cu'lpw'hwilqpv'f'cv'v'g'guc'dkuj 'c'UEVG'xcmg'cpf 'ctg'pqv'lpemf'gf'
 lp'cxgtci'gu0

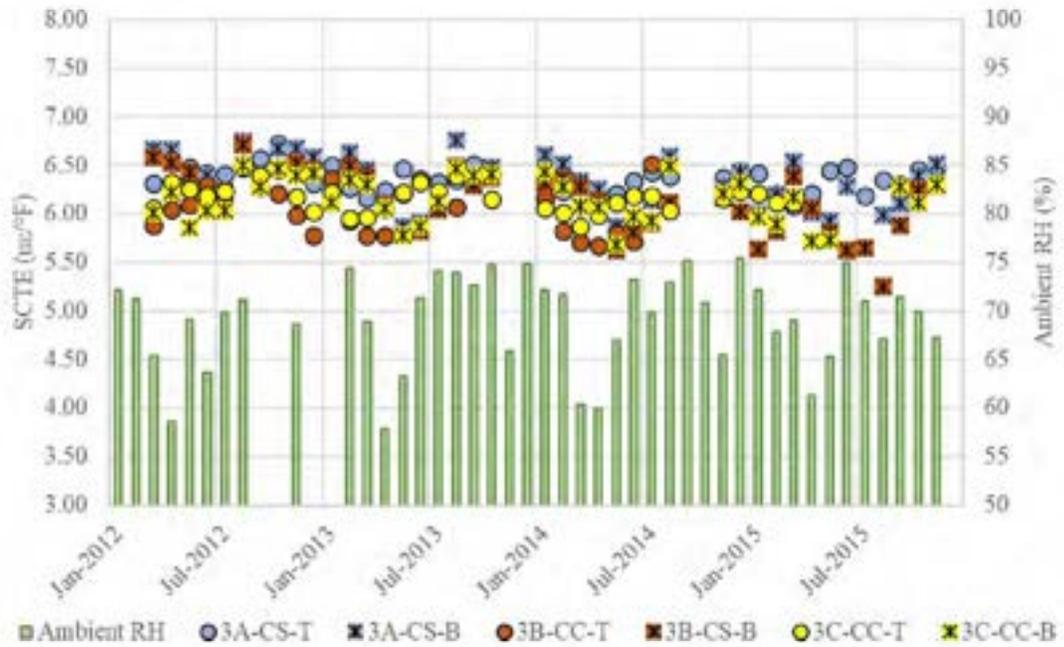
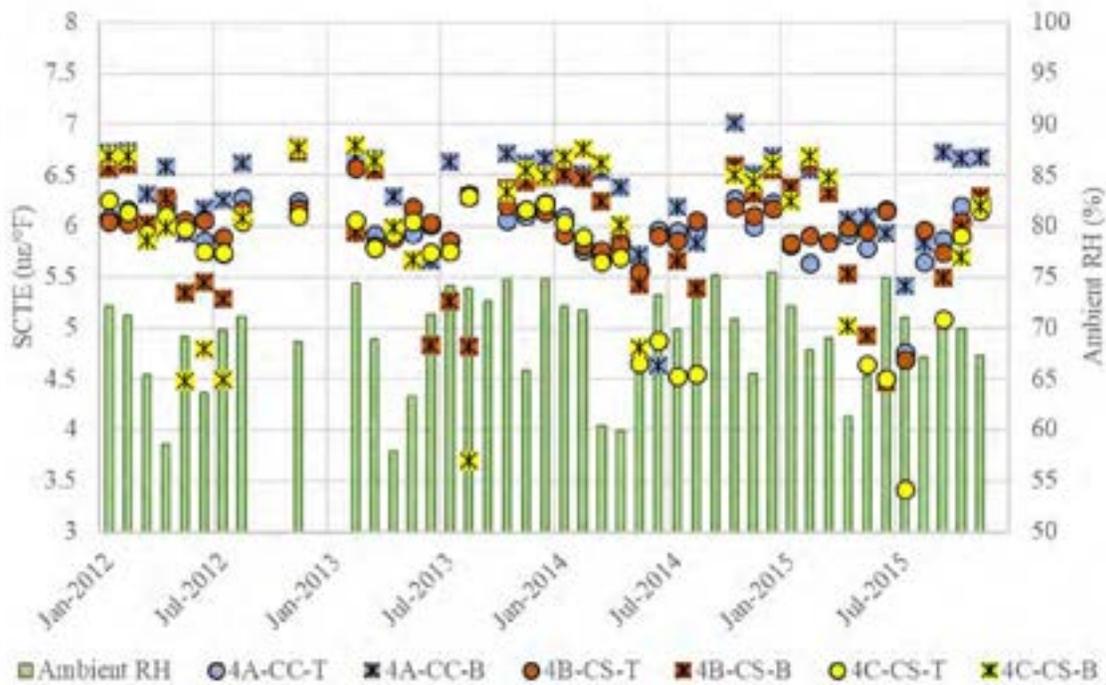


Figure C.9. Unrestrained (Cell 3) SCTE vs ambient relative humidity



*Hli wt g'E020T gut c kpgf '*Egnl6+'UEVG'xu'co dkgpv't gr vkg'j wo kf kf*

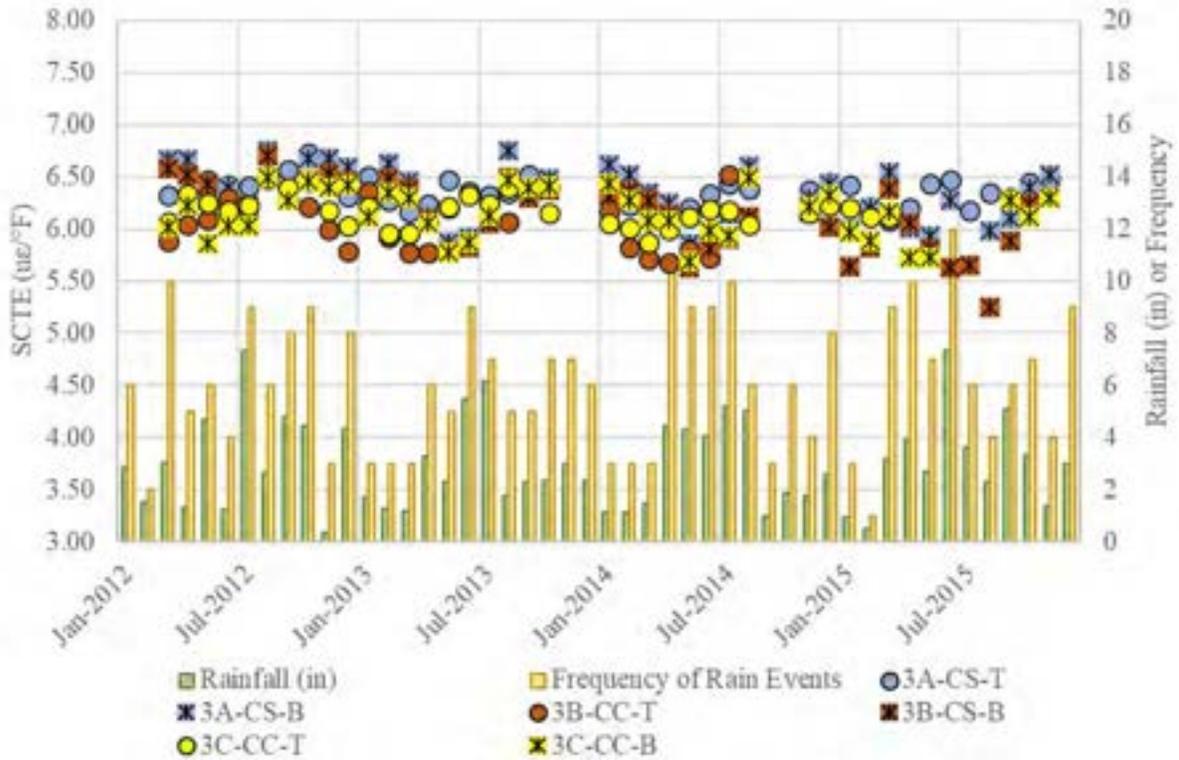
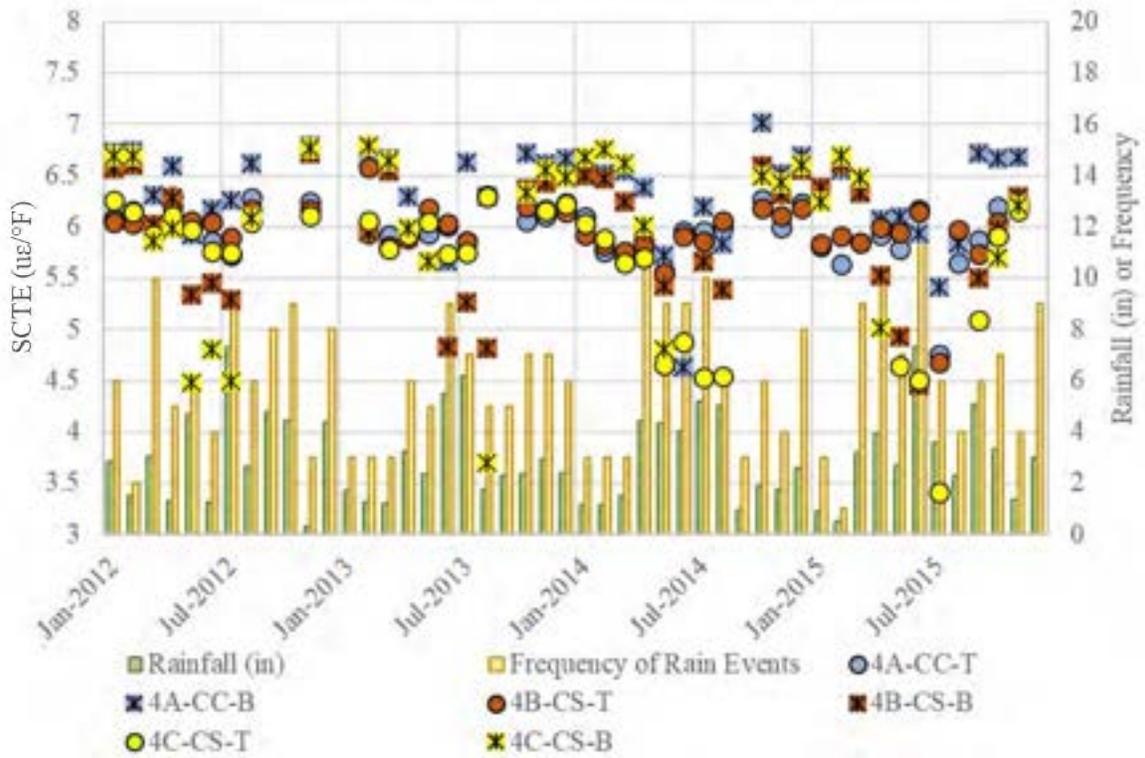


Figure C.11. Unrestrained (Cell 3) SCTE from 2012 to 2015



Hk wt g'E0B40T gnt c kpgf '*Egm6+UEVG'it qo '4234'vq'4237

Vj g'UEVG'ku'qdugtxgf "vq"j cxg"r qukxg"eqttgrvkap"y kj "vj g'TJ ."cu'uggp"kp"Hki wtg'E0 'cpf " Hki wtg'E020Cu'y g'TJ 'kpetgcugu."vj g'UEVG'f qgu'cu'y gni'cpf 'xleg'xgtuc0Vj ku'hwewcvkap"ku'o quv' r tqo kpgpv'qp"vj g'r cxgo gpv'uwthceg"cpf 'rguu'uq'cv'vj g'dqwqo "qh'vj g'urcd'y j gtg'vj g'kpvgtpcn'TJ "qh' vj g'eqpetgvg'ku'rguu'chgevgf "d{ "vj g'co dlgpvt'grvkg"j wo kf kv 0

Vj gtg'y cu'pq"eqttgrvkap"qdugtxgf "dgy ggp"UEVG'hqt"vj g'vqr "qh'vj g'urcd"cpf "Htgs wgpe{ "qt" co qwpv'qh'tckp0J qy gxgt."c"pgi cvkxg"eqttgrvkap"y cu'qdugtxgf "dgy ggp"tckp"cpf "UEVG"cv'vj g' dqwqo "qh'urcd'0K'ku"vj gqt k gf "vj cv'vj g'urcd'uwthceg"ecp'uwthkpgv" f t { "chgt'tckp"gxgpw."y j gtgcu" vj g'dqwqo "qh'vj g'urcd'tgo ckpu'ucwtevgf"cpf "vj gtghqtg"cf getgcug"kp"UEVG'ku'qdugtxgf 0

C"ucvku'ecni'cpcn'uku'y cu'r gthqto gf "vq"s wcpvkh{ "vj g'uki phtecpeg"qh'xctkqwu"r cxgo gpv'cpf " erko cvg'hgcwtgu"qp"UEVG0'Hktuv."; 7' "eqphk f gpeg"kpvtxcnu"y gtg'f gvgto kpgf "hqt"UEVG"cpf "ctg" uj qy p"kp"Vcdrg'E060Vj g'rd'o gcuwtgf 'EVG'qh'703 lAH'cmu'qwu'kf g'cm'vj g'eqphk f gpeg"kpvtxcnu." y j kej "kpf kcvgu"vj cv'vj g'twg"UEVG'xcnwg'ku'rcti gt "vj cp'vj g'rd'o gcuwtgf 'EVG'xcnwg0

Vcdrg'E060; 7' 'UEVG'Eqphk f gpeg'kpvtxcn

Egm	Nqecvkap	; 7' 'Eqphk f gpeg' kpvtxcn* lAH+
5	Vqr	*808.'8049+
	Dqwqo	*808.'8048+
6	Vqr	*704.'708+
	Dqwqo	*804.'8047+

Pgzv."vj g'ghge'v'qh'erko cvg"cpf "r cxgo gpv'hgcwtgu"qp"UEVG"y gtg'gxcnwcvgf 0'Cpcn'uku'qh' Xctkpeg"CPQXC+"vku'kpi "y cu'r gthqto gf "qp"vj g'o qp'vj n' "UEVG."y j krg'eqpukf g'kpi "vj g'hqm'qy kpi " hcevqtu-<t gutckp'v'eqpf k'k'p."ur cv'cn'hqecvkap."o qp'vj ."co qwpv'qh'tckp."cpf "Htgs wgpe{ "qh'tckp"gxgpw0 Vj g'pwn'j { r qvj guku'ucwgf "vj cv'vj g'cxgtci g'UEVG'hqt"cm'rgxgn'qh'c"i kxgp'hcevqt "y gtg'gs wcn"cpf " vj g'cngt'p'cvkxg"j { r qvj guku'y cu'vj cv'cxgtci g'UEVG'f h'htgf 0T guwmu'htqo "vj g'CPQXC"vku'kpi "ctg" uj qy p"kp"Vcdrg'E070Vj g'uki phtecpeg"rgxgn" ."wugf "hqt"cm'ucvku'ecni'cpcn'uku'y cu'2027"*7' -0' O qp'vj u'vj cv'gzr g'k'gpegf "h'mn'l'q'kp'v'rqen'lw "y gtg'tgo qxgf "htqo "vj g'cpcn'uku'ukpeg"vj g'UEVG'f wt'kpi " vj gug'o qp'vj u'ku'wpt gr t'gugp'cvkxg'qh'vj g'cewcn'UEVG'xcnwg0

Vcdrg'E070CPQXC'ht "UEVG

Vtgcwo gpv' Hcevqtu	F gi tggu'qh' Hggf qo	Cf l'wugf "Uwo " qh'Us wctgu	Cf l'wugf "O gcp" Us wctg	H/Xcnwg	R/Xcnwg
Nqecvkap	3	3029	3029	: 075	2026
Tgutckpv	3	7068	7068	6508:	2022
O qp'vj	33	9024	2086	7082	2022
Tckphcm"kp+	9	5053	2069	50:	2023
Hgs0'qh'Tckphcm	33	50:	2056	407	2024

Tguwmu'htqo "vj g'CPQXC"vku'uj qy "vj cv'cm'vtgcwo gpv'hcevqtu"j cf "c"r /xcnwg'rguu"vj cp"vj g' uki phtecpeg"rgxgn'qh'2027."kpf kcvkpi "vj cv'vj g'cxgtci g'UEVG'xctk'f "cu'c"hwpevkap"qh'gcej "hcevqt0

Y j gtg.

ê N_{hgrf'gu0} "hgrf "guko cvgf "o qpj n' "ej cpi g'kp"lqkv'y kf vj . 'o k'
o kp "o kpo wo "utckp"gzr gtlgpegf "kp"i kxgp"o qpj 32/8"
o cz "o czko wo "utckp"gzr gtlgpegf "kp"v'j g'ucio g'o qpj . "32/8"
N"? "urcd'rgpi vj "t'cpuxgtug"lqkv'ur cekpi + "3: 2"kp

Vj g'r tgf levgf "ej cpi g'kp"lqkv'y kf vj "ku" f gvto kpgf "dcugf "qp"vj g'ej cpi g'kp"vj g'vgo r gtcwtg"
tgeqtg'gf "cv'vj g'vko g'vj g'o kpo wo "cpf" "o czko wo "utckpu"qeewtg'0Vj ku'ej cpi g'kp"vgo r gtcwtg'y cu"
vj gp"o wmk rkgf "d{ "vj g'rcdqtcvqt { "o gcuwtg' "E VG"v'f gvto kpg"cp"gs wxcrgpv'ej cpi g'kp"utckp. "y j lej "
ku'vj gp"eqpxgtvgf "v'c"ej cpi g'kp"urcd'rgpi vj . "wulpi "Gs wcvkp"60

ê N_{r tgf levgf "}? "V_{o cz/Vo kp+} N 3222^{o kx} gs 06

Y j gtg.

ê N_{r tgf levgf "}? "r tgf levgf "o qpj n' "ej cpi g'kp"lqkv'y kf vj . 'o kn
V_{o cz} "eqttgur qpf kpi "urcd"vgo r gtcwtg"cv'o kpo wo "utckp"kp"vj g'urcd. "ÅH"
V_{o kp} "eqttgur qpf kpi "urcd"vgo r gtcwtg"cv'o czko wo "utckp"kp"vj g'urcd. "ÅH"
"? "rcdqtcvqt { "eqgtheklgpv'qh'vj gto cngzr cpukqp. "703z32/81ÅH"
N"? "urcd'rgpi vj "t'cpuxgtug"lqkv'ur cekpi + "3: 2"kp

Vj g'o czko wo "cpf" "o kpo wo "utckpu"y g'g'gucdrkuj gf "kp" "c"urki j w' "f khtg'gpv"o c'p'p'g' "hqt" "vj g"
uwo o gt" "o qpj u'vj cv'gzr gtlgpeg "lqkv'mem'w' "eqo r ctgf "v'vj g'eqf gt" "o qpj u'vj cv'f q' "pqv'0Hki wtg"
E0 c'ku'cp"gzco r r'g'r m'v'qh'utckp" f cv' "hqt" "c" "o qpj "y j gp"lqkv'mem'w' "f qgu'pqv'qeew'0K'ku'uggp"vj cv'
gzr cpukqp"qeewu"cu"vj g'vgo r gtcwtg"u'kpetgcug'0Hqt"vj ku'uegpctkq. "vj g'o kpo wo "cpf" "o czko wo "
utckpu"cpf "vgo r gtcwtg"u'wugf "kp"vj g'cpcn'uku"ctg"m'ecv'gf "cv"vj g"y q"gzv'tgo g"gp'f u'qh"vj g'r m'0'
J qy g'xgt. "y j gp"lqkv'mem'w' "qeewu. "utckpu"y kn'tgo k'p"eqpucpv'y k'j "kpetgcugu"kp"vgo r gtcwtg"
chgt "vj g'lqkv'mem'w' 0Vj ku'ku'f gr levgf "qp"vj g'tki j v'ukf g'qh'vj g'i tcr j "kp" "Hki wtg" "E0 d'0Y j gp"vj ku"
qeewu. "y q" "k'p'gct "k'p'gu"ctg' "hk"v'q"vj g' "dk'k'p'gct" f cv' "ug'0Vj g' "unqr g'qh'vj g' "k'p'g"vj cv' "hku"vj g' "utckpu" "hqt"
vgo r gtcwtg" "nguu"vj cp"vj g' "mem'w' "vgo r gtcwtg" tgr t'gug'vu"vj g' "v'wg" "tcvg" "qh" f ghqto cv'kqp" f w' "vq"
ej cpi gu'kp"vgo r gtcwtg'0Vj g'ghqg. "hqt"vj ku'uegpctkq. "vj g'utckp"cpf "vgo r gtcwtg"cv'vj ku'r q'kpv'f gh'k'p'gu"
vj g'o czko wo "vgo r gtcwtg"cpf "o kpo wo "utckp" "o czko wo "gzr cpukqp" + "v' "dg" "wugf "kp" "Gs wcvkp" "5"
cpf "60Vj g'vko g' "lqkv'mem'w' "qeewu"ku'gucdrkuj gf "d{ "vj g'r q'kpv'qh'k'p'v'tugev'k'p'qh'vj g'ug"y q' "k'p'gct"
k'p'gu0

6006" Hgrf "Guko cvgf "O qpj n' "Ej cpi g'kp"lqkv'Y kf vj

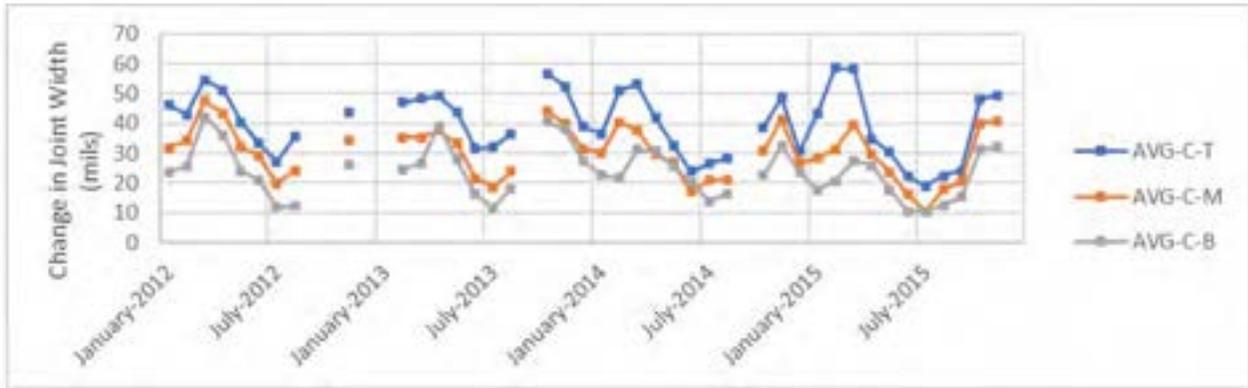
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cpf "r t'gug'pv'gf "kp" "Vcdrg" "E00Vj g'cxgtci g'qh'vj g'o qpj n' "ej cpi gu'kp"lqkv'y kf vj "cv'vj g'vqr" "qh'vj g"
urcd"ku"62"o ku'cv'vj g'eqtpgt "Nqecv'k'p'u"9"cpf "; + "cpf "59"o ku'cv'o k' urcd "Nqecv'k'p'u": "cpf "32+ "y j k'g"
vj g'dq'wqo "qh'vj g'urcd"ku"46"o ku'cv'vj g'eqtpgt "cpf "43"o ku'cv'o k' urcd. "t'gur gev'xgn' 0K' "cf f k'k'p. "vj g"
xctkcdk'k' { "vj tqwi j qw'vj g" { gct "ku'cnuq" "uko k'rc'0Vj g'vqr "qh'vj g'urcd" hqt "vj g'eqtpgt "cpf "o k' urcd "ugpuqtu"
j cf "c" "ucpf ctf "f g'x'cv'k'p' "qh'34" "cpf "35"o ku. "t'gur gev'xgn' . "y j k'g"vj g'dq'wqo "qh'vj g'urcd"j cu'c" "ucpf ctf "
f g'x'cv'k'p' "qh"; "cpf "32"o ku. "t'gur gev'xgn' 0K' "uj q'w'f "dg" "p'q'v'gf "vj cv'f k'htg'g'p'egu"kp"vj g'ug' "xcn'w'g'u't'gh'g'ev'
pqv'qpn' "f k'htg'g'p'egu"kp" t'g'utckp'v'eqpf k'k'p'u"dw'cnuq"ur g'ekcn'f k'htg'g'p'egu"kp"vgo r gtcwtg'u0
K'ku'gzr gev'gf "vj cv'vj g'dq'wqo "qh'vj g'urcd"gzr gtlgpegu"uo cngt "ej cpi gu'kp"lqkv'y kf vj "vj cp"vj g"

vqr "qh'vj g'urcd" dgecwug'vj g'vqr "qh'vj g'urcd" g'zr g'k'p'egu'rcti g't'vgo r g'tcwtg'uy kpi u0J qy gxgt. "k'ku" p'q'v'egf "vj c'v'ur t'kpi "cpf "uwo o g't'o q'p'vj u'c'ewcm' j' cxg'c't'gf w'v'k'p'k'p'vj g'ej cpi g'k'p' l'q'k'p'v'y k'f' vj "gxgp" vj q'wi j "vj gug"ctg'vj g'o q'p'vj u'y k'j "vj g'rcti g'u'v'go r g'tcwtg'uy kpi u0Vj k'u"ku" dgecwug' l'q'k'p'v'm'em'w'r " qeewtu'f w't'kpi "vj gug'v'ko gu'cpf "cf f k'k'q'p'c'n'l'p'et g'cugu'k'p'v'go r g'tcwtg'y k'm'p'q'v'e'q'tt g'r'c'v'g'v'q' "cf f k'k'q'p'c'n' l'q'k'p'v'em'quwtg0

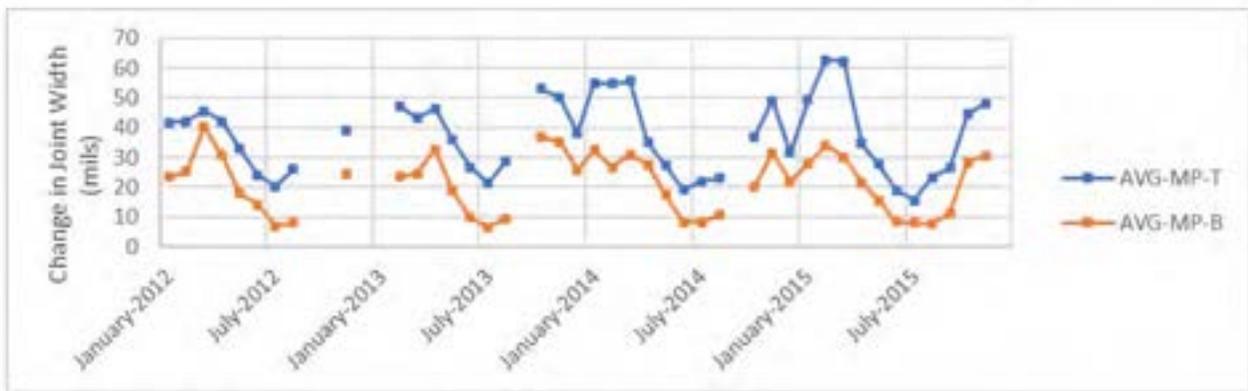
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Vcdrg'E(80Hkgrf "guko cvgf 'lqkpvr gpkpi "cpf "erukpi "
**o ku*

O qpvj /l get	6C/" EE/ V	6C/" EE/O	6C/" EE/D	6C/" OR/V	6C/" OR/D	6D/" EU/V	6D/" EU/O	6D/" EU/D	6D/" OR/V	6D/" OR/D
Icpwct{/4234	73	53	46	63	44	63	55	46	64	47
Hgdwtct{/4234	65	56	48	64	46	64	57	48	65	48
O ctej /4234	7:	74	64	6:	62	73	65	64	65	62
Cr tkr/4234	75	69	59	66	53	6:	62	57	62	53
O c{/4234	64	57	48	58	42	5:	4:	44	52	38
Lwpg/4234	56	53	44	55	39	55	4:	42	4:	34
Lwn{/4234	53	44	34	45	:	46	3:	34	3:	8
Cwi wuv/4234	62	48	37	4:	32	53	44	32	45	8
Ugr ygo dgt/4234	/	/	/	/	/	/	/	/	/	/
Qevqdtg/4234	/	/	/	/	/	/	/	/	/	/
Pqxgo dgt/4234	69	57	49	5;	46	63	55	47	5;	47
Fgego dgt/4234	/	/	/	/	/	/	/	/	/	/
Icpwct{/4235	/	/	/	/	/	/	/	/	/	/
Hgdwtct{/4235	6:	56	46	69	44	69	59	47	6:	47
O ctej /4235	75	53	4:	65	46	66	62	48	65	47
Cr tkr/4235	74	57	62	6:	55	68	62	5:	66	54
O c{/4235	67	55	53	62	42	65	56	46	54	39
Lwpg/4235	54	43	3:	4:	33	53	44	37	46	;
Lwn{/4235	5:	39	35	45	8	48	42	32	3;	9
Cwi wuv/4235	64	46	44	55	32	53	46	36	47	:
Ugr ygo dgt/4235	/	/	/	/	/	/	/	/	/	/
Qevqdtg/4235	7:	64	65	77	59	78	69	5:	74	59
Pqxgo dgt/4235	76	58	5:	72	57	73	65	59	72	58
Fgego dgt/4235	5;	52	4:	5;	47	5;	55	49	5:	49
Icpwct{/4236	42	3:	39	75	53	75	65	4:	79	56
Hgdwtct{/4236	72	62	39	75	47	75	63	49	79	4:
O ctej /4236	7:	58	52	78	52	69	62	55	77	54
Cr tkr/4236	68	55	55	58	4:	5:	49	4:	56	4:
O c{/4236	55	4:	54	4:	42	55	47	3;	49	36
Lwpg/4236	46	3;	42	43	;	46	37	,	39	:
Lwn{/4236	4:	46	39	47	;	47	3:	32	3;	:
Cwi wuv/4236	53	45	43	48	36	47	3;	33	42	9
Ugr ygo dgt/4236	/	/	/	/	/	/	/	/	/	/
Qevqdtg/4236	62	55	46	5:	42	5:	4:	43	58	43
Pqxgo dgt/4236	6:	63	55	6:	53	6:	64	54	6:	54
Fgego dgt/4236	53	4:	47	54	43	52	48	45	53	44
Icpwct{/4237	64	42	3:	6:	49	67	58	39	6:	4:
Hgdwtct{/4237	7:	39	35	83	54	7:	68	4:	86	58
O ctej /4237	7:	56	47	84	49	7:	67	52	85	55
Cr tkr/4237	57	56	54	58	44	57	47	3;	55	44
O c{/4237	53	48	42	54	39	52	43	38	46	36
Lwpg/4237	45	39	35	44	;	44	37	:	38	:
Lwn{/4237	42	32	32	39	:	3;	32	,	36	:
Cwi wuv/4237	3;	3;	35	49	:	48	39	,	3;	9
Ugr ygo dgt/4237	43	44	3:	4:	34	4:	42	35	47	32
Qevqdtg/4237	72	65	56	6:	4:	69	59	4:	63	4:
Pqxgo dgt/4237	73	65	57	6:	52	6:	5:	52	69	53
Fgego dgt/4237	/	/	/	/	/	/	/	/	/	/
Cxgtci g	63	52	47	5;	43	5;	53	45	58	43
Ucpf ctf 'F gx0	34	;	;	34	;	33	32	;	36	33



Hli wt g'EB50C xgtci g'hgrf "guko cvgf "o qpj n' "ej cpi g'lp"lqkv'y kf vj "cv'y g'urcd'eqt pgtu



Hli wt g'EB60C xgtci g'hgrf "guko cvgf "o qpj n' "ej cpi g'lp"lqkv'y kf vj "cv'o kf urcd

600''Rt gf levgf 'Ej cpi g'lp'O qpj n' 'Lqkv'Y kf vj

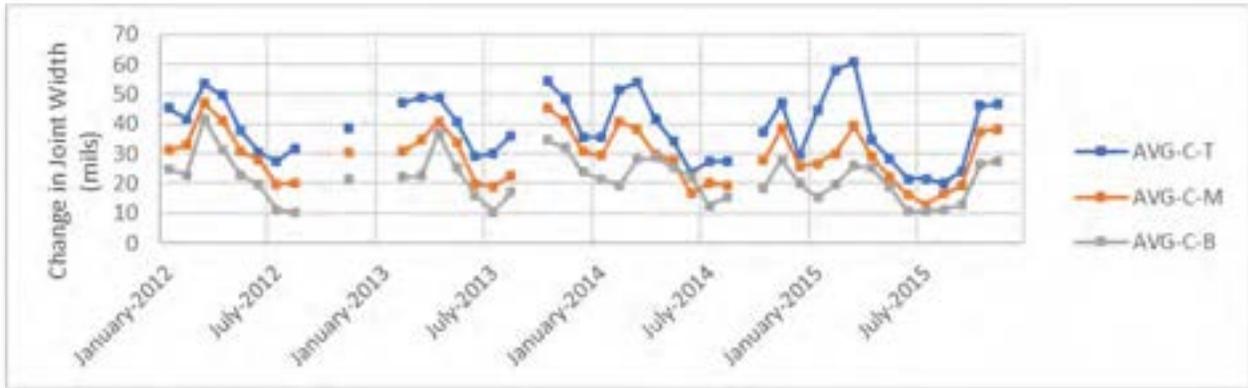
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Nkng'vj g'hgrf "guko cvgf "ej cpi g'lp"o qpj n' "lqkv'y kf vj ."vj g'urcd"gzr gtlgpegf "c'uo cmgt"ej cpi g' lp"lqkv'y kf vj "lp"vj g'ur t'kpi "cpf "uwo o gt"o qpj u'f wg"v' "lqkv'rqem'wr 0'lqkv'rqem'wr "v'f r k'cm' " qeewt'gf "y j gp'vj g'urcd"vgo r gtcwtg'y cu'dgwy ggp'97"cpf "; 2AH'f gr gp'f kpi "qp'vj g'vko g'qh' "gct"cpf " r'q'cvkqp'y kj lp'vj g'urcd0

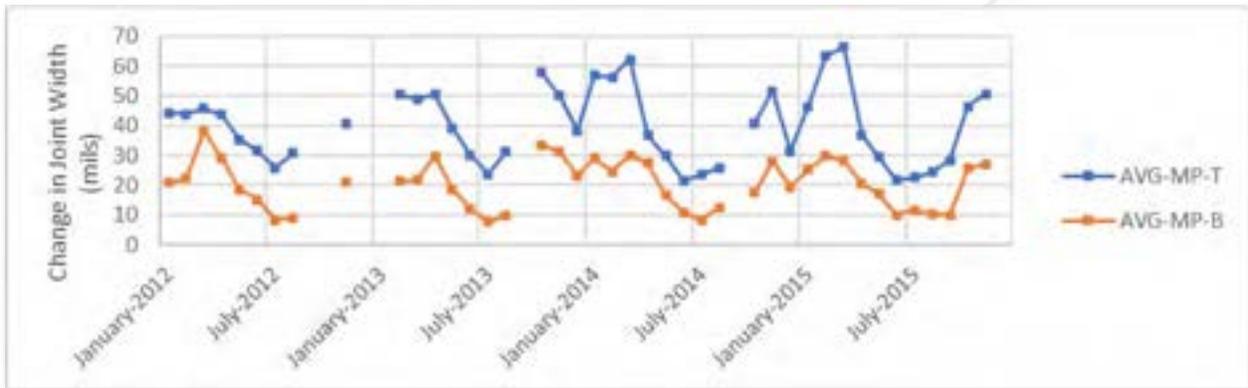
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Icpwct{/4234	72	54	52	66	42	62	52	42	66	43
Hgdtwct{/4234	64	56	46	66	44	63	54	44	66	45
O ctej /4234	78	74	66	6:	5:	73	64	5;	65	5;
Cr tkn/4234	77	67	54	67	4:	67	59	53	64	52
O c{/4234	5;	56	46	5:	42	59	4:	44	54	39
Lypg/4234	52	4;	42	59	3;	53	49	42	57	34
Lwn/4234	54	44	32	4;	:	45	3:	34	45	:
Cwi yuv/4234	58	43	35	55	32	4:	42	:	4;	:
Ugr vgo dgt/4234	/	/	/	/	/	/	/	/	/	/
Qevdgt/4234	/	/	/	/	/	/	/	/	/	/
Pqxgo dgt/4234	62	53	44	63	42	5:	52	43	63	43
Fgego dgt/4234	/	/	/	/	/	/	/	/	/	/
Icpwct{/4235	/	/	/	/	/	/	/	/	/	/
Hgdtwct{/4235	6:	49	45	73	43	69	57	43	72	44
O ctej /4235	74	58	45	6:	43	68	56	44	6:	44
Cr tkn/4235	72	64	58	75	52	6:	62	5:	6:	4;
O c{/4235	65	58	4:	65	43	5;	54	45	57	38
Lypg/4235	52	43	39	54	35	4:	3:	37	4:	33
Lwn/4235	57	3;	33	47	9	47	3;	32	45	;
Cwi yuv/4235	65	47	42	57	33	4;	43	36	49	;
Ugr vgo dgt/4235	/	/	/	/	/	/	/	/	/	/
Qevdgt/4235	76	68	57	7:	55	76	67	56	7:	56
Pqxgo dgt/4235	72	64	55	72	53	69	62	53	72	54
Fgego dgt/4235	58	53	46	5:	45	58	52	45	5:	46
Icpwct{/4236	3:	3:	36	79	4:	74	62	4:	79	52
Hgdtwct{/4236	73	64	36	78	46	74	62	47	78	47
O ctej /4236	84	59	48	85	4:	68	5;	53	84	53
Cr tkn/4236	68	54	52	5:	49	59	49	4:	58	4:
O c{/4236	57	4:	53	52	42	56	49	3;	52	36
Lypg/4236	46	3:	44	45	33	45	37	,	42	33
Lwn/4236	4;	44	37	47	;	48	3:	32	44	:
Cwi yuv/4236	53	43	42	4;	39	46	3:	33	45	:
Ugr vgo dgt/4236	/	/	/	/	/	/	/	/	/	/
Qevdgt/4236	5:	4;	3;	63	39	59	49	3:	63	3:
Pqxgo dgt/4236	69	5;	4;	74	49	69	5:	4:	74	4;
Fgego dgt/4236	52	48	43	54	3;	4;	47	3;	53	42
Icpwct{/4237	67	3:	38	69	47	66	58	37	68	48
Hgdtwct{/4237	7:	39	33	86	4:	7:	66	4:	86	53
O ctej /4237	83	55	44	89	46	82	68	52	88	54
Cr tkn/4237	57	54	54	5:	43	56	48	3;	58	43
O c{/4237	52	45	3;	55	3:	48	43	3;	48	38
Lypg/4237	44	39	34	47	32	43	38	;	3;	32
Lwn/4237	43	35	33	46	33	44	35	,	43	34
Cwi yuv/4237	39	39	33	4:	33	45	39	,	43	;
Ugr vgo dgt/4237	44	3:	36	52	33	49	43	33	49	;
Qevdgt/4237	68	5:	49	72	47	68	59	48	65	48
Pqxgo dgt/4237	69	5;	4:	73	49	69	5:	49	73	4:
Fgego dgt/4237	/	/	/	/	/	/	/	/	/	/
Cxgtci g	62	4;	44	63	42	5:	4;	44	5;	42
UcpOF gx0	34	32	:	34	:	33	32	:	35	:

Dqrf 'lpf lecvu'lqkv'erquwt g'qewt gf 0Kcneu'lpf lecvu'pq'lqkv'erquwt g'qewt gf 0
 õ, õ'lpf lecvu'hwmlqkv'iqen'wr "cpf 'y g'xcnwg'ku'vptgr tguvpc'xg'qh'y g'lqkv'o qxgo gp0
 õ'õ'egml'p lecvu'y cv'y gty' cu'lpw'hl'ekgpf'c'e'q'gucdrkj 'c'UEVG'xcnwg'cpf 'ctg'pqv'lpewf gf "
 lp'cxgtci gu0



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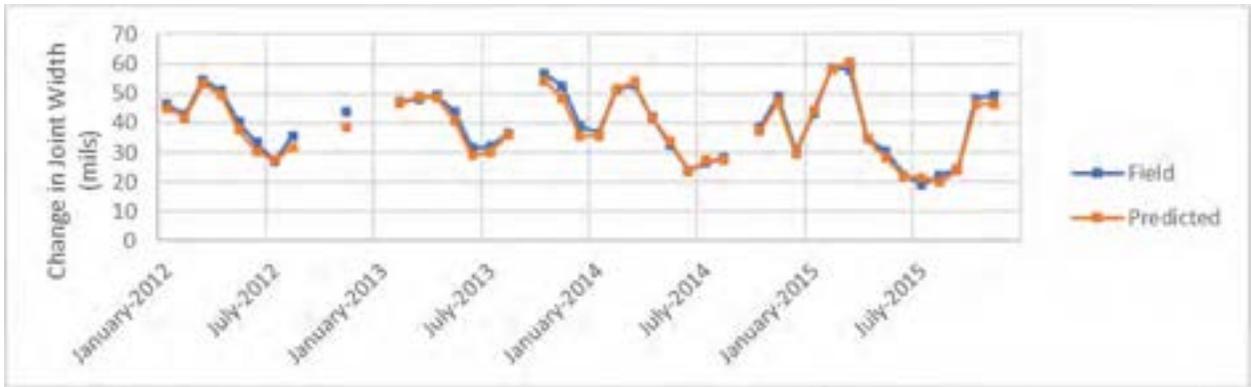


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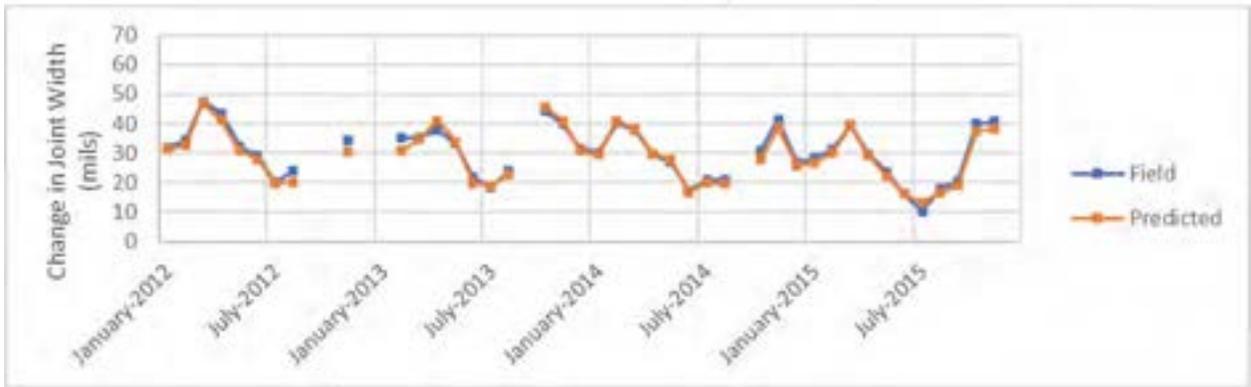
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I tcr j kcrleqo rctkuqpu'qh'y g'hgrf "guko cvgf 'xgtuwu'r tgf kevfg "cxgtci g'o qpj n'ej cpi g'kp'lqkv' y kf vj 'cv'y g'urcd'eqtpgt'ku'uj qy p'kp'Hki wtg'E09'y tqwi j "Hki wtg'E08; 'hqt"y g'vqr .5"kp'htqo "y g" uwtceg."cpf "dqwqo "qh'y g'urcd."t'gur gev'xgn'0K'ku'y qwi j v'y cv'y g'ht'levkp'dgy ggp'y g'dqwqo "qh' y g'urcd"cpf "vqr "qh'y g'dcug"rc{ gt"tgf wegu'y g'qxgtcm'urcd'o qxgo gpv0Hqt"c"urcd"qp"c"urcdk'k' gf "dcug."y g'ht'levkqpcn'eqgh'k'levp'ku'cuwo gf "vq'dg'20870J qy g'xgt."k'ku'ergctn' "uj qy p'kp'Hki wtg'E09" yj tqwi j "Hki wtg'E08; 'y cv'y gtg'ctg'pq"rti g'tgf wekqpu"kp'y g'hgrf "guko cvgf 'o qpj n'ej cpi g'kp" lqkv'y kf vj "eqo rctgf "vq'y g'r tgf kevfg "xcnwg0K'hcev."Hki wtg'E08; 'k'f lecvu'y cv'y g'hgrf "guko cvgf " xcnw'ecp'dg'cewcm' "rti gt'y cp'y j cv'ku'r tgf kevfg 0Vj ku'o quwn' "qeewtu'dgecwug'y g'kp/ukw'E VG"qh' yj g'urcd"ku'urki j vn' "rti gt'y cp'y g'rdqtcvqt{ "o gcuwtgf "E VG"qh'y g'eqpetgv0'Vj g'rdqtcvqt{ " o gcuwtgf "E VG'y cu'703" l'AH'eqo rctgf "vq'cp'kp/ukw'utwewtcn'E VG."r t'gxlqwn' "f gvgto kpgf ."qh' 70 ; " l'AH'cpf "8085" l'AH'hqt"y g'vqr "cpf "dqwqo "qh'y g'urcd."t'gur gev'xgn']85_0'Vj g'r tgf kevfg " o qpj n'ej cpi g'kp'lqkv'y kf vj "ku'f gvgto kpgf "wulpi 'y g'rdqtcvqt{ "o gcuwtgf "E VG0'Vj g'rdqtcvqt{ " E VG"ku'my gt" yj cp'y g'kp/ukw' utwewtcn'E VG."f vg' kp/r ctv' vq" yj g'f k'htg'ppeg" kp" yj g'o qluwtg" eqpf k'k'qpu'qh'y g'rdqtcvqt{ "ur geko gp'kp'eqo rctkuqpu'vq'y g'kp/ukw'eqpf k'k'qpu']85_0'Vj g'tgh'gt."y g'g" ku'c'uo cm'f k'htg'ppeg"kp"y g'r tgf kevfg "o qpj n'ej cpi g'kp'lqkv'y kf vj "y j gp'wulpi 'y g'rdqtcvqt{ " o gcuwtgf "E VG"xgtuwu'y g'kp/ukw'E VG0'Vj g'cxgtci g'f k'htg'ppeg'dgy ggp'y g'hgrf "guko cvgf 'o qpj n' cxgtci g'ej cpi g'kp'lqkv'y kf vj "cpf "y g'xcnw'r tgf kevfg "wulpi 'y g'go r gtcwtg'f cv'y cu'308."20 ."cpf

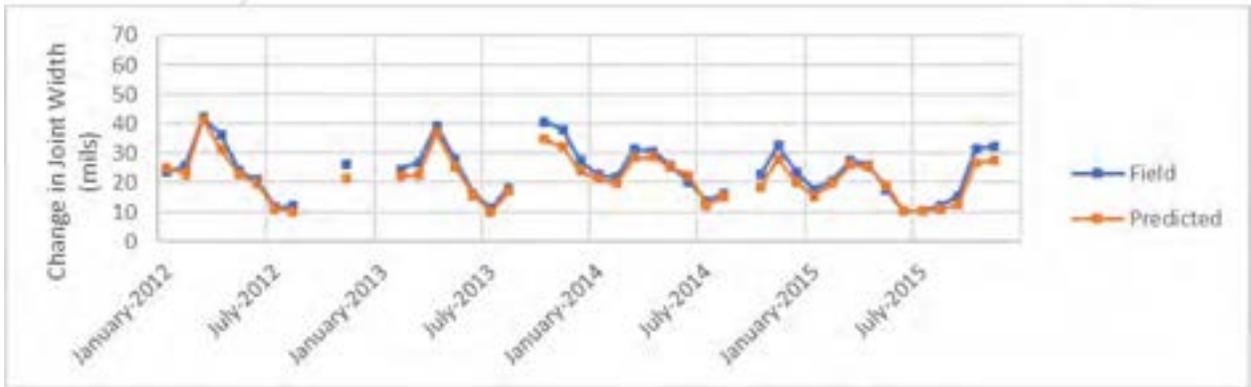
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Hli wt g'EB90Hkgrf "guvko cvqf "xu'r tgf kevqf "cxgt ci g'o qpj r "ej cpi g'kp"lqkv'y kf vj "cv'vj g'vqr "q'lvj g" urcd'kp"vj g'eqtpgtu



Hli wt g'EB: 0Hkgrf "guvko cvqf "xu'r tgf kevqf "cxgt ci g'o qpj r "ej cpi g'kp"lqkv'y kf vj "5'kp'f qy p"kp" vj g'eqtpgtu



Hli wt g'EB; 0Hkgrf "guvko cvqf "xu'r tgf kevqf "cxgt ci g'o qpj r "ej cpi g'kp"lqkv'y kf vj "cv'vj g'dqwqo" q'lvj g'urcd'kp"vj g'eqtpgt

600'DcenEcrewv'f' HtlekqpcnEqghlekpVj gto cniEj cpi gu

Vj g'f guki p'gs wcvkp'wugf 'v'r tgf lev'v'j g'ej cpi g'kp'urcd'ngpi vj . 'y j lej 'ku'gs wxcnrv'v'q'ej cpi g' kp'lqkv'y kf vj . 'ku'r tqxf g'kp'Gs wcvkp'7'J86_0Vj g'HtlekqpcnEqghlekp'kp'Gs wcvkp'7'ceeqwpu'hqt' tguvckpv'kp'urcd'f ghqto cvkp'f wg'v'q'Htlekqpcn'dgw ggp'v'j g'dcug'cpf 'v'j g'wvf gtn' lpi 'rc {gt0

$$\hat{e} N_{f \text{ guki p}} \text{ " ? 'EN*ê V " - " }_{FU} \text{ " } \quad \text{gs 07}$$

Y j gtg.

ê N_{f guki p} " ? 'f guki p'ej cpi g'kp'urcd'ngpi vj . 'kp
 E" ? 'Htlekqpcn'Eqghlekp'v'2087'hqt'urcd'k'k' gf =20 'hqt' i tcvwct'dcug=3'hqt'urcd'qp'uwdi tcf g+
 N" ? 'kp'k'cn'urcd'ngpi vj . 'kp
 V" ? 'vgo r gtcwtg'ej cpi g. "AH
 " ? 'rdqtcvt { 'o gcuwtgf "eqpetgv"Eqghlekp'v'qh'v'j gto cni'g'zr cpukp. "32/8 lAH
 FU" ? 'rdqtcvt { 'o gcuwtgf 'wko cvg'f t { lpi 'uj t'k'nei g'qh'v'j g'eqpetgv. "32/8

K gcm { . 'v'j g'ê N_{f guki p} "Htqo "Gs wcvkp'7'uj qwf "gs wcn'v'j g'ej cpi g'kp'urcd'ngpi vj "guvko cvgf "wukpi "
 vj g'hgrf "f cvc. "ê N_{hgrf 'gu0} "Htqo "Gs wcvkp'5. "qt

$$\hat{e} N_{f \text{ guki p}} \text{ " ? "ê N}_{hgrf \text{ "gu0}} \quad \text{gs 08}$$

Ukpeg'v'j g'hgrf "guvko cvgf "cpf 'r tgf lev'v'j g'ej cpi g'kp'lqkv'y kf vj 'hqt'v'j ku'uwf { 'ctg'f gvgt0 kpgf "qp" c'o qp'v'j n' "dcuku"cpf 'v'j g'f cvc'wugf 'y cu'eqmgev'f "chw't'r cxgo gpv'y cu'qxgt'34" { gctu'qrf . 'k'ecp'dg" cuuwo gf 'v'j cv'f t { lpi 'uj t'k'nei g'y k'n'j cxg'c'o k'p'k' cni'gh'gev'qp'v'j g'r tgf lev'v'j g'ej cpi g'kp'lqkv'y kf vj " hqt'c' i kxgp'o qp'v'j 0Vj wu. 'v'j g'f t { lpi 'uj t'k'nei g'y cv'f g'xgnr u'ecp'dg'cuuwo gf "v'q'dg' } gtq'hqt'Gs wcvkp' 70Dcugf "qp'v'j ku. 'v'j g'Htlekqpcn'Eqghlekp'v'ku'uko r n' { 'v'j g'tcv'q'qh'v'j g'hgrf "guvko cvgf "ej cpi g'kp'lqkv' y kf vj "v'q'r tgf lev'v'j g'xcwv. 'uj qy p'kp'Gs wcvkp'90

$$C = \frac{* o_{cz} / " o_{kp+} \quad N \quad "3222^o \text{ k'v'j}"}{*V_o \text{ cz} / V_o \text{ kp+} \quad N \quad 3222^o \text{ k'v'j}} \quad \text{gs 09}$$

Kp'v'j ku'ecug. 'v'j g'Htlekqpcn'Eqghlekp'v'v'j cv'ku'dgkpi 'f gvgt0 kpgf "ecp"qp' { "dg'cr r r'k'gf "v'q'v'j g' vj gto cni'ej cpi g'kp'urcd'ngpi vj . 'pqv'v'q'v'j g'f t { lpi 'uj t'k'nei g'0Vj g'dcenEcrewv'f 'Htlekqpcn'Eqghlekp'v' hqt'gcej "o qp'v'j "cpf "ugpuqt'ncv'v'q'p'ku'uj qy p'kp'Vcdng'E0 0DcenEcrewv'f 'Htlekqpcn'Eqghlekp'v' vj gto cni'E/xcvw. 'y kj "o qp'v'j n' "cxgtci g'Htlekqpcn'Eqghlekp'v' i tcr j kcm { 'f gr lev'v'j g'kp'Hki wtg'E042" cpf "Hki wtg'E0430Vj g'cxgtci g'dcenEcrewv'f "Htlekqpcn'Eqghlekp'v' i tcr j kcm { 'f gr lev'v'j g'kp'Hki wtg'E042" tgr qtvgf "cv'v'j g'dqwqo "qh'Vcdng'E070Vj gug'xcwv'ctg'o qtg'tgr t'gug'p'cv'xg'qh'c'urcd'qp'uwdi tcf g' f guki p. 'y j gtg'v'j g'Htlekqpcn'Eqghlekp'v'ku'cuuwo gf "v'q'dg'3. "cpf "pqv'c'urcd'k'k' gf "dcug. 'y j lej 'ku'20870

O qp'v'j / l get	6C/" EE/V	6C/" EE/O	6C/" EE/D	6C/" OR/V	6C/" ORD	6D/" EU/V	6D/" EU/O	6D/" EU/D	6D/" OR/V	6D/" ORD
Icpwct { /4234	3025	207	202	205	302:	3024	302:	3088	208	3087
Hgdtwt { /4234	3025	3022	302:	206	3084	3025	302:	3088	20:	3086
O ctej /4234	3026	3022	207	20:	3029	3022	3024	302:	3022	3026

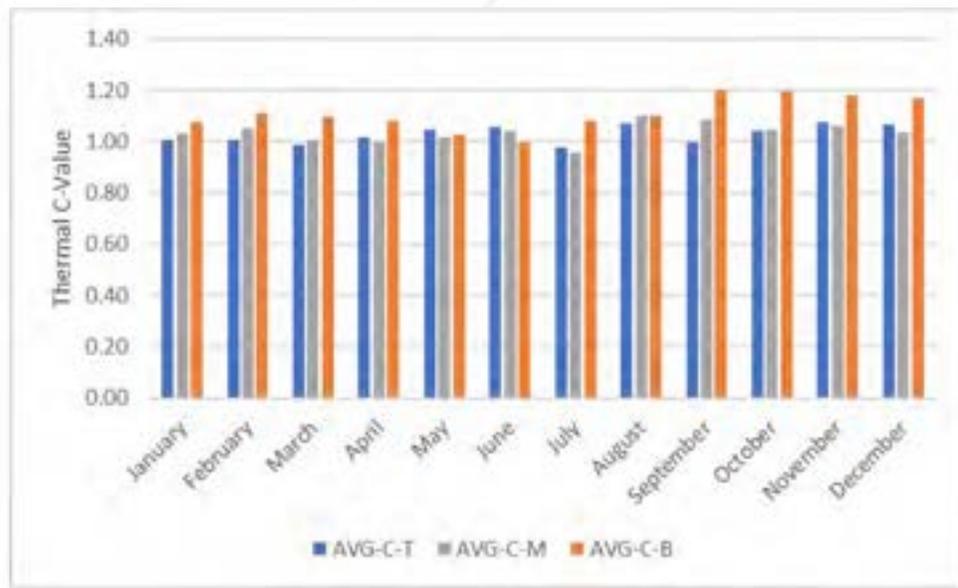
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Cr tkr/4234	20 :	306	309	20 :	302	302	302	307	20 8	306
O c{/4234	302;	307	303	20 5	20 ;	306	308	302	20 6	20 6
Lypg/4234	303	306	303	20 :	20 4	309	306	303	20 4	302
Lwn{/4234	20 9	304	308	20;	20 8	304	302	20 8	209	205
Cwi wuv/4234	303	305	308	20 :	20 5	303	307	303	20 2	20 6
Ugr vgo dgt/4234	/	/	/	/	/	/	/	/	/	/
Qevdgt/4234	/	/	/	/	/	/	/	/	/	/
Pqxgo dgt/4234	309	306	305	20 8	307	302	304	304	20 8	309
F gego dgt/4234	/	/	/	/	/	/	/	/	/	/
Icpwct{/4235	/	/	/	/	/	/	/	/	/	/
Hgdwt{/4235	302	306	307	20 5	302	303	308	307	20 7	305
O ctej/4235	304	20 9	308	20 :	304	20 7	308	309	20 :	306
Cr tkr/4235	306	20 6	303	20 4	302	20 :	302	304	20 4	302
O c{/4235	308	20 4	304	20 4	302	302	307	302	20 4	307
Lypg/4235	309	20 :	302	20 ;	20 2	303	305	20 8	20 9	20 3
Lwn{/4235	302	20 3	306	20 7	20 8	306	307	304	20 6	209
Cwi wuv/4235	20 8	20 :	302	20 5	20 4	302	306	20 ;	20 4	20 ;
Ugr vgo dgt/4235	/	/	/	/	/	/	/	/	/	/
Qevdgt/4235	308	20 3	303	20 6	303	305	306	305	20 ;	302
Pqxgo dgt/4235	302;	20 9	302	302	304	302	309	308	20 ;	305
F gego dgt/4235	302;	20 6	308	302	302	302	302	306	20 ;	305
Icpwct{/4236	305	20 9	308	20 5	303	305	307	303	302	304
Hgdwt{/4236	20 :	20 6	308	20 5	307	302	306	302	304	303
O ctej/4236	20 7	20 8	309	20 2	304	303	303	309	20 ;	307
Cr tkr/4236	302	303	305	20 8	305	305	20 :	303	20 6	20 :
O c{/4236	20 7	302	305	20 7	305	20 9	20 6	20 :	20 :	308
Lypg/4236	20 ;	307	20 2	20 4	20 2	306	302	,	20 9	206
Lwn{/4236	20 8	302	306	20 ;	20 6	20 :	20 9	307	20 :	304
Cwi wuv/4236	302	304	309	20 :	20 3	309	306	304	20 ;	20 3
Ugr vgo dgt/4236	/	/	/	/	/	/	/	/	/	/
Qevdgt/4236	307	307	304	20 4	308	304	308	302	20 :	308
Pqxgo dgt/4236	306	307	309	20 7	304	306	302	307	20 7	305
F gego dgt/4236	307	307	302	303	303	306	306	308	20 ;	305
Icpwct{/4237	20 5	305	304	307	302	304	304	308	309	304
Hgdwt{/4237	20 :	304	308	20 8	302	305	307	303	303	309
O ctej/4237	20 8	307	309	20 4	304	20 8	20 9	20 ;	20 7	305
Cr tkr/4237	20 ;	307	304	20 7	307	304	20 :	305	20 4	306
O c{/4237	305	303	308	20 7	20 6	304	302	20 4	20 5	20 :
Lypg/4237	304	306	309	20 3	20 2	306	20 7	20 9	20 5	20 3
Lwn{/4237	20 5	20 2	20 ;	202	207	20 7	20;	,	209	204
Cwi wuv/4237	303	304	304	20 9	208	305	305	,	20 5	20 4
Ugr vgo dgt/4237	20 8	305	304	20 7	303	306	20 7	302	20 3	309
Qevdgt/4237	309	304	306	20 8	302	303	303	304	20 8	303
Pqxgo dgt/4237	302;	302	304	20 8	303	305	306	304	20 6	305
F gego dgt/4237	/	/	/	/	/	/	/	/	/	/
Cxgtci g	305	305	305	20 5	304	305	306	309	20 4	304
Ucp0F gx0	208	202	202	208	204	207	209	202;	209	207

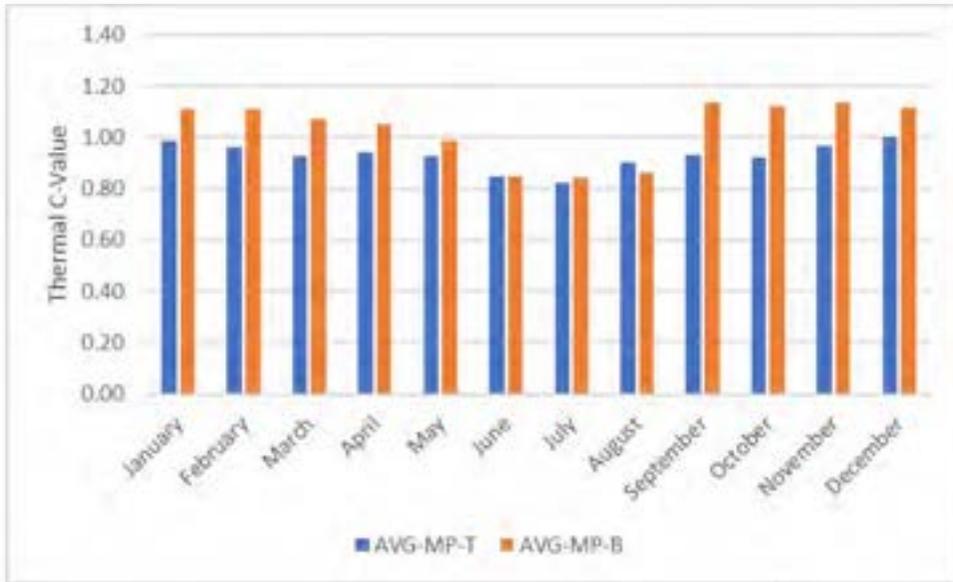
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 ô/ô'egnilpf lecyu'y cv'y gt'g'y cu'lpwllkegpv'f cv'v'q'gucdrkuj 'c'UE VG'xcnwg'cpf 'ctg'pqv'kpenwf g'
 lp'cxgtci gu0

Vj gug'hpf lpi u'lpf lecvg'vj cv'vj g'ej cpi g'lp'lqkv'y kf vj 'f wg'vq'ej cpi gu'lp'vgo r gtcwtg'ku' o wej 'rti gt'vj cp'y j cv'ku'ceeqpvgf 'hqt'lp'vj g'f guki p'r tgegu0Vj ku'r qvkvcm' 'ecp'j cxg'cf xgtug' eqpugs wpegu'qp'vj g'r gthqto cpeg'qh'vj g'lqkv'ugcrp0'Gzeguukxgn' 'rti g'lqkv'qr gplpi u'lp'vj g' y kvgt'vj cv'ctg'wpcceqpvgf 'hqt'ecp'tguwv'lp'utckpu'lp'vj g'ugcrpv'vj cv'gzeggf 'vj g'cmjy cdng'utckp' vj tguj qrf 'tguwv'lp' 'lp'cf j gukxg'qt'eqj gukxg'rcnwtgu0

Hki wtg'E042'čpf 'Hki wtg'E043'uj qy 'vj cv'vj g'rti guv'ht'levkqpcn'eqgh'lekp'v'ku'qdugtxgf 'lp'vj g'hcm' cpf 'y kvgt'o qpvj u'y j gp'lqkv'emqwtg'f qgu'pqv'qeewt'cpf 'vj g'lp/ukw'utwewt'cn'E'VG'ku'rti guv']85_-' y j kv'vj g'uo cmgt'ht'levkqpcn'eqgh'lekp'w'ctg'qdugtxgf 'lp'vj g'ur tkpi 'cpf 'uwo o gt'o qpvj u'y j gp'lqkv' emqwtg'qeewt'0'Vj ku'ku'gur gekcm' 't wg'hqt'vj g'o kf urcd'dcenecrewr'v'f 'ht'levkqpcn'eqgh'lekp'v'0'Vj g' tgf wekv'lp'vj g'ht'levkqpcn'eqgh'lekp'v'lp'vj g'ur tkpi 'cpf 'uwo o gt'o qpvj u'ku'rkgn' 'dgecwug'vj g'hgrf' guko cvgf 'cpf 'r tgf levf' lqkv'emukpi u'ctg'uo cm'k0'ngui'vj cp'32'o ku'eqo r ctgf 'vq'o qpvj u'y j gp' lqkv'emqwtg'f qgu'pqv'qeewt'0'U'peg'vj g'dcenecrewr'v'f 'ht'levkqpcn'eqgh'lekp'v'ku'vj g'tcvq'qh'vj g' r tgf levf 'v' hgrf' guko cvgf 'ej cpi g'lp'lqkv'y kf vj .u'cm'f'k'ht'gpegu'dgy ggp'vj g'r tgf levf 'cpf' hgrf' guko cvgf 'xcnw'ecwug'rti g'ej cpi gu'lp'vj g'ht'levkqpcn'eqgh'lekp'v'0'ht'gzco r ng.'ugpuqt'6C/EE/' V'j cf 'c' hgrf' guko cvgf 'cpf 'r tgf levf 'ej cpi g'lp'lqkv'y kf vj 'qh'73'cpf '72'o ku.'tgur gev'xgn' .lp' Lcpwt'{'qh'42340'lp'F gego dgt'qh'4236.'vj g'hgrf' guko cvgf 'cpf 'r tgf levf 'ej cpi g'lp'lqkv'y kf vj 'y cu' 53'cpf '52'o ku.'tgur gev'xgn' 0'Vj g'f'k'ht'gpeg'v' dgy ggp'vj g'hgrf' guko cvgf 'cpf 'r tgf levf 'ej cpi g'lp' lqkv'y kf vj 'ku'qpn' '3'o k0J qy gxgt.'vj g'hgrf' guko cvgf 'ej cpi g'lp'lqkv'y kf vj 'lp' Lcpwt'{'qh'4234'ku' rti gt'vj cp'vj cv'lp'F gego dgt'qh'42360'Vj g'ghqtg.'y j gp'vj g'r tgf levf 'ej cpi g'lp'lqkv'y kf vj 'ku' pqto crk'gf 'd'{'vj g'hgrf' guko cvgf 'xcnw.'vj g'tg'y km'dg'c'rti gt'ej cpi g'lp'vj g'ht'levkqpcn'eqgh'lekp'v' hqt'F gego dgt'4236'dgecwug'vj g'f gpqo kpcvt'ku'uo cmgt'0'Vj ku'ku'o qtg'pq'v'egcdng'hqt'vj g'o qpvj u' y kv' lqkv'mem'w' 'u'peg'vj g'hgrf' guko cvgf 'ej cpi g'lp'lqkv'y kf vj 'ku'uo cmgt'lp'vj qug'o qpvj u' eqo r ctgf 'vq'vj g'hcm'čpf 'y kvgt'o qpvj u'y j gp'lqkv'mem'w' 'f qgu'pqv'qeewt'0



Hki wtg'E0420Cxgtci g'o qpvj n'ht'levkqpcn'eqgh'lekp'w'vj g'to cn'dcenecrewr'v'f 'hqt'eqtpgt'utckpu' *4234'vj tqwi j '4237+



Hki wtg'E030Cxtci g'o qpvj r'it levkqpcn'eqghhlekpvu'vj gto cn'dcenecrewrcvgf 'hqt 'o kf urcd' utckpu'4234'vj tqwi j '4237+

Vq" guvdrkuj "c" tgr tguvpcvkg" hle vkqpcn' eqghhlekpv." vj g" ur cvkn' xctkcdkxk{ "o wuv' hktuv" dg" kpxguni cvgf O' Hki wtg" E03" cpf " Hki wtg" E04" uj qy " uqo g" ugcupcn' xctkcvkp" kp" vj g" hle vkqpcn' eqghhlekpvu' uq' qpn' 'vj g' xcnwgu' kp' vj g' eqrf gt "o qpvj u' P qxgo dgt. 'F gego dgt. 'Lcpwct { . 'cpf 'Hgdwtct { + ctg' eqpukf gtgf "ukpeg" vj ku' ku' y j gp' vj g' lqkv' y kf vj 'y km' dg' vj g' y kf guv' hktuv. 'c' r cktgf 'Vgvuv' uj qy gf . " y kj "c"; 7' "rgxgn' qh' eqphk' gpeg. 'vj cv' vj gtg' ku' pqv' c' uvcv' ukecm' "uki p' hle cpv' f' hhtg' gpeg" dgvy ggp' "vqr " cpf "dqwqo "qh' vj g' urcd' tgi ctf nguu' qh' vj g' ugpuqt' hqecv' kp' "9. : . ; . '32-0Vj g' r / xcnw' hqt' gcej ' hqecv' kp' " y cu' 2022. " 2022. " 2025: . " cpf " 2022. " tgr ge' v' xgn' O' T guvnu' kpf lecv' vj cv' vj gtg' ku' c' uvcv' ukecn' f' hhtg' gpeg" dgvy ggp' vj g' vqr " cpf " dqwqo " qh' vj g' urcd' cv' cm' hqt' hqecv' kp' u' Ukeg' lqkv' ugc' rpu' ctg' r rceg' f' cv' vj g' vqr " qh' vj g' urcd. 'vj g' hqewu' y km' dg' qp' f' cv' eqmgevgf " hqt' qo " vj g' vqr " ugpuqtu' OC' r cktgf 'V gvuv' cnuq' uj qy gf . 'y kj "c"; 7' "rgxgn' qh' eqphk' gpeg" r / xcnw' ? " 2056; + " vj cv' vj gtg' ku' pqv' c' uvcv' ukecm' " uki p' hle cpv' f' hhtg' gpeg" kp' hle vkqpcn' eqghhlekpvu' guvdrkuj gf " p' gct' vj g' v' cpuxgtug' lqkv' cpf " cf' lcegpv' vq' " vj g' egpv' t' r' p' r' k' p' cn' lqkv' " Nqecv' kp' " 9+ " cpf " cf' lcegpv' vq' " vj g' ewd' " cpf " i' wwt' " Nqecv' kp' " ; +0' J qy gxgt. " vj gtg' ku' c' uvcv' ukecm' " uki p' hle cpv' f' hhtg' gpeg" cv' c"; 7' " eqphk' gpeg' rgxgn' r / xcnw' ? " 2022+ " dgvy ggp' vj g' hle vkqpcn' eqghhlekpv' guvdrkuj gf " wukpi " vj g' o' kf urcd' r' cpgn' ugpuqtu' eqo r cktgf " vq' " vj g' eqtpgt' ugpuqtu' OC' uwo o ct { " qh' vj g' hle vkqpcn' eqghhlekpvu' hqt' vj g' ugd' uwdi tqw u' ku' r' tqxk' gf " kp' " Vcdng" E0 OCi ckp. 'vj ku' ku' qpn' ' hqt' vj g' o' qpvj u' qh' P qxgo dgt. 'F gego dgt. 'Lcpwct { 'cpf 'Hgdwtct { OC' urki j v' " eqpugt' xcv' kg' cr r tqcej ' y qwf " dg' vq' guvdrkuj " vj g' hle vkqpcn' eqghhlekpv' d' { ' k' pet' g' cul' pi' vj g' cxgtci g' qh' " vj g' vqr " ugpuqtu' cv' o' kf r' cpgn' cpf " kp' vj g' eqtpgtu' d' { ' q' pg' u' c' p' f' ctf " f' g' x' k' v' kp' " cpf " vj g' p' v' cn' k' pi' " cp' cxgtci g' qh' vj g' y q' hqecv' kp' u' Vj ku' y qwf " dg' cr r tqzko cvgn' " 30270

Vcdrg'EQ 0Y kvgt 'vj gto cnlf kvkqpcn'eqghlekgru

	O k r cpgn		Eqtpgt	
	Vqr	Dqvwqo	Vqr	Dqvwqo
J li j	3029	3039	3039	3045
Nqy	20 5	3027	20 5	20 2
Cxi	20 :	3034	3026	3035
Ucp0F gx0	2026	2025	2027	202;

Htqo "rtgxkqu"tgugctej "qp"vj ku'r cxgo gpv'ugevqap."vj g'utckp"fcv"y cu"wugf "vq"guvcdrikuj "vj g' cxgtci g"kp/ukw"EVG"cpf "ft{ kpi "uj tlpnci g"ctg"70 ; " lAH"cpf "375" . "tgr gevkgnt "85_0Vj g' rcdqtcvqt {"o gcuwgf "EVG"y cu"703" lAH"cpf "vj g'cxgtci g'ft{ kpi "uj tlpnci g'o gcuwgf "kp"vj g' rcdqtcvqt {"ku"842" O'K'ku'p'v'egf "vj cv'vj g'kp/ukw"EVG"ku'tgr'v'xgnf "erqug"kp"o ci pkwf g"vq"vj g'kp/ukw' xcnwg."cpf ."kp"hev."vj g'tcvq"qh"vj g'kp/ukw"vq"red"o gcuwgf "EVG"ku"30250Vj ku"ku"qpnf "c"30 ' " f khtgpeg"dgw ggp"vj g'tcvq"ht"vj g'htkvkqpcn'eqghlekgrv."3027."cpf "vj g'tcvq"qh"vj g"EVG0'kp" cffkqap."qpnf "cdqw"47' "qh"vj g'ft{ kpi "uj tlpnci g'y cu'tgr'k'gf "kp"vj g'r cxgo gpv'0Vj g'tgf wkvqap"kp" ft{ kpi "uj tlpnci g'y cu'f gvto kpgf "vq"dg'r tko ctka "kphwpegf "d{ 'r cxgo gpv'tgvtckp'v'eqpf kqpu'cpf " cp'kpetcgug'kp"vj g'o qkuwtg'eqpv'q'v'qh"vj g'r cxgo gpv'xgtuuv'vj g'rcdqtcvqt {"vuv'ur geko gpu"85_0Vj ku" kpf lecvu" y q"ugr ctcvq"htkvkqpcn'eqghlekgru"uj qwf "dg" wugf "kp"Gs wkvqap"3."qpg"ht"vj gto cnf gzcrcpukqap"cpf "qpg"ht"ft{ kpi "uj tlpnci g'0Vj wu."Gs wkvqap"3"dgeqo gu0

ê N? N*E_{vj go} ê V - E_{FU} F_U"

gs 0

Y j gtg.

E_{vj go} "? 'htkvkqap'hevqt'ht'rcdqtcvqt { 'EVG

E_{FU} "? 'htkvkqap'hevqt'ht'rcdqtcvqt { "wko cvg"ft{ kpi "uj tlpnci g

Hqt "vj g'r cxgo gpv'kp"vj ku'uwf { ."vj g'E_{vj go} "y qwf "dg"3027"cpf "EF U"y qwf "dg"er r tqzko cvgnf " 20470K'uj qwf "dg"p'q'v'g' "vj cv'vj gug'xcnwg"ctg'ur gekhe"vq"vj ku'r cxgo gpv'dw'vj g'hev'vj cv'vj gug'xcnwg" ctg'uwdncp'v'cmf "f khtg'gpv'htqo "y j cv'ku'eqpewtgpv' "wugf "y j gp'f guki plpi "lqkv'tgugtxqktu'kpf lecvu" vj cv'c'tg/gxcnwkqap"qh"vj g'ewtgpv' "wugf "xcnwg"ku'y cttcpv'g'0

Vj g'ewtgpv' "wugf "htkvkqpcn'eqghlekgrv"*2027"ht" c"ucdrk'gf "dcug+"y cu"wugf "cnpi "y kj " Gs wkvqap"3"cpf "vj g'y q'pgy n' "f gxrqr gf "htkvkqpcn'eqghlekgru"*3027"ht"vj gto cnlf ghqto cvkqap"cpf " 2047"ht"ft{ kpi "uj tlpnci g+"cpf "Gs wkvqap": "y gtg" wugf "vq" f guki p" c"lqkv'tgugtxqkt"ht"vj g"UT/44" r cxgo gpv'0Vj g"EVG"cpf "ft{ kpi "uj tlpnci g'o gcuwgf "kp"vj g'rcdqtcvqt {"ht"vj g'eqpetgv'wugf "vq"r cxg" UT/44"y gtg"cnq" wugf 0Vj g'urcd"ngpi vj "ku"3: 2"kp"cpf "vj g"ej cpi g"kp"vgo r gtcwtg"ku": 2AH'0Vj ku" cuwo gu'vj g'vgo r gtcwtg'qh"vj g'eqpetgv'cv'vj g'vko g'qh'ugc'kpi "ku"; 2AH'y kj "c"o kpo wo "vgo r gtcwtg" qh"32AH"y j lej "y cu'f gvto kpgf "htqo "vgo r gtcwtg"fcv"htqo "vj g'utckp"i ci g'0Vj gug'kpr wu"y gtg" wugf "vq"ecr'w'v'g'vj g'ej cpi g'kp'ngpi vj "qh"vj g'urcd'0Vj g'ej cpi g'kp'ngpi vj "qh"vj g'urcd'y cu'vj gp'f k'k'gf " d{ "vj g'cnqy cdrg'utckp"qh"2042."y j lej "y cu'f gvto kpgf "htqo "ikvgtcwtg"cu'vj g'tgeqo o gpf gf "xcnwg" ht"cp"cur j cn'ugc'rcp'0Vj g'tgs vktgf "t'gugtxqkt"y kf vj "ht"vj g'ewtgpv'o gj qf "y kj "qpg'htkvkqpcn'xcnwg" ku"2009"kp"eqo r ctf "vq"2079"kp"ht"vj g'pgy "o gj qf "y kj "y q"htkvkqpcn'eqghlekgru'0Vj ku"ku" c"52" r gtegpv'f khtgpeg"dgw ggp"vj gug'v'q'o gj qf u0

Vcdrg'EØ20Gzco rrg't gugt xqkt 'y kf vj 'ecrewxkqpu

	P gy "	E wt t gpv"
	*Gs we vkkp'! +	*Gs we vkkp'3+
E vj gto	3027	2087
EFU	2047	
N.'lp	3: 2	
EVG." 1ÅH	703	
V.'ÅH	: 2	
F00"	842	
N.'lp	2083	2088
Cmgy cdirg'Uvt clp	2042	
T gugt xqkt 'Y kf vj . 'lp	2079	2099

702'E qpenwkkp

F t { kpi "uj tlpnci g"cpf "eqghlekpv'qh'vj gto cni'gzi cpukqp"*EVG+'ctg'y q"ng{"r ctco gvtu"vj cv' chge'vj g'rupi /vto 'r gthqto cpeg'qh'eqpetgv'r cxgo gpv'cpf "vj g'gz vgpv'v'q'y j lej 'c'r cxgo gpv'lqkv' qr gpu."cpf "j gpeg."ugrcpv'r gthqto cpeg0Vj g'r wtr qug'qh'vj ku'tgugctej 'y cu'v'kf gpv'kh' "xctkcvkqpu'lp" f t { kpi "uj tlpnci g"cpf "EVG'y kj lp"vj g'r cxgo gpv'ut wewtg"cpf "v'eqo r ctg'rdqtcvt { "f gvtu kpgf " xcnwgu'y kj "lp/ukw'o gcuwtgo gpv'0Vj ku'uwf { "go r m{ gf "utckp"fcv'eqmgev' "qxt'vj g'eqwtug'qh'38" { gctu'ltqo "cp"lp/ugtxleg'lqkv'vf "r mlp"eqpetgv'r cxgo gpv'*LREr+"v'f gvtu kpg'vj g'vgo r qtcn'cpf " ur cvkn'xctkcvkqpu'lp" f t { kpi "uj tlpnci g"cpf "EVG0'kphwpeki "hcevtu."uwej "cu'tgutckpv'eqpf kkkpu." o qluwtg."hcevkqpu."cpf "vko g'qh'vj g' { gct."f t { kpi "uj tlpnci g"cpf "vj gto cni'gzi cpukqp"y gtg'kpxguki cvgf . " cpf "vj g'ut wewtcn'EVG"*UEVG+y cu'r tguv'v'0Vj g'utckp"fcv'y cu'cnq'wugf "v'f gvtu kpg'vj g'hgrf " guko cvgf "cpf "r tgf levf "lqkv'qr gpkpi "cpf "emukpi "hqt"gej "o qpj "y j lej "ku'wugf "v'guko cvg'vj g" hcevkqpcn'eqghlekpv'wugf "lp'lqkv'tgugt xqkt 'f guki p0

F t { kpi "uj tlpnci g"y cu'hqwpf "v"dg"lphwpegf "d { "o qluwtg'eqpv'v'y le'tcvkq."cpf "tgutckpv' eqpf kkkpu'0'lp/ukw'wko cvg" f t { kpi "uj tlpnci g"y cu'cu'my "cu'53' "qh'vj g'rdqtcvt { "f gvtu kpgf " xcnwgu."y j lej "eqwf "tguw'lp"qxtg'guko cvkq'qh'vj g'lqkv'y kf vj 0Ncti g'kpetgcugu'lp" f t { kpi "uj tlpnci g" y gtg'kf gpv'kh'gf "lp"urdu'y j gtg'kpeqo r tguukdru'y gtg'qduxtg'f . "y j lej "kpf kecvgu'vj cv'r qqt"ugrcpv' eqwf "eqpvtkdwg"v'vj g'dvkr w' "qh'lpeqo r tguukdru'lp"vj g'lqkv'cpf "lqkv'iqenw'0

Qp"cxgtci g."UEVG"y cu'hqwpf "v"dg"i tgevt "vj cp"vj g'rdqtcvt { "o gcuwtgf "EVG0'Uc'vknecn' tguwmu" kpf kecvg'vj g'UEVG"ku"lphwpegf "ur cvkmf . "f wg"v' "tgutckpv' eqpf kkkpu."cpf "vj g'kpgt'pcn' tgrv'xg"j wo kf kv' "qh'vj g'eqpetgv'0J qy gxgt. "vj g'UEVG"ku"pqv'lphwpegf "d { "vj g'htgs wpe { "qh'tckp" cu'kv'ku'j { r qj guk'gf "vj cv'vj g'r cxgo gpv'ecp"uw'lekpv' f t { "qw'chgt"tckp"gxgpv'0Vj gug'tguwmu" kpf kecvg'vj cv'vj g'etk'ecnr' tqr gt'v'gu'qh'f t { kpi "uj tlpnci g"cpf "EVG"xct { "uki p'k'ecpv' "vj tqwi j qw'vj g" urcd"cu" c" hpevkqpu"qh'enko cvg" cpf "tgutckpv' eqpf kkkpu'0'Vj g'ewt'gpv' "tgrkf "wr qp"rdqtcvt { " o gcuwtgo gpv'ctg'wpcdirg"v'ecr wtg"vj ku'xctkcvkqpu."y j lej "eqwf "hgrf "v'uki p'k'ecpv'f kuetgr cpekgu" dgvy ggp'vj g'hgrf "guko cvgf "cpf "r tgf levf "lqkv'qr gpkpi 0

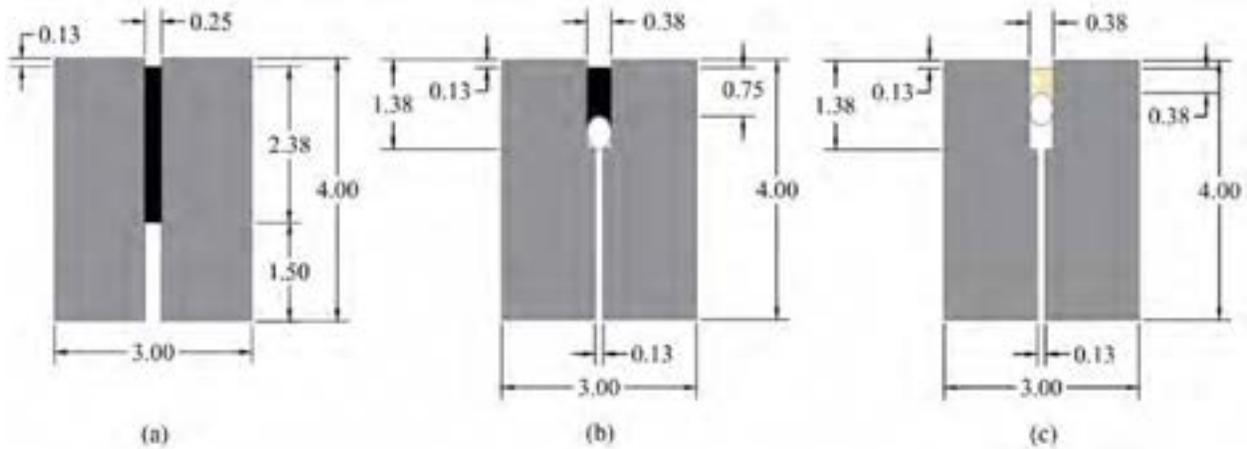
Vj g'hgrf "guko cvgf "cpf "r tgf levf "lqkv'qr gpkpi "cpf "emukpi "ctg'uko kct0Vj ku'kpf kecvgu'vj cv'vj g" hcevkqpcn'eqghlekpv'f qgu'pqv'j cxg"cu'uki p'k'ecpv'ko r cev'qp'tgf welpi "gzi cpukqp"cpf "eqpvtcvkqpu'qh' vj g" urcd" y j gp" vj gto cni'ej cpi gu" qeewt'gf 0'Vj g" wug"qh"cp" k'p'ceewt'cvg" hcevkqpcn' eqghlekpv' lp" guko cvkpi "vj g"o czko wo "lqkv'qr gpkpi "y kn'hgrf "v"cp"ko r tqr gt"lqkv'tgugt xqkt 'f guki p"cpf "vj g" r qv'p'v'kn'ht' r tgo cwtg'ugrcpv'h'cnw'g0'k'ku'tgeqo o gp'gf "vj cv'ugr ctcvg' hcevkqpcn'eqghlekpv'wugf "qp'g"

hqt"vj gto cn'ej cpi gu'cpf "qpg'hqt'ft { kpi "uj tlpnci g."uj qwf "dg'wugf "kp"vj g'f guki p"qh'c'lqkpv'tgugtxqk"
hqt"LRERu0Tguwnu'htqo "vj g'uwf { "kpf kcvgf "vj cv'vj g'htkvpnci'eqghhlekpv'hqt"vj gto cn'ej cpi gu'kp"
vj g'urcd'ku'cr r tqzko cvgn { "307'hqt"vj ku'r cxgo gpv.'y j lej 'ku'rcti gt'vj cp'2087'y j lej 'ku'ewttgpvn { "wugf"
hqt"c'urcd"qp"c'ucdkk { gf "dcug0k"cf f kkp."k'ku'awi i guvgf "vj cv'vj g'htkvpnci'eqghhlekpv'hqt'ft { kpi "
uj tlpnci g"uj qwf "dg"dgvy ggp"2043"cpf "2052'hqt"vj ku'r cxgo gpv'ugevkp0'Hkpcn { ."vj gtg"ku"52' "
f khtgpeg'k"lqkpv'tgugtxqk"y kf vj "y j gp"wulpi "y q'cpf "qpg'htkvpnci'eqghhlekpv'k"ugcnpv'f guki p0

uwthceg. "dw'kw'ku'dnglxgf "vj cv'vj gtg'ku'cp'kpetgcug'kp'utguu'vj cv'f gxgnr u'cv'vj g'kpvthceg'dgvy ggp"
vj g'ugncrpv'cpf "vj g'eqpetgvg'0Vj ku'j ki j gt'utguu'cv'vj g'eqpetgvg'kpvthceg'rcf u'vq'vj g'f gxgnr o gpv'
qh'cf j gukxg'hckm'g. 'y j lej 'r tqr ci cvgu'f qy p'vj g'rgpi vj "qh'vj g'lqkv.'ecwulpi "vj g'ugncrpv'vq'r ggn'cy c{"
htqo "vj g'eqpetgvg'y cm'0Vj ku'r j gpqo gpqp"y cu'uggp"htq"o cp{"qh'vj g'cur j cm'hkmgf "cpf "cur j cm'
tgugt xqkt"ur geko gpu."y j gtg'hktu'eqj gukxg'hckm'gu'f gxgnr gf."vj gp'cf j gukxg'hckm'gu'hqmvy gf 0'K'
y cu'uggp"htq'ugxgtcn'qh'vj g'cur j cm'hkmgf "cpf "cur j cm'tgugt xqkt"ur geko gpu'vj cv'vj g'cf j gukxg'hckm'g"
kpkkcv'f "cm'pi "vj g'uwthceg'qh'vj g'ugncrpv."y j lej "y cu'g'zr gev'f "dcugf "qp"vj g'ecwrcv'f "utckpu'kp"
Vcdrg'F 060Vy q'f guki pu'y gtg'wugf "htq"ur geko gpu'ugncrf "y kj "cur j cm."cpf "qp'f guki p'y cu'wugf "htq"
vj qug"ugncrf "y kj "ukteqpg'0 Vj g'f guki pu"eqpukf gtgf "htq" vj g'cur j cm'ugncrf "ur geko gpu" hqmvy "
eqpetgvg'r cxgo gpv'lqkv'F gvck'F 'kp'RgppF QV'Rwdn'ecv'qp'940 'J89_.'y j lej 'ku'vj g'v' r kecn'tgugt xqkt"
f guki p'wugf "d{ "RgppF QV."cpf "vj g'f ko gpuk'pu'tgeqo o gp'f gf "d{ "vj g'Co g'k'ecp'E'eqpetgvg'Rcxgo gpv'
Cu'qek'v'qp"*CERC+'htq'cur j cm'hkmgf "lqkv"J6_0Cmj qwi j "RgppF QV'f qgu'pq'v'v' r k'ecm{ "eqp'ut'wev'
cur j cm'hkmgf "lqkv."y gtg'j cu'dggp'f k'ewu'k'qp"qh'wulpi "vj ku'f guki p'kp'h'w'w'g'r cxgo gpv'r tq'lgew'0'
Vj gug'f guki pu'ctg'tghgt'gf "vq'cu'cur j cm'ugncrf "cpf "cur j cm'hkmgf ".tgur gev'xgn'0Vj gug'lqkv'f guki pu'
ctg'ucy gf "kp'v'5/kp"z"6/kp"z"8/kp"eqpetgvg"ur geko gpu."y j lej "tgr t'gug'pw" c"uge'v'qp"qh'c"IRER"
v'cpuxgtug'lqkv'0Vj g'lqkv'tgugt xqkt" f guki p'htq"vj g'cur j cm'ugncrf "ur geko gpu'eqpuk'v'qh'c"205/kp"
kpkkcn'ew."c"205: /kp'tgugt xqkt"y kf vj ".cpf "c"305: /kp'tgugt xqkt" f gr vj 0Vj g'v'qr "qh'vj g'dcen'gt'tqf "ku"
r r'ceg'f "20 : "kp'dgm'y "vj g'uwthceg'qh'vj g'eqpetgvg'0Vj g'f gr vj "qh'vj g'cur j cm'ugncrpv'htq" vj ku'f guki p'ku"
207'kp."r tqxkf kpi "c"uj cr g'h'cev'qt"*Y <F+"qh'3-40Cmj qwi j "vj ku'uj cr g'h'cev'qt"ku'f k'htg'gp'v'v' cp'y j cv'ku"
eqo o qpn' "tgeqo o gp'f gf " *3-3+" J6_ "J8: _." vj ku'f guki p'ku' v' r k'ecm{ "wugf "d{ "RgppF QV" cpf "ku"
eqpukf gtgf "cf gs wcv'g'htq" vj ku'uwf { 0Vj g'tgugt xqkt" f guki p'htq" vj g'cur j cm'hkmgf "lqkv'eqpuk'v'qh'c"
ukpi rg"2047/kp'y kf g'ew'f qy p'vj g'j g'ki j v'qh'vj g'ur geko gp'0C'307/kp"ur ceg't"ku'r r'ceg'f "cv'vj g'dq'w'qo "
qh'vj g'cur j cm'hkmgf "ur geko gpu'v'q'eqp'v'qn'vj g'f gr vj "qh'vj g'ugncrp'0Vj g'f gr vj "qh'vj g'cur j cm'ugncrpv'
ku"405: "kp"cpf "ku"tgegu'gf "205"kp"htqo "vj g'uwthceg'qh'vj g'eqpetgvg."r tqxkf kpi "c"uj cr g'h'cev'qt"qh"
3< 070

Vj g'lqkv'tgugt xqkt" f guki p'wugf "htq"ur geko gpu'ugncrf "y kj "ukteqpg'hqmvy "eqpetgvg'r cxgo gpv'
lqkv'V{ r g'R'f guet'kd'f "kp'RgppF QV'Rwdn'ecv'qp'940 'J89_.'y j lej 'ku'eqo o qpn' "wugf "d{ "
RgppF QV'htq"ukteqpg'ugncrf "lqkv'0Vj g'y kf vj "cpf "f gr vj "qh'vj g'tgugt xqkt"y gtg'205: "kp"cpf "305: "
kp."tgur gev'xgn' ".cpf "c"205/kp"y kf g'kpkkcn'ew'ku'o cf g'f qy p'vj g'j g'ki j v'qh'vj g'ur geko gp'0Y j k'g"
vj ku'f guki p'ku'urki j v'q' "o qf k'k'gf "htqo "vj g'v' r k'ecn'V{ r g'R'f tcy kpi ".vj g'o qf k'k'ecv'k'pu'y gtg'o cf g"
htq"gcug'qh'h'cd't'k'ecv'k'qp'cpf "j cxg'pq'ko r cev'qp"vj g'ugncrpv'uj cr g'h'cev'qt'0Vj g'v'qr "qh'vj g'dcen'gt'tqf "
ku'r r'ceg'f "207'kp'dgm'y "vj g'uwthceg'qh'vj g'eqpetgvg."cpf "vj g'ukteqpg'ku'tgegu'gf "205"kp'dgm'y "vj g"
uwthceg'qh'vj g'eqpetgvg'0Vj g'y kf vj "qh'vj g'ukteqpg'ugncrpv'htq" vj ku'f guki p'ku'205: "kp."r tqxkf kpi "c"
uj cr g'h'cev'qt"qh'3-30

*Hli wtg'F0Uej go c'ke'qh'c'+cur j cm't'gugt xqkt' f guki p'0CT0 '*d'+cur j cm'hkmgf' f guki p'0CH0 '*e'+
ukteqpg't'gugt xqkt' f guki p'0UT0*



404'Ur geko gp'Hcdt kcvkqp

4008'O kzwt g'F guki p

Gcej "eqpetgv'ur geko gp'ku'ecuv'cpf "ewtfg'lp'yj g'ncdqtcvqt { "ceeqtf kpi "vq'CUVO "E3; "J8; _0Vj g' o kzwtg'f guki p" f gxgnqr gf "hqt "yj g'ug'ur geko gpu'ku'tgr tguvpcvkg"qh'c" v'f r kcn'urk hqto "r cxkpi " o kzwtg."uj qy p'kp"Vcdrg'F 00Vj g'vcti gv'4: /f c{ "eqo r tguukxg'utgpi vj "cv'vj g'vko g'qh'vukpi "ku'gs wcd' vq"7.722'r uk'vj g'vcti gv'ckt"eqpvgpv'ku'8' "- 1/3' ".cpf "yj g'vcti gv'unwo r "ku'5"lp"- 1/20"lp0Eqpetgv' o kz kpi "rtqegf wtgu'cu'y gni'cu'unwo r "cpf "ckt"eqpvgpv'vguu'y gtg'hqmjy gf "kp"ceeqtf cpeg'y kj "CUVO " ucpf ctf u"J92.'8; . '93_0Vj g'ur geko gpu'y gtg'f g/o qrf gf "chgt'46"j qwtu'cpf "r mceg'lpvq'c'y gv'ewtkpi " tqo "kp"ceeqtf cpeg'y kj "CUVO "E3; 4"J8; _0Vj g'eqo r tguukxg'utgpi vj "qh'vj ku'o kzwtg'y cu' o gcuwtgf "hqmjy kpi "CUVO "E5; "J94_0Vj g'cxgtci g'4: /f c{ "eqo r tguukxg'utgpi vj "hqt "yj ku'o kzwtg' f guki p'y cu'o gcuwtgf "vq'dg'cr r tqzko cvgn' 7.922'r uk0

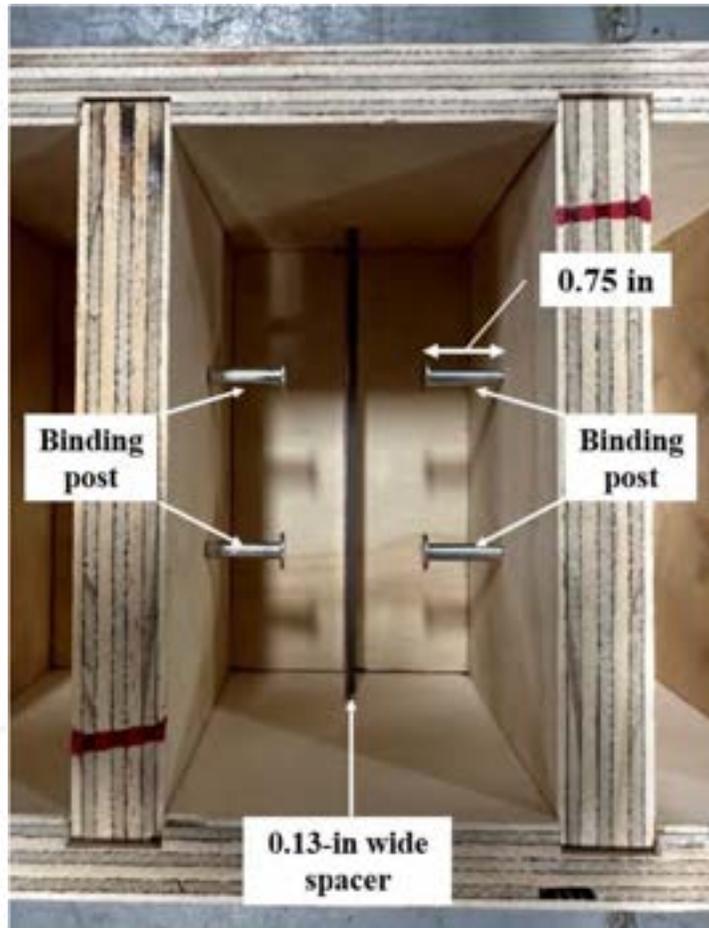
Vcdrg'F00Eqpetgv'o kzwt g'f guki p

O cvgt ken	Y gli j v'nd k{ +	Xqno g'Ht cevkqp
Eqctug'iko guvqpg'ci i tgi cvg	3; 3:	2064
Hkp'g'ci i tgi cvg	329:	2046
Ego gpv	852	2084
Y cvgt	487	2088
Ckt	/	208

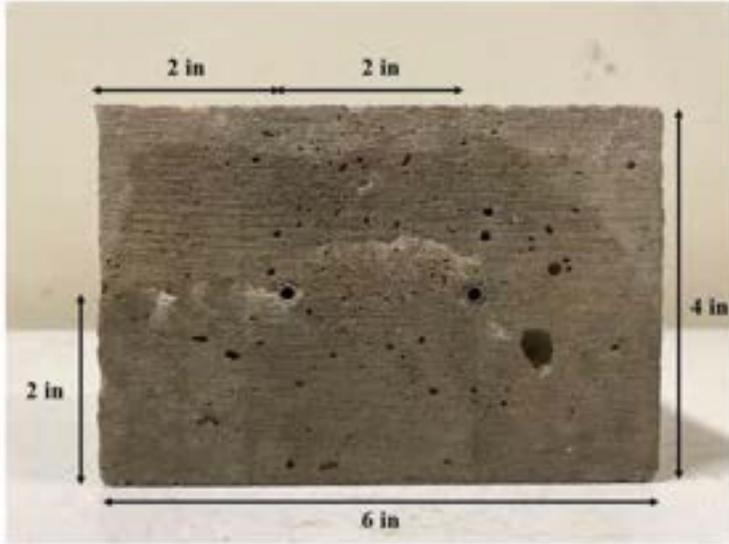
Ewuqo "hqt u'y gtg'hcdtkcvkf "vq'o qrf "5/kp'z'6/kp'z'8/kp'ur geko gpu.'cu'uj qy p'kp'Hki wtg'F 040 Vj g'hqto u'eqpukv'qh'20847/kp'vj ken'r rcvke'ur cegt'vj cv'gzvqpf "3'kp'kp'vj g'dqvqo "qh'vj g'ur geko gp." y j lej "ku'o gcpv'vq'uko wcv'c'r qt'vq'qh'cp'lp'kcn'ucy "eww'cpf "ku'vugf "cu'c'tghgtgpeg'r qkp'hqt'vj g' ucy kpi "rtqegf wtg'0Cf f kkp'cmf . "gcej "ur geko gp'o qrf "eqpukv'qh'6'dkpf kpi "r quu.'y q'qp'gcej "hceg' qh'vj g'ur geko gp. "y j lej "ctg'vugf "vq'kp'ucm'vj g'ur geko gp'lpvq'c'hc'ki wg'vuv'itco g'0Vj g'ug'r quu'ctg' m'cecvf "4"lp'cdqxg'vj g'dqvqo "qh'vj g'ur geko gp'cpf "4"kp'lp'y ctf "htqo "vj g'qwtg'gf i g.'uj qy p'kp' Hki wtg'F 050Vy q'qh'vj g'ecuv'ur geko gpu'ecp'dg'uggp'kp'Hki wtg'F 060



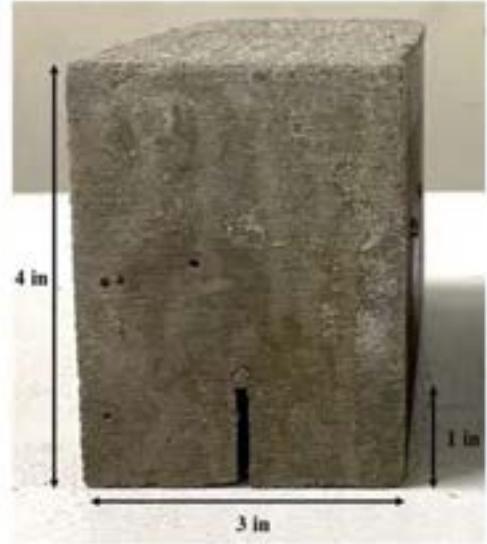
Hli wt g'F 040Ur geko gp'lt o



Hli wt g'F 050kf kxkf wcn'ur geko gp'o qtf



(a)

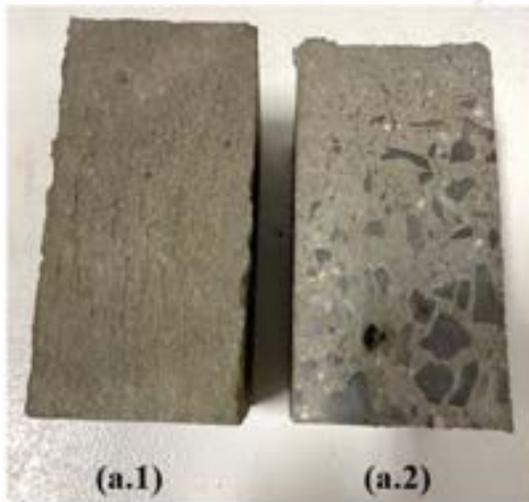


(b)

Hki wt g'F060Ecu'ur geko gp"ic +ukf g'xkgy "cpf "d+lt qpv'xkgy

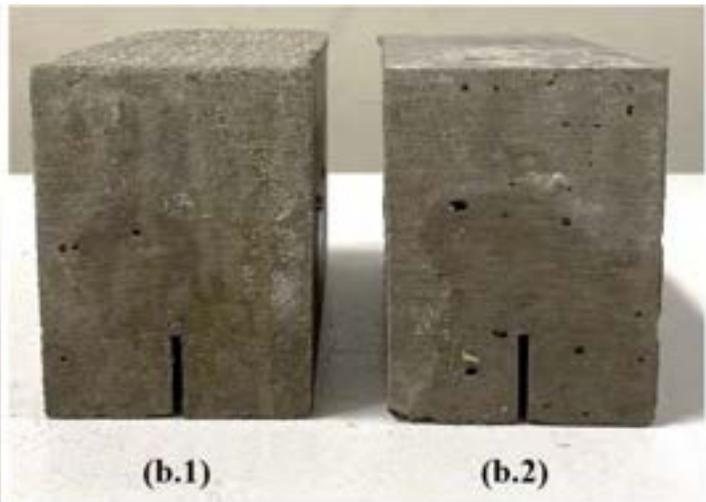
4040" Rucplpi 'vj g'Uwt hceg

C'hrv'uwthceg'ku'pggf gf 'hqt'o gcuwtlpi 'vj g'r gto gedkklv' "qh'vj g'ugcrpv'f guetkdgf 'rcvgt0Vj g'vqr " uwthceg'qh'gcej 'ur geko gp'ku'i tqwvf 'hrv'y kj "c'322/i tk/i tlpf lpi 'y j ggn'qp'c"Erwukpi 'EUI 5C: 3: " Uwthceg'I tlpf lpi "Vcdng0Hki wt g'F07'uj qy u'gzco r ngu'qh'wpi tqwvf "cpf "i tqwvf "ur geko gpu0'Gcej " r cuu"qh'vj g'i tlpf lpi "y j ggn'tgo qxgu"cr r tqzko cvgn' "203"kp"qh'o cvgtkn'ltqo "vj g"uwthceg"qh'vj g" uco r rg."cpf "gpqwi j 'r cuugu'ctg'o cf g'wpv'kic'uo qqvj . 'gxgp'uwthceg'ku'cej kxgf 0



(a.1)

(a.2)



(b.1)

(b.2)

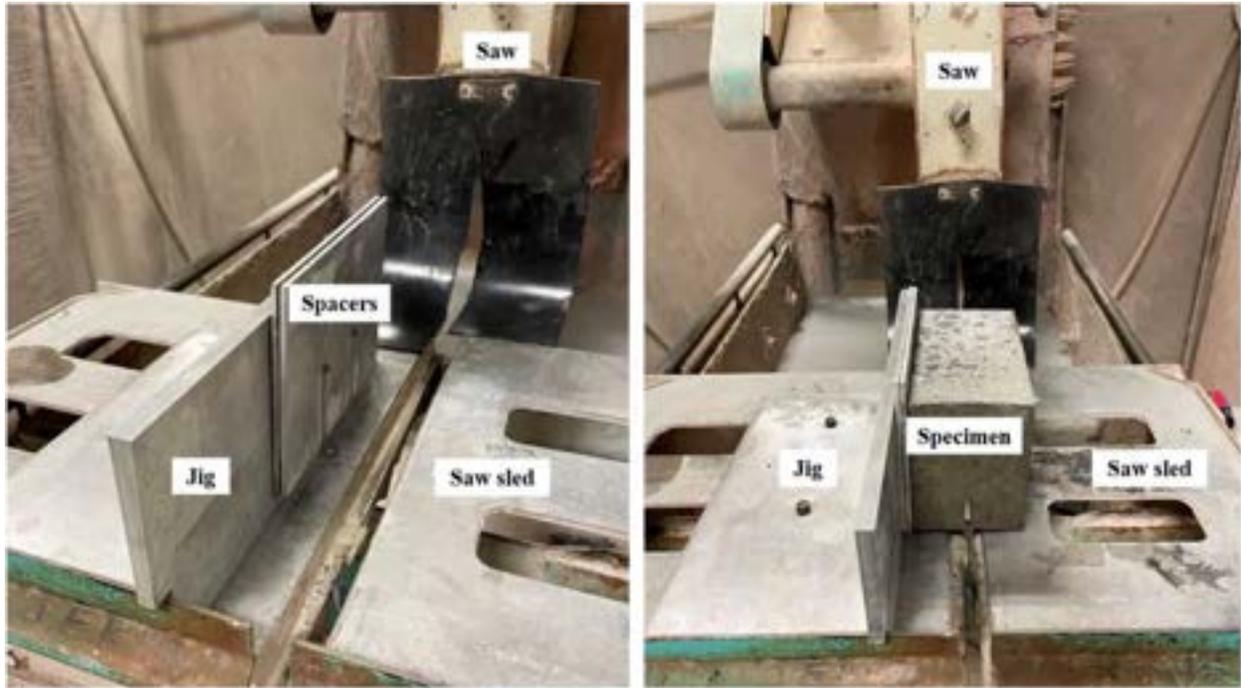
Hki wt g'F070Vqr 'xkgy "qh"icB +wpi tqwvf "cpf "icA+i tqwvf "ur geko gpu."cpf "lt qpv'xkgy "qh"icB + wpi tqwvf "cpf "idA+i tqwvf "ur geko gpu



Hli wt g'F080Ercwukpi 'EU 5C: 3: 'lwt hceg'i t kpf kpi 'w dng

4040''Ucy kpi 'vj g'T gugt xqkt

Vj g'tgugt xqktu'y gtg'ew'wukpi "c'y gv'ucy "chgt" gcej "qh'vj g'ur geko gp"uwt hcegu'y gtg'i tqwpf " hrc'0Cp"cnwo kpo "eww'kpi "lki "y cu'hcdtkecvf "vq"j qrf "vj g'ur geko gp"f wtkpi "vj g'ucy kpi "r tqegf wtg0' Vj g'ur geko gp"ku'cwcej gf "vq"vj g'lki "d{ "vj g"vy q"dkpf kpi "r quw"qp"qpg"qh'vj g"gf i g'hcegu"qh'vj g" eqpetg0C'205/kp'ucy "drcf g'y cu'wugf 'y kj '205/kp'y kf g'ur cegtu'vq"cmqy 'h'kp'cf lwwo gpw'vq'dg" o cf g'vq'vj g'lki . 'y j krg'eww'kpi "vj g'cur j cn'cpf "ukrkeqpg'tgugt xqkt "lqkpw0Vj g'drcf g'f gr vj 'y cu'ugv'vq" 305: "kp'htqo "vj g'vqr "qh'eqpetg'vq"o ggv'vj g'tgs wktgf 't gugt xqkt'f gr vj 'hqt'vj gug'ur geko gpu0Vy q'eww' y gtg'o cf g'hqt'vj g'vy q"qwwt'gf i gu'qh'vj g'tgugt xqkt0Vj g'vj kf "ew'tgs wktgf "vj cv'vj g'ur geko gp"y cu" hkr r gf "wr ukf g'f qy p"vq" g'zr qug"vj g"kp'kcn'ucy "ew'pqvej "cv'vj g'dqwqo "qh'vj g'ur geko gp0'Vj g' ur geko gp"y cu'vj gp'tg/kp'ucmgf "wr ukf g'f qy p'kp'vq'vj g'lki "y kj "qpg'ur cegt'cpf "ew'y kj "vj g'205/kp" y kf g'drcf g0Vj ku'ew'tgs wktgf "vj g'drcf g'f gr vj "vq'dg'ugv'vj tqwi j "vj g'gp'vkt g'j g'ki j v'qh'vj g'ur geko gp0' Vj g'tgugt xqkt' hqt'vj g'cur j cn'hkr'gf "ur geko gpu'tgs wktgf "c'2047/kp'drcf g'hqt'eww'kpi 0Vj g'ur geko gp" cpf "lki "y gtg'rkpgf "wr "kp'uko krc't "hcuj kqp"vq"vj g'r tqeguu'r t'g'x'k'wun' "f guet'kd'gf . "dw'qpn' "qpg'ew'ku" p'geguuct { "vj tqwi j "vj g'j g'ki j v'qh'vj g'ur geko gp0



Hli wt g'FØUËy 'eww'kpi 'ugwv 'y kj 'li

40106''Ugcrkpi

Vj g'r tqeguu'qh'ugcrkpi "vj g'uco r ngu'dgi kpu'd{ "cttcpi kpi "vj go "ukf g/d{/ukf g'kp"i tqw u'qh'hkng/ f guki pu0Ur cegtu'ctg'r rægf "cv'vj g'dqwqo "qh'vj g'kpkkcn'lucy "ew'vq"o ckpckp" c'r tqr gt'tgugtxqkt'y kf vj 0 J crh/lpej " f lco gygt" dcengt" tqf " ku" kpugtvgf " kpq" vj g" cur j cn" tgugtxqkt" cpf " ukteqpg" tgugtxqkt" ur geko gpu'cpf "ku'ugv'vq"vj g'cr r tqr tkwg'f gr vj 0Y qqf gp"dqctf u'y gtg'wugf "vq'dmçm'vj g'gpf u'qh'gcej " ur geko gp"cpf "eqpvckp"vj g'htguj "ugcrpv0Vj gug'dqctf u'y gtg'cwcej gf "205"kp'dmçy "vj g'uwthceg"qh" vj g'eqpetgv"cpf "erco r u'y gtg'wugf "vq'ugewt'vj g'dqctf u'vq"vj g'ur geko gpu0Vj g'y kf vj "qh'gcej "lqkp" tgugtxqkt"cpf "vj g'crki po gpv'qh'gcej "ur geko gp"ku'ej gengf "r tkqt"vq"ugcrkpi 0Vj g"i gpgtcn'ugwv "ku" uj qy p'kp'Hli wt g'FØ 0Cm'vj g'cur j cn'tgugtxqkt"cpf "cur j cn'hkngf "ur geko gpu'y gtg'ugcrkf "kp"vj g'hkrf " y j kç"vj g'ukteqpg'tgugtxqkt"ur geko gpu'y gtg'ugcrkf "kp"vj g'rcdqtcvqt{ 0Vj g'cur j cn'ur geko gpu'y gtg' ugcrkf "qpukg0Vj g'ugcrpv'y cu'j gcvgf "vq'ku"o gmkpi "vgo r gtcwtg"cpf "r rægf "kp'gcej "ur geko gp"lqkp" d{ "vj g'ugcrkpi "etgy 0Vj g'f gr vj "qh'vj g'ugcrpv'htqo "vqr "qh'eqpetgv'eqwv "pqv'dg'ngxngf "y kj "c'vqpn" f wg"vq"vj g'ugcrpv'vgo r gtcwtg."j qy gxgt."o wej "ectg"y cu'vcnçp"vq"gpuwtg"vj cv'vj g'tgeguu"qh"vj g' ugcrpv'y cu'205'kp0Vj g'ur geko gpu'y gtg'vj gp'rgm'vq'eqqn'ht"cr r tqzko cvgn' '94'j qwtu0



*Hli wt g'F0 0Ugcirpi 'ugwr 'hqt '*c +'curj cn't gugt xqkt "cpf '*d+'curj cn'lkngf 'ur geko gpu.'ugcrgf 'kp'vj g' lkgif*

Hqt'ukleqpg'ur geko gpu.'c'uxcpf ctf "ecwmli wp'ku'wugf "vq"dgcf "vj g'tqqo /vgo r gtcwtg'ugcncpv' kpq'vj g'lqkv'qr gpkpi u.'hknpi 'htqo "vj g'vqr "qh'dcengt'tqf "wr "vq'cr r tqzko cvgn' "205'kp'dgpgcvj "vj g' uwtceg"qh'vj g"eqpetgv" *ugg"Hli wt g'F0 +0C" r munkte'ngxgrkpi "vqn'ku'wugf "vq'ngxgn'cpf "tgegu'vj g' ugcncpv'205'kp'dgrny "vj g'eqpetgv'uwthceg0Vj gug'ur geko gpu'ctg'nglv'q'ugv'ht'46'j qwtu0F wg'vq'vj g' pqp/uci "r tqr gt'vku'qh'vj g'ukleqpg'ugcncpv.'k'y cu'uggp'kp'uqo g'ecugu'vj cv'vj g'ugcncpv'f kf "pqv'hmm' " eqxgt'vj g'vqr "qh'vj g'dcengt'tqf "cv'vj g'gf i gu'qh'vj g'ur geko gpu'0Vj ku'ecp'dg'qdugt'xgf 'kp'Hli wt g'F 02e0



Hli wt g'F0 0Ugcrgf 'ukleqpg't gugt xqkt 'ur geko gpu'kp'rc dqt cvqt {

Cp'gzco r ng'qh'gcej "ur geko gp'v' r g'ku'uj qy p'kp'Hki wtg'F 020Gcej 'j cni'qh'v'j g'lqkv'ht'gxgt { " ur geko gp'ku'ctdktctk' 'ncdngf 'cu'ukf g'C'qt'ukf g'D.'y j lej 'ku'wugf 'f wt'kpi 'kpuvc'v'kqp'kpv'v'j g'h'vki wg" mcf 'ht'co g.'f guetkdgf 'r'vgt0C'r'v'vke'ur'cegt'ku'mgr v'cv'v'j g'dq'wqo 'qh'gcej "ur geko gp'v'o' c'kpv'c'k'v'j g" eqtt'gevt'gugtxqk'uj cr g'f'wt'kpi "uvt'ci g'cpf "v'cpur'qt'v'v'kqp'qh'gcej "ur geko gp'0C'f'f'k'k'q'p'cm'.'j'qqm' " cpf/mqr 'v'v'cr'v'v'ct'g'wugf 'v'v'j' qrf "gcej "ur geko gp'ugewt'gn'0



(a)



(b)

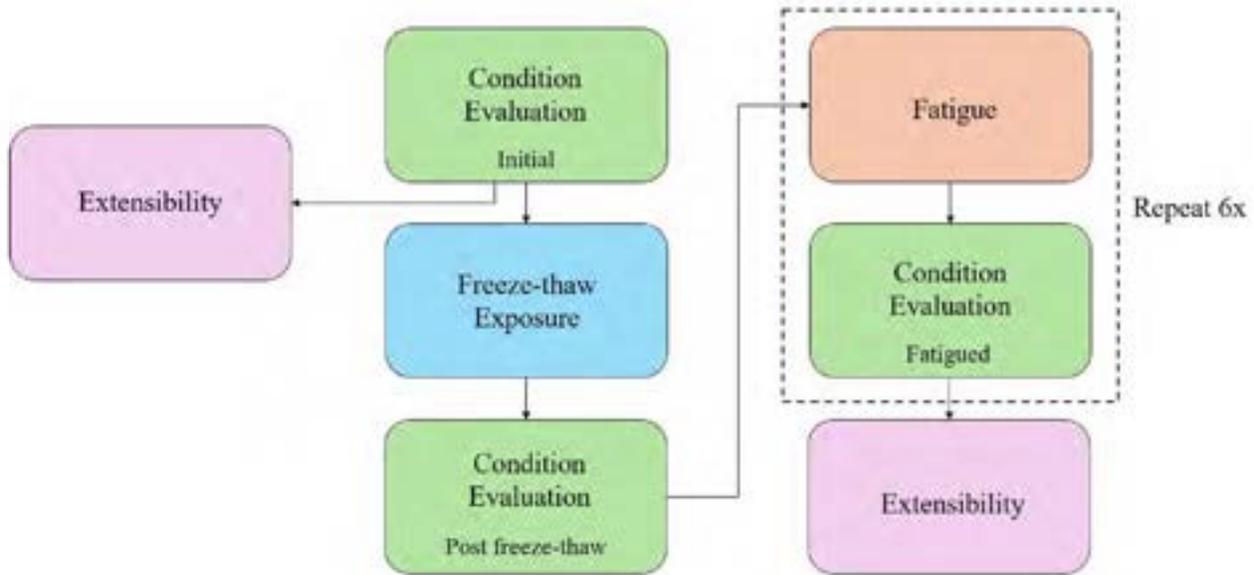


(c)

*Hki wtg'F 020Gzco r ng'u'qh'c'c'ur'j'cn't'gugt'xqk'0CT0.'*d'c'ur'j'cn'l'kngf'0CH0.'cpf '*e'v'uk'ke'qpg' t'gugt'xqk'0UT0'ur'geko'gpu*

50'Uko w'v'v'g'f' H'g'f' E'q'p'f' k'k'q'p'u

Vj g'i g'p'g't'c'ri'c'r'r't'q'c'ej "v'v's'w'c'p'v'k'h' k'pi "l'q'k'p'v'r'g't'h'q't'o'c'p'eg'ku'cu'h'q'm'y' u'0'V'j' g'g'z'v'p'uk'd'k'k'v' "qh' g'cej "l'q'k'p'v'f'g'uk'i'p'ku'o'g'c'u'w't'g'f' "v'v's'w'c'p'v'k'h' "v'v'j'g'r'g't'h'q't'o'c'p'eg'qh'c'p'g'y' n' "e'q'p'u't'w'e'v'g'f' "l'q'k'p'v'0'k'k'k'c'n' r'g't'h'q't'o'c'p'eg'v'g'u'k'p'i "ku'e'q'p'f'w'e'v'g'f' "q'p'c'f'f'k'k'q'p'c'n'ur'geko'gpu'v'v'o'g'c'u'w't'g'f'v'v'j'g'd'q'p'f' "s'w'c'k'v' "d'g'y'g'g'p' "v'v'j'g'ug'c'p'v'e'q'p'et'g'v'g'k'p'v'g't'h'c'g.'v'v'j'g'l'k'k'c'n'v'v'k'h'p'g'u'u'qh'v'j'g'ug'c'p'v.'c'p'f' "v'v'j'g'u'v'q't'g'f' "g'p'g't'i' { "k'p'v'j'g'ug'c'p'v'v' f'wt'k'p'i "l'q'k'p'v'q'r'g'p'k'p'i "c'p'f' "e'q'k'p'i' 0'V'j'g'ug'ur'geko'gpu'c't'g'v'v'j'g'p' "u'w'd'l'g'e'v'g'f' "v'v' "u'k'z' "h'g'g'l'g'v'v'j'c'y' "e' { 'e'rg'u' "c'p'f' "v'v'j'g'r'g't'h'q't'o'c'p'eg'qh'v'j'g'l'q'k'p'v'ku'v'g'u'v'g'f' "c'i'c'k'p'0'V'j'ku'r't'q'eg'u'u'ku'o'g'c'p'v'v'v' "c'p'c'n' | g'v'v'j'g'f'w'c'd'k'k'v' "qh' "v'v'j'g'ug'c'p'v'k'p't'g'ur'q'p'ug'v'v' "h'g'g'l'g'v'v'j'c'y' "e'q'p'f'k'k'q'p'u'0'P'g'z'v.'v'v'j'g't'g'uk'k'g'p'eg'qh'g'cej "ur'geko'gp'ku'o'g'c'u'w't'g'f' " y'k'j' "c'p'c'e'eg'g't'c'v'g'f' "m'c'f'k'p'i "r't'q'v'q'eq'r'0'G'cej "ur'geko'gp'ku'u'w'd'l'g'e'v'g'f' "v'v' "72"v'v'j'g't'o'c'n'l'm'c'f'k'p'i "e' { 'e'rg'u' "c'p'f' "7.222" "x'g'j'k'ew'r'c't' "m'c'f'k'p'i "e' { 'e'rg'u' "u'k'o'w'r'v'k'p'i "9" { 'g'c't'u' "q'h' "h'v'k'i'w'g' "g'z'r'q'u'w't'g'0'T'g'c'r'k'v'k'e' "m'c'f'k'p'i " e'q'p'f'k'k'q'p'u' "h'q't'c'e'v'k'x'c'v'g'f' "c'p'f' "p'q'p'c'e'v'k'x'c'v'g'f' "l'q'k'p'v'u'y'g't'g'k'f'g'p'v'k'h'g'f' "v'v'k'p'i "k'p' "u'k'w'v'v'v'c'k'p' "f'c'v' "h'g' "q'o' "c'p' "k'p'u't'w'o'g'p'v'g'f' "L'R'E'R'0'V'j'g'r'g't'h'q't'o'c'p'eg'qh'v'j'g'l'q'k'p'v'ku'o'g'c'u'w't'g'f' "q'p'eg'c'i'c'k'p.'c'p'f' "v'v'j'ku'r't'q'eg'u'u'qh' "h'v'k'i'w'g'c'p'f' "r'g't'h'q't'o'c'p'eg'v'g'u'k'p'i "ku'e'q'p'f'w'e'v'g'f' "8"v'v'k'o'g'u'0'k'p' "v'v'q'v'c'n' "v'v'j'g'ur'geko'gpu'c't'g' "u'w'd'l'g'e'v'g'f' "v'v' "64" { 'g'c't'u' "q'h' "u'k'o'w'r'v'g'f' "v'v'j'g't'o'c'n'l'c'p'f' "x'g'j'k'eng' "m'c'f'k'p'i' 0'H'k'p'c'm'.'v'v'j'g'ur'geko'gpu'c't'g'v'v'g'u'v'g'f' "h'q't'g'z'v'p'uk'd'k'k'v' 0' V'q's'w'c'p'v'k'h' "v'v'j'g'ej'c'p'i'g'l'k'p'r'g't'h'q't'o'c'p'eg'qh'g'cej "f'g'uk'i'p.'g'z'v'p'uk'd'k'k'v' "v'v'g'u'k'p'i "ku'r'g't'h'q't'o'g'f' "q'p'd'q'v'j' " ur'geko'gpu'v'v'j'c'v'v'j'c'x'g' "d'g'g'p' "m'c'f'g'f' "v'v' "u'k'o'w'r'v'g' "v'v'j'g' "64" { 'g'c't'u' "k'p' "u'g't'x'k'eg' "c'p'f' "ur'geko'gpu'v'v'j'c'v'v'j'g't'g' " h'g'uj' n' "u'g'c'ng'f' 0'V'j'ku'r't'q'eg'u'u'ku'u'w'o' "o'c't'k'g'f' "k'p'v'v'j'g'h'q'm'y'ej'c't'v'd'g'ng'y' 0



Hli wt g'F(30T)gugctej 'crrtqcej

50''Gzr quwt g

Vj g'f wcdkx\ "qh'gcej "ugcrpv\{ r g'ku'o gcuwtgf "d{ "gZR qukpi "vj g'ur geko gpu"vq"e{ engu"qh' hgg| kpi "cpf "vj cy kpi 0'Gcej "ur geko gp"ku"ucwtcvgf "kp"e"ewtg"tqqo "r tktq"v"vj g"htuv"htgg| g'0'K'ku" gZR gevfg "vj cv'vj g'gZR cpukqp"cpf "eqpvtcev"qp"qh'y cvgt'r ctv"enguy kn'kpf weg'f co ci g'kp"vj g'kpvgtpcn' utwewtg"qh'vj g'ugcrpv'cu'kv'htgg| gu'cpf "vj cy u0'Vj ku'r tqegf wtg'ku'eqpf wevgf "wukpi "c"rcti g'htgg| gt" ej guv."uj qy p"kp"Hli wt g'F(30T)gugctej "crrtqcej" "y j lej "j cu'c'o kpk wo "vgo r gtcwtg"qh'/32'AVj g'ucwtcvgf "ur geko gpu" ctg"r rceg" "kp"v" dcungw"cv"vj g" dqwqo "qh' "vj g"htgg| gt" ej gu0'Vy q" pqp/ugcrfg "ur geko gpu" y kj " go dgffgf "vj gto qeqwr ngu"ctg" wugf "v" o qpkqt "vj g" kpvgtpcn' eqpetgv" vgo r gtcwtg0' Vj gug" ctg" eqppgevfg "v" c'Eco r dgm'Uelgpv'khe'f cvcnj i gt"cpf "rtr vqr "hqt" f cv'e"eqmgev"kp."dqy "qh'y j lej "ctg"qp" c"o qdkg'ectv'qwukf g"vj g"htgg| gt"ej gu0'Vj g'ucwtcvgf "ur geko gpu"ctg"rgh'kp"vj g"htgg| gt"wp'kn'vj g" kpvgtpcn'vgo r gtcwtg"qh'vj g'eqpetgv"tgej gu'7'AVj ku'vgo r gtcwtg'y cu'ugrgevfg "dcugf "qp"kp/ukw" f cv'e"eqmgevfg "htqo "cp"kp'utwo gpvfg "r cxgo gpv'ugev"kp"qp"UT/44"kp"O wt { uxkng."RC0'K'tgr tgugpvu" vj g'cxgtci g'f ckn\ "hgy "r cxgo gpv'vgo r gtcwtg'kp"vj g'y kpvgt'o kpwu'vy q'ucpf ctf "f gxkcvkpu0'K'vcngu" cr r tqzko cvgn\ "9'j qwtu'hqt"vj g'ur geko gpu"vq'tgcej "vj ku'kpvgtpcn'vgo r gtcwtg0'Vj g'ur geko gpu"ctg'vj gp" tgo qxgf "htqo "vj g'htgg| gt"cpf "ctg"r rceg" "kp"e"ewtg"tqqo ."y j lej "ku'dgy ggp"92"cpf "99'AH'cu'r gt" CUVO "E3; 4"J8; _0'Vj g'ur geko gpu"ctg"rgh'kp"vj g"ewtg"tqqo "wp'kn'vj g'kpvgtpcn'vgo r gtcwtg"qh'vj g" eqpetgv"ucdkk\ gu"vq'95'AH' "y j lej "vcngu"cr r tqzko cvgn\ "4'j qwtu0'Vj gtghqtg."qpg'htgg| g/vj cy "e{eng" ecp"dg'cee"qo r rhu'j gf "y kj kp"qpg'y qtnf c{ 0'K'uj qwf "dg"pqvfg "vj cv'vj tqwi j qw'htgg| kpi "cpf "vj cy kpi ." gcej "ur geko gp"ku'dqwpf "y kj "c"j qqm/cpf /mqr "utcr "vq"r t'gxpvl'kpv'o qxgo gpv'cpf "f co ci g'f wtkpi " vcpuhgt0'Rtgnk kpc{ "vgukpi "kpf kecvgf "vj cv'hqt"cur j cn'tgugtxqk"cpf "cur j cn'hkmgf "ur geko gpu."pq" cf f kkp'pcn'uki p'khecpv"tgf wev"kp"kp"ugcrpv' uk'htp'guu"y cu' qdugt'xgf "chgt"8"htgg| g/vj cy "e{eng'0' Cf f kkp'pcn'uki p'khecpv"tgf wev"kp"kp"uk'htp'guu"ku" qdugt'xgf "chgt"3"htgg| g/vj cy "e{eng'0'Vj gtghqtg."gcej "vgu'ur geko gp"y cu'gZR qugf "v" c'\vqcn'8"htgg| g/ vj cy "e{eng'u'kpeg"pq'hwt'j gt'f co ci g'ku'gZR gevfg "v" c'ee"wo wrc'v'htqo "cf f kkp'pcn'e{ erkpi 0



Hli wt g'F040Ur geko gpu'kp'lt gg/ gt 'cv'dgi kppkpi "qhl't gg/ g'e{ eng'y kj "vj g'yj gto qeqwrng/go dgff gf" ur geko gpu'cv'yj g'fct 'rgh'qhl'y g'lt gg/ gt



Hli wt g'F050Ur geko gpu'kp'yj g'ewt g'tqqo 'cv'yj g'dgi kppkpi "qhl'yj g'yj cy 'e{ eng'y kj "vj g" yj gto qeqwrng/go dgff gf" ur geko gpu'ci ckpu'yj g'dcent'y cm

504" Hcvki wg

Vj g'tgukrgpeg"qhl'gcej "lqkp'f guki p'ku'o gcuwtgf "d{ "f'cvki wkpi "vj g'ur geko gp"j qtk qpvcmf "vq" uko wrcvg"lqkp'qr gpkpi "cpf "emqkpi "lp"yj g'y kpvgt"o qpj u."cpf "xgtvkecmf "vq"uko wrcvg"f khlgtgpvcn' f ghgevkpu'ltqo "xgj kerg'rqcf kpi 0Gzeguukxg"lqkp'vo qxgo gpv."gur gekcmf "f wkpi "vj g'y kpvgt"ugcuqp."

ku" c" rcti g" eqpvkdwqt "v" ugcnpv" f gvtkqtcvqp" cpf "mua" lp" lqkv" r gthqto cpeg0Vj gthqg. "c" h"vki wg" vguv" y cu" f gxgnr gf "v" uko wrcv" lqkv" qr gplpi "cpf" emukpi "kp" tgr qpug" v" eqpetgv" y gto crlej cpi gu" cpf "xgj keng" mcf lpi "cetquu" v" j g" lqkv" f wtkpi "y" g" y kvgt" o qpj u0

5048" Vj gto cniqcf u" Lqkv" qr gplpi emukpi +

Vj g" eqphki wcvkqp" wugf "v" uko wrcv" y gto crlmcf lpi "ku" tghgtgf "v" cu" y g" vgpukg" f kur nrego gpv" rcdqtcvqt { "ugwr . "uj qy p" lp" Hki wtg" F 060Vj ku" uo cm/uecr" rcdqtcvqt { "ugwr "eqpuku" qh" c" 70/ nkr " j { ftcwle" cewcvqt. "y j lej "ku" wugf "lp" f kur nrego gpv" eqpvqn" v" qr gp" cpf "emug" y g" ur geko gpu" v" uko wrcv" y gto crlmcf lpi 0Vj g" j qm/cpf/mqr "utcr u" ctg" tgo qxgf "htqo " y g" vguv" ur geko gp. "cpf" cnwo kpwo "r ncvu" ctg" cwcej gf "v" dqy "ukf gu" qh" y g" ur geko gp "v" kpuvcn" k" lp" y g" mcf "htco g0Ukf g" C" qh" y g" ur geko gp "ku" cwcej gf "v" y g" dcug" r ncv" cpf "ukf g" D" ku" cwcej gf "v" y g" vqr "r ncv0Vj g" cewcvqt" f kur nregu" ukf g" D" d { "c" r tg/ f gvtgto kpgf "co qwpv" lp" c" j cxtgukpg" y cxg" cvc" tvv" qh" 3" J | 0Vj g" ur geko gp" ku" uwdlgev" v" : 72" e { ergu" qh" lqkv" qr gplpi "cpf" emukpi 0Vj ku" pwo dgt "qh" e { ergu" y cu" ugrgev" v" dcugf " qp" y g" pwo dgt "qh" y kvgt" f c { u" lp" y j lej "c" lqkv" y km" qr gp" cpf "emug" qxgt" c" 9/ { gct" r gtkqf " 343" y kvgt" f c { u" r gt" { gct" hq" 9" { gctu" 0" Hhvggp" { gctu" ku" y g" v" r lecn" co qwpv" qh" v" o g" dgw ggp" r cxgo gpv" tgj cdkkcvkqp" r tqlgvu0 Vj gthqg. " chgt" qp" h" vki wg" vguv. " y g" co qwpv" qh" f co ci g" ceewo wrcv" j chy c { "v" y g" h" tuvtg" cd" ecp" dg" s wcpv" klgf 0Chgt" 372" e { ergu. " 42" e { ergu" qh" mcf "cpf" f kur nrego gpv" f cv" ctg" eqmgev" f 0Vj ku" tgr gcw" v" tqwi j qw" v" y g" y gto crlh" vki wg" vguv. " tguwnkpi "kp" 7" i tqwr u" qh" f cv" r gt" ur geko gp" r gt" vgu0

Cu" f guetkdgf " kp" Crr gpfkz" E." eqpetgv" r cxgo gpv" vgo r gtcwtgu" o gcuwtgf" wulpi " yj gto qeqw ngu" kpuvcmgf "kp" UT/44" f wtkpi "Lcpwct { . "Hgdwtct { . "Pqxgo dgt. "cpf" F gego dgt "qh" 4236" y gtg" wugf "v" ecrcwrcv" y g" y ggtgvecn" v" tcpuvgtug" lqkv" o qxgo gpv0Vj g" vgo r gtcwtgu" wugf "y gtg" eqo r ctgf " v" co dlgpv" vgo r gtcwtgu" kp" 4236" htqo " y g" Pcvkqpcn' Qegcple" cpf " Cvo qur j gtle" Cfo kpvkcvkqp" *P QCC + "cpf" y gtg" hqwpf "v" dg" tgr tguvpv" v" xg" qh" v" r lecn" vgo r gtcwtgu" hq" y g" tgi kqp"]95_0Dcugf "qp" y g" f cv" eqmgev" v" htqo "UT/44. "c" vgo r gtcwtg" tcpu g" qh" dgw ggp" 42" H" v" 72" H" y cu" f gvtgto kpgf "v" ceewcvgn { "tgr tguvpv" y g" g" zr gev" v" r cxgo gpv" vgo r gtcwtgu" kp" y g" y kvgt" o qpj u" lp" Rkwudwi j . "RC0Vj g" ugcnpv" vgo r gtcwtg" qh" gcej "ur geko gp" y cu" 42" H" r tkqt "v" dgkpi "kpuvcmgf" kp" y g" mcf "htco g0Vj g" ugcnpv" vgo r gtcwtg" cv" y g" gpf "qh" y g" y gto crlmcf "v" guv" ku" cr r tqzko cvgn { "72" H" 0Vj g" ugcnpv" vgo r gtcwtg" ku" o qpkqtgf "y" tqwi j qw" v" y g" v" guv" wulpi "c" HNKT "G72" kphctgf "eco gtc. "uj qy p" lp" Hki wtg" F 070

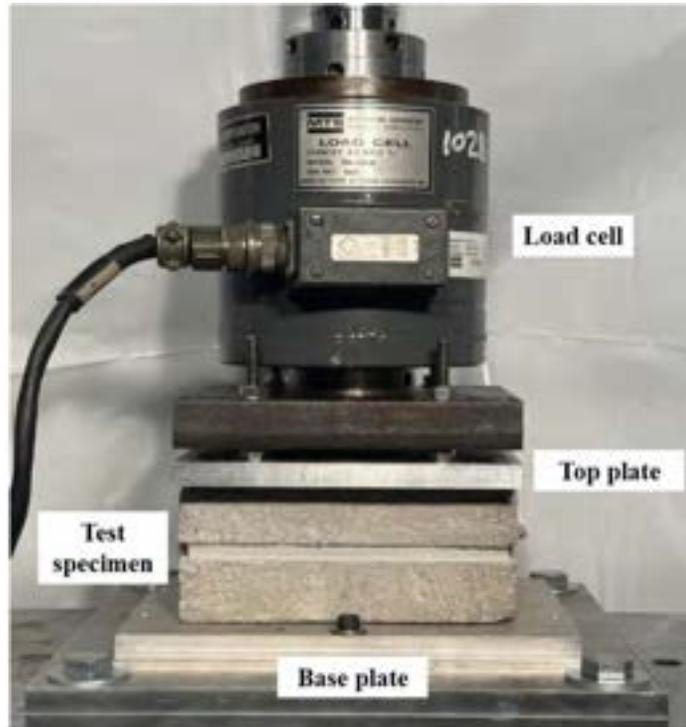
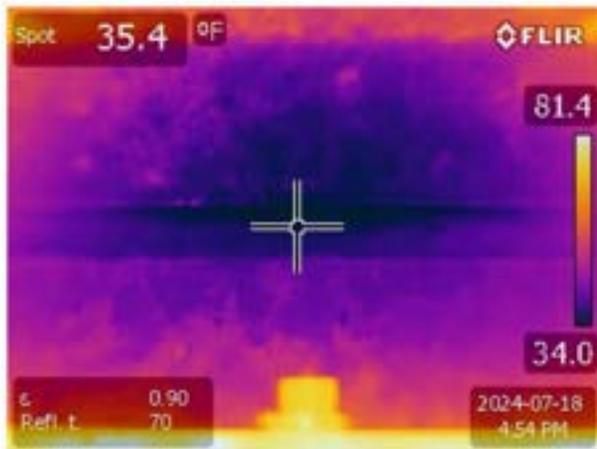


Figure D.14. Tensile displacement setup



(a)



(b)

*Hli wt g'F Ø70Lqkp'qr gplpi lerqkpi 'lc'ki wg'c +kph ct gf 'rj qv'cpf '*d+eqtt gur qpf kpi 'ur geko gp*

5040'Lqkp'qr gplpi

Kp/ukw'vgo r gtcwtg'f cv'ltqo "UT/44'y cu'pqv'qpn' 'wugf 'v'g'gucdrkuj 'vj g'v'g'v'go r gtcwtg'qh' vj g'ur geko gp'dw'cnuq 'v'g'g'v'ko cv'g'v' r lecn'lqkp'v'o qxgo gpv'f wt kpi 'vj g'y k'p'v'g't'o qpj u'lp'Rkxudwi j ." RC0'F wt kpi " Lcpwct {." Hgdtwct {." P qxgo dgt." cpf " F gego dgt" qh' 4236." vj g' cxgtci g" f ckn' " mjy " vgo r gtcwtg" o kpwu" qpg" ucpf ctf " f gxkcvqp" y cu" hqwpf " vq" dg" 47ÅH' Vj g" cxgtci g" f ckn' " j ki j " vgo r gtcwtg" r nnu" qpg" ucpf ctf " f gxkcvqp" y cu" hqwpf " vq" dg" 72ÅH' Vj g'ug' vgo r gtcwtg'u" ecp" dg" eqttgrcv'g' 'v'g'g'v'ko qxgo gpv'wulpi "Gs wcvkq": "f guetkdgf "kp"Cr r gpf kz 'E0Vj g'eqpetg'v'eqgh'lekpv'

qh'vj gto cni'gzi cpukqp "EVG+cpf" f t { kpi 'uj t k p n e i g 'y g t g 'c u u w o g f 'v q 'd g '70/32/8" 1A H 'c p f '742" . " t g u r g e v x g n . " d c u g f " q p " n e d q t c v q t { " o g c u w t g f " x c n w g u ' c u ' f g u e t k d g f " k p " C r r g p f k z " E 0 V j g ' u r c d " r g p i v j " c p f " r c x g o g p v ' v g o r g t c w t g " c v ' v k o g ' q h ' u g c n k p i ' y g t g ' 37 ' h v ' c p f " : 7 A H ' t g u r g e v x g n (0 W u k p i ' v j g u g ' x c n w g u . " v j g ' v j g q t g v e c n l q k p v ' o q x g o g p v ' e q t t g u r q p f k p i ' v q ' 47 A H ' c p f ' 72 A H ' r c x g o g p v ' v g o r g t c w t g u ' k u ' - 9 : " c p f " - 75 ' o k u . " t g u r g e v x g n (0 V j g u g ' k p r w u ' c t g ' u w o o c t k g f ' k p " V c d r g ' F 0 1 0

Vcdrg'F010P q p / c e v x c v g f ' l q k p v ' o q x g o g p v ' r c t c o g v g t u

Lqkpv'T gugt xqkt 'F guli p' Rct co gvgt	Xcnwg
Eqpetgvg'EVG	70, 32/8" 1A H
Eqpetgvg'f t { kpi 'uj t k p n e i g	742"
Cxi 0'urcd'vgo r 0B 'vko g'qh'ugcn	: 7A H
Urcd'rgpi vj	37'hv
Kpkkcni'lqkpv'y kf vj	T gugt xqkt " ? " 206 : " k p = H k m g f " ? " 2047 ' k p
Rcxgo gpv'Vj gto cniE qpf ksqp,	Lqkpv'O qxgo gpv
Cxi 0'iqy 'y kpvgt'vgo r 06'3'uvf 'f gx0? '47A H	Kpkkcni'lqkpv'y kf vj " - '9: 'o ku
Cxi 0'j ki j 'y kpvgt'vgo r 0- '3'uvf 'f gx0? '72A H	Kpkkcni'lqkpv'y kf vj " - '75'o ku

, Guvdrkuj gf 'htqo "UT/44" vj gto qeqwr ig'f c v c ' k p ' R k w u d w i j . " R C " * L c p 0 ' H g d 0 ' P q x 0 ' F g e 0 ' 4236+

Gcej "lqkpv'f guli p'y cu'uwldgevgf "vq"lqkpv'qr gpkpi lerqulpi "hcvki wg'uko wrcvki "vj g"gzr gevgf " hmwewvqpu" k p " r c x g o g p v ' v g o r g t c w t g ' v j t q w i j q w ' c " v r l e c n ' y k p v g t 0 ' V j k u ' y c u ' r g t h q t o g f " d { " f k u r n e k p i ' u k f g ' D ' q h ' v j g ' u r g e k o g p ' w r y c t f ' d { " - 89 ' o k u ' h t q o ' v j g ' q t k i k p c n ' * 100 ' w p q r g p g f + r ' q u k k q p 0 ' V j k u ' r g e k o g p ' k u ' j g r f ' c v ' v j k u ' m e c v k p ' h q t ' 3 ' o k p w g ' u q ' v j g ' h q t e g ' e c p ' u r c d k k g 0 ' V j g ' u r g e k o g p ' k u ' v j g p " e { e r g f " d g y g g p " - 9 : " c p f " - 75 ' o k u ' q h ' f k u r m e g o g p v ' h t q o ' v j g ' q t k i k p c n ' r ' q u k k q p ' h q t " : 72 ' e { e r g u 0 ' V j g " m q c f " e g m ' v j g p " o q x g u ' u k f g ' D ' q h ' v j g ' u r g e k o g p " d c e n ' v q ' v j g ' q t k i k p ' c v ' c ' f k u r m e g o g p v ' q h ' - 89 ' o k u ' c p f " o c k p v c k p g f ' c v ' v j k u ' r ' q u k k q p ' h q t ' 4 ' o k p w g u ' c u ' v j g ' h q t e g ' u r c d k k g u 0 ' V j g ' f c v c ' c e s w k u k k q p ' u { u v g o ' t g e q t f u " m q c f " c p f " f k u r m e g o g p v ' f w t k p i " g c e j " v g u v ' c v ' c ' h t g s w g p e { " q h ' 322 ' J | 0 ' V j g ' u r g e k o g p ' k u ' v j g p " t g o q x g f " h t q o ' v j g ' v g p u k r g ' f k u r m e g o g p v ' u g w r . " v j g ' j q q m ' c p f / m q r " u t c r " k u ' w u g f " v q ' u g e w t g ' v j g ' u r g e k o g p . " c p f " v j g ' e q p f k k q p ' q h ' v j g ' u r g e k o g p " k u ' g x c n w c v g f . " c u ' f g u e t k d g f " d g n y 0 ' V j k u ' r t q e g f w t g " k u ' e q p f w e v g f " 7 " v k o g u . " h q t " c " v q v c n ' q h ' 8 " v q " u k o w r c v g " 64 " { g c t u ' q h ' v j g t o c n i ' m q c f k p i " k p " v j g ' u j c n g f q y p " v g u k p i . " K ' y c u " h q w p f " v j c v ' p q " f c o c i g " c e e w o w r c v k p " j c f " q e e w t g f " h q t " c p { " q h ' v j g ' u r g e k o g p u 0 ' V j k u ' u w i i g u w " v j c v ' w p f g t " v r l e c n ' e q p f k k q p u " w u k p i " u c p f c t f " R g p p F Q V " v c p u x g t u g " l q k p v ' f g u k i p u " c p f " o c v g t k c n u . " l q k p v ' h c k n t g ' u j q w f " p q v ' q e e w 0 J q y g x g t . " r t g o c w t g ' l q k p v ' h c k n t g ' k u ' u k n i t g r q t v g f " v q ' q e e w t 0

Vj g "lqkpv'qr gpkpi lerqulpi "hcvki wg'mqcf kpi "r tqveqni'y cu'tg/gxcnwcvgf "vq"uko wrcv" c " o q t g " e t k k e c n ' t c p i g " q h ' e q p f k k q p u 0 ' L e p w c t { " c p f " H g d t w c t { " c t g " v r l e c n m { " e q r f g t " v j c p " P q x g o d g t " c p f " F g e g o d g t " d c u g f " q p " v j g " k p / u k w ' v g o r g t c w t g ' f c v c . " y j k e j " e q t t g u r q p f u ' v q ' c " i t g e v g t " l q k p v ' o q x g o g p v 0 ' V j g " c x g t c i g ' f c k n { " r c x g o g p v ' v g o r g t c w t g " h q t " L e p w c t { " c p f " H g d t w c t { " k p " 4236 " o k p w u ' y q " u c p f c t f " f g x k e v k p u " y c u " h q w p f " v q " d g " 32 A H " y j k e j " e c p " d g " e q p u k f g t g f " c p " g z v t g o g " v g o r g t c w t g " g x g p 0 ' V j g "

vj gqtvkcn'lqkv'qr gpkpi 'hqt'vj ku'gzvgo g'eqrf 'eqpf kkv'ku'- ; 5'o ku'wukpi 'vj g'lqkv'tgugtxqkt 'f guki p'
r ctco gvtu'lp"Vcdng'F 040K'y cu'cnaq'cuuwo gf 'vj cv'gxtg{ 'vj kf 'qt'hwv'vj 'lqkv'cevxcv'g'gctn{ 'qp'kp"
Rgppu{ rkcpc'0Y kj 'vj ku'cuuwo r v'kp. 'vj g'r cxgo gpv'ghgevkxg'urcd'ngpi vj "eqwrf "dg'cp{ y j gtg'htqo "
37'h'v'w'v'v'82'h'0K'vj g'cuuwo gf "ghgevkxg'urcd'ngpi vj 'ku'52'h'vj g'gzr gev'gf 'lqkv'qr gpkpi 'y qwrf "
dg"- 3: 8'o kn0

Vj ku'cpv'ekr cv'gf "lqkv'qr gpkpi 'y cu'eqo r ctgf "v'c"lqkv'ugcrkpi "uwxg{ "v'g'puxw'g'vj cv'vj g'
xcn'w'gu'ctg'tgcn'v'ke'0Rgpp'F QV"eqpf vev'gf "c"lqkv'ugcrkpi "uwxg{ "htqo "Ugr vgo dgt"4243"v'c'wi wuv'
4244."y j lej 'f qewo gpv'gf 'vj g'cxgtci g'lqkv'qr gpkpi 'hqt'9'f h'htg'gpv'r cxgo gpv'ugevkqpu'y kj "37/h'
v'cpuxgtug'lqkv'ur celpi u'qp'Rgppu{ rkcpc'j k j y c{u}"; _0C"uwo o ct{ "qh'vj g'uwxg{ "ku'r tqxkf gf "kp"
Vcdng'F 050K'ecp"dg"uggp"vj cv'vj g'cxgtci g'lqkv'y kf vj "tcpi gf "dgy ggp"206: "v'2067"kp'y kj "vj g"
o czko wo 'lqkv'y kf vj 'tcpi kpi "dgy ggp"203'cpf "2073'kp'0Vj gug'y kf vj u'eqttgur qpf 'v'lqkv'qr gpkpi u'
qh'- 358'cpf "- 555'o ku.'t'gur gev'xgn{ . 'cuuwo kpi "c'f guki p'tgugtxqkt'y kf vj "qh'20697'kp'0Vj g'guk'o cv'gf "
- 3: 8'o ku'qh'lqkv'o qxgo gpv'ku'y kj kp'vj g'f qewo gpv'gf 'tcpi g'qh'lqkv'y kf vj u'kp'vj g'h'grf . 'uq'vj ku'
co qwpv'qh'o qxgo gpv'ku'dgkpi "qdugtxgf 'lp'vj g'h'grf "dcugf "qp'vj g'uwxg{ 'f cvc0

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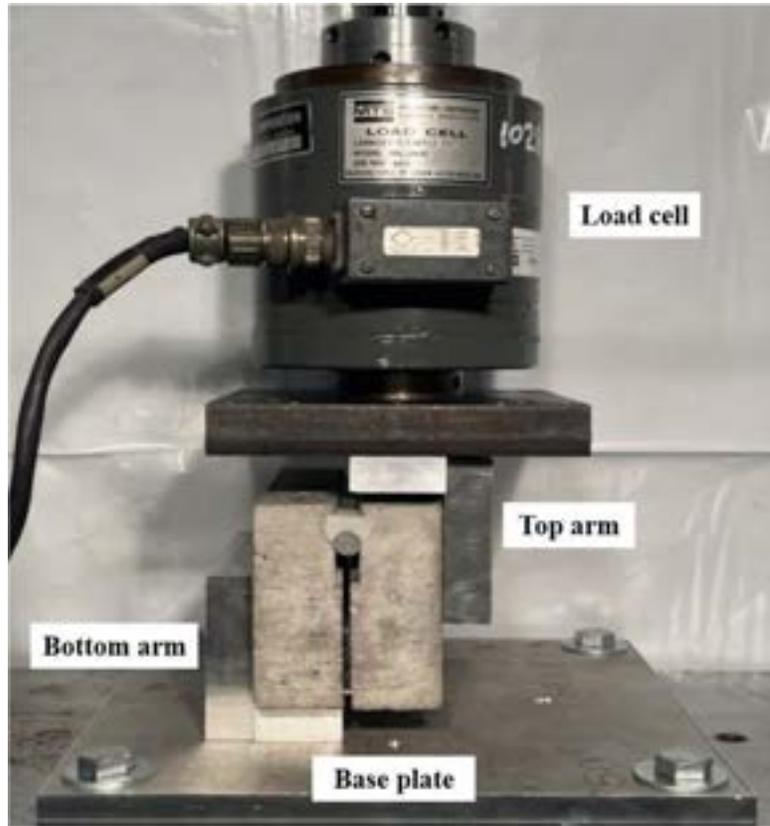
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C24P	4225	V{rg'KK	3:	4	2072	2085	2065	2047	2088	2	36	607	2047	3: 07
C24U	4228	V{rg'KK	37	4	2064	2073	2057	2086	/2024	5	366	2	33	377
C27	4237	V{rg'KK	8	6	205:	2077	204:	208:	/2082	36	483	2	7;	542
C2: C	4224	V{rg'KK	42	3	207;	2093	2069	2055	2082	2	20 5	2	208:	20 3
C32	4236	Ukleqpg	:	:	2076	207;	2065	2043	2088	4	: 6	2	: 07	; 407
C34C	4238	V{rg'KK	7	7	2072	2073	2069	2086	2082	7	53:	2	44	562
C34D	423:	V{rg'KK	5	5	206:	2077	2065	208:	2088	5	598	2	33	5: 9

Vj gug'tgxkugf "lqkv"qr gpkpi u'y gtg"vj gp"lpeqtr qtcvxf "kvq"vj g"vgvupi "tgi ko g'r t'gxkqwanf " f guetkdgf "kp"vj g"lqmqy kpi "o cppgt0Vj g'ur geko gp"ku'42ÄH'y j gp"kv'ku'r rnegf "kvq"vj g"mqf "htco g0 Vj g"lqkv'ku"qr gpgf "vq"- 33; "o ku0Chtgt "vj g"lqtegt"ucdkk gu."c"j cxgtukpg'y cxg'y kj "c"o kpk wo " f kur rnego gpv'qh"- 75"o ku'cpf "c"o czko wo "f kur rnego gpv'qh"- 3: 8"o ku'ku'cr r rkgf "cv'c"htgs wgepe { "qh" 3"J | 0C "vqcn'qhi": 72"e { engu'ctg"cr r rkgf 0Vj g'ur geko gp"ku"vj gp"ugv'dcem'vq"ku'qtki kpenr qukkqp"cpf " ku'tgo qxgf "htqo "vj g"mqf "htco g0Vj g'ur geko gp"eqpf kkp"ku'cuugugf "r gto gcdk'v" "cpf "ukh'p'guu+." cpf "vj gp"vj g"eqo r rnegf r tqegf vtg" "h'vki vki "cpf "eqpf kkp"cuuguo gpv+"ku"eqpf wevgf "hxg"o qtg" vko gu."hqt" "c"vqcn'qhi'ukz0

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Vj g'vcti gv'vgu'vgo r gtcwtg'hqt"gej "ur geko gp"ku'ci ckp"42ÄHQpeg"vj g'ur geko gp"ku'kpu'cngf " kp"vj g"mqf "htco g."ukf g"D" f kur rnegu'd { "- 1/32"o ku'kp" "c"j cxgtukpg'y cxg'hqt"7222"e { engu'cv'c'tcv'qh" 7"J | 0'Vj ku'tcpi g'qhi'f kur rnego gpv'y cu'ej qugp'dcugf "qp"vj g"o czko wo "cnuq cdrg'tgn'v'xg'f ghgevkp" hqt" f qy gngf "eqpetgv"r cxgo gpv"J96_0'Vj g"pwo dgt"qh'mqf "cr r rkecvkpu"ht"vj ku'h'vki wg"vgu'ku" kvpgf gf "vq"uko wcv'9" { gctu'qh'xgj lewrt"mqf kpi . "uq"vj g" f co ci g"htqo "xgj keng"mqf "h'vki wg" ceewo wcv'w' "vq"vj g'htuv'tgj cd'ecp'dg's wcp'v'k'kgf 0Cnj qwi j "vj g'htuv'tgj cd'uj qwr "dg'chgt"cv'rgcu" 37" { gctu'kp"ugt'x'leg."c" f hhtg pvcn'f ghgevkp"qh"- 1/32"o ku'tgr tgugpvu'cp"gzvgo g'eqpf kkp"chgt" lqkv'r gthqto cpeg'f ger'k'p'gu'dgny "cp"ceegr vdr'g'ngxgr0Chtg"6: 2"e { engu'cv'7"J | . "vj g'u { vgo "urqy u" vq"3"J | "cpf "42"e { engu'qh'mqf "cpf "f kur rnego gpv'f cv'c'tg'eqmgevgf "cv'c"htgs wgepe { "qh"322"J | 0'Vj g" f get'g'cug"kp"mqf kpi "tcv"y cu"tgs vktgf "vq"tgf weg"vj g"pqkug"kp"vj g" f cv'0'Vj ku"r tqeguu"tgr gcvu" vj tqwi j qw'vj g'xgj keng'h'vki wg"vgu."tguw'kpi "kp"32"i tqwr u'qhi'f cv'r gt'ur geko gp"r gt"vgu'0'Vj g'ugcnpv' vgo r gtcwtg"ku"o qp'k'q'gf "vj tqwi j qw"vj g"vgu'y kj "vj g"kp'ht'ctgf "eco gtc0'Vj g"ur geko gp"ku"vj gp" tgo qxgf "htqo "vj g"uj gct" f kur rnego gpv'ugwr . "vj g"j qqm'cpf /mqr "utcr "ku" wugf "vq"ugewtg"vj g" ur geko gp."cpf "vj g"ur geko gp"eqpf kkp"ku" gxcn'w'vgf 0'Vj ku"r tqegf vtg"ku" cnuq"eqpf wevgf "hxg" cf f kkp'cn'vko gu."hqt" "c"vqcn'qhi'ukz0



Hli wt g'F Ø80Uj gct 'f kur r ego gpv'ugwr

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K'ku'etklecn'vq's wcpvkh' 'ej cpi gu'kp'lqpv'r gthqto cpeg'cpf 'f co ci g'ceewo wrcvqp'kp'tgur qpug''
 vq'ltgg' g/vj cy 'gZR quwtg'cpf 'fcvki wg'eqpf kkp'ØVj g'eqpf kkp'qh'gcej 'ur geko gp'ku'gxcwvqf 'wulpi ''
 vy q'o gj qf u'ØVj g'htuv'o gj qf 'cuuguu'lqpv'tgukcpeg'vq'y cvgt 'kphkntcvkqp.'y j lej 'ku'wugf 'vq''
 s wcpvkh' 'vj g'dqpf 's wcrkv' 'dgy ggp'vj g'ugrcpv'cpf 'vj g'eqpetgv'f'ceg'cpf 'y kj kp'vj g'dwm'ugrcpv''
 o cvgtkcn'vj tqwi j 'c'r gto gcdkkv' 'vgu'ØVj g'ugeqpf 'o gj qf 's wcpvkh'gu'vj g'f gi tcf cvkqp'qh'vj g'ugrcpv''
 o cvgtkcn'd { 'cuugukpi 'vj g'tgf wcvkqp'qh'vj g'ukhpguu'qh'vj g'ugrcpv'cpf 'vj g'gpgti { 'uvtgf 'kp'vj g''
 ugrcpv'cu'k'qr gpu'cpf 'emugu'ØDqj 'o gj qf u'ctg'eqpf wcvqf 'dghqg'ltgg' g/vj cy 'eqpf kkp'kp' . 'chgt''
 ltgg' g/vj cy 'eqpf kkp'kp' . 'cpf 'vj gp'chgt'gcej 'tqwpf'qh'vj gto cn'cpf 'xgj kewrct'fcvki wg'vgukpi 0

506''Ugrcpv'ukhpguu

O qpkqt'kp' 'vj g''ej cpi g''kp'grcukle''o qf wwu'cpf 'uj gct''o qf wwu'qh'vj g'ugrcpv''ku'wugf 'vq''
 s wcpvkh' 'f gi tcf cvkqp'qh'vj g'ugrcpv'r gthqto cpeg'ØUgrcpv'ukhpguu''ku'cnuq''s wcpvkh'gf ''wulpi ''vj g''
 vgpukg'f kur r ego gpv'rdqtcvqt { 'ugwr ØVy gpv' { 'e { engu'ctg'cr r rkgf 'vq'gcej 'ur geko gp'kp'c''j cxgtukpg''
 y cxg'cv'3'J | 'y j kg'vj g'ur geko gp'ku'cv'tqgo 'vgo r gtcwtg.'kp'vj g'uco g'o cpgt'cu'y cu'f guetkdgf 'hqt''
 vj g''lqpv''qr gpkpi ''fcvki wg''mqf kpi Ø Vj g''ej cpi g''kp''rvgtcn'cpf ''uj gct''utguugu'cpf ''utckpu''ctg''
 f gvto kpgf 'ltqo 'vj g'ecr wtgf 'mqf'cpf 'f kur r ego gpv'f cv'vq''cuugu'vj g''ej cpi g''kp''ukhpguu'ltq''
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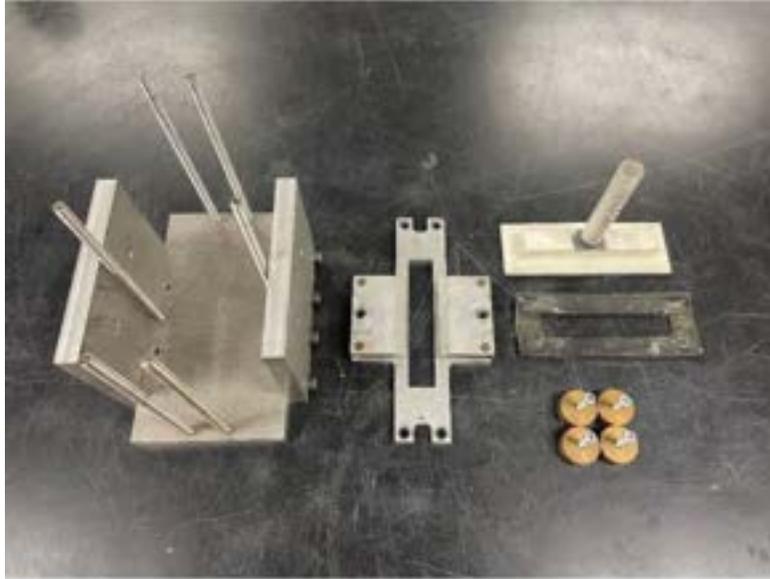
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gpgti { 'f'kuuk'cvkq'f'wtkpi' 'lqkv'o qxgo gp'0Cu'c'lqkv'qr gpu'cpf' 'emugu.'v' g'gpgti { 'tgs wktgf' 'v' 'o qxg''
v' g'lqkv'ku'wqtgf' 'kp'v' g'ugrcpv'cpf' 'f'kuuk'cvgu'v' tqwi j qw'v' g'o cvgtkcn'0Vj ku'eqpegr v'j cu'v' r'kecm' ('
dggp'g'zr'rtgf' 'kp'v' g'ctgc'qh'cur j cn'dkpf gt'r gthqto cpeg'0Rcu'v'tuguctej 'j cu'uj qy p'v'v' cu'cu'cur j cn''
dkpf gt'ceewo wrcvu'f co ci g.'v' g'f'kuuk'cvgf'gpgti { 'f'getgcugu'j97_0Vj ku'kf gc'qh'f'kuuk'cvgf'gpgti { '
ecp'dg'gz'v'cr'rcv'gf' 'v' 'lqkv'ugrcpw'wugf' 'kp'' r'cxgo gp'u'cpf' 'ecp'dg'wugf' 'v' 'ej ctcevgtk' g'v' g''
r gthqto cpeg'qh'f'khtgtpv'lqkv'f'guki pu'0Vq'o gcuwt'g'v' ku.'42'e { engu'ct'g'cr r'rkf' 'v'gcej 'ur geko gp'kp''
c'j'cxgtuk'p'g'y'cxg'cv'3'J | 'y j'kg'v' g'ur geko gp'ku'cv'tqgo 'vgo r'gtcwt'g.'kp'v' g'uco g'o cpgt'cu'y cu''
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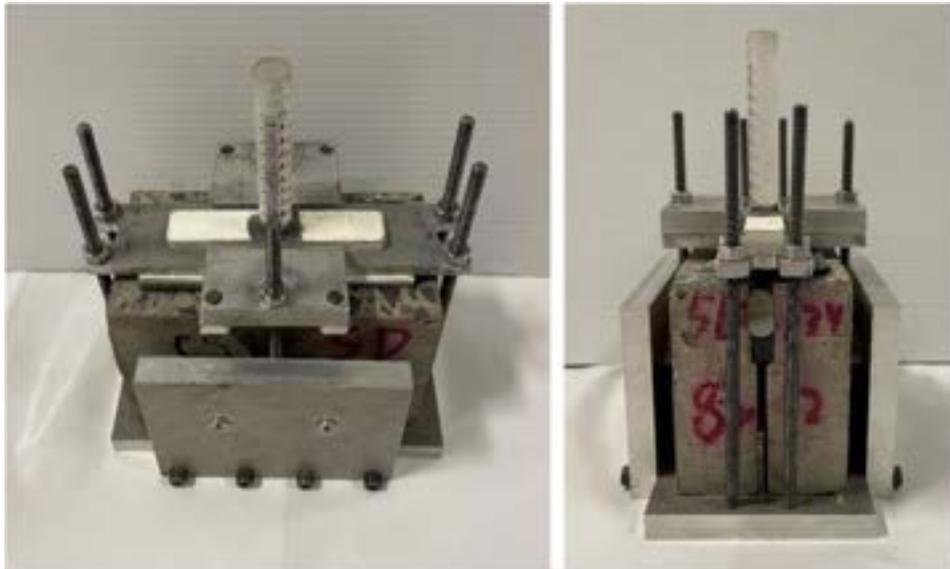
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v' g'tcv'g'qh'y cvgt'kphk'ncv'kq'v' tqwi j 'v' g'lqkv'qxgt'c'uj qt'v'r' g'kqf' 'qh'v'ko g'0Vj g'cr r'ctcwu'wugf' 'kp''
v' g'r'gto gcdkx{ 'v'guv'eqpuku'qh'cp'cnwo k'pwo 'j'ctpguu.'c'5F/r' tkp'v'g' 'h'wppgn' 'd'c'cu'ur'cegtu'v'q''
o'ckp'v'k'p'v' g'lqkv't'gugtxqk'cv'c'9: /o' k'q'r'gpkpi' . 'cpf' 'c't'wddgt' 'i'cung'0Vj g'v'gu'ku'eqpf'w'v'v'g'f' 'd' { '
qr'gpkpi' 'v' g't'gugtxqk'qh'gcej 'ur geko gp'd' { '9: 'o' ku'k'0'v' g'o' czko wo 'qr'gpkpi' 'kp'v' g'y' k'v'gt' 'o' q'p'v' u''
dcugf' 'qp'kp'ukw'v'go r'gtcwt'g'f'c'v' 'h'qo 'UT/44+'cpf' 'h'k'kpi' 'v' g'ecxk' { 'cdq'x'g'v' g'ugrcpv'y' k'j' 'y' cvgt'0''
Vj g'r'gto gcdkx{ 'v'guv'ku'wugf' 'v' 'cuugu'v' g'd'q'p'f' 's'w'c'k'v' 'd'g'y' g'g'p'v' g'ugrcpv'o' cvgtkcn'cpf' 'v' g''
eqpet'g'v' 'u'w'd'v'c'v'g' 'c'f'j' gukxg'f'c'knt'g'+'cu'y' g'm'cu'cp' { 'v'g'ctkpi' 'v' cv'o' ki j' v'f' g'xg'qr' 'y' k'j' kp'v' g'ugrcpv''
o'cvgtkcn'eqj' gukxg'f'c'knt'g'+

C'v'guv'ur geko gp'ku'r'rc'egf' 'kp'v'v' g'cnwo k'pwo 'j'ctpguu'cpf' 'ur'cegtu'ct'g'wugf' 'v' 'qr'gp'v' g'lqkv''
d' { '9: 'o' ku'0'R'no d'g't'v'ur' w'w' { 'ku'r'rc'egf' 'qp'v'qr' 'qh'v'v' g'ugrcpv'v'q'ugcn'v' g'gf' i' gu'v'q'r' t'g'x'g'p'v'y' cvgt' 'h'qo' '
ng'cn'kpi' 'q'w'qh'v'v' g'lqkv'cpf' 'v' 'o' k'ki' cv'g'gf' i' g'g'h'g'ev'0Vj g't'wddgt' 'i'cung'v'ku'r'rc'egf' 'qp'v'qr' 'qh'v'v' g'r' w'w' { '
cpf' 'q'x'g't'v' g'lqkv'v'q'ugcn'v' g'v'qr' 'qh'v'v' g'ur geko gp'0C' 'h'wppgn'y' k'j' 'cp'cv'cej' gf' 'i' t'cf' w'v'v'g'f' 'e' { 'r'k'p'f' g't'ku''
v' g'p'rk'p'g'f' 'w' 'y' k'j' 'v'v' g' 'i'cung'v' 'cpf' 'cp'cnwo k'pwo 'v'qr' 'r'rc'v'g'ku'r'rc'egf' 'q'x'g't'v' g'cu'ugo d'n' { 'v' tqwi j '8''
v'j' t'g'c'f' g'f' 't'q'f' u.'cv'cej' gf' 'cpf' 'v'ki j' v'g'p'g'f' 'y' k'j' '8'j' g'z' 'p'w'u'0Vj g'v'qr' 'r'rc'v'g'ku'v'ki j' v'g'p'g'f' 'w'p'k'q'to' n' { 'cv'cm''
uk'z'j' g'z' 'p'w'u'v'q'g'p'u'w'g'gs' w'c'n'li'q'teg'q'p'c'm'l'uk'f' gu'0C' h'g't'v'v' g'j' c't'p'g'u'u'ku'cu'ugo d'rg'f' . 'c' 'u' { 't'k'p'i' g'ku'wugf' 'v'q''
k'p'l'g'ev' 'cr' r' t'q'z'ko' cv'gn' { '3' 'h'w'k'f' 'q'w'p'eg' 'qh'v'v' cvgt' 'kp'v'v' g' 'h'wppgn'y' t'cf' w'v'v'g'f' 'e' { 'r'k'p'f' g't'cu'ugo d'n' { '0'C''
u'v'q'r' y' cv'ej' 'ku'wugf' 'v'q'v'c'eni'v'v' g'v'ko' k'pi' 'qh'v'v' g'y' cvgt' 'kphk'ncv'kq' 'h'q't'7''o' k'p'w'gu.'cpf' 'v'v' g'co' q'w'p'v'qh''
y' cvgt' 'h'qu'v'v' tqwi j 'v' g'lqkv'ku'f' q'ewo' g'p'v'g'f' 0



Hli wt g'F 090 Cuugo drgf 'r gto gcdkkyf 'vgw'crrctcwu'y kj 'vgw'ur geko gp



Hli wt g'F 08: 0F kuciuugo drgf 'r gto gcdkkyf 'vgw'crrctcwu

506" Gzvpuddkkyf

S wcpkhi kpi 'vj g'ej cpi g'lp'r gthqto cpeg'itqo 'vj g'dgi kppkpi 'vq'vj g'gpf 'qhi'vj g'ugcnpv'rkig'ku' etkkekri'kp'f gygto kpkpi 'vj g'ko r cev'qh'itgg| g/vj cy "gZR quwtg'cpf "Ic'ki wg"eqpf kkkpu"qp'vj g'ugcnpv'0' Vj g'ej cpi g'lp'gZvpuddkkyf 'cv'ic'kwg'dgy ggp'pgy n' "ugcrgf "lqkwu'cpf "ugcnpwu'chigt'64" { gctu'qhi' uko wrcvgf 'lp'ugtxleg'eqpf kkkpu'y cu'gxcnrcvgf 0

5060''P gy 'Ugen

Vj tgg'uco r ngu'qh'gcej 'lqkpv'f guki p'ctg'fcdtkcvgf "cpf "ctg'wugf "vq'o gcuwtg'vj g'gzv'gpkdkk\ " r tkqt"vq"htgg| g/vj cy "cpf "h'vki wg"eqpf kkkpki 0'Vj g"vuv'vgo r gtcwtg"htg"gej "ur geko gp"ku"52ÅH" y j lej "ku"vj g"cxgtci g'r cxgo gpv'wht'ceg"vgo r gtcwtg"kp"vj g"y kpvt"o qpvj u'dcugf "qp"vj g'f cvc" eqmgev'f "htg"UT/440'Vj g"vgo r gtcwtg"qh'vj g"ugcrpv'ku'o qpkqtgf "wukpi "cp"kphtctgf "eco gtc0'Vj g" vuv'dgi kpu'd{ 'r m'ekpi "vj g"ur geko gp"kp'v'vj g"v'pukg'f kur mego gpv'vuv'ht'co g'cpf "qr g'pki "vj g'lqkpv' vq"60'kp'ht'qo "ku'qtki kpcnr qukkqp"cv'c'tcvg"qh'40'kp'r gt"o k'pwg0'Vj ku'ku'cp"ceegrtcvgf "tcvg"qh'vj g" ucpf ctf "CUVO 'F 754; "dqpf "vuv'j98_"cpf "j cu'dggp"uj qy p"gh'gev'kxg'kp'r t'g'xk'wu'uwf kgu'j99_0'Vj g" ugcrcpv'vgo r gtcwtg."ht'eg."f kur mego gpv."cpf "vj g"o qf g"qh'h'k'kwtg"ctg"o qpkqtgf "vj tqwi j qw"vj g" vuv'0'h'k'kwtg"qh'gcej "ur geko gp"ku'dcugf "qp"xkuwcn'k'pur gev'k'p'cpf "vj g'r gcm'v'g'pukg'ht'eg"f w'kpi "vj g" vuv'0'Vj g"vgo r gtcwtg"cv'h'k'kwtg"cpf "o qf g"qh'h'k'kwtg"*cf j gukxg"qt'eqj gukxg+"ctg"f qewo gpv'f 0'P q" cf f k'k'p'cn'v'gukpi "ku'eqpf w'ev'f "qp"vj gug'ur geko g'pu'q'peg"gzv'g'pukdkk\ ("v'gukpi "ku'eqo r r'ev'f 0

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Gz'v'g'pukdkk\ ("v'gukpi "ku'cnuq"eqpf w'ev'f "qp"vuv'ur geko g'pu'vj cv'j cxg'dggp"eqpf kkkpgf 0'Ch'gt " gcej "ur geko gp"j cu'w'p'f gti qpg"htgg| g/vj cy "g'zr quwtg."vj g'to cn'cpf "x'gj k'ewrct"h'vki w'kpi ."cpf "vj g" eqpf kkkp"qh'vj g'lqkpv'j cu'dggp"g'xc'nc'ev'f ."vj g'h'k'p'cn'gz'v'g'pukdkk\ ("qh'gcej "ur geko gp"ku'f v'g'to k'p'gf 0' Vj g"vuv'r tqegf w'g"ku'vj g"uco g"cu'vj cv'ht'p'gy n{ "ugcrf "ur geko g'pu'0'Vj g"ht'p'f kpi u'ht'qo "vj g'p'gy " ugcrcpv'ctg"eqo r ctgf "vq"vj qug'ht'qo "vj g'ugcrpv'g'zr qugf "vq"htgg| g/vj cy "cpf "h'vki w'f "vq"s w'cp'v'k\ " vj g'ej cpi g'kp"ugcrpv'r g'ht'qto c'peg"ch'gt "64"uko w'ev'f "{ g'ct'u'kp"ugt'x'k'eg0

602''T guwu

Vj g"ht'q'ny kpi "ugev'k'p'f g'uet'k'd'gu"vj g"t'guwu"qh'g'zr qukpi "gcej "lqkpv'f guki p"vq"htgg| g/vj cy " eqpf kkkpu." lqkpv' qr g'pki l'ev'k'pki " cpf " x'gj k'ewrct " h'vki w'g" n'q'f kpi ." cpf " vj g" ej cpi g" kp" w'kno cv'g" gz'v'g'pukdkk\ "kp't'gur qpug'vq"eqpf kkkpki 0

608''Htgg| g/Vj cy 'Gzr quwt g

Vy q't'gr n'ec'v'u'qh'gcej 'lqkpv'f guki p'y g'tg'uw'dl'gev'f "vq"ug'x'gt'cn't'q'w'p'f u'qh'htgg| g/vj cy "H/V+" eqpf kkkpki 0'Vj ku'eqpukv'f "qh'cr r n' kpi "h'x'g'H/V"e{ engu0'c'p{ 'f co ci g'ceewo w'ev'f "f w'kpi "vj g'H/ V"e{ en'kpi "y cu'cu'gu'ugf "d{ "vj gp"cr r n' kpi "42"e{ engu'qh'vj g'to cn'cpf "x'gj k'ewrct "h'vki w'g"n'q'f kpi "cv" tq'qo "vgo r gtcwtg"vq" f'v'g'to k'p'g"cp{ "ej cpi g"kp"uk'h'p'guu'0' Vj ku'eqpf kkkp"qh'vj g"ugcr'y cu'cnuq" g'xc'nc'ev'f "d{ "o gcuwtkpi "r g'to g'cd'k'k\ 0'Vj ku'r tq'guu"y cu't'gr g'cv'f "vj tgg"v'ko gu."ht'c"v'q'v'cn'qh'37" htgg| g/vj cy "e{ engu'0'rt'g'ko k'p'ct{ "v'gukpi "k'p'f'k'ev'f "vj cv'vj g'tg'y cu'p'q"uki p'k'h'k'ep'v't'gf w'ev'k'p'kp"uk'h'p'guu" cpf "vj g'ugcr'y cu'p'q'v'eqo r tqo k'ugf "d'cugf "qp"xkuwcn'k'pur gev'k'p'cpf "r g'to g'cd'k'k\ ("v'gukpi "+ch'gt "ukz" htgg| g/vj cy "e{ engu"ht" "vj g"cur j cn't'g'ug'x'q'k" cpf "cur j cn'h'k'g'f "ur geko g'pu'0'Vj g'tg"y cu'cnuq"pq" uki p'k'h'k'ep'v't'gf w'ev'k'p'kp"uk'h'p'guu"dg{ q'p'f "vj g'ht'uv'htgg| g/vj cy "e{ eng'ht"uk'k'ep'q'g't'g'ug'x'q'k"ur geko g'pu' cpf "vj g'ugcr'y cu'p'q'v'eqo r tqo k'ugf "d'cugf "qp"xkuwcn'k'pur gev'k'p'cpf "r g'to g'cd'k'k\ ("v'gukpi +0'Vj g't'g'ht'g." k'y cu'f v'g'to k'p'gf "vj cv'g'cej "ur geko gp"y k'rd'g'uw'dl'gev'f "vq"ukz"htgg| g/vj cy "e{ engu'y j g'tg"vj g'ugcrpv' uk'h'p'guu'uw'd'k'k' gf "r tkqt"vq"h'vki w'kpi "vj g'ugcrpv'0'k'uj q'w'f "d'g'p'q'v'f "vj cv'vj g"co q'w'p'v'qh'htgg| g/vj cy " g'zr quwtg"cp'cn| gf "kp"vj ku'uwf { "y cu'k'o k'g'f "d{ "vj g's w'k' r o gpv'w'ugf "cpf "vj g'v'ko g'k'v'q'm'v'q'eqo r r'ev'g" q'p'g'e{ eng'0'k'p' h'w'w'g'y q'tm"vj g'gh'ev'qh'o q'tg"gz'v'g'pukx'g'htgg| g/vj cy "g'zr quwtg"qp"gej "lqkpv'f guki p" uj q'w'f "d'g"cp'cn| gf "vq"dg'w'g't'w'p'f g'tu'w'p'f "vj g'k'o r ce'v'q'p'ugcrpv'f g'v'g't'k'q'c'v'k'p'0

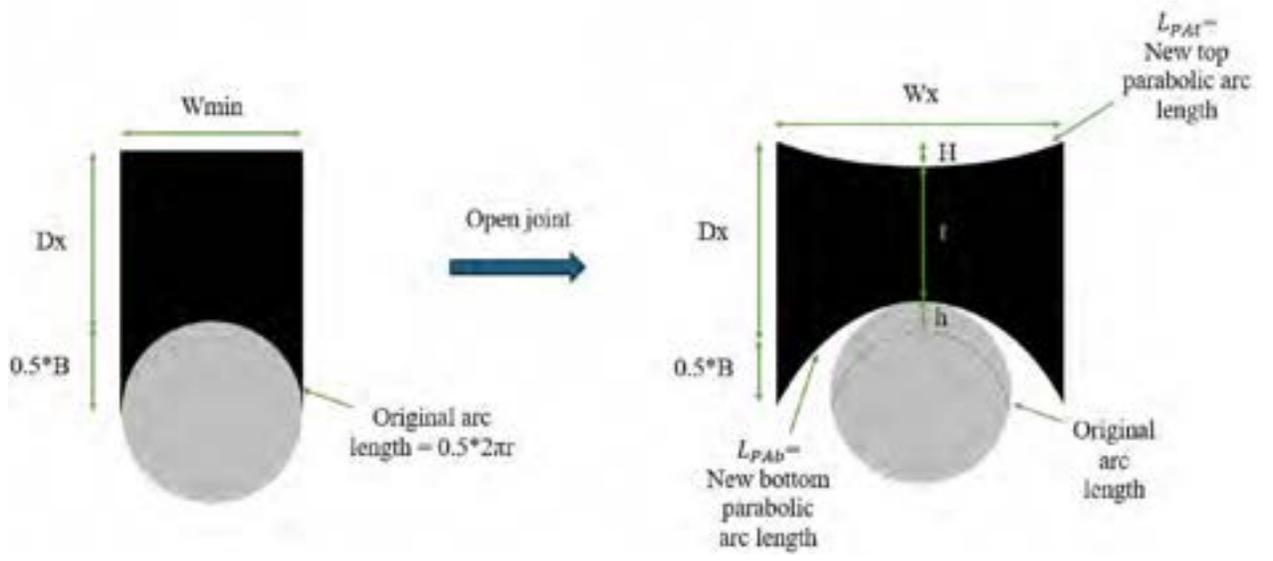
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Chgt"gej "f co ci g'gxgpv"vj g'ur geko gpu"ctg" gxcncv"cv'tqqo "vgo r gtcwtg"vq" f gyto kpg" vj g'ej cpi g'kp"grucv"cpf "uj gct"o qf wkVj g'grucv"o qf wwu"ku" f gyto kpgf "d{ "cr r n{ kpi "42"lqkv" qr gpkpi lemukpi "e{ engu"vq" vj g'ur geko gp"cv'tqqo "vgo r gtcwtgVj g'utguugu"eqttgur qpf kpi "vq"vj tgg" f khgtgpv'utckp"rgxgn'vj cv'tg'r cuugf "vj tqwi j "f wtkpi "lqkv'emquwtg"ctg"vugf "vq"ecrcv"vj g'ukhpguu" qh'vj g'ugrcpv'Utgugu"ctg"ecrcv"gf "d{ "f kxkf kpi "vj g'o gcuwtgf "hgtg"d{ "vj g'ecrcv"gf "o kf/y kf vj " etquu/ugevqp"cn'ctgc" qh' vj g'ugrcpv" cv" c" npqy p"lqkv" qr gpkpi "wukpi "Gs wcvkpu"; "vj tqwi j "33." f guetkdgf "dgrqy 0

Kp'tgur qpug"vq"lqkv"qr gpkpi ."vj g'ugrcpv'hqto u'c'r ctdqrk"cte"uj cr g'crpi "vj g'vqr ."cpf "vj g' gzkukpi "r ctdqrk"cte"crpi "vj g'vqr "qh'vj g'dcengt"tqf "grpi cvguVj g'vj kempuu."v"qh'vj g'ugrcpv'cv" o kf/f gr vj "vj gp" f getgcugu"cu"vj g"lqkv'eqpvkpwgu"vq"qr gpVj ku"r j gpqo gpqp"ku"uj qy p"kp"Hki wtg" F B; Vj g'vj kempuu"qh'vj g'gzvpgf gf "ugrcpv'eqttgur qpf u"vq"vj g"qtki kpcn'ugrcpv'f gr vj "o kpwu"vj g" j gki j v'qh'vj g'r ctdqrk"cteu"cv'vj g'vqr "cpf "dqwqo "qh'vj g'ugrcpv'Vj g'j gki j v'qh'vj g'vqr "r ctdqrk" cte"ecp"dg'hqwpf "wukpi "cp"gs wcvkqp"r tgxkqwn{ "guvdrkuj gf "d{ "Vqpu'hq"vj g'ctgc"qh'c'r ctdqrk"]5; _O' Vj g'j gki j v'qh'vj g'dqwqo "r ctdqrk"cte"o wuv'vj gp"dg" f gyto kpgf "vq"guvdrkuj "vj g'vj kempuu"qh'vj g' ugrcpv."y j kej "ecp"dg'hqwpf "wukpi "vj g'hqmqy kpi "Gs wcvkqp"; "cpf "ku" f guetkdgf "kp"Hki wtg" F 0420



Hki wtg'F B; OEj cpi g'kp'ugrcpv'uj cr g'y kj "lqkv"qr gpkpi

$$W_{min} \cdot (D_x + 0.5 \cdot B) - 0.5 \cdot \pi \cdot r^2 - (D_x + 0.5 \cdot B) \cdot W_x - \frac{2}{3} \cdot \left(\frac{3}{4} \cdot (D_x + 0.5 \cdot B) \cdot (W_x - W_{min}) \right) - \frac{2}{3} \cdot (h - 0.5 \cdot B) \cdot W_x$$

Area of non-extended sealant block Half the area of a backer rod Area of extended sealant block Area of top parabola (H in terms of D_x, B, W_x and W_{min})
 Known from established equations of parabolic area Area of bottom parabola
 Unknown due to original curvature of the sealant

Hki wt g'F 0420 Ugcrcpv'i gqo gvt { 'dcugf 'qp'c 'eqpuxpv'xqno g

$$m \cdot n \cdot D^* \cdot B + 207 \cdot B + 207 \cdot r^4 \cdot D \cdot 207 + B \cdot \frac{H}{3} \cdot \frac{H}{3} \cdot \dots \cdot Q$$

Y j gtg<

Y o kp? "o kpk wo 'lqkpv'y kf vj . 'kp"
 F z? "f gr vj "vq"vqr "qh'dcengt 'tqf . 'kp"
 D? "dcengt 'tqf 'f kco gvgt . 'kp"
 t? "dcengt 'tqf 'tcf kxu . 'kp"
 Y z? "gzvgpf gf 'lqkpv'y kf vj . 'kp"
 J ? "vqr 'r ctcdqrke 'cte'j gki j v . 'kp"
 v? "gzvgpf gf 'ugcrcpv'vj kempguu . 'kp"
 j ? "dqwqo 'r ctcdqrke 'cte'j gki j v . 'kp"

Qpeg'vj g'dqwqo 'r ctcdqrke 'cte'j gki j v'ku'hqwpf . 'vj g'vj kempguu'qh'vj g'ugcrcpv'cv'o kf 'lqkpv'cpf 'etquu/ugevkpcn'ctgc'qh'vj g'ugcrcpv'cv'vj ku'rqecvkqp'ecp'vj gp'dg'uqkxgf 'y kj 'vj g'hqmqy kpi 'gs wcvkqpu0

$$D \cdot H / " \cdot \dots \cdot 032$$

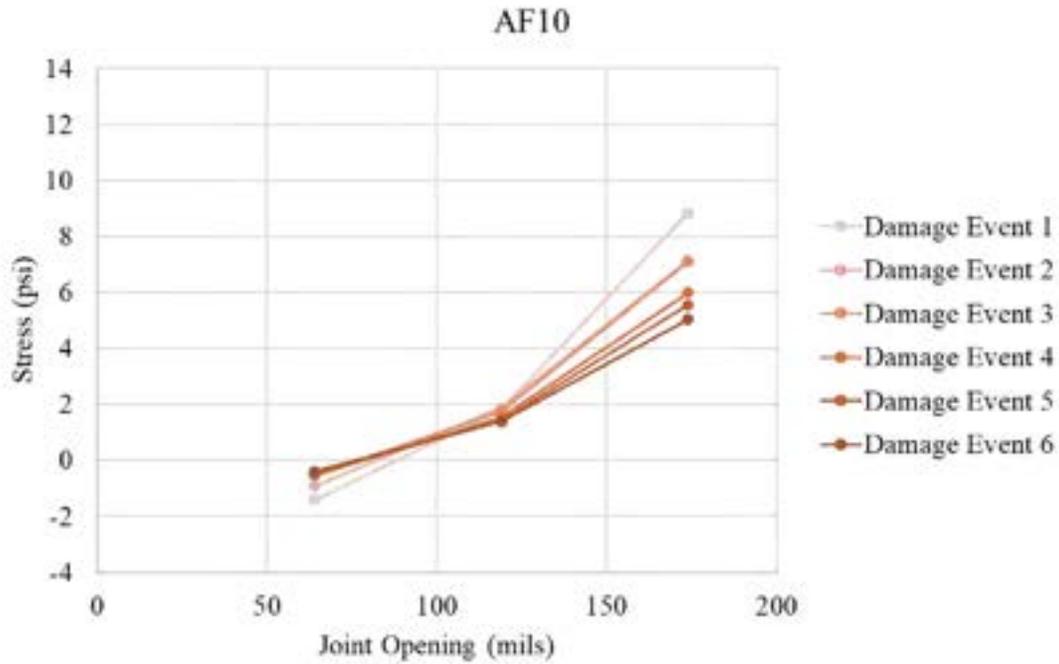
$$\dots \cdot " \cdot " \cdot " \cdot \dots \cdot 083$$

Y j gtg<

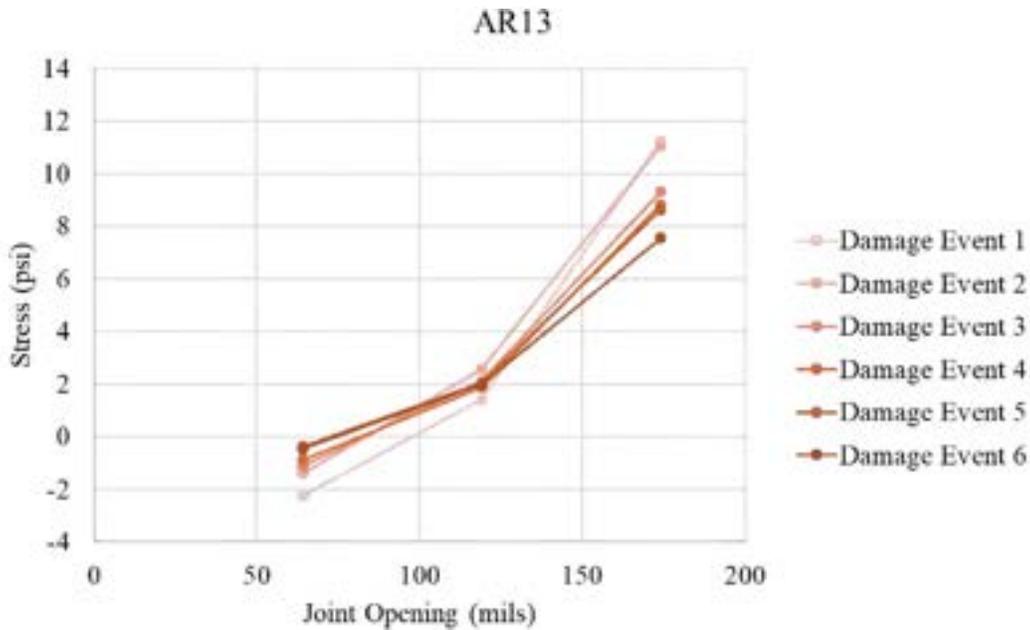
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 N? "vqcn'igpi vj 'qh'ugcrcpv . 'kp"

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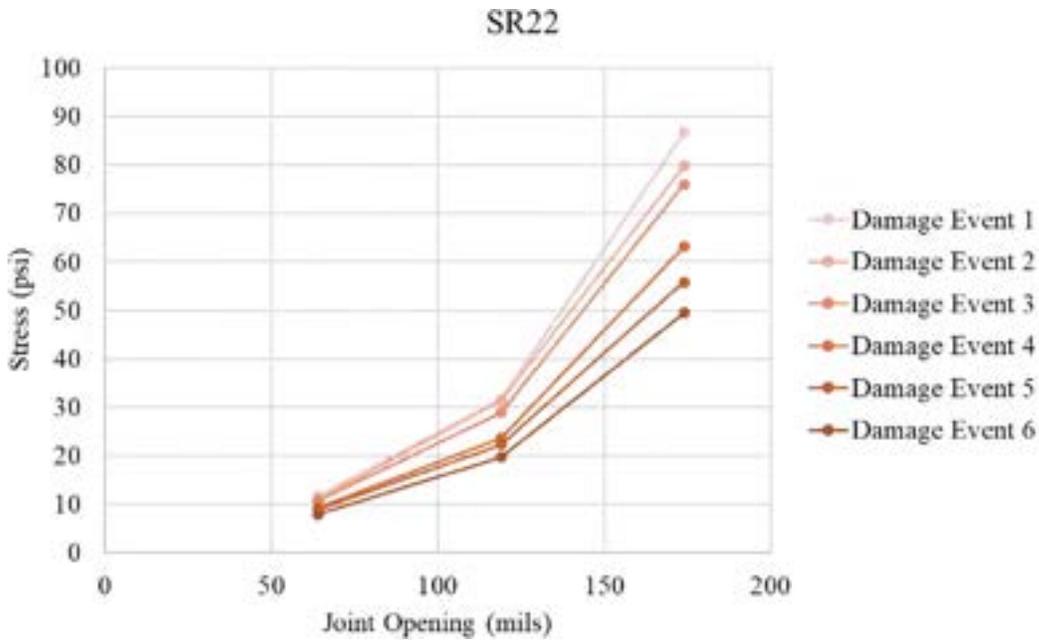
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Hli wt g'F 0430V{ r kecl'nt guu'xu'lqkv"qr gplpi 'hqt "cur j cn' hmgf "ur geko gp



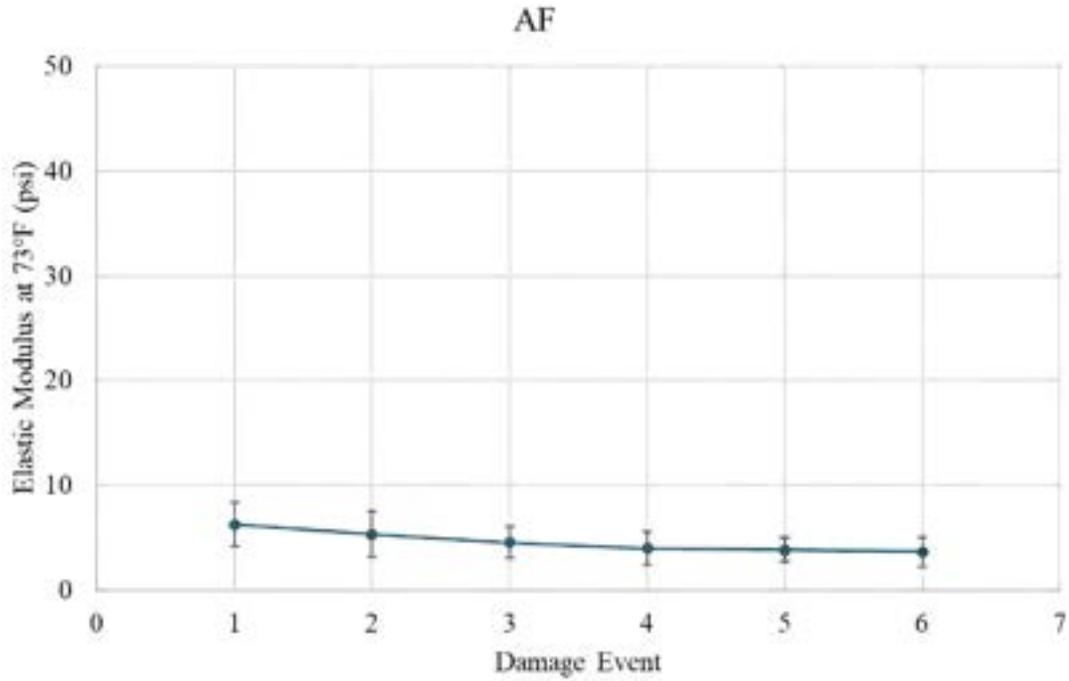
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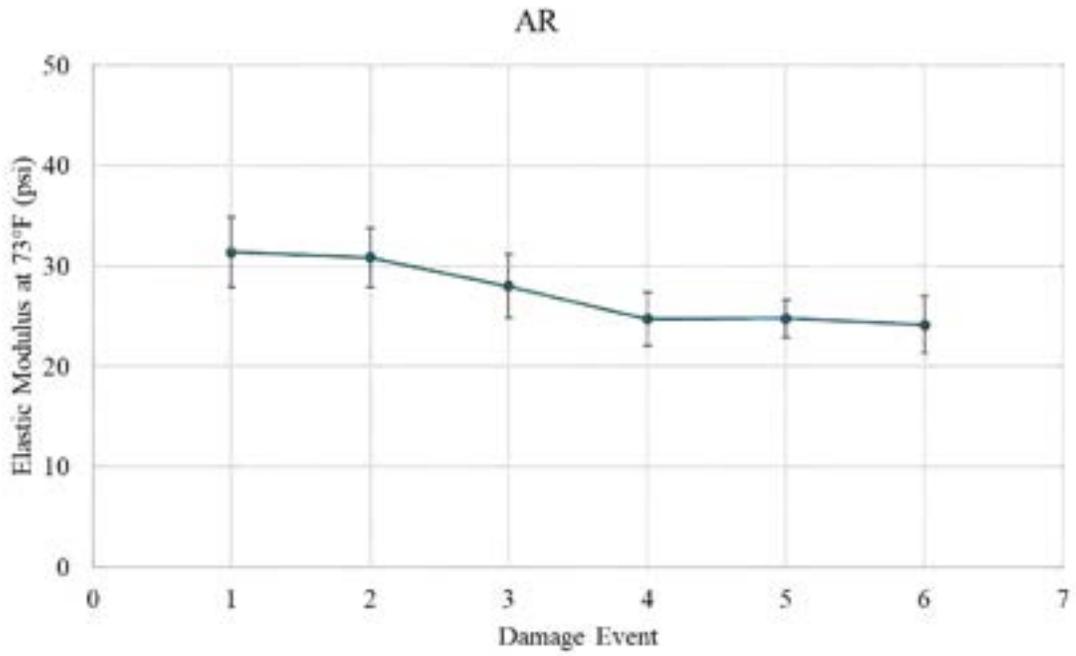
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czku'uecrg*

Vj gug" ut guugu" ctg" f kxf gf" d{ "vj g" o kf/f gr vj "ugcrpv" utclp0 Vj g" o kf/f gr vj "utclp" ku" ecrwrcvgf "d{ "f kxf lpi "vj g" gmpj cvqp" cvc' i kxgp' lqkv'qr gpkpi "100"- 86" o ku"- 33; "o ku" cpf "- 396" o ku" d{ "vj g" qtki kpcn' lqkv'y kf vj 0Vj g" cxgtci g" grcvle" o qf wnu" chgt" gcej "f co ci g" gxgpv' hqt" gcej "

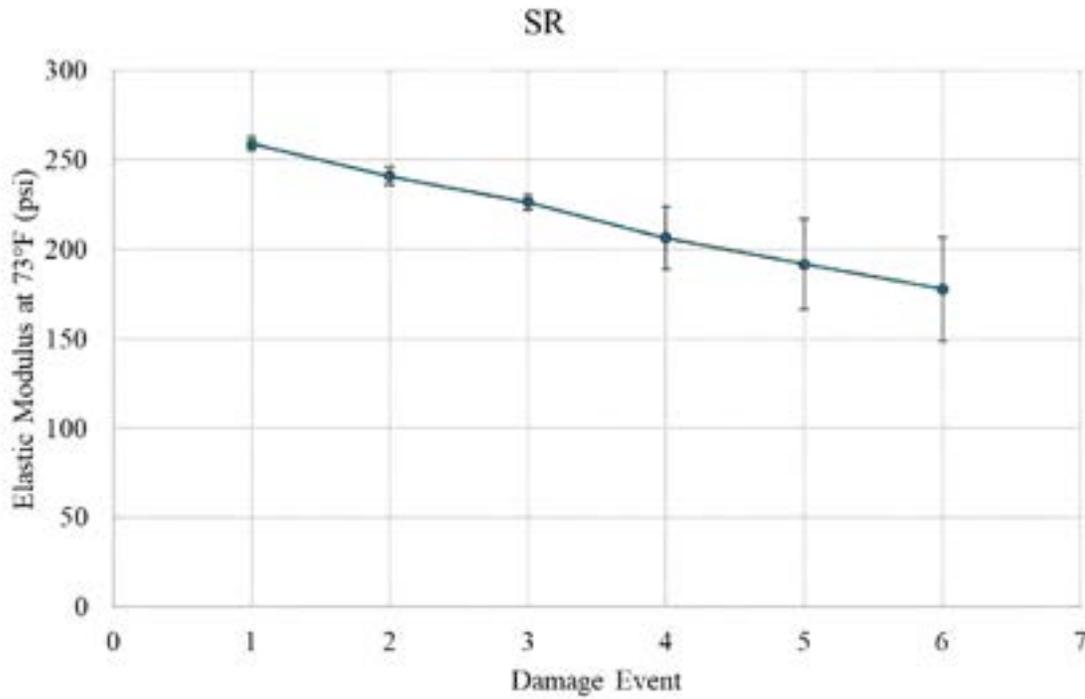
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 vj tqwi j "Hki wtg"0480"Kuj qwf "dg'pqvgf"vj cv'vj g"/czku'uecrg"lqt"vj g'ukleqpg"tgugt xqkt"ur geko gpu"
 ku'f khtg'gpv'htqo "vj cv'lqt"vj g"cur j cn'tgugt xqkt"cpf "cur j cn'kmgf"ur geko gpu0



Hki wtg"0460"Cur j cn'kmgf"grc wke"o qf wnu'c'htg"gej "f'co ci g"gxgpv

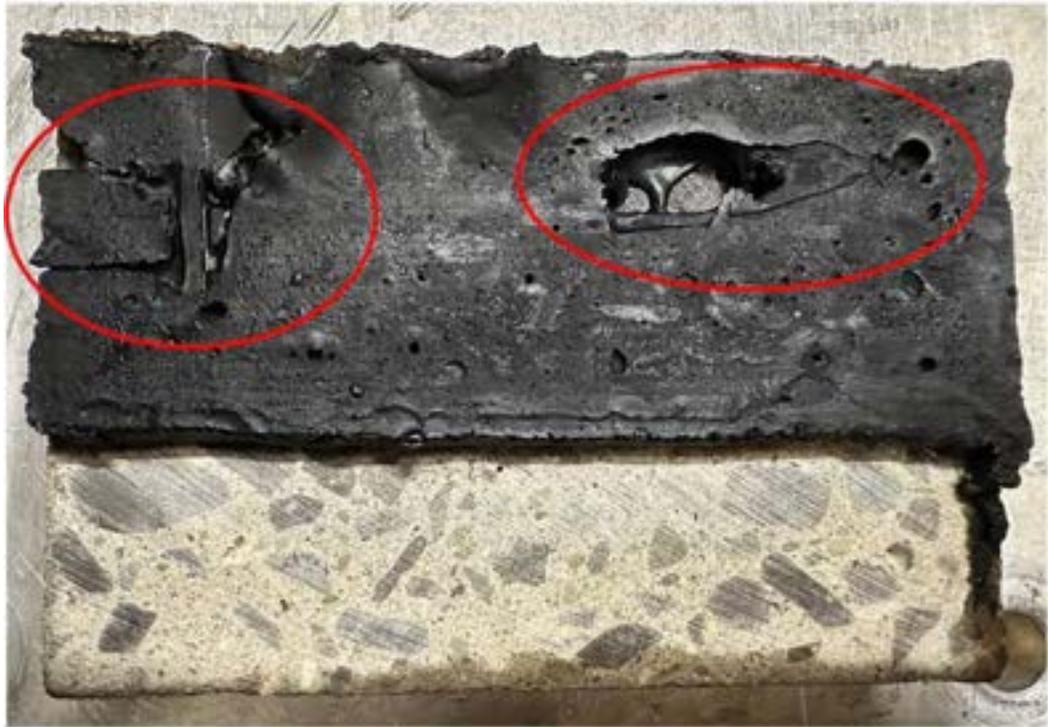


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Vj g"cxgtci g"grcukle"o qf wmwu"i tcf wcmf "f getgcugu'y kj "gcej "f co ci g"gxgpv'htq" gcej "qh'v' g" lqkpv'f guki pu0Vj ku'ku'dgrkxgf "v"dg'v' g'tguwn'qh'v' g'ej cmgpi g'kp'eqo r ngvgn' "hknkpi "v' g'pcttqy "ew0 K'ku"o qtg"fhkeww"vq"wpkqto n' "hkm'y' g"cur j cn'hknkf "lqkpv'y kj "ugncpv'f wg"v'v' g"pcttqy "lqkpv' qr gpkpi "cpf "rti g" f gr v' "cv'y j lej "v' g"ugncpv'o waw'hkm'y j gp"pq"dcengt "tqf "ku"r tgugpv0 Vj ku' eqpvtkdwgu"v'v' g" f gxgnr o gpv'qh'xqkf u"v' tqwi j qw'v'v' g" f gr v' "cpf lqt "wpgxgp" hknkpi "qh'v' g"lqkpv'0 Vj g'r tgugpeg"qh'v' g'ug'xqkf u'tguwnu"kp" c"mgy gt"cr r ctgpv'ukh'p'guugu"eqo r ctgf "v'cur j cn'tgugtxqkt" lqkpv'f guki pu'v'v' cv'tg'eqo r ngvgn' "hknkf 0Cp"gzco r ng'qh'ko r gthge'kpu'ecwugf "d' "kpeqpukv'p'v'hknkpi " ku'uj qy p"kp'Hki wtg'F 0490Uko kctn'f. "k'ku'uggp"v'v' cv'v'v' g"ukh'p'guu'qh'v' g"ukleqpg"ur geko gpu'ku"o wej " i tgcvt'v' cp'v'v' cv'ht'v'v' g"cur j cn'hknkf "cpf "cur j cn'tgugtxqkt"ur geko gpu0Vj ku'tgr tgugpv'ukh'p'guugu" o gcwtgf "cv'95^aH'dw'k'ku'cp'v'ekr cv'gf "v'v'v'v' g"ukh'p'guu'qh'v'v' g"cur j cn'y kn'dg'o wej "i tgcvt'v' cp'v'v' g" ukleqpg" f wtkpi "y k'vgt "vgo r gtcwtg'eqpf k'k'p'u0

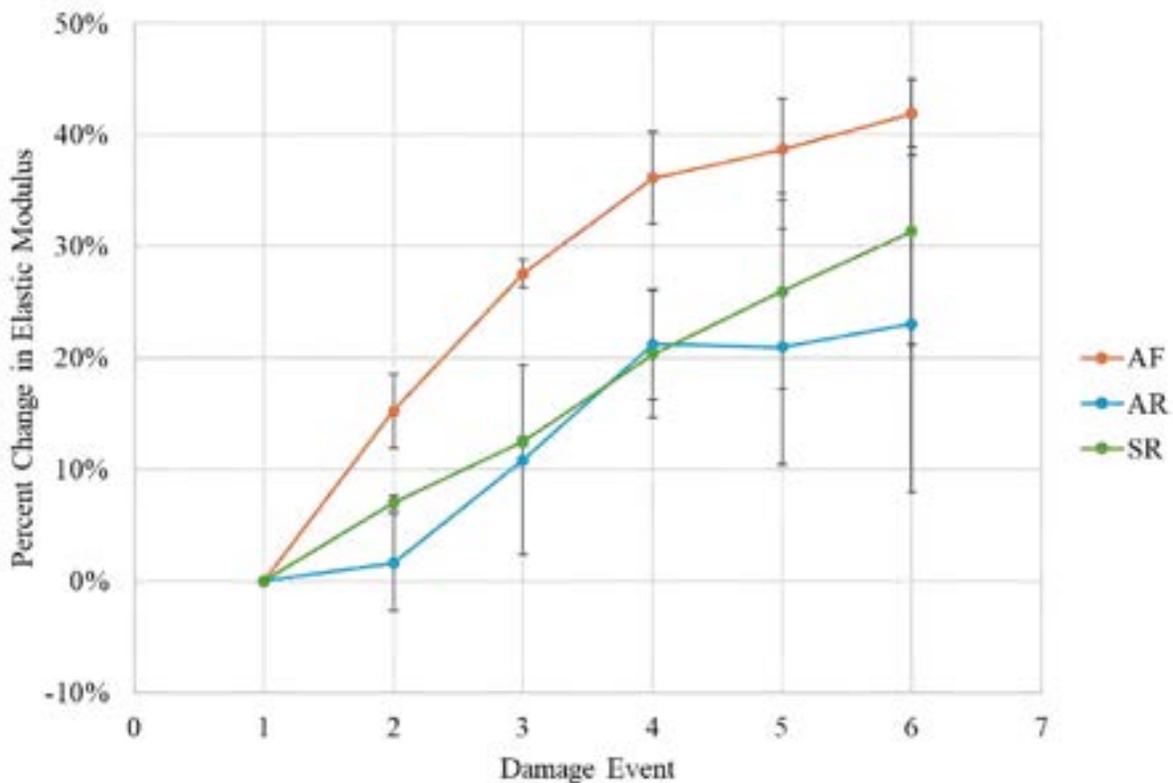


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Hki wtg'F 04: 'uj qy u'v'v' g"cxgtci g'ej cpi g'kp"grcukle"o qf wmwu'htqo "v' g'htuv'f co ci g"gxgpv'htq" gcej "lqkpv'f guki p0Vj ku'r tqxkf gu'kpuki j v'kp'v'v' g"rquu'qh'ukh'p'guu'htq" gcej "f guki p"cnngt'p'v'x'g"cu" f co ci g"ceewo wrcv'gu"kp"v'v' g"ugncpv'cpf "kp"v'v' g"dqpf "dgvy ggp"v'v' g"ugncpv'cpf "v'v' g'tgugtxqkt0Vj g" cur j cn'hknkf "ur geko gpu'uj qy gf "c"eqpukv'p'v'tgf w'v'k'p'kp'ukh'p'guu'w' "v'v'v' g'htv'v'v' "f co ci g"gxgpv' *eqttgur qpf kpi "v'v'4: "{ gctu'kp"ugt'x'leg" d' "58' 0Vj g"wnko cv'g'tgf w'v'k'p'kp'ugncpv'ukh'p'guu'ch'gt" uko wrcv'kpi "64" { gctu'kp"ugt'x'leg'y cu'64' 0

Vj g"cur j cn'tgugtxqkt"ur geko gpu'f kf "pqv'uj qy "c"uki pkhlepvt'gf wevkqp"kp"ukhhpguu"lqt"vj g" htuw'36" { gctu'qh'uko wrcvgf "lqkv'qr gplki lmqkpi "cpf "xgj keng'mqcf kpi 0J qy gxgt. "vj gtg'y cu'c"uvqcf { " tgf wevkqp"kp"ukhhpguu"wr "vq"43' "chgt"uko wrcvki "4: " { gctu"kp"ugtxleg0Vj ku'tgf wevkqp"kp"ukhhpguu" r rvcgwgf "vj gtgchgt. "y kj "cp"vmo cvg'tgf wevkqp"qh'45' 0Vj g"qxgtcm'tgf wevkqp"kp"ukhhpguu"lqt"vj g" cur j cn'tgugtxqkt"ur geko gpu'y cu'rguu'vj cp'vj cv'ltq' "vj g"cur j cn'hmrgf "ur geko gpu'd { "3; ' 0

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Vj g'f khtgpeg'dgvy ggp"vj g'r gthqto cpeg"qh'vj g'ugrcpw'cpf "t'gugtxqkt" f guki pu'ecp"dg'hwt vj gt" kpxgunki cvgf "d { "cuuguukpi "vj g"utckp" f gxgnr o gpv'y kj kp"vj g"ugrcpw'f wt kpi "mqcf kpi "cu'ugrcpv'

t g u g t x q k " f g u k i p " k u ' d c u g f " q p " v j g " c m y c d r g " u t c k p " e t k g t k " h q t " g c e j " u g c r p v " r g 0 V j g " g r p i c v k p " c v " v j g " v r " c p f " d q w q o " q h " g c e j " l q k p v f g u k i p " c n g t p c v k g " k u ' f h g t g p v f w g " v j g k t " w p l s w g " i g q o g v t k u 0 V j g " r p i v j " q h " v j g " v r " c p f " d q w q o " r q t v k p u " q h " v j g " u g c r p v " j g p " g z v g p f g f " e c p " d g " h q w p f " w u k p i " v j g " g s w c v k p " h q t " v j g " r c t c d q r k e " c t e " r p i v j 0 V j k u " g s w c v k p " e c p " d g " u w d u k w w g f " y k j " h p q y p " r c t c o g v g t u " q h " v j g " u g c r p v " i g q o g v t { " v q " f g x g r q r " v j g " h q m y k p i " g s w c v k p u " * c u w o k p i " c " d c e n g t " t q f " k u ' r t g u g p v <

$$P_{At} \text{ " ? } 207 * 4 - 38 \text{ } 4 \text{ } 207 \text{ } \text{---} \text{ } 4 \text{ " } \text{---} \text{ } \text{ " } \left(\frac{*6 \text{---} * \text{---} 4 - 38 \text{---} }{4 - 207 \text{---} + \text{ "}} \right) \text{ } \backslash \text{ } 034$$

$$\text{ " } \frac{207 * 4 - 38 * - 207 + 4 \text{ } 207 \text{ "}}{\text{ " } \text{---} \text{ "}} \text{ } B \text{ } \frac{\text{---} 4 \text{ "}}{\text{ " } * - 207 \text{ " } \text{---} \text{ "}} \text{ } \frac{*6 \text{---} * - 207 + * B \text{---} 4 - 38 * - 207 + 4 \text{ } 207 \text{ "}}{\text{ " } \text{---} \text{ "}} \text{ } \backslash \text{ } 035$$

Y j g t g <

Nrcv? "vqr "qh'ugcrpv'r ctdcqrke"cte'rgpi vj . 'kp

Nrcd? "dqwqo "qh'ugcrpv'r ctdcqrke"cte'rgpi vj . 'kp

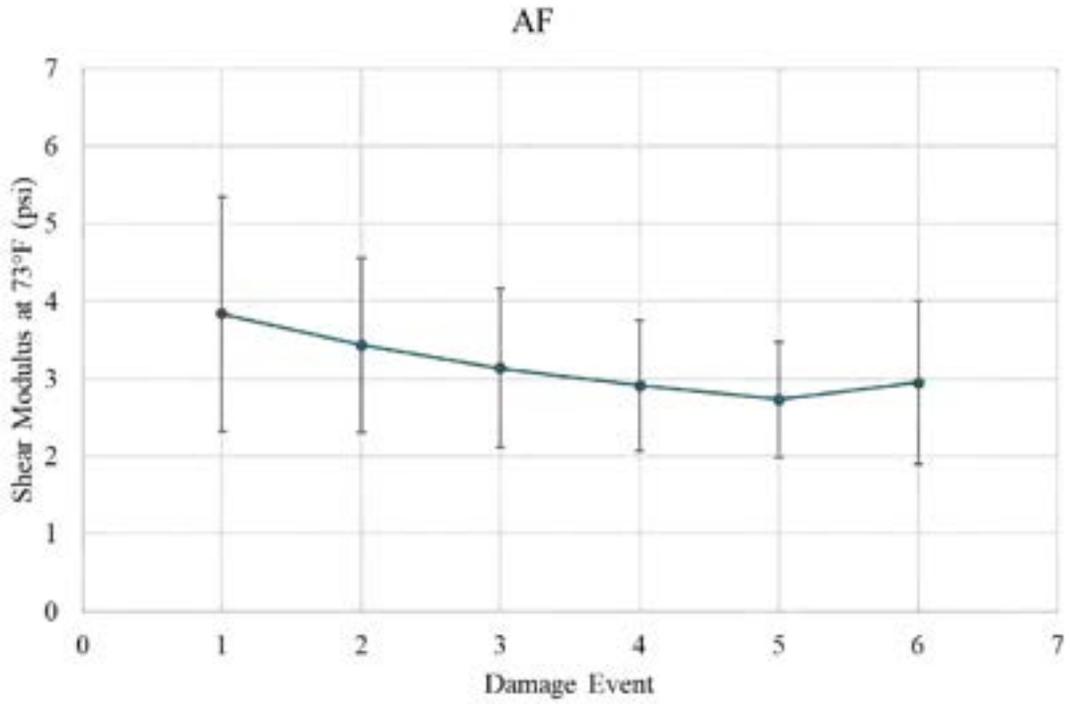
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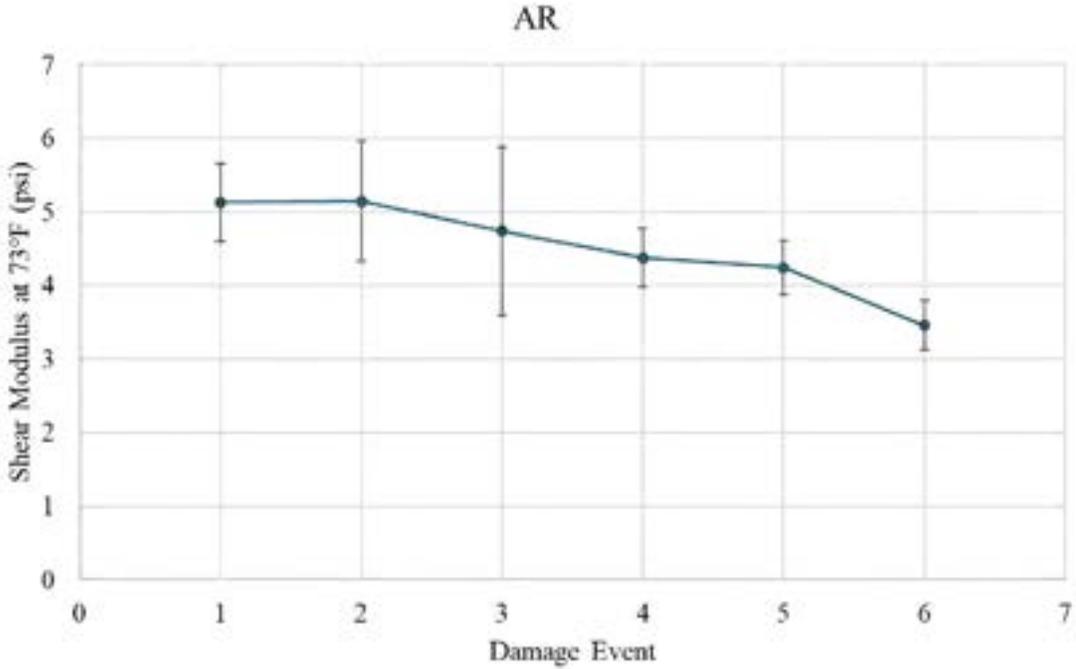
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Lqlpv'F guki p	Ut ckp'ev'Lqlpv'Qr gplpi 'qhi'- 33; 'b ku'kplp+			
	Vqr	O kf /f gr yj	Dqwqo	Cxgt ci g
Cur j cn/Hknrf " *CH+	507	206:	507	404
Cur j cn' Tgugt xqk '*CT+	202	204	205	206:
Ukneqpg Tgugt xqk '*UT+	206:	204	209	208

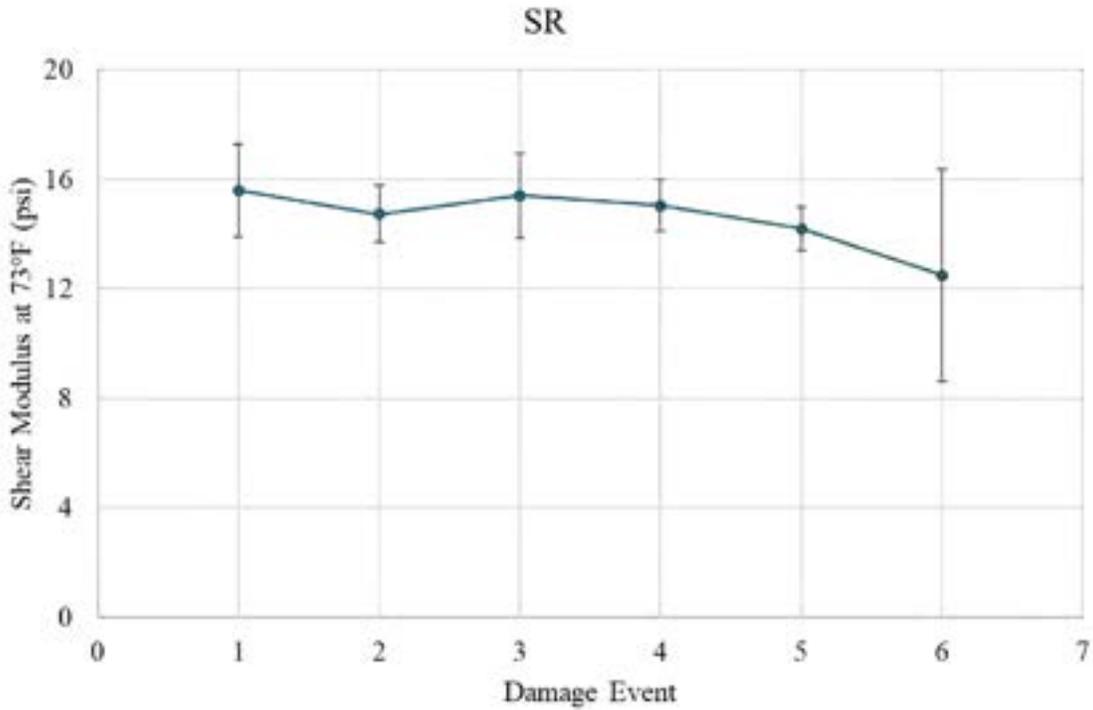
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Hi wt g'F04; 0Curj cn'hwgf 'uj gct 3,8 modulus chgt 'gcej 'f co ci g'gxpvn

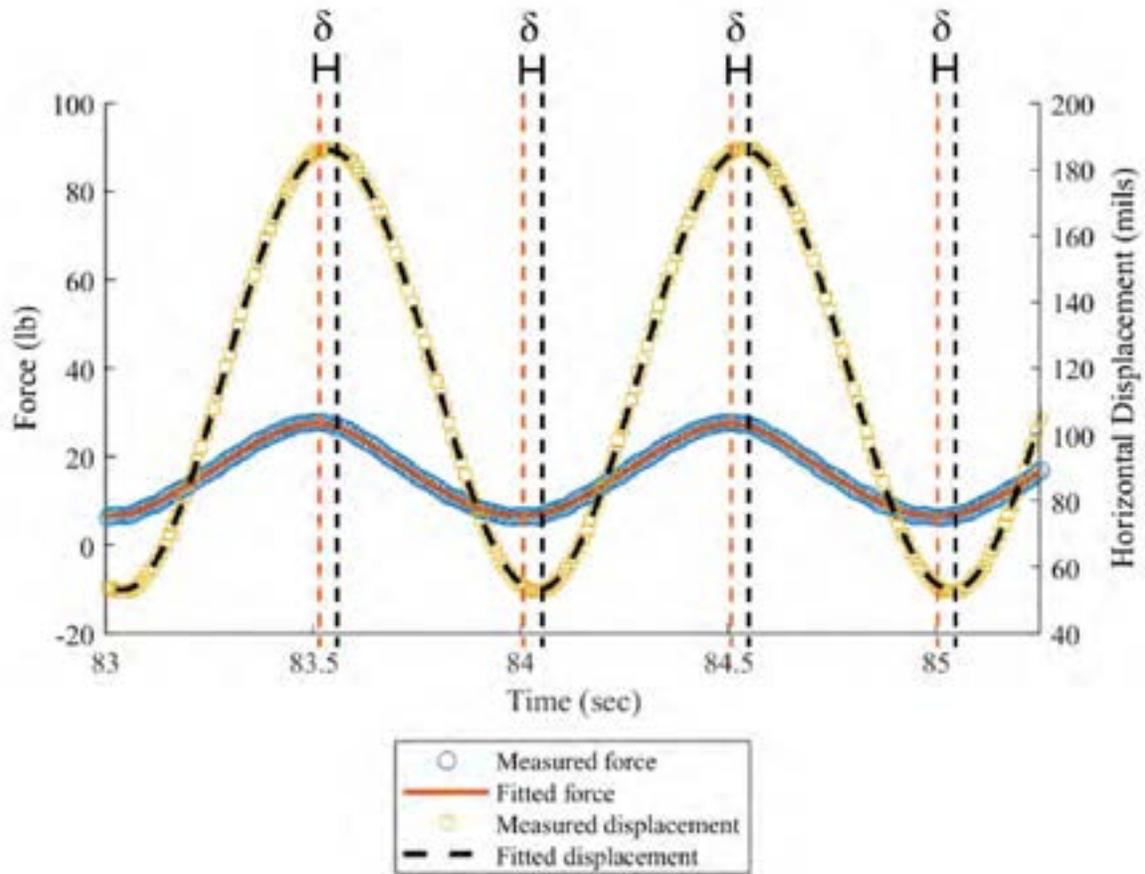


Hi wt g'F0520Curj cn't gugt xqkt 'uj gct 'o qf wwu'c hgt 'gcej 'f co ci g'gxpvn



Hki wt g'F 530Ukdaqpg't gugt.xqkt 'ij gct 'o qf wwu'clhgt "gcej 'f'co ci g'gxgp0P qvg<ej cpi g'kp'f/czku" uecrg

Vj g'lpqhto cvkqp'i cvj gtgf 'htqo 'yj ku'eqpf kkkp'gxcnvcvqp'ecp'dg'wugf 'vq'cuuguu'vj g'eqo r rnz " o qf wwu'qh'vj g'o cvgtkcn'0Vj g'eqo r rnz "o qf wwu'ku'c'o gcuwtg'qh'vj g'o cvgtkcn'tgur qpug'vq'f { pco le" rjcf kpi . 'y j lej "ku'c'eqo dkpcvqp'qh'vj g'uvqtc i g"o qf wwu'40'vj g'gncvke"o qf wwu'+cpf "vj g'mquu" o qf wwu'40'vj g'xkueqwu'o qf wwu+0C'i tgcvtg'mquu'o qf wwu'hqt'ugcnpwu'ko r rkgu'vj cv'vj g'o cvgtkcn' ku'o qtg'r rkdrg'cpf "dgwgt'cdrg'vq'cee qo o qf cvg'lqkp'qr gpkpi lenqkpi 0Vj g'mquu'o qf wwu'ku'hqwpf " d{ "o wnk r kpi "vj g'uvqtc i g"o qf wwu'd{ "vj g'vpi gpv'qh'vj g'r j cug'cpi rg" + "qh'vj g'o cvgtkcn'y j lej "ku" yj g'vko g'f gnc{ "qh'vj g'o cvgtkcn'tgur qpug'vq'f ghqto cvkqp0Hki wt g'F 54'uj qy u'cp'gzco r rg'qh'j qy "yj g" r j cug"cpi rg'ku'hqwpf "wukpi "f cv'eqmgevqf "f wtkpi "yj g'eqpf kkkp'gxcnvcvqp'rjcf kpi 0Y kj kp"vj g'42" cr r rkgf "j cxgtukpg'e{ engu."yj g'r gcmu'cpf "xcmg{ u'htqo "e{ engu'4. '5. '3: . 'cpf '3; 'ctg'wugf "vq'f gvto kpg" yj g'cxgtci g'r j cug"cpi rg'hqt'vj cv'gxcnvcvqp'r gtlqf 0E { engu'3'cpf "42'ctg'pqv'wugf "dgecvug'vj gtg'ku" ko r rlek'pqlug'htqo "yj g'u'vgo "f wtkpi "yj g'uvctvki "cpf "uvqr r kpi "r gtlqf u0



Hki wtg'F 0540V { rkecni tcrj 'f grkevpki 'rj cug'cpi ng'hqt 'lqkv'eqpf kxqp'gxcnwcvkqp

Vj g'cxgtci g'rj cug'cpi ng'hqt'gcej 'ur geko gp'ku'hqvpf 'hqt'gcej 'eqpf kxqp'gxcnwcvkqp'vguv." y j lej 'ku'y gp'eqpxgtvgf 'htqo 'ugeqpf u'vq'tcf kcpu0Vj g'rj cug'cpi ng'ku'y gp'o wmw rkgf 'd{ 'vj g'lxqtc i g' o qf wmw'ecre wcvgf . 'cu'f guetkdgf 'cdqyg. 'vq'qdckp'vj g'hquu'o qf wmw0Vj g'o ci pkwf g'qh'eqo r ngz" o qf wmw'ku'y gp'hqvpf 'vukpi 'vj g'hqmjy kpi 'gs wcvkp0

$$G \text{ " ? " } \zeta \overline{G} \text{ " } G^{4''} \quad \text{` 036}$$

Y j gtg<

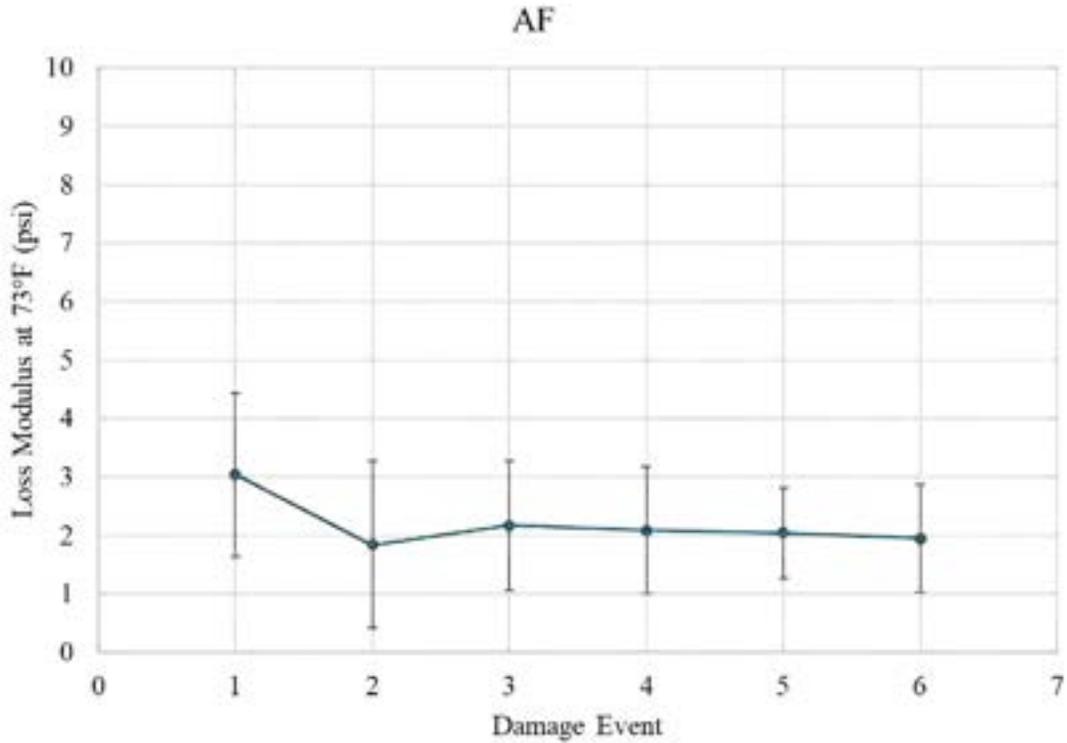
I , " ? " eqo r ngz 'o qf wmw. 'r uk

I ø? 'lxqtc i g'o qf wmw. 'r uk

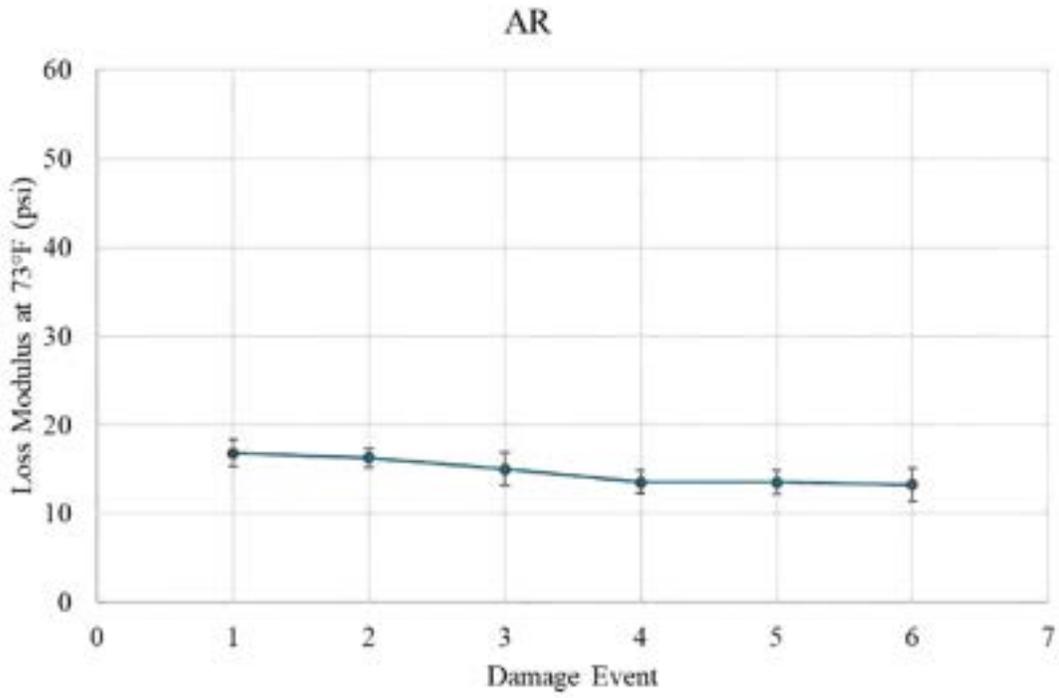
I ö? 'hquu'o qf wmw. 'r uk

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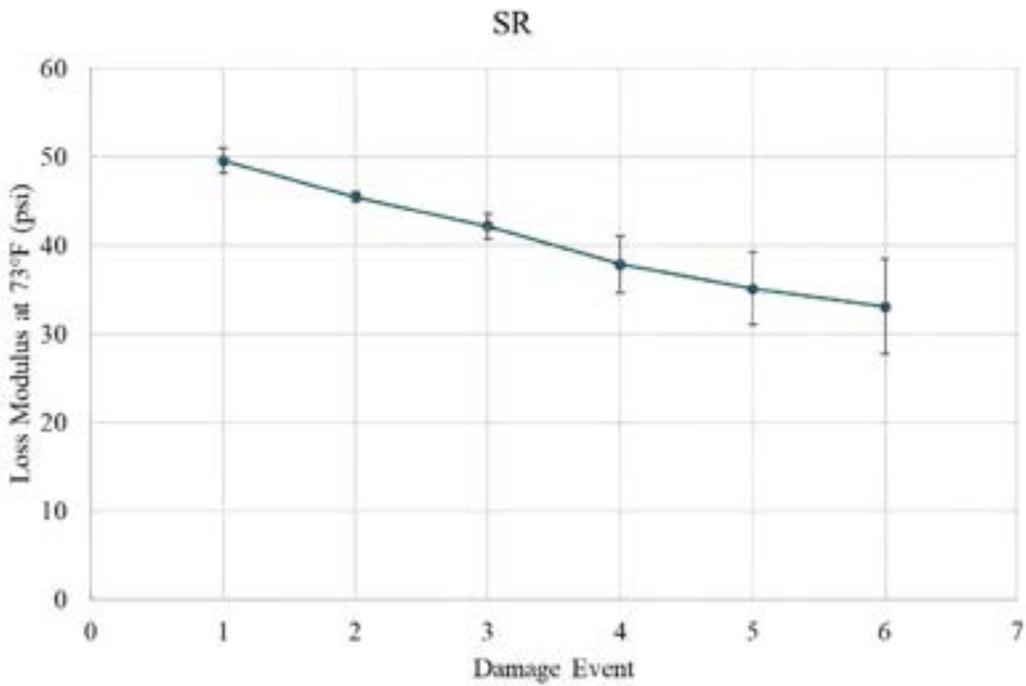
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Hli wt g'F (550 Nquu' o qf wmu' hqt' cur j cn'hkngf 'lqkv' u' chgt' gcej' f co ci g' gxgp' OP qvg' <f h' hgt' gpv' { /' czku' uecrg' y' cp' cur j cn'tgugt xqk't' cpf' ukleqpg'tgugt xqk't 0

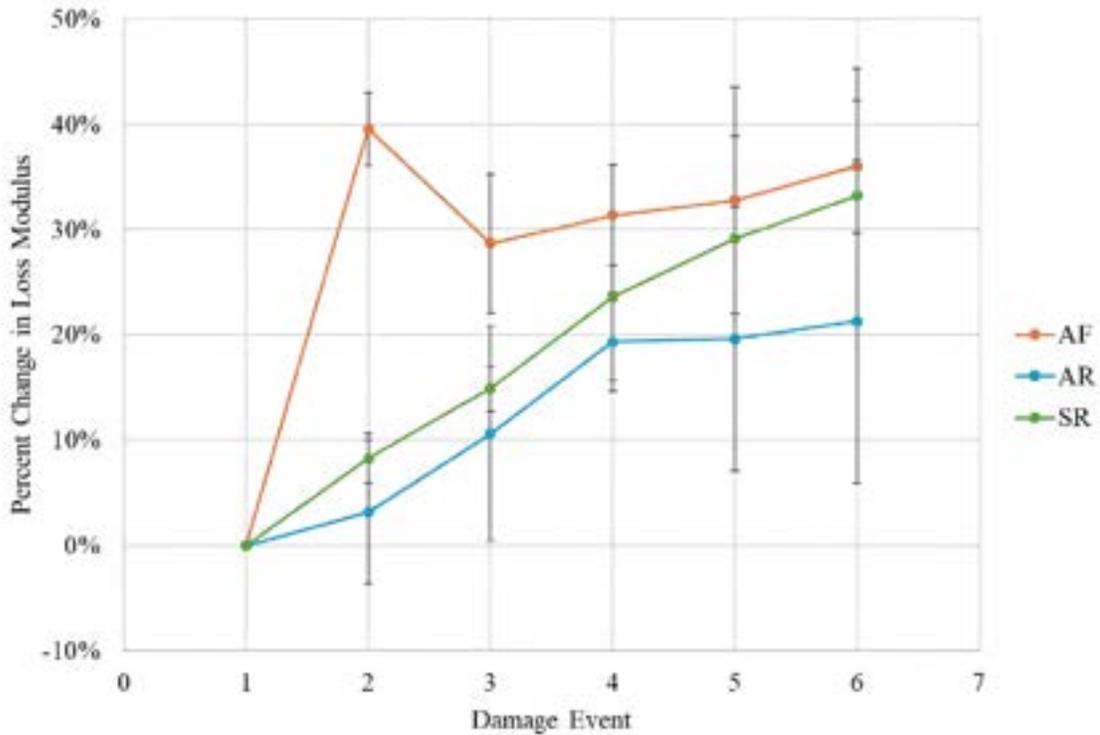


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Hki wt g'F670Nqui'o qf wwu'fqt "ukkeqpg't gugt xqk 'lqkvu'c'fxt "gcej 'f co ci g'gxp v

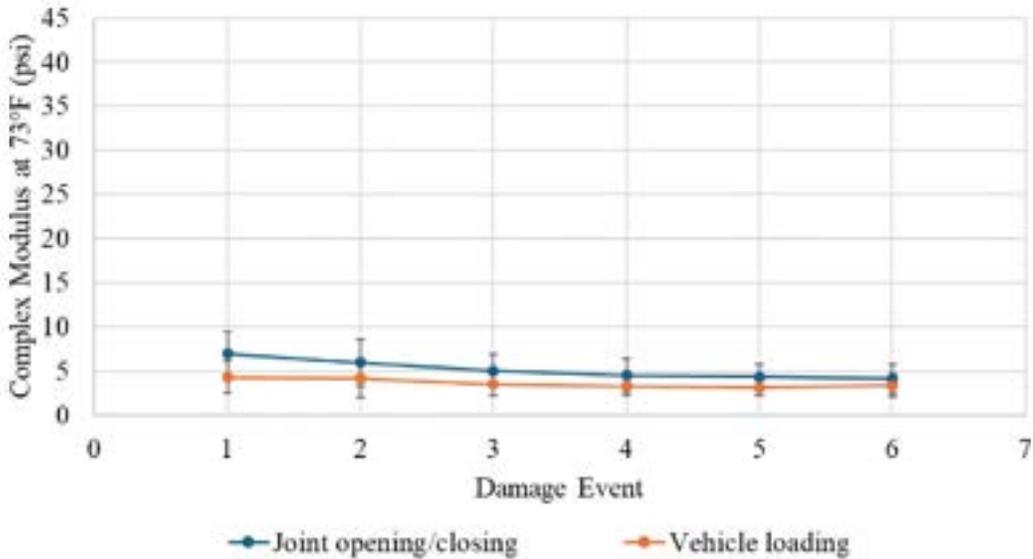
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Hki wt g'F 680Cxgt ci g'r gtegpv'tgf wevkqp"lp"nquu'o qf wmwu'hqt'vj g'cur j cn'hkngf. "cur j cn'tgugtxqk. "cpf" ukreppg'tgugtxqk "ur geko gpu

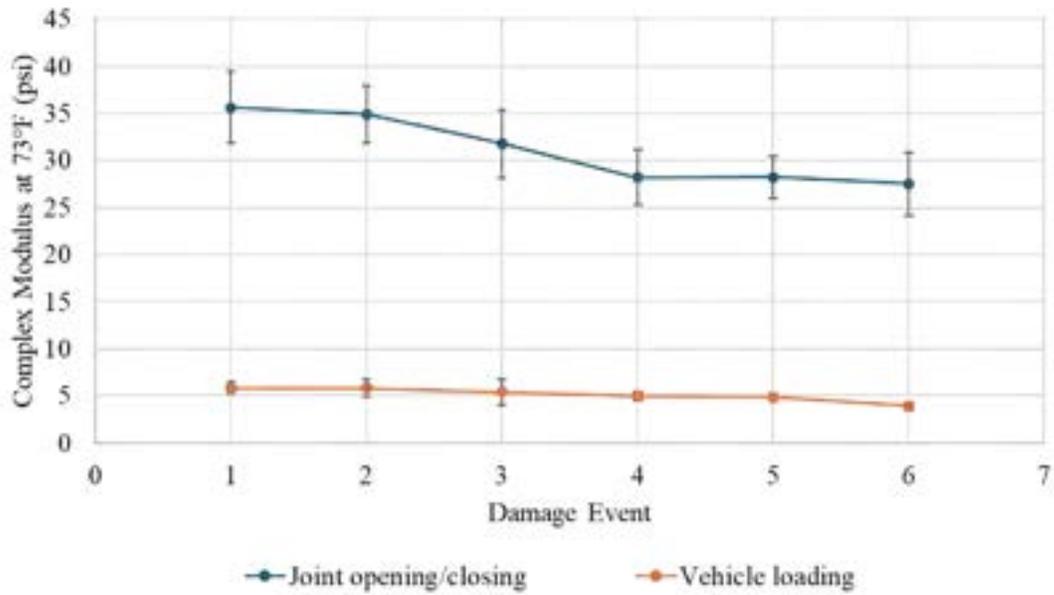
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AF



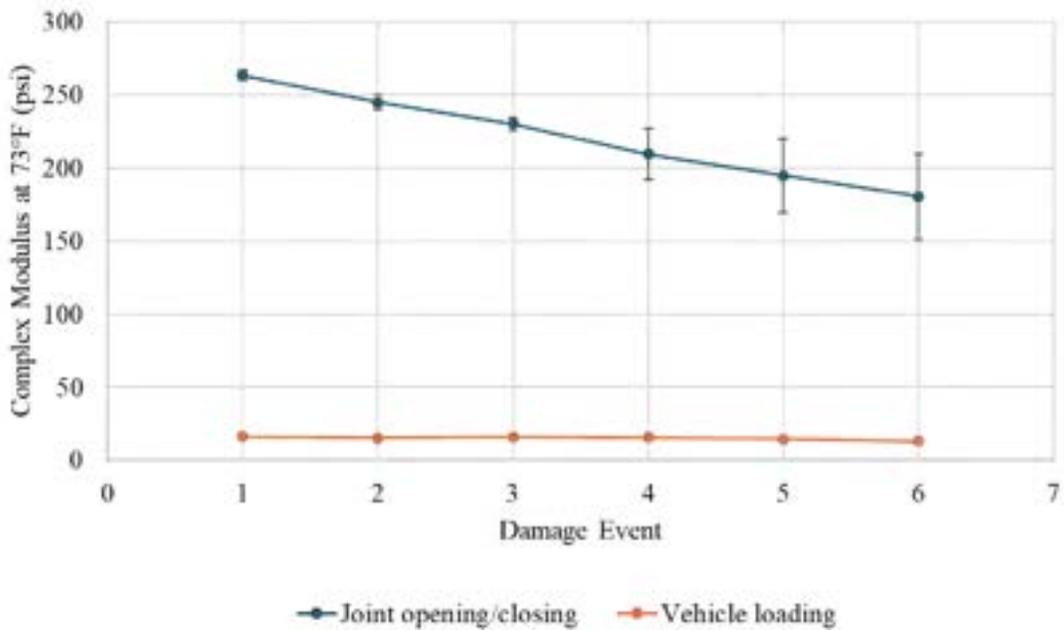
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AR



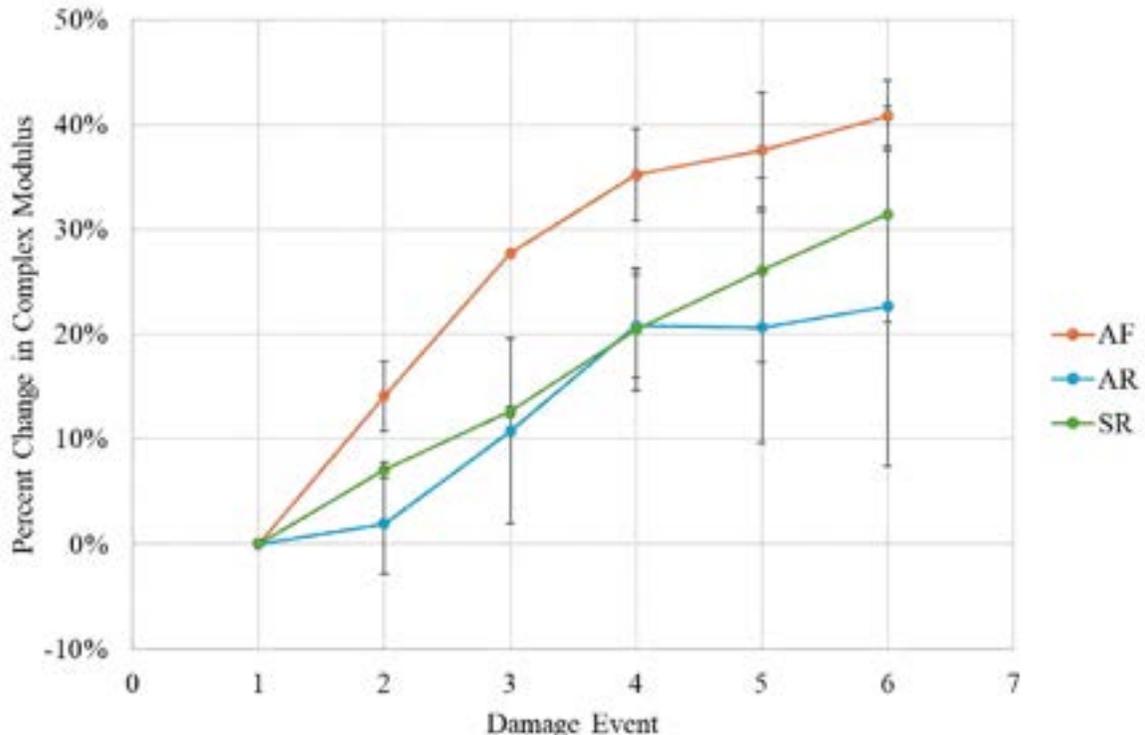
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SR



*Hki wt g'F 6; 0E qo r r g z 'o qf w k' f q t 'l q k p v' q r g p k p i l e r q u k p i ' * v g p u k r g + ' c p f ' x g j k e r g ' * i j g c t + ' h q c f ' f q t ' ' u k i k e q p g ' t g u g t x q k t ' u r g e k o g p u O P q v g < ' f h i g t g p v ' / ' c z k u ' u e c r g ' v j c p ' c u r j c n ' h k n g f ' c p f ' c u r j c n ' t g u g t x q k t 0*

Vj g'cxgtci g'ej cpi g'lp'vj g'eqo r ngz'o qf wmw'hqt'gcej 'lqkv'f guki p'ku'uj qy p'lp'Hki wt g'F 0620' Vj g'cur j cn' hngf "ur geko gpu" g'zr g'kpeg" c" rcti g' tgf wekqp" lp" eqo r ngz" o qf wmw" *57" + " chgt" uko wv'kpi "4: "{ gctu'qh'lqkv'o qxgo gpv" eqttgur qpf lpi "vq'cr r tqzko cvgn{ "c'3065" " tgf wekqp" gcej " { gct0'Chgt" vj ku. "vj g' tgf wekqp" lp" vj g' eqo r ngz" o qf wmw" ku" nguu" uki p'k'ecpv. " dw' u'km' eqpukv'gpv' vj tqwi j qw'vj g' t'g'v'qh'ku'ugt'xleg' r'kg0'Vj g' w'ko cvg' tgf wekqp" lp" vj g' eqo r ngz" o qf wmw'hqt' vj g' cur j cn' hngf "ur geko gpu" y cu"63' 0'Vj g' cur j cn' t'g'ug'xqk' "ur geko gpu" g'zr g'kpeg" r'kwg' "ej cpi g'lp" eqo r ngz" o qf wmw" w" "vq" vj g' h'uv"36" { gctu'qh'ugt'xleg" *qpn{ "4" + " dw' vj g' eqo r ngz" o qf wmw' eqpukv'gpv' " f getgcugu'y kj " h'vki wg" g'zr quwt' g' vj g' t'g'chgt0'Vj g' w'ko cvg' tgf wekqp" lp" vj g' eqo r ngz" o qf wmw'hqt' vj g' cur j cn' t'g'ug'xqk' "ur geko gpu" y cu"45" " chgt"64" uko wv'gf " { gctu'qh'lqkv'o qxgo gp0'Vj g' uk'eqpg" t'g'ug'xqk' "ur geko gpu" j cf "c" eqpukv'gpv' t'gf wekqp" lp" eqo r ngz" o qf wmw' vj tqwi j qw'vj g' h'vki wg' r'kg' c'pf " j cf "c" uko k'ct' w'ko cvg' tgf wekqp" qh'55' 0'Vj g'ug' h'pf lpi u' uwi i guv'vj cv'vj g' cur j cn' hngf "ur geko gpu" j cxg' vj g' o qu'v'ki p'k'ecpv'ej cpi g'lp" vj g'kt' t'gur qpug" vq' lqkv'qr g'p'kpi l'eq'kpi . "gur gekcm{ "y kj lp" vj g' h'uv"36" { gctu'qh'wug0'Vj g' cur j cn' t'g'ug'xqk' "ur geko gpu" j cxg" c" pgi r'ki k'ng' "ej cpi g'lp" vj g'kt' f { pco le" n'cf lpi " t'gur qpug" w' "vq" vj g' h'uv"36" { gctu'qh'wug" dw' vj gp" j cxg" c" uko k'ct' t'gf wekqp" lp" vj g' eqo r ngz" o qf wmw' chgt' y ctf u0'Vj g'ug' h'pf lpi u' ko r n{ "vj cv'gcej " qh' vj g' ur geko gpu" d'geqo g' nguu' u'kh' cu' vj g' { "ctg" h'vki wg' . " r'kg' n{ "ecwug" d{ "vj g' dt'g'cnf qy p' qh' vj g' ugc'rpv' c'pf lqt' vj g' d'qpf " dgw' ggp" vj g' ugc'rpv' c'pf " vj g' eqpet'g'v' h'ceg0' k'p'gt'g'v'kpi n{ . " vj g' uk'eqpg" t'g'ug'xqk' "ur geko gpu" j cxg" c" uko k'ct' t'gf wekqp" lp" f { pco le" t'gur qpug" dw' ceewo w'cvg" o k'p'ko cn' x'k'k'ng" f co ci g" c'pf " j cxg" c" pgi r'ki k'ng' "ej cpi g'lp" r gto g'cd'k'k' { "qp" cxgtci g0'Vj ku" o c{ "uwi i guv'vj cv'vj g' uk'eqpg' ugc'rpv' ku" f g'x'g'ng' r'ki "lp'v'g'p'cn' ut' wew'cn' f co ci g. " dw' v'ky cu' p'q'v'q" vj g' g'z'v'p'v'j cv'cf j gu'x'g'qt' "eqj gu'x'g' h'ck'ng' gu' f g'x'g'ng' r'ki g'f 0

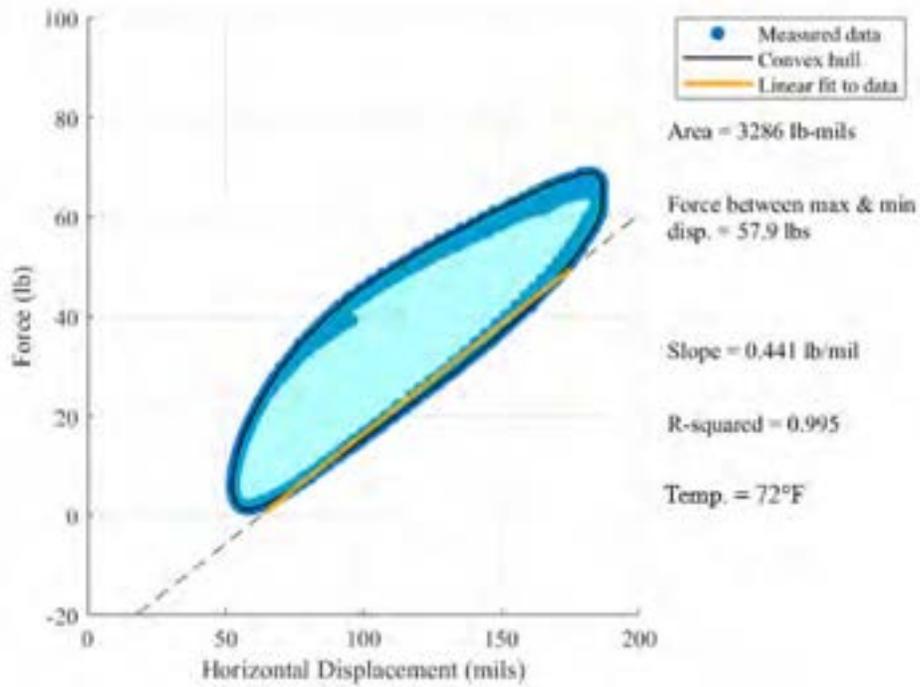


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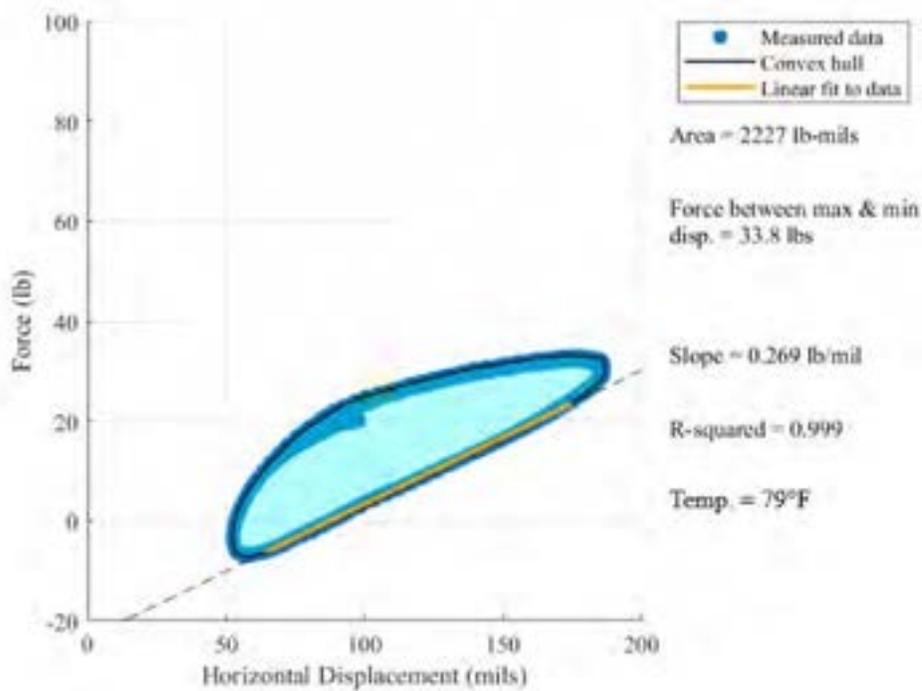
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(a)



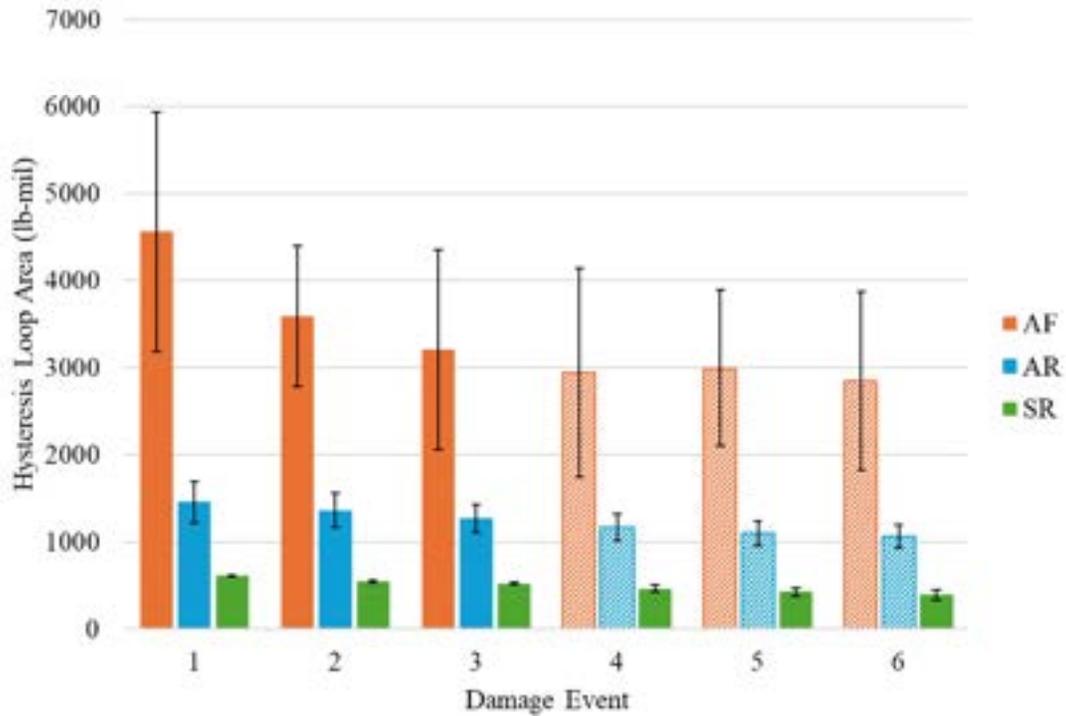
(b)

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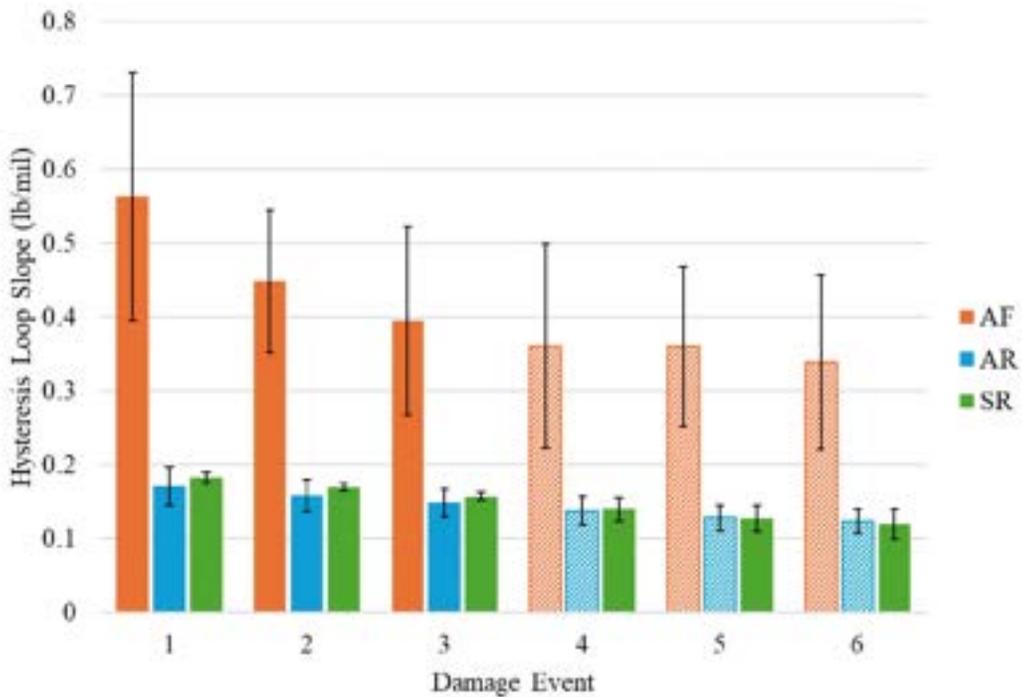
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Vj gtg'ku'c"i tcf wcn'tgf wevkqp'lp'y' g'j { uvgt guku'mqr "ctgc'hqt" gcej "lqkp'f guki p"cu'f co ci g' ceewo wrcvgo'Vj g'lpkkn'gpgti { "f kuuk'cvkqp'hqt'y' g'cur j cn'hkn'gf "ur geko gpu'y' cu'uki p'khecpv' "rcti gt' "y' cp' "y' cv'qh'y' g'cur j cn'tgugtxqkt"cpf "ukreappg'tgugtxqkt"ur geko gpu."o gcpkpi "y' ku'lqkp'f guki p'ecp" f kuuk'cvg'y' g'o quv'gpgti { "f wtkpi "lqkp'vo qxgo gp'0Vj g'cur j cn'hkn'gf "ur geko gpu'j cf "c'rcti g'f getgcug" lp'gpgti { "f kuuk'cvkqp"*57' + "w' "vq'y' g'liqwt'y' "f co ci g'gxgpv'eqttgur qpf kpi "vq'4: "{ gctu'lp'ugtxk'eg'0' Cuuwo kpi "y' cv' "y' g' "stchle" cpf "xgj keng" nqcf kpi "tgo ckpu" eqpukv'gpv' y' tqwi j qww' y' ku' vko g."y' ku' eqttgur qpf u'vq" c'tgf wevkqp'lp'gpgti { "f kuuk'cvkqp'qhi'30'7' "gcej "{ gct'0Vj g'tgf wevkqp'lp'f kuuk'cvgf "gpgti { "r n'vcwu'chgt'y' ku.'i k'kpi "cp'qxgtcm'tgf wevkqp'qhi'5: ' "chgt'uko wrcvpi "64" { gctu'qhi'hc'vi wg'0' Vj g' cur j cn' "tugtxqkt" ur geko gpu' j cf "y' g' ugeqpf " rcti guv' kpkkn' gpgti { " f kuuk'cvkqp." y j lej " eqpukv'gpv' " f getgcugf " cu' f co ci g' ceewo wrcvgo' Vj g' gpgti { " f kuuk'cvkqp" hqt "y' gug" ur geko gpu' tgf wegf "d { "cr r tqzko cvgn' '9' "chgt' gcej "f co ci g'gxgpv'liqt"y' g'htuv'57' uko wrcv'f "{ gctu'qhi'hc'vi wg' *qt'203' "r gt' { gct+0Vj g'wnko cvg'tgf wevkqp'lp'gpgti { "f kuuk'cvkqp'y' cu'49' "chgt'64' uko wrcv'f "{ gctu' qhi'lqkp'vo qxgo gp'0Vj g'ukreappg'tgugtxqkt"ur geko gpu'j cf "y' g'ny' guv'kpkkn'gpgti { "f kuuk'cvkqp'0' Vj gug'ur geko gpu'cnuq'j cf "c'eqpukv'gpv'tgf wevkqp'lp'gpgti { "f kuuk'cvkqp'cu'y' g' { "y' gt'g'hc'vi wgf ."y' kj " cp'wnko cvg'tgf wevkqp'qhi'59' 0Chgt'uko wrcvpi "64" { gctu'qhi'lqkp'v'qr gpkpi lerqulpi ."y' g'cur j cn'hkn'gf " ur geko gpu' u'kni' g'zj kdkgf "y' g' o quv' gpgti { "f kuuk'cvkqp." hqmqy gf "d { "y' g' cur j cn' "tugtxqkt" cpf " ukreappg'tgugtxqkt"ur geko gpu'0Vj ku'ku'eqpukv'gpv'y' kj "y' g'r' t'gxk'qwu'hkpf kpi u'uj qy kpi "y' cv'y' g'cur j cn' hkn'gf "ur geko gpu' g'zj kdk' y' g' ny' guv' ukh'p'guu" cpf "r n'v'ekv' " ej ctcevgt'ku'eu" y j krg' y' g' ukreappg" t'gugtxqkt"ur geko gpu'g'zj kdk'y' g'j ki j guv'ukh'p'guu'cpf "r n'v'ekv' { 0

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*Hli wt g'F0640J {wgt guku'hqqr 'ct gc'chgt 'gcej 'f co ci g'gxgpv0*rcdqt cvqt { 'vgo rgt cwt g'? '94/95ÅH' hqt 'uqrkf 'dctu=rcdqt cvqt { 'vgo rgt cwt g'? '99/9; ÅH'hqt 'dctu'y kj 'j cvej kpi +*



*Hli wt g'F0650J {wgt guku'hqqr 'uqr g'chgt 'gcej 'f co ci g'gxgpv0*rcdqt cvqt { 'vgo rgt cwt g'? '94/95ÅH' qt 'uqrkf 'dctu=rcdqt cvqt { 'vgo rgt cwt g'? '99/9; ÅH'hqt 'dctu'y kj 'j cvej kpi +*

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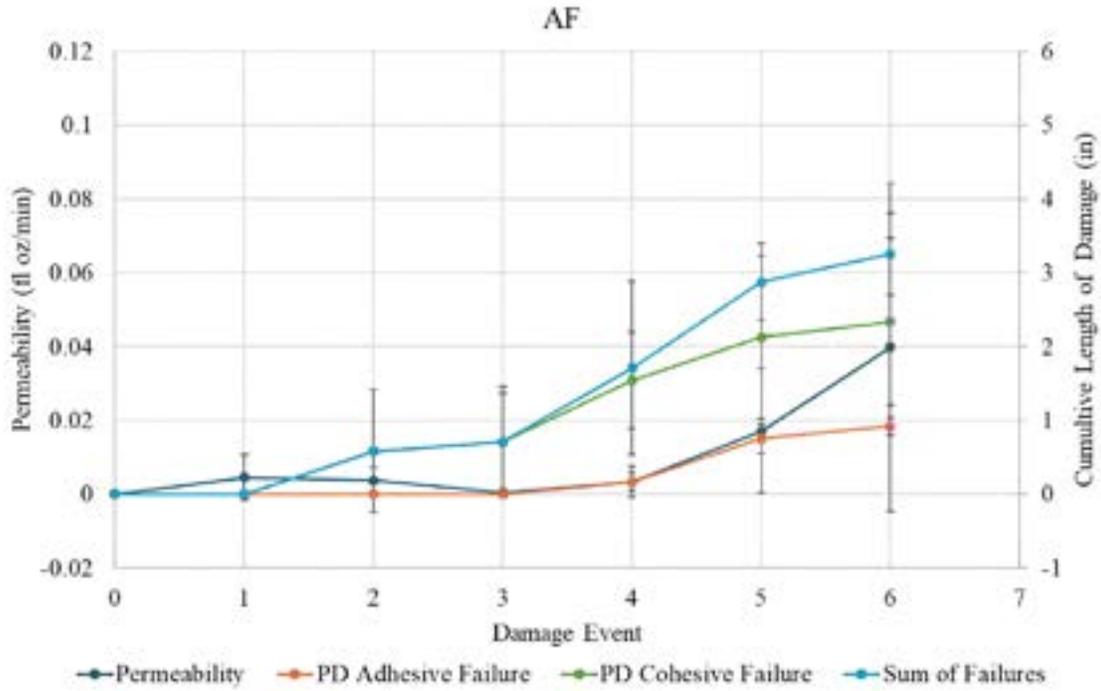
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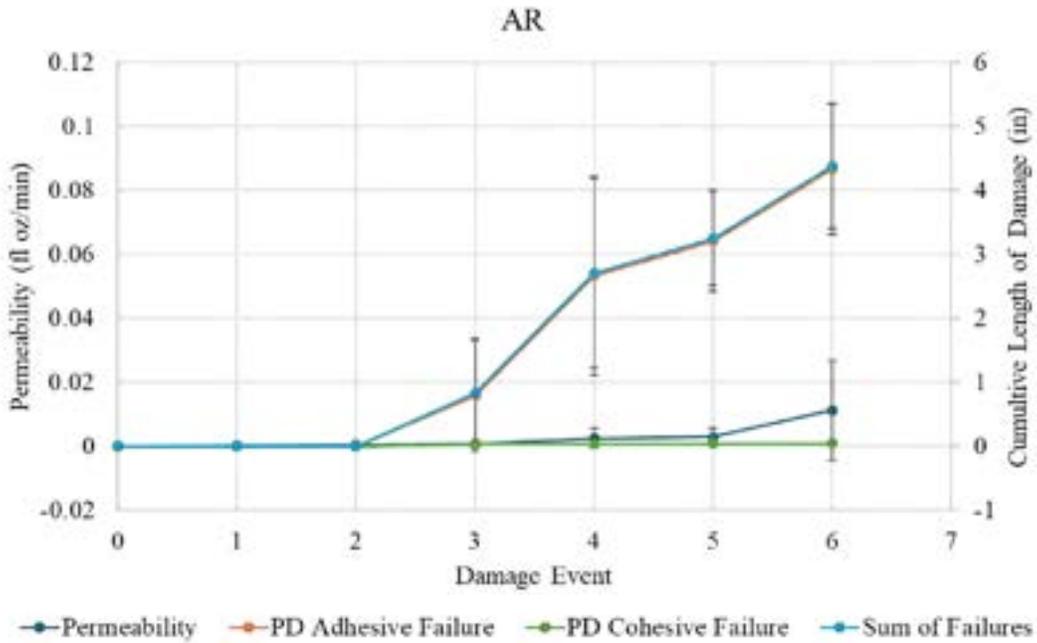
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cu'f guetkdgf 'kp'vj g'hqmny kpi 'ugev'kqp. 'kpf kec'kpi 'i qqf 'r gthqto cpeg0

Hki wtg'F 068'uj qy u'vj g'f co ci g'ceewo wrc'kqp"cpf "ej cpi g"kp"r gto gcdk'k'v' "hqt"uk'leqpg" tgugt'xqk"ur geko gpu'0'K'ku"uggp"vj cv'vj g'co qwpv'qh'f co ci g'ceewo wrc'v'g' "kp"vj g'ur geko gpu"ku" uki p'k'hecpv' "m'y gt'vj cp'vj cv'hqt'vj g'cur j cn'hkmgf"cpf "cur j cn'tgugt'xqk"ur geko gpu."cmj qwi j "qpg" ur geko gp'f'k' "gzj kdk'hwm/f gr vj "HF +cf j gu'x'g'h'c'k'nt'g'0'Vj ku'hwm/f gr vj "cf j gu'x'g'h'c'k'nt'g'cr r gtu'v'q" j cxg'dggp'ecwugf "d{ "r qqt'ugc'k'pi "kp"c'mec'k' gf "ctgc"cm'pi "vj g'lq'k'p'v'uj qy p'kp'Hki wtg'F 069'0'Vj ku" ctgc'y cu'pqv'uw'h'k'epv' "ugc'rg'f'f'wg'v'q'vj g'p'qp/uci "ej ctcevt'k'ueu'qh'vj g'uk'leqpg'ugc'rpv'ngc'k'pi "c" i cr "vj tqwi j "vj g'f'gr vj "qh'vj g'ugc'rpv'qpeg'vj g'uk'leqpg"j cf "ug'0'Vj g'cxgt'ci g'ewo wrc'v'x'g'o gcuwt'gf" f co ci g'y cu'qpn' "2047'kp'ch'gt'uko wrc'k'pi "64" { gtu'qh'lq'k'p'v'qr g'p'k'pi lem'ul'k'pi "cpf "x'gj k'eng"m'cf k'pi 0' Vj g't'gu'wu'qh'vj g'gz'v'p'uk'd'k'k'v' "v'g'uk'pi "hqt"uk'leqpg"tgugt'xqk"ur geko gpu'k'p'f'k'ec'v'g' "vj cv'v'y q'qh'vj g" vj tgg'h'c'k'v'g'f'ur geko gpu'gzj kdk'g'f'cf j gu'x'g'h'c'k'nt'g'0'Vj gug'h'k'p'f'k'pi u'w'i i guv'vj cv'uk'leqpg'tgugt'xqk" ur geko gpu'ctg'dg'w'gt'cd'rg'v'q'y k'j u'x'c'p'f "eqj gu'x'g'v'ut'guu'dw'o c{ "dg'o qtg'uw'egr v'd'rg'v'q"cf j gu'x'g" ut'guu'y j gp'eqo r ctg'f'v'q'vj g'cur j cn'tgugt'xqk"cpf "cur j cn'hkmgf"ur geko gpu'0'Vj g'uk' g'qh'vj g'ctgc" y j gtg'vj g'ugc'rpv'cpf "vj g'eqpet'g'v'ctg'd'q'p'f'g'f'ku'uw'duc'p'v'k'cm' "nguu'hqt'vj g'ur geko gpu'ugc'rg'f'y k'j " uk'leqpg'cu'eqo r ctg'f'v'q'vj g'q'vj gtu'0'Vj g'uj cr g'h'c'v'qt'wug'f'hqt'vj g'uk'leqpg'tgugt'xqk'ku'3'uc'vj g'f'gr vj " qh'vj g'ugc'rpv'ku't'g'f'w'eg'f'eqo r ctg'f'v'q'vj g'q'vj g't'lq'k'p'u'0'Vj g'd'q'p'f "ctgc"qh'vj g'cur j cn'tgugt'xqk"ku" 30'z'rti gt'vj cp'vj g'uk'leqpg"cpf "cur j cn'hkmgf "lq'k'p'u'cd'q'w'6z'rti gt'0'Vj g't'gh'q'tg."vj g't'g'uk'uc'peg'v'q" f gd'q'p'f'k'pi "ku'nguu'hqt'vj g'uk'leqpg'ugc'rg'f' "lq'k'p'v'f'g'uk'i p'o cn'k'pi "k'o qtg'uw'egr v'd'rg'v'q"cp'cf j gu'x'g" h'c'k'nt'g'0'Vj g'r gto gcdk'k'v' "hqt"vj g'uk'leqpg'tgugt'xqk"ur geko gpu'f'k'f' "p'q'v'ej cpi g'gz'egr v'hqt'vj g'q'pg" ur geko gp'vj cv'f'g'x'g'nr'g'f' "hwm/f gr vj "cf j gu'x'g'h'c'k'nt'g'0'Vj g'hwm/f gr vj "cf j gu'x'g'h'c'k'nt'g'k'p'k'c'v'g'f' "ch'gt" uko wrc'k'pi "57" { gtu'qh'lq'k'p'v'qr g'p'k'pi lem'ul'k'pi "cpf "x'gj k'eng"m'cf k'pi 0'Vj ku'ur geko gp'y cu'w'p'cd'rg'v'q" t'g'v'c'k'p'y cv'gt'ch'gt'q'pn' "2047'kp'qh'hwm/f gr vj "cf j gu'x'g'h'c'k'nt'g'j cf "k'p'k'c'v'g'f'0'Vj g'r gto gcdk'k'v' "qh'vj ku" ur geko gp'y cu'p'q'v'k'p'en'f'g'f' "kp'vj g'i t'cr j "d'gm'y "ch'gt'vj g'h'q'w'v'j "f co ci g'g'x'gp'0'Vj ku'k'p'f'k'ec'v'g'u'vj cv' g'x'gp'uo cn'f'co q'wp'u'qh'hwm/f gr vj "h'c'k'nt'g'ec'p'uki p'k'hecpv' "ko r cev'vj g'cd'k'k'v' "v'q't'g'uk'uv'k'p'h'k'nt'c'v'k'p'qh" y cv'gt."y j k'ej "ec'p'ng'cf "v'q'r cxgo gp'v'f'k'ut'gu'gu'u'w'ej "cu'h'c'w'k'pi "qt'ur cn'k'pi 0'J qy g'x'gt."eq'p'uk'f'g't'k'pi " vj g'hwm/f gr vj "h'c'k'nt'g'f'k'f' "p'q'v'k'p'k'c'v'g'w'p'v'k'i'ch'gt"uko wrc'k'pi "57" { gtu'qh'h'c'k'v'g' "m'cf k'pi ."cpf "vj g" k'p'uki p'k'hecpv'co q'wp'v'qh'r'ct'v'cn'f'gr vj "f co ci g.'k'v'ec'p'dg'v'c'v'g'f' "vj cv'vj g'uk'leqpg'tgugt'xqk"ur geko gpu" y gtg'dg'w'gt'cd'rg'v'q"t'g'uk'uv'f co ci g'ceewo wrc'k'qp"ht'qo "lq'k'p'v'qr g'p'k'pi lem'ul'k'pi "cpf "x'gj k'eng"m'cf k'pi " vj cp'vj g'cur j cn'tgugt'xqk"cpf "cur j cn'hkmgf"ur geko gpu0

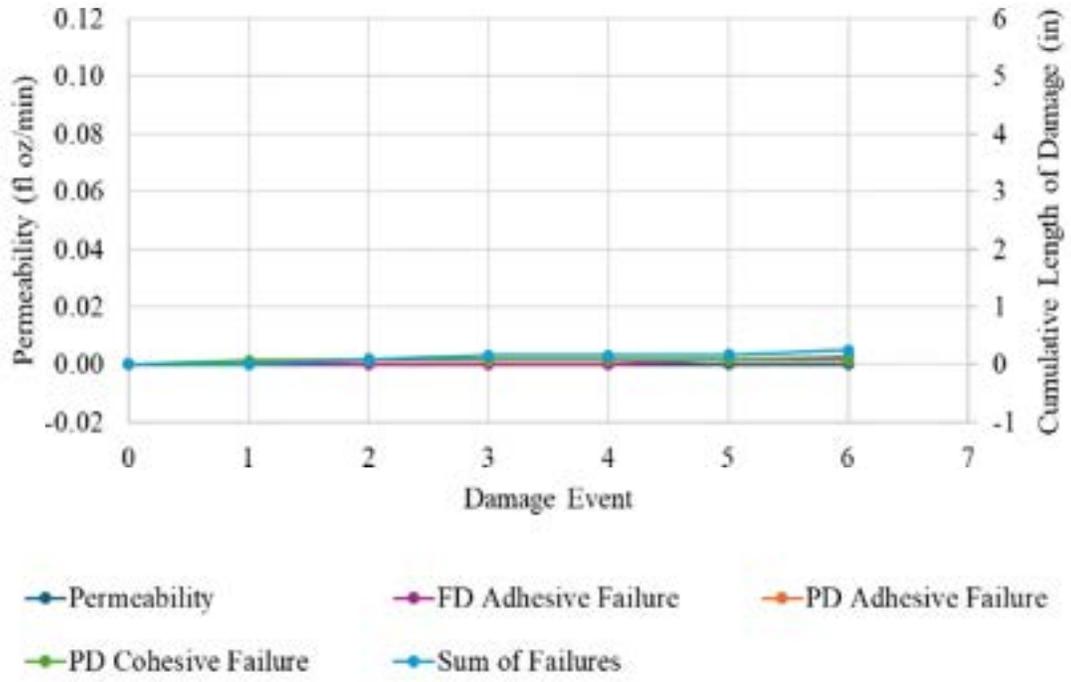


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SR



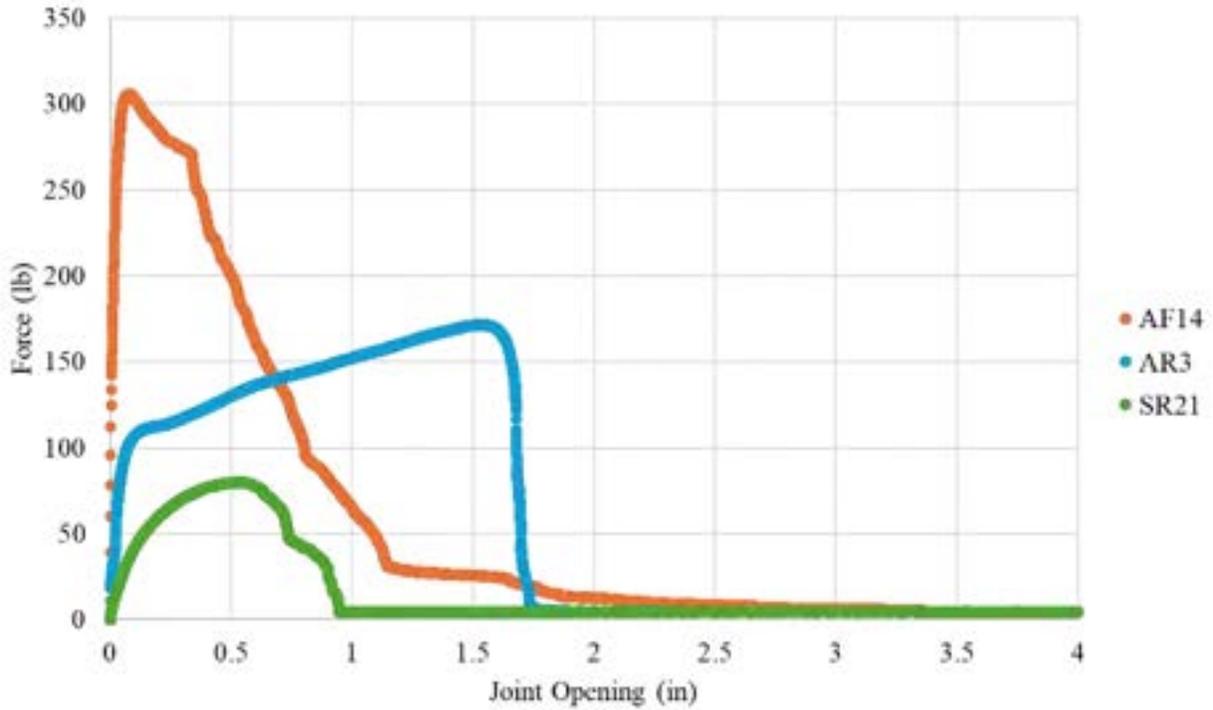
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Hki wt g'F0690Gzco r r g'q hko r g t f g e v k p u 'y k j k p 'u k k e q p g 'u g c r p v . 'i c r 'e k e r g f 'k p 't g f

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Vj g'hqmjy kpi "ugevkqp" f guetkdgu"cpf "eqo r ctgu"vj g"tgwuu"qh"vj g"gzvpukdkk{ "vgukpi "hqt" ur gelo gpu"vj cv'y gtg'pgy n{ "ugcngf "cpf "chvgt"eqpf kkkpki 0δE qpf kkkpki ö'tghgtu"vq"vj g"cr r necvkqp" qh"ukz"htgg/vj cy "e{ergu"hmjy gf "d{"ukz"cr r necvkqp"qh"vj g"lqkv"qr gpkpi lenqkpi "cpf "xgj keng" hcvki vkpi "tgi ko g"vq"uko wrcvg"64" {gctu"kp" ugtxleg0'Vj g"vcti gv'vgo r gtcwtg" hqt" r gthqto kpi "vj g" gzvpukdkk{ "vgukpi "y cu"52A"vq"tgr necvg"vj g"eqrf "vgo r gtcwtg"vj cv'y qwf "dg'r tgugpv'y j gp"vj g" lqkv"y qwf "dg'y kf gt"kp"vj g"herf 0'Vj g"hevqtu"eqpukf gtgf "kpenmf gf "cf j gukxg"cpf "eqj gukxg"utguu." o czko wo "lqkv"qr gpkpi "cpf"o kf/f gr vj "utckp"cv'hckwtg"cpf "vj g'hckwtg"o qf g0'Vj g"tgwuu"ctg" uwo o ctk{ gf "kp"Vedng'F 070C"v{r kcnhqcf "xu'f kur ncego gpvi tcr j "hqt"geej "ugcnpv"v{r g'ku'uj qy p'kp" Hki wt g'F 0'Hckwtg"ku'f ghkpgf "cu"vj g'vko g'y j gp"vj g'r gcnlhqteg"ku'tgeqtf gf ."y j kej "ku'u{ pqp{o qwu" y kj "vj g'vko g'vj cv'cf j gukxgleqj gukxg'hckwtg'kpkkcvgu0



Hli wt g'F 06: 0V/r kecn'gzvpgukdrkx/ "qhpgy r/ 'ugcrf 'ur geko gpu

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Vcdrg'F0Uwo o ct{"qhit guwru'ft qo "gzvpukdtkkyl 'vguakpi

Ur gelo gp'F	Eqpf lskplpi	O czlo wo 'Nqcf " *nd+	O czlo wo 'Lqkp' Qr gplpi '*p+	Hcknt g" O qf g	Vgo rgt cwt g" cv'Hcknt g" *AH+
CT34	P q	386	30;	Cf j gukxg	560
CT5	P q	394	3076	Cf j gukxg	5406
CT8	P q	358	40;	Cf j gukxg	4; 0
CH6	P q	528	20:	Cf j gukxg(" Eqj gukxg	5308
CH7	P q	578	209	Cf j gukxg	4: 08
CH8	P q	538	207	Cf j gukxg(" Eqj gukxg	4; 08
UT43	P q	: 2	2078	Cf j gukxg	4; 0
UT45	P q	93	206;	Cf j gukxg	5506
UT47	P q	; 4	20;	Cf j gukxg(" Eqj gukxg	540
CT:	[gu	3059	306	Cf j gukxg(" Eqj gukxg	5808
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UT44	[gu	55	209	Cf j gukxg	5208
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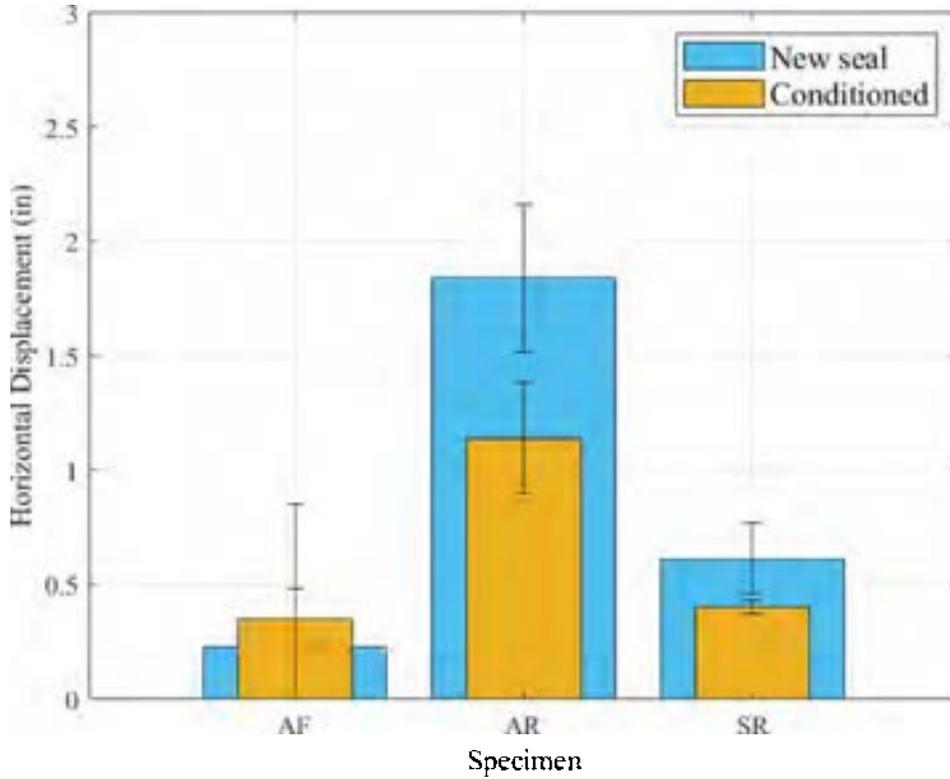
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f t { l p i ' u j t k p n e i g o

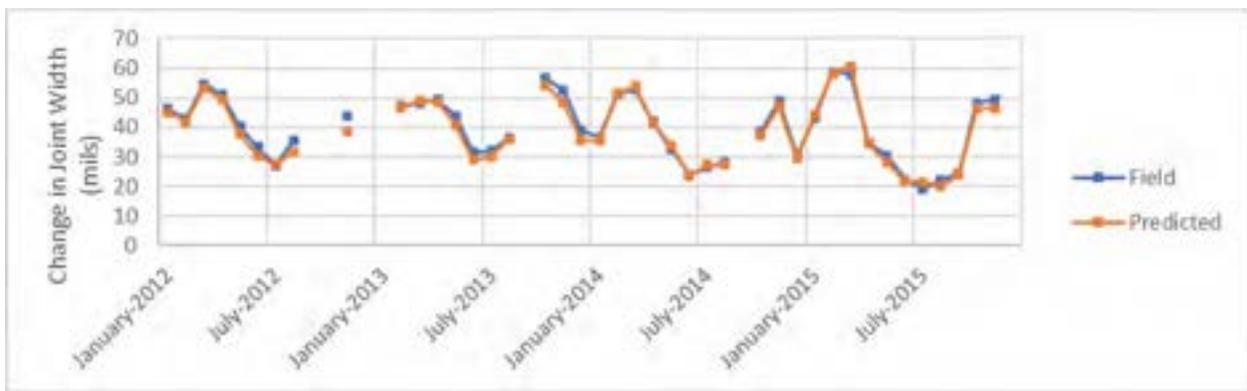
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Vcdrg'F 080Lqkpv'ej ctcevgt kakeu'cv'h'c'kwt g'hqt'gzv'g'p'uk'd'k'k'v' 'v'g'u'v

Ur geko gp	Eqpf k'k'p'k'pi	Lqkpv'Qr g'p'k'pi 'cv'h'c'k'wt g' *lp+		Lqkpv'Y kf vj 'cv' H'c'k'wt g' *lp+
		Cxgtci g' *lp+	U'ep'f c't'f F'g'x'c'v'k'p' *lp+	
CH	Pq	2045	2043	206:
CT	Pq	3089	2089	4026
UT	Pq	2083	2085	20 ;
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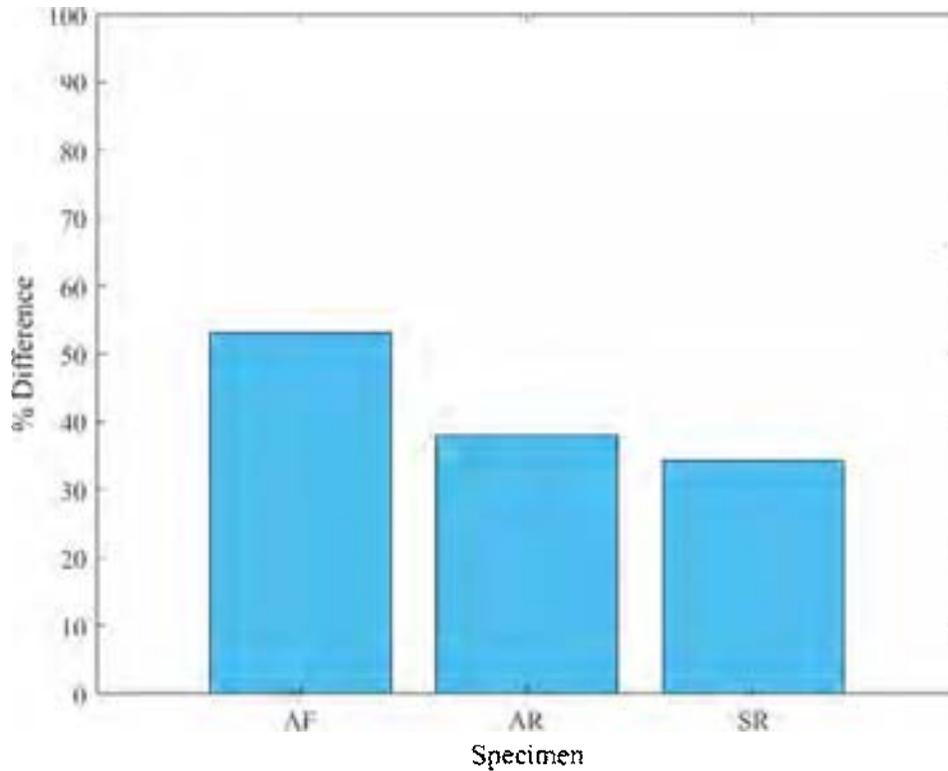
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Hli wt g'F 020 Hkgrf 'g'wko cvgf 'xu'r't gf kvgf 'cxgt ci g'o qpvj n' 'ej cpi g'kp' lqkv'y kf'vj 'c'v'ij g'qr' qh' vj g'wcd'kp'vj g'eqt pgtu

Vj g'gz vgpukdkk'v' 'g'uv'y cu'cniq'wugf 'v'g'xcn'w'v'g'vj g'f gi tcf cvkqp'qh'vj g'ugc'rpv'ht'qo 'ht'gg' g/ vj cy 'e{ emu'cpf 'h'c'v'ki w'kpi 0'Cu'uj qy p'kp' Hli wt g'F 0'vj g'r gtegpv'ej cpi g'kp' lqkv'qr gpkpi 'c'v'ic'kwt g' dgy ggp'ugc'rpv'u'y kj "cpf "y kj qw'eqpf k'k'q'p'kpi "ku'75' ".5: ' ".cpf "56' "h'qt" vj g'cur j cn' h'kmgf. " cur j cn' t'gugt'xqk' "cpf "uk'leqpg" t'gugt'xqk' "ur geko gpu. "t'gur ge'v'x'gn' (0'Vj g' lqkv'y kf'vj u'c'v'ic'kwt g'y gt'g' 2082" kp. "3073" kp. "cpf "20: "kp' h'qt" vj g'cur j cn' h'kmgf. " cur j cn' t'gugt'xqk' "cpf "uk'leqpg" t'gugt'xqk' "ur geko gpu. "t'gur ge'v'x'gn' (0'Vj ku'lpf k'ec'v'u'vj cv'vj g'tgf ve'v'k'p'kp'r g't'ht'qo c'peg'f w'g'v'q'vj g'uko w'rc'v'f "64" {gct'u'qh' h'c'v'ki w'g'cpf "vj g'8" h'gg' g'v'ij cy "e{ emu'y q'w'f "p'q'v'd'g' u'w'ht'le'k'p'v'v' "r'cti g' h'qt" vj g'cur j cn' /cpf "

ukleqpg'tgugtxqk'tur geko gpu'v'f'ckn'gxgp'y kj 'vj g'icti gt'lqkv'y kf vj u'qdugtxgf 'kp'vj g'hgrf 0



Hli wt g'F 030Rgt egpv'f Higt gpeg'kp'lqkv'qr gpkpi 'cv'fckwt g'dgvy ggp'pgy n' 'ugcrf 'cpf' eqpf kkpqgf 'ur geko gpu0

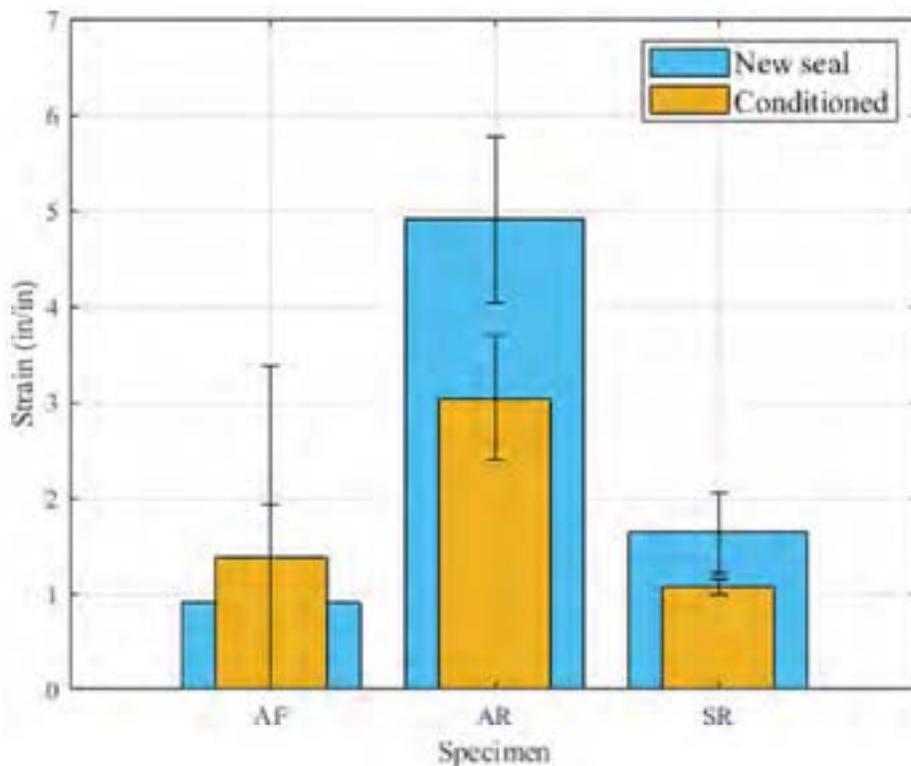
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K'uj qwf "dg"pqvqf "vj cv"ci kpi "f wg"vq"qzkf cvkq"cpf "y gcvj gkpi "ku"pqv"eqpukf gtgf 0Qzkf cvkq" ecwugu" c"ej cpi g"lp"vj g"ej go kecn"eqo r qukkq"qh"vj g"cur j cnv"vj cv"eqvtkdwgu"vq"cp"lpetgcug"kp" ukhpguu"cpf "c" f getgcug"kp"tgukneqpg"9;_0Vj ku"lpetgcug"kp"ukhpguu"vtpurevgu"kp"vj ki j gt"utguu"ht" gs wkcrgpv"utckp."y j lej "tgf wegu"vj g"wnko cvg"utckp"cv"hcwng0Ukneqpg"ugncrpv"ctg"tgukncpv"vq"vj g" ghgew"qh"qzkf cvkq"dw"ecp" f gi tcf g"urqj n{ "vj gtgd{ "tgf wekpi "vj g"ukhpguu" f wg"vq" wntcxkqrv" tcf cvkq"13;_0

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Hki wt g'F 400 kf / f gr vj "utckp"cv"hcwng

Hckmt g'o qf g

Vj g'hckmtg'o qf g'ecp'dg'wugf "v'kf gpvkh{ "vj g'utguu'v{ r g"*cf j gukxg'qt"eqj gukxg+'f levcv'kpi "hckmtg'o Vj g'hckmtg'o qf g'y cu'f qewo gpv'f "cv'vj g'eqpenwukqp"qh'gcej "gzv'g'pukdkrkv{ "vgu'v'q'f g'vgt'o kpg'kh'vj g' hckmtg'kpkvc'v'f "y kj kp'vj g'ugcncpv"*eqj gukxg+"dgw ggp'vj g'ugcncpv'cpf "vj g'eqpetg'v'g'cf j gukq'p'qt" dqvj 0Cu'y cu'cpv'ekr cv'gf . "vj g'kpetgcug'kp'k'q'p'v'y kf vj "cpf "wug'qh'c"dcemgt "tqf "hqt "vj g'k'q'p'w'y kj "vj g' tgugt'x'q'k'f' getgcugf "vj g'v'g'pukg'utckpu'cpf "eqttgur qpf kpi "utguugu'y kj kp'vj g'ugcncpv'y j gp'vj g'k'q'p'w' y cu'qr gpgf 0Vj ku'uj kngf "vj g'hckmtg'o qf g'htqo "r tko ctkn{ "cf j gukq'p'v' "dqvj "cf j gukq'p'cpf "eqj gukq'p'0 Vj g'ur geko gpu'y kj "c'ucy gf "tgugt'x'q'k'f' hckngf "kp'cf j gukq'p'89' "qh'vj g'v'ko g'eqo r ctgf "v'q'qpn{ "39' " qh'vj g'v'ko g'htq' "vj g'cur j cn'hckngf "k'q'p'w' "ugg'Vcdng'F 07+0Vj g'cur j cn'tgugt'x'q'k'f' k'q'p'w'qpn{ "gzj kdkgf " cf j gukxg'hckmtgu'r tkqt "v'q'h'v'ki w'kpi "dw'vj gp'gzj kdkgf "dqvj "cf j gukxg'cpf "eqj gukxg'hckmtgu'ch'gt" eqpf k'k'q'p'kpi 0Vj g'uk'eqpg'tgugt'x'q'k'f' k'q'p'w'hckngf "kp'cf j gukq'p'kp'cni'ur geko gpu'gzegr v'ht'q'pg'k'q'p'w' y kj qw'eqpf k'k'q'p'kpi "vj cv'hckngf "kp'dq'vj "eqj gukxg'cpf "cf j gukq'p'0K'y cu'pq'v'f "r t'g'x'k'q'w' "vj cv'htq' " uqo g'uk'eqpg'tgugt'x'q'k'f' ur geko gpu'vj g'ugcncpv'f kf "pq'v' h'w' "uwt'q'w'p'f "vj g'dcemgt "tqf "f w'kpi " k'p'uc'nc'v'k'p' "cv'vj g'x'gt {"gp'f "qh'vj g'ur geko gpu'0J qy g'x'gt. "vj ku'r j gp'qo gp'q'p'f kf "pq'v'cr r gct "v'q' k'p'hw'g'peg'vj g'hckmtgu'htq' "vj g'gzv'g'pukdkrkv{ "vgu'k'p' . "cu'cni'vj g'cf j gukxg'cpf "eqj gukxg'hckmtgu'kpkvc'v'f " v'qy ctf "vj g'egp'v'cni'r q'v'k'p' "qh'vj g'ur geko gp'cy c {"htqo "vj g'gp'f u'0Vj g'uk'eqpg'ugcncpv'tgugt'x'q'k'f' f guki p'y kj "vj g'3-3'uj cr g'h'ev'q't'f' q'gu't'gu'w'k'p'c' "u'w'duc'p'v'k'cni'uo cmgt "dqpf "ctgc'dgw' ggp'vj g'ugcncpv' cpf "eqpetg'v'g'eqo r ctgf "v'q'vj g'q'vj gt "k'q'p'v'f guki pu'*30/z'cpf "6z"o qtg'ctgc'eqo r ctgf "v'q'vj g'cur j cn' tgugt'x'q'k'f' cpf "cur j cn'hckngf "k'q'p'w' . "t'g'ur g'ev'k'gn{ +0Vj ku't'c'p'ur'v'g'u'v'q'j k'j j gt "f'gd'q'p'f kpi "utguugu0

C' "u'w'duc'p'v'k'cni'co q'w'p'v'qh'eqj gukxg'hckmtgu'y g'g'gzj kdkgf "d {"vj g'cur j cn'hckngf "ur geko gpu'0 Cp'gzco r ng'qh'vj g'v'f r k'cni'eqj gukxg'hckmtgu'q'duc'g'x'gf "ku'uj qy p'kp'Hki w'g'F 0750Vj ku'ecp'dg'r ctv' " cwt'k'dw'gf "v'q'vj g'f'k'h'k'w'w' "kp'h'w'w' "h'k'k'p'i "vj g'p'ctt'qy "k'q'p'w' . "y j lej "ngf "v'q'x'q'k'f' uli cr u'k'p'vj g'ugcncpv' vj cv'cev'cu'utguu'eqpeg'p'v'c'v'k'p'0Cu'vj g'k'q'p'w'y cu'qr gpgf . "vj g'ug' "i cr u' "i tgy "y kf gt. "y j lej "cm'qy gf " vj g'utguu'y kj kp'vj g'ugcncpv'v'q'f' ku'k' cv'g'0Vj g'cx'gt'ci g'o g'cu'w'g'f "x'q'k'f' "ctgc' "hqt "vj g'eqpf k'k'q'p'g'f " cur j cn'hckngf "ur geko gpu'y cu'50#7"kp'4'y kj "c'uc'p'f ctf "f'g'x'k'v'k'p' "qh'20#2"kp'40Vj ku'o g'cpu'vj cv'45' " qh'vj g'cur j cn'hckngf "u'w'ht'ceg'ctgc'eq'p'uk'ng'f' "qh'x'q'k'f' uli cr u'd {"vj g'gp'f "qh'vj g'gzv'g'pukdkrkv{ "vgu'0Vj g'ug' u'g'x'gt'g'eqj gukxg'hckmtgu'ctg'w'p'k' w'g'v'q'vj g'cur j cn'hckngf "ur geko gpu' . "y j lej "ku'gzr g'ev'gf "f'w'g'v'q'vj g' ej cm'g'pi g'kp'ug'c'k'p'i "vj g'p'ctt'qy "k'q'p'w'y kf vj 0Vj g'utckpu'htq' "vj g'cur j cn'hckngf "ur geko gpu'ctg' "r'cti gu'v' hqt "vj g'uco g'co q'w'p'v'qh'k'q'p'w'o q'x'g'o gp'v' . "y j lej "ec'w'ug'u'eqj gukxg'hckmtg'v'q'k'p'k'vc'v' "u'q'q'p'g't'vj cp'vj g' cur j cn'ug'c'ng'f "cpf "uk'eqpg'ug'c'ng'f "k'q'p'w'0D {"f' guki p'kpi "c'y kf gt "k'p'k'c'ni'k'q'p'w'y kf vj . "vj g'ug'eqj gukxg' hckmtgu'eq'w'f "dg'o k'ki cv'gf "pq'v'q'pn{ "d {"t'gf w'ek'p'i "vj g'utckp'y kj kp'vj g'ugcncpv' . "dw'c'nu'q'd {"t'gf w'ek'p'i " vj g' "r'k'ng'k'j q'q'f "qh'c'r q'q'tn{ "hckngf "k'q'p'w'0Vq' "h'w'v'j gt "k'p'x'g'uk'i cv'g'vj g'r g't'ht'q'o c'peg' . "vj g'cf j gukxg'cpf " eqj gukxg'utguu'cv'hckmtg'y cu'c'p'cni' | gf "cpf "vj g't'gu'w'w'ctg'r' t'g'ug'p'v'gf "dg'ng'y 0



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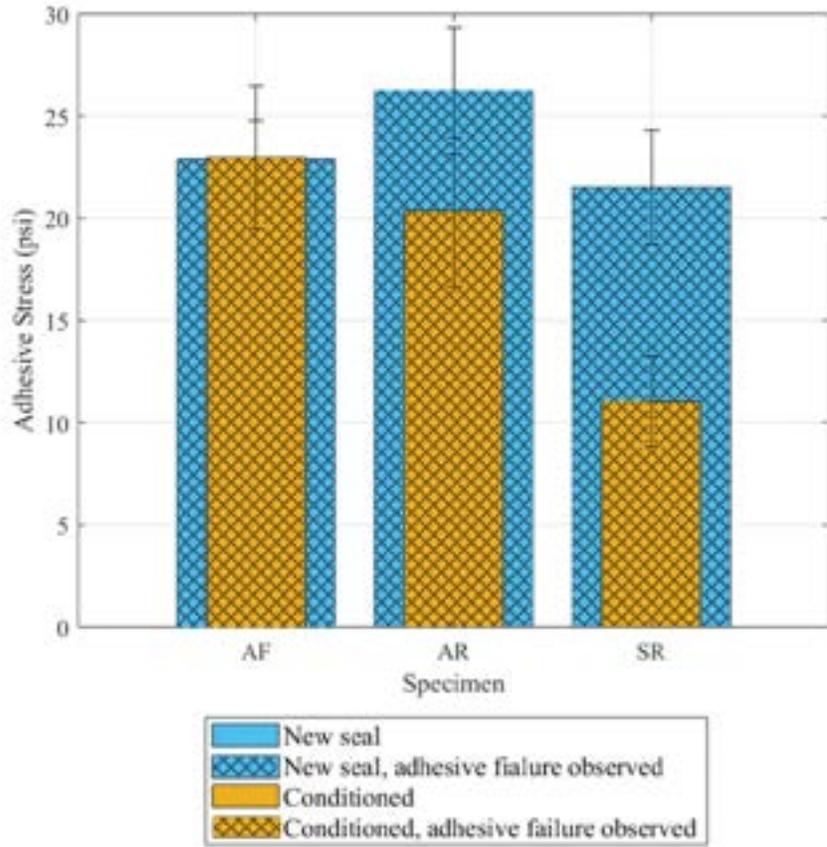
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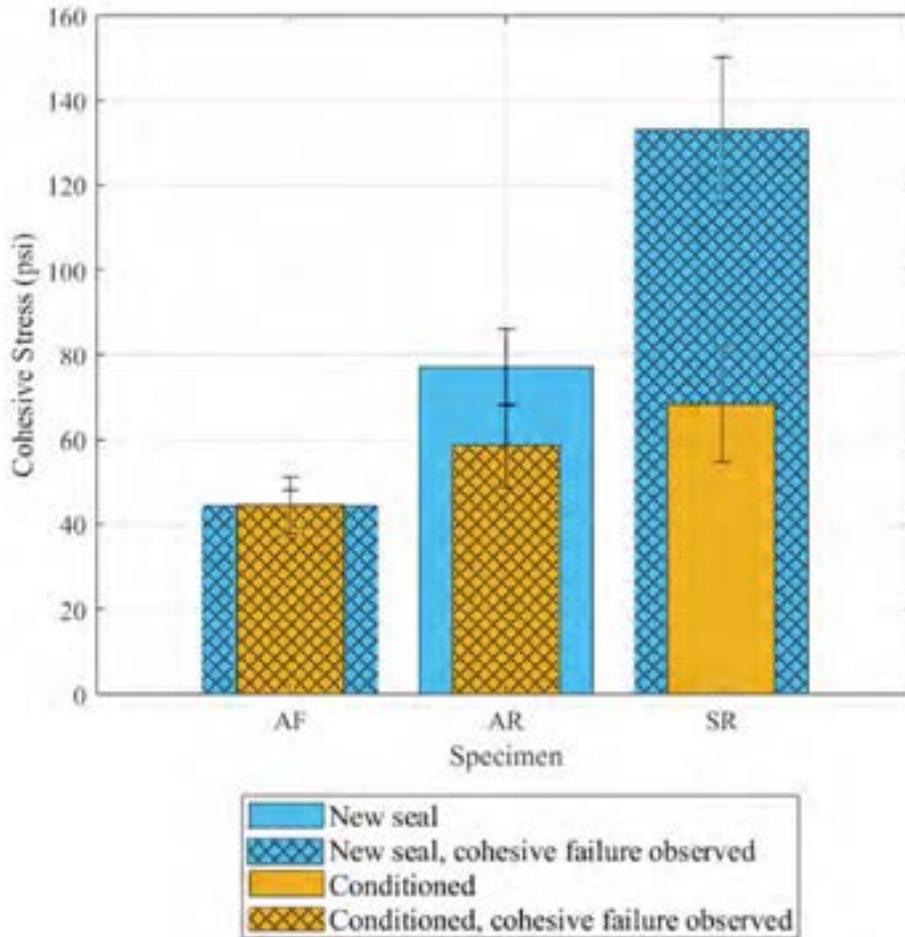
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Hki wt g'F 70Cf j gukxg'ut guu'cv'hc'kwt g.'et quu'j cvej kpi 'kpf kec vgu'hc'kwt g'o qf g

Vj g"eqj gukxg'ut guu'cv'hc'kwt g'y cu"ecre wcv'g f "d{ "f kxf kpi "vj g"r gcm'ncf "d{ "vj g"et quu/ ugevkpcn'ctgc"qh'vj g'ugrcpv'eqtgur qpf kpi "v'vj g"qr gpkpi "cv'hc'kwt g'0Vj g'vj kempguu'qh'vj g'egpvt'qh' c'lqkv'ugrcpv'f getgcugu'cu'vj g'lqkv'qr gpu."y j kej "cnuq"ecwugu'vj g'et quu/ugevkpcn'ctgc"qh'vj g'dwmi' ugcrcpv'v'f getgcug."cu" f guetkdgf "r t gxlqwn(0'Vj g'et quu/ugevkpcn'ctgc"eqttgur qpf kpi "v'vj g'lqkv' qr gpkpi "cv'hc'kwt g'y cu" f gvtgto kpgf "hqt"gej "ur geko gp"cpf "wugf "v'f gvtgto kpg'vj g'eqj gukxg'ut guu'cv' hc'kwt g'0Vj g'eqj gukxg'ut guu'cv'hc'kwt g'hqt'pgy n' "ugrcgf "cpf "eqpf kkp'g'ur geko gpu'ctg'uj qy p'kp" Hki wt g'F 80K'ku'uggp'vj cv'vj g'uk'leqpg'tgugt xqkt'ur geko gpu'g'zr g'kgpegf "vj g'rti guv'eqj gukxg'ut guu' cv'hc'kwt g'0[gv."cu'uj qy p'kp"Vcdg'F 70."qpn' "vj g'uk'leqpg'ugrcgf "ur geko gp"vj cv'gzj kdk'gf "vj g'rti guv' eqj gukxg'ut guu'cpf "lqkv'qr gpkpi "20; "kp+cv'hc'kwt g'gzj kdk'gf "c"eqj gukxg'hc'kwt g'0Vj g'cur j cn'hkngf " ur geko gpu'gzj kdk'gf "dqj "eqj gukxg'cpf "cf j gukxg'hc'kwt gu'82' "qh'vj g'ko g'0K'y qwf "dg"cp'v'ekr cv'gf " vj cv'vj g'cur j cn'hkngf "cpf "cur j cn'tgugt xqkt'ur geko gpu'y qwf "hc'k'cv'vj g'uco g'eqj gukxg'ut guu'dw' wpr'kng'vj g'cur j cn'hkngf "ur geko gpu."ppqg'qh'vj g'cur j cn'tgugt xqkt'ur geko gpu'gzj kdk'gf "c"eqj gukxg' hc'kwt g'0Ci c'kp."vj ku'ecp"dg'vj g'tguwn'qh'vj g'kpcdk'v' "v'eqo r ngvgn("hm'vj g'f ggr "pcttqy "ew'qh'vj g' hkngf "lqkv'0



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F wg" vq" vj g" r t g u p e g" qh" c" d c e n g t" t q f " h q t" v j g" c u r j c n' t g u g t x q k t" c p f " u k l e q p g" t g u g t x q k t" u r g e k o g p u. 'k' y c u' g z r g e v g f " v j c v' v j g' u t c k p u' v j c v' f g x g n r g f " f w t k p i " l q k p v' q r g p k p i " y q w r f " d g' i t g c v g u v' c v' v j g' v q r " q h' v j g' u g c r p v' u g g" V c d r g' F 0 6 - 0 V j g u g' r c t i g' u t c k p u' c v' v j g' u w t h c e g' q h' v j g' u g c r p v' r g c f " v q' v j g' f g x g n r o g p v' q h' e q j g u k x g' f c k n w t g u' C u' v j g' e q j g u k x g' f c k n w t g u' r t q r c i c v g' c v' v j g' u w t h c e g' q h' v j g' u g c r p v." v j g' u t g u u' k p' v j g' d w m l u g c r p v' o c v g t k e n' k u' f k u k r c v g f " c v' v j g' u w t h c e g. " d w' k' k u' d g r k x g f " v j c v' v j g t g' k u' c p" k p e t g c u g' k p' u t g u u' v j c v' f g x g n r u' c v' v j g' k p v g t h c e g' d g v y g g p' v j g' u g c r p v' c p f " v j g' e q p e t g v g' 0 V j k u' j k i j g t" u t g u u' c v' v j g' e q p e t g v g' k p v g t h c e g' r g c f u' v q' v j g' f g x g n r o g p v' q h' c f j g u k x g' f c k n w t g. " y j k e j " r t q r c i c v g u' f q y p" v j g' r g p i v j " q h' v j g' l q k p v. " e c w u k p i " v j g' u g c r p v' v q" r g g n' c y c { " h i q o " v j g' e q p e t g v g' y c m' 0 V j k u' r j g p q o g p q p' y c u' u g g p' h q t' o c p { " q h' v j g' c u r j c n' h k n g f' c p f " c u r j c n' t g u g t x q k t" u r g e k o g p u. " y j g t g' h t u v' e q j g u k x g' f c k n w t g u' f g x g n r g f. " v j g p' c f j g u k x g' f c k n w t g u' h q m y g f 0 K' y c u' u g g p' h q t' u g x g t c n' l q h' v j g' c u r j c n' h k n g f' c p f " c u r j c n' t g u g t x q k t" u r g e k o g p u' v j c v' v j g' c f j g u k x g' f c k n w t g' k p k l c v g f " c m p i " v j g' u w t h c e g' q h' v j g' u g c r p v. " y j k e j " y c u' g z r g e v g f " d c u g f " q p' v j g' e c r e w r c v g f " u t c k p u' k p' V c d r g' F 0 6 0 J q y g x g t. " h q t' v j g' u k l e q p g" t g u g t x q k t" u r g e k o g p u. " p q' e q j g u k x g' f c k n w t g u' y g t g' q d u g t x g f 0 V j k u' o g c p u' v j c v' p q' u t g u u' y c u' c d r g' v q" f k u k r c v g' r t k q t' v q' f c k n w t g. " c p f " c f j g u k x g' f c k n w t g u' k p k l c v g f " c v' p e t t q y. " l q k p v' q r g p k p i u' 0 V j k u' k u' e q p u k u v g p v' y k j " v j g' t g u w m' u j q y p' r' t g x l q w u n { . " k p' y j k e j " v j g' c f j g u k x g' u t g u u' c v' f c k n w t g' y c u' o w e j " h q y g t' v j c p' v j g"

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70'Uwo o ct{

Vj ku'uwf { "y cu'eqpf wevgf "vq's wcpvkh{ "vj g'ghgevkxgpguu'qh'ucpf ct'f "RgppF QV"t'cpuxgtug" lqkv'tgugtxqkt'f guki pu'hqt"lRE Ru0Vj g'f guki pu'eqpukf gtgf "hqt'vj ku'uwf { "kpenf gf "cur j cn'hkngf." cur j cn'tgugtxqkt."cpf "ukdeqpg'tgugtxqkt'tcpuxgtug'lqkvu0Vj g'r gthqto cpeg'qh'vj gug'f guki pu'y cu' cuuguugf "y kj "tgur gev'vq' h'ggj g/vj cy "f wtdckkx{."tgukdpe{ "lqkv'qr gplki "cpf "emqkpi "y kj " vgo r gtcwtg'ej cpi gu'cpf "xgtvecn'f kur rnego gpvu'itqo "xgj keng"mqcf u-."cpf "gzv'pukdkx{0'Uo cni' eqpetg'ur geko gpu'y gtg'fcdtkecvf."ucy gf."cpf "ugcngf"vq'tgr t'gugpv'c'r qt'v'kq'qh'c'tcpuxgtug'lqkv0

Gcej "lqkv'f guki p"y cu'uwldgevgf "vq'lqkv'qr gplki lemukpi "h'vki wg"uko wrcvpi "gZR gevfg" hnwew'v'kpu"lp"r cxgo gpv'vgo r gtcwtg'vj tqwi j qw'vj g"y k'pvtg"lp"Rkwudwti j ."RC0 Vj g'ukdeqpg" t'gugtxqkt'ur geko gpu'gzj kdkgf "vj g'i tgcvguv'uwthpguu."hmqy gf "d{ "vj g'cur j cn'tgugtxqkt'cpf "cur j cn' hkngf"ur geko gpu0Vj g'f k'htg'peg'lp'uwthpguu'hqt'vj g'cur j cn'lqkv'f guki pu'ku'cwt'kdwgf "vq'vj g'v'pks wg" i gqo gvt'kgu'cpf "pqpwpk'qto "utckp"f kwt'kdw'kpu"vj tqwi j qw'vj g'f gr vj "qh'vj g'ugcncpv'f wtkpi "lqkv' qr gplki lemukpi 0Vj g'o qf wwu'qh'vj g'cur j cn'hkngf."cur j cn'tgugtxqkt."cpf "ukdeqpg'tgugtxqkt'f guki pu' tgf wegf "d{ "64' . "45' . "cpf "53' . "tgur gev'kxgn' "chgt'uko wrcvpi "64" { gct'u'qh'xgj keng'mqcf u'cpf "lqkv' qr gplki lemukpi 0

Xgj keng"mqcf kpi "h'vki wg"v'gukpi "y cu'eqpf wevgf "qp" gcej "qh'vj g'lqkv'f guki pu'cu'y gnt' **O k'lo cni' co ci g'ceewo wrcv'f' hqt'ep{ 'qh'vj g'lqkv'f guki pu'f wtkpi 'uko wrcv'f' xgj keng'mqcf kpi 0** Vj gtg'y cu'pq'kf gpv'k'cdrg't'gpf "lp'vj g'ej cpi g'lp'uj gct'o qf wwu'hqt'gcej "qh'vj g'lqkv'f guki pu0Vj ku' uwi i guu' vj cv' vj g'uj gct" r gthqto cpeg'qh' vj g'lqkv' ku'pq' uki p'k'ecpv' "ko r cevgf "d{ "f co ci g" ceewo wrcv'p'vq'vj g'ugcncpv'o cvgtkcn'cpf "uj gct'mqcf kpi "h'vki wg"f qgu'pq'v'gpf "vq'k'pf wegf co ci g'qp" cp{ "qh'vj g'lqkv'f guki pu0

Vj g'ej cpi g'lp'f { pco le'tgur qpug'y kj "h'vki wg"gzr quwtg'y cu'cuuguugf "vj tqwi j "vj g'mqu'cpf " eqo r ngz"o qf wwu'eqttgur qpf kpi "vq'lqkv'o qxgo gp0Vj g'w'ko cvg'tgf wev'kq'lp'vj g'r r'v'vke"o qf wwu' hqt'vj g'cur j cn'hkngf."cur j cn'tgugtxqkt."cpf "ukdeqpg'tgugtxqkt'ur geko gpu'chgt'h'vki wtkpi "y cu'58' . " 43' . "cpf "55' . "tgur gev'kxgn'0Vj g'tgf wev'kq'lp'vj g'eqo r ngz"o qf wwu'y cu'63' . "45' . "cpf "63' "hqt" vj g'cur j cn'hkngf."cur j cn'tgugtxqkt."cpf "ukdeqpg'tgugtxqkt'ur geko gpu."tgur gev'kxgn' "chgt'h'vki wtkpi 0' Vj g"o ci p'kw'f g'qh' vj g'mqu' cpf "eqo r ngz"o qf wwu'hqt'vj g'ukdeqpg"t'gugtxqkt"ur geko gpu'y cu' uki p'k'ecpv' "rcti gt'vj cp'vj qug'qh'vj g'cur j cn'lqkv'f guki pu0Vj gug'h'k'f kpi u'wui i guv'vj cv'vj g'ukdeqpg" o cvgtkcn'ku'uwthgt'cpf "dw'r'k'cdrg'cu'eqo r ctgf "vq'vj g'cur j cn'o cvgtkcn'0Vj gtg'y cu'pq'kf gpv'k'cdrg" v'gpf "lp'vj g'eqo r ngz'uj gct'o qf wwu0

Y j gp'uwldgevgf "vq'lqkv'qr gplki lemukpi "h'vki wg."vj g'cur j cn'hkngf "cpf "cur j cn'tgugtxqkt" f guki pu'v'gpf gf "vq'f g'xgnr "r ct'v'cn'f gr vj "cf j gukxg"cpf "eqj gukxg'h'ckntg'u0Vj g'ukdeqpg'tgugtxqkt" f guki p'f g'xgnr gf "r ct'v'cn'f gr vj "cf j gukxg."hwm'f gr vj "cf j gukxg'h'ckntg."cpf "r ct'v'cn'f gr vj "eqj gukxg" h'ckntg'u0J qy g'xgt."vj g'ewo wrcv'kxg'ngpi vj "lp'f co ci g'y cu'i t'gcvgt'hqt'vj g'cur j cn'hkngf "cpf "cur j cn' t'gugtxqkt" f guki pu'eqo r ctgf "vq' vj g'ukdeqpg" t'gugtxqkt'0 Vj g'ej cpi g'lp" r gto g'cdk'kx{ "y cu'pq' uki p'k'ecpv'hqt'vj g'cur j cn'hkngf "ur geko gpu."y j k'ng'vj g'cur j cn'tgugtxqkt'ur geko gpu'gzj kdkgf "c'urki j v' k'p'etg'cug'lp'r gto g'cdk'kx{ "d'gy ggp'vj g'h'k'ij "cpf "ukz'vj "f co ci g'g'xgp'v0O quv'qh'vj g'ukdeqpg'tgugtxqkt" ur geko gpu'gzj kdkgf "pq'ej cpi g'lp'r gto g'cdk'kx{."gzegr v'hqt'qpg'ur geko gp'vj cv'f g'xgnr gf "hwm'f gr vj " cf j gukxg'h'ckntg"cpf "y cu'wpcdr'g'vq't'g'v'clp'y cvgt'0Vj ku'hwm'f gr vj "cf j gukxg'h'ckntg'y cu'ecwugf "d{ " r qqt'ugc'kpi "lp'c'iq'ec'k'gf "ctgc'cm'pi "vj g'lqkv'0Vj ku'ctgc'y cu'pq'v'uwthlekpgv' "ugcngf "f wg'vq'vj g

pqp/uci "ej ctcevtkukcu"qh'vj g'ukleqpg'ugcnpv'ngcxkpi "c'i cr 'vj tqwi j 'vj g'f gr vj "qh'vj g'ugcnpv'qpeg" vj g'ukleqpg"j cf "ugv0Vj gug'hkpf kpi u'awi i guv'vj cv'vj g'ukleqpg'tgugtxqkt"ur geko gpu"ctg"vj g'ngcuv' uwuegr vkrig"vq'f co ci g'ceewo wrcvqp"cpf "ctg"vj g'o quvtgukrkgpv'q'lqkv'o qxgo gpv'hcvi wg0

Vj g'ej cpi g'kp"gpgti { "f kuuk cvkqp"vj tqwi j "gcej "ugcnpv'y cu'cnuq"wgf "vq"cuuguu"vj g'ej cpi g' kp'r gthqto cpeg"qh'vj g'lqkv0Vj ku'y cu'f qpg'd { "s wcpvkh kpi "vj g'tgf wekqp"kp"vj g'j { uvtguku'mqr "ctgc" cpf "urqr g'hqt"vj g'hqteg"xu'f kur rcego gpvr' mqu'hqt"gcej "f guki p0Vj g'wnko cvg'tgf wekqp"chgt"hcvi wkpi "kp"j { uvtguku'mqr "ctgc'hqt"vj g'cur j cn'hkmgf ."cur j cn'tgugtxqkt ."cpf "ukleqpg'tgugtxqkt" f guki pu'y gtg" 5: ' ."49' ."cpf "59' ."tgur gevkgnt 0'Uko kctn { ."vj g'wnko cvg'tgf wekqp"kp"j { uvtguku'mqr "urqr g'hqt" vj gug'lqkv'f guki pu'y gtg"62' ."4: ' ."cpf "57' ."tgur gevkgnt 0'Vj ku'awi i guv'vj cv'cnj qwi j "vj g'ukleqpg" tgugtxqkt"lqkv'f guki p'dgeqo gu'nguu'uvkh"cpf "mqgu"vj g'cdkkm' "vq" f kuuk cvg'gpgti { "vj tqwi j "vj g'dwm' o cvgtkn'vj tqwi j qw'ku'hcvi wg'rhg."vj ku'f co ci g'ku'pqv'uvhkekgpv'gpqwi j "vq"ceewo wrcv'uki pkhcep' cf j gukxg'qt"eqj gukxg'hcnwtg0Vj ku'ku'eqpukv'v'vj kj "vj g'hkpf kpi u'uj qy p'r t gxlqwan' { "y j lej "kpf lecvgf" vj cv'cur j cn'hkmgf "cpf "cur j cn'tgugtxqkt"lqkv'f guki pu'vgpf "vq"ceewo wrcv"o qtg"cf j gukxg"cpf " eqj gukxg'f co ci g'htqo "hcvi wkpi "vj cp'vj g'ukleqpg'tgugtxqkt" f guki p0

Vj g'f khgt gpeg"kp"ugcnpv'gzv'pukrkv' { "y cu's wcpvkhgf "d { "eqo r ct kpi "ur geko gpu"vj cv'j cf " dggp"gzr qugf "vq"htggj g/vj cy "cpf "hcvi wg'e { ergu"vq"pgy n { "ugcrgf "lqkv0Vj g'pgy n { "ugcrgf "cur j cn' tgugtxqkt"ur geko gpu"qr gpgf "406"kp"dgtht g'hckkpi ."vj g'pgy n { "ugcrgf "ukleqpg'tgugtxqkt"ur geko gpu" qr gpgf "20 ; "kp"cpf "vj g'pgy n { "hkmgf "cur j cn'hkmgf "ur geko gpu"qpn { "qr gpgf "206: "kp0Vj g'lqkv' qr gpkpi lemukpi "vj tqwi j qw'vj g' { gct'hqt"vj g'UT/44"Uo ctv'Rcxgo gpv'y cu'f gvto kpgf "kp"cp" gctrgt" r qt vqp"qh'vj ku'r tqlgv'ugg"Cr r gpf kz "E+"cpf "y cu'hqwpf "vq"dg'dgvy ggp"2062"vq"2092"kp0Dcugf "qp" vj gug'gzr gtko gpv'nt guvnu."vj gug'qr gpkpi u'y qwf "dg'uvhkekgpv' { "cti g'vq'hckn'vj g'cur j cn'hkmgf "lqkv0 Vj g'vntclp'cv'hcnwtg'hqt'htgij n { "ugcrgf "cpf "eqpf kkpqgf "ur geko gpu"y cu'cnuq" gxcnvcvgf "hqt" gcej "lqkv' f guki p."vj qug'dgkpi "60 "cpf "50"kp"lkp'hqt"cur j cn'tgugtxqkt"ur geko gpu."20 "cpf "30"kp"lkp'hqt"cur j cn' hkmgf "ur geko gpu."cpf "30"cpf "30"kp"lkp'hqt"ukleqpg'tgugtxqkt"ur geko gpu."tgur gevkgnt 0'Vj g'ghge'v'qp" vj g'tgf wekqp"kp"vj g'qr gpkpi "cv'hcnwtg'hqt"vj g'ukleqpg'ugcnpv'chgt"64" { gctu'uko wrcv'f "ugt xleg'rhg" y cu'uki pkhcepv' "nguu"vj cp'vj cv'hqt"vj g'cur j cn'ugcnpv0Vj g'pgy n { "ugcrgf "cpf "eqpf kkpqgf "cur j cn' hkmgf "ur geko gpu"gzj kdkgf "dqj "cf j gukxg"cpf "eqj gukxg"hcvtg" o qf gu0Vj g'cur j cn'tgugtxqkt" ur geko gpu"qpn { "gzj kdkgf "cf j gukxg'hcvtg'hqt"pgy n { "ugcrgf "ur geko gpu"dw'gzj kdkgf "dqj "cf j gukxg" cpf "eqj gukxg'hcvtg'u'hqt"vj g'eqpf kkpqu"ur geko gpu0Vj g'pgy n { "ugcrgf "ukleqpg'tgugtxqkt"ur geko gpu" gzj kdkgf "cf j gukxg"cpf "eqj gukxg'hcvtg."dw'chgt"eqpf kkpqkpi "vj g' { "r tko ct kn { "hcvtg"kp"cf j gukqp0

