Eqoret kuqp'dgyy ggp'O geuwt gf 'Ured'Rt qhkrgu'qh'Ewt rgf " Rexgo gpw'cpf 'Rt qhkrgu'I gpgt evgf 'Wukpi 'tj g'Hkpkrg'Grgo gpv' O gyj qf

F t0Lwrlg'O 0Xcpf gpdquuej g³. 'O go dgt'KUER'cpf 'F t0O ctm'D0Up{f gt⁴. 'O go dgt'KUER

Cduxtcev

Vj g"cf xcpego gpv"kp" yj g"r tqeguukpi "ur ggf "qh"r gtuqpcn"eqo r wygtu. "cu" y gm"cu" yj g'o qtg''wugt/htkgpf n{ "i tcr j kecn'kpygthcegu'uvctvkpi "vq''dg''go r m{ gf 'kp''r cxgo gpv'hkpkg" grgo gpv'cpcn(uku"r tqi tco u."j cu"tguwngf "kp"c"o qtg"litgs wgpv'wug"qh"vj g"hkpkg"grgo gpv' o gyj qf "*HGO +"hqt"r cxgo gpvu"cpcn{ uku0' Vj ku"kpetgcug"kp"tgrkcpeg"qp"vj g"HGO "j cu" co r nkhkgf " vj g" pggf " vq" gpuwtg" vj gug" hkpkxg" grgo gpv' o qf gnu" ceewtcvgn(" r tgf kev' vj g" tgur qpug"qh'y g"urcd"vq"cr r nkgf "cpf "gpxktqpo gpvcn'rqcf u0'Vj ku'r cr gt"y km'hqewu''qp"y g" cdkrkv{"qh"ewttgpvn{"cxckrcdrg"hkpkvg"grgogpv'rtqitcou"vq"ceewtcvgn{"rtgfkev'yjg" tgur qpug"qh"tki kf "r cxgo gpvu"vq"vgo r gtcwtg"i tcf kgpvu0'Vj g"uwf { "gpvckrgf "eqnrgevkpi " uwthceg" rtqhkrg" o gcuwtgo gpvu" hqt" c" tcpi g" qh" rcxgo gpv" f guki pu" wpf gt" f khhgtgpv" vgo r gtcwtg" eqpf kkqpu0' Gcej " r cxgo gpv' f guki p" y cu" yj gp" o qf grgf " wukpi " hkpkg" grgo gpv'cpcn(uku0'Vgo r gtcwtg''i tcf kgpvu''tgr tgugpvkpi "vj g''eqpf kkkqpu''wpf gt''y j kej "vj g'' ured "r tqhkrgu" y gtg" o gcuwtgf "y gtg" cr r rkgf "vq" y g"hkpkg" grgo gpv'o qf gru0'Eqo r ctkuqpu" y gtg"yj gp"o cf g"dgw ggp"yj g"o gcuwtgf "cpf "ecrewrcygf "urcd"uj cr g0'C "eqo r ctkuqp"qh" yj g"ngpi yj "qh"yj g"wpuwr r qtygf "r qtykqp"qh"yj g"urcd"f gygto kpgf "wukpi "uwthceg"r tqhkrg" o gcuxtgo gpvu"cpf "vj g"HGO "y cu"r gthqto gf 0'Vj g"HGO "wpf gt/guxko cvgf "vj g"r qt xkqp"qh" yj g"urcd"hwm{/uwr r qtvgf "qpn{"34"r gtegpv'qh"yj g"vko g0'Vj g"cdkrkv{"qh"yj g"HGO "vq" ceewtcvgn("guvko cvg"ewtxcwxtg"crrgctu"vq"dg"c"hwpevkqp"qhi'vj g"rcxgo gpv'f guki p"cpf "vj g" o ci pkwf g"qh" y g"i tcf kgpv0'Ewtxcwtg" y cu"ceewtcvgn{ "f gvgto kpgf "wukpi "y g"HGO "qpn{ " 36"r gtegpv'qh''y g''vko g''y ky "ewtxcwtg''dgkpi "wpf gt/gurko cvgf "92"r gtegpv''qh''y g''vko g0' Vjg" HGO "eqwrf" pqv" ceewtcvgn("guvko cvg" yjg" nctigt" ewtxcwxtgu0' Vjg" ewtxcwxtgu" ecnewrcygf "wukpi "urcd"r tqhkrgu"i gpgtcygf "wukpi "yj g"HGO "ygpf "vq"qxgtguvko cyg"yj g" ewtxcwtgu"ecrewrcygf "wukpi "o gcuwtgf "r tqhkrgu"o qtg"htgs wgpvn("hqt"y kppgt "urcdu"cpf " i tcpwrct"dcugu0'Vjg"HGO "rtgf kevgf "j ki j gt"ewtxcwtgu" yj cp" y gtg" o gcuwtgf "o qtg" htgs wgpvn{ 'hqt'wptguvtckpgf 'urcdu'yi cp'tguvtckpgf 0

Kpvt qf wevkqp

Vj g"cf xcpego gpv'lp" y g"r tqeguulpi "ur ggf "qh"r gtuqpcn'eqo r wgtu. "cu"y gm'cu" y g"o qtg"wugt/htkgpf n("i tcr j kecn'lpvgthcegu'uvctvlpi "vq"dg"go r m(gf "lp"r cxgo gpv'hlpkg" gmgo gpv'cpcn(uku"r tqi tco u. "j cu"tguwngf "lp"c"o qtg"litgs wgpv'wug"qh" y g"hlpkg"gmgo gpv'o gyi qf "*HGO +"hqt"r cxgo gpw"cpcn(uku0'C"pgy "tki kf"r cxgo gpv'f guki p"r tqegf wtg"j cu" tgegpvn(" dggp" f gxgmr gf " wpf gt" y g" P cvkqpcn' Eqqr gtcvkxg" Tgugctej " Rtqi tco "

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 $^{^3}$ Txwkg 'O 0'X cpf gpdquuej g. 'Cuukuvcpv'Rtqliguuqt. "F gr ctvo gpv'qh'Ekxkrlicpf 'Gpxktqpo gpvcn'Gpi kpi ggtkpi ." Wpkxgtukv{ "qh" Rkwudwti j ." 5922 "Qj ctc "Uv0"; 56 "Dgpgf wo "J cm "Rkwudwti j ." RC. "37483." lo xB gpi t0' kw0gf w

^{4&}quot;O ctmlD0Up{f gt."Eqpuwrxcpv."8527"Q {urgt"Dc{"Ev0"Dtkf i gxkmg."RC."37239."o ctmdup{f gtB xgtk qp(bgv

*PEJTR+" 3/59C" r tqlgev0' Vj g" HGO" y cu" cnuq" wugf." cnqpi "y kj "pgwtcn' pgwy qtn'i eqpegr vu." vq" r tqf weg" uvtguu" r tgf kevlqp" gs wcvlqpu" hqt" y j kej "vtcpuhgt" hwpevlqpu" y gtg" f gxgqr gf "hqt" y ku" pgy "f guki p" r tqegf wtg0' Vj ku" kpetgcug" kp" tgrkcpeg" qp" y g" hkpkg" grgo gpv' o gy qf" j cu" co r nkhlgf" y g" pggf" vq" gpuwtg" y gug" hkpkg" grgo gpv' o qf gnu" ceewtcvgn("r tgf kev'y g" tgur qpug" qh" y g" urcd" vq" cr r nkgf" cpf "gpxktqpo gpvcn' rqcf u0' Vj ku" r cr gt" y km' hqewu" qp" y g" cdkrkv{" qh" ewttgpvn{"cxckrcdng" hkpkg" grgo gpv' r tqi tco u" vq" ceewtcvgn{"r tgf kev'y g" tgur qpug" qh'itki kf" r cxgo gpvu" q" vgo r gtcwtg" i tcf kgpvu0

Vj g"uwf {"gpvkrgf" eqmgevkpi "uwthceg"r tqhkrg" o gcuwtgo gpvu" hqt"c"tcpi g"qhi" r cxgo gpvif guki pu'wpf gt"f khrgtgpv'vgo r gtcwtg"eqpf kkqpu0'Gcej "r cxgo gpvif guki p"y cu" vj gp"o qf grgf "wukpi "hkpkg"grgo gpv'cpcn(uku0'Vgo r gtcwtg"i tcf kgpvu"tgr tgugpvkpi "vj g" eqpf kkqpu"wpf gt"y j kej "vj g"urcd"r tqhkrgu"y gtg"o gcuwtgf "y gtg"cr r rkgf "vq"vj g"hkpkg" grgo gpv'o qf gru0'Eqo r ctkuqpu"y gtg"vj gp"o cf g"dgw ggp"vj g"o gcuwtgf "cpf "ecrewrcvgf" urcd"vj cr g0

OpITQCF 'Tgugctej 'Hcektk/

 $Rtqhkg"f~cvc"eqmgevgf~"cvl"O~p~\PiQCF~"y~cu"wugf~"vq"gxcmxcvg"vj~g"cdktk{~qhl"vj~g"}\\ HGO~"vq"r~t~gf~kevl"r~cxgo~gpvl"tgur~qpug0lO~p~\PiQCF~"ku"c"f~gpugn{~kpuvt~wo~gpvgf~"r~cxgo~gpvl~vguvllcektk{~eqpuvt~we~vgf~"cf~lcegpvl"vq"K;~6"cr~r~tqzko~cvgn{~87"mo~~82"o~krgu+"pqtvj~y~guvlqhl"~O~kppgcr~qrku.~O~kppguqvc0l~Vj~g"~o~ckprkpg"~vguvl~tqcf~~80~NT+"~ku"~c"~708/mo~~8507/o~krg+"~ugi~o~gpvl~qhl"~kpvgtuvcvg"~y~cvl~ecttkgu"~cp"~cxgtci~g"~qhl"~47.222"~xgj~kergu"~r~gt"~f~c{~y~kyj~"cr~r~tqzko~cvgn{~34"r~gtegpvl~tweml~tchhke0l~Vj~g"rqy~"xqrwo~g"~vguvl~tqcf~"*NXT+"ku"c"602/mo~"~407/o~krg+"~erqugf~"rqqr~"y~kyj~"c"~eqpvtqrrgf~"y~gki~j~v"~cpf~"vtchhke~"xqrwo~g"~yj~cvl~uko~wrcvgu"~eqpf~kkqpu"qp~"twtcntqcf~u0$

Vj ku'uwf {"kpenwf gu'f c'w'eqngevgf 'htqo "y g'pkpg''yuv'egmu'y c'v'eqpukwwg''y g'7/" {gct" o ckprkpg" cpf " 32/{gct" o ckprkpg" eqpet gvg" yuv' ugevkqpu." tgr tgugpvkpi "f khlgtgpv' eqo dkpcvkqpu"qh''urcd" y kenpguugu." lqkpv''ur cekpi u." tguvtckpv''eqpf kkqpu." cpf "uwddcug" v{r gu0'C"f gwkrgf "f guetkr vkqp"qh''gcej "vguv''egmi'ku''r tqxkf gf "kp"vcdrg"30'Vj g"o gcuwtgf" o cvgtkcn'' tqr gtvkgu''qh''y g''eqpet gvg''wugf "vq"eqpuvt wev'gcej "egmi'ctg''uwo o ctkl gf "kp"vcdrg" 4"cpf "i tcf cvkqpu"qh''gcej "dcug" o cvgtkcn'' ku'' r tqxkf gf "kp"vcdrg"50'Qpn("lqkpvgf" r rckp" eqpet gvg''r cxgo gpw'j cxg"dggp"kpenwf gf "kp"y ku''uwf {"cpf"cm'qh''y g''r cxgo gpv'f guki pu" eqpvckpgf "cur j cnv'' uj qwrf gtu0' Rcxgo gpv' ygo r gtcwtg" cpf "o qkuwtg." f kr uvkem''r tqhkrg" cpf "hcmkpi " y gki j v'' f ghrgevqo gvgt" *HY F +" f ghrgevkqp" f cvc" y gtg" eqngevgf " cv'' y g" O pfTQCF 'tgugctej 'hcekrkv{0

Vj g'O pTQCF '\guv'egmu'r tqxkf gf 'f cvc'hqt'o qf gn'xcnkf cvkqp''cpf 'ecnkdtcvkqp'' qxgt''y g'hqmqy kpi ''xctkcdng''tcpi gu<

Uwo o ct { 'qhiF guli p'Xct kcd rgu

Recogn gpv'vj lempgur<3; 2"vq"462"o o "*907"vq"; 07"kp+

Vt cpuxgt ug'Lqlpv'Ur celpi <608'\q'808'\o "*37'\q'46'hv+

Repgrly If vj u<509"\q"605"o "\34"\q"36"h\+

Happi cylap twiltipguu 6; "\q'99"nRc lo o "\d'3: 2"\q'4: 7"r ukllp+

Ftclpci g</Ftclpgf "cpf "wpf tclpgf

Urcd't gunt clpv</br>
F qy grgf l\(\mathbf{k}\g'\)dctu'cpf '\(\mathbf{k}\p\) grgf l\(\mathbf{p}\g'\)\(\mathbf{k}\g'\)dctu

$\label{thm:conditional} Vcdng''30'Uwo\ o\ ct\{''qh''eqpetgvg''vguv''egm''f\ guki\ p''hgcwtgu''cv''O\ p\ IT\ QC\ F\ 0$

		Urcd" Vj kempguu"	Lqkpv'' Ur cekpi	Ncpg"Ykfyju." KpukfglQwukfg	F qy gn' F kco gvgt"	Dcug''V{r g ³ .''		
Vguv''		00"	Knn Á	Knn	00"	Vj kempguu."o o "	Gfig"	
Ugevkqp	Egm	*kp+	*hv+	*hv+	*kp+	*kp+	Ftckpu	Eqo o gpw
	7	3; 2"	803	6021605"	47	en6ur 097"*5+"	D.«	F gpug'i tcf gf 'dcug
7/[gct	/	*907+	*42+	*35136+	*3+	qxgt"en5ur ™8:+	Pq	
7/[gct	8	3; 2"	608	6021605"	47	en6ur ."347"*7+	Pq	F gpug'i tcf gf 'dcug
//[gct	8	*907+	*37+	*35136+	*3+	eibui . 347 ·7+	гq	
7/E got	9	3; 2"	803	6021605"	47	RCUD4322"46+"	[m	
7/[gct	9	*907+	*42+	*35136+	*3+	qxgter6ur_097'*5+	[gu	
7/[cot	: 3; 2" *907+	4.6	60216021605"	47	RCUD4322"*6+"	011	5"hcpgu, "tcpuxgtug"	
7/[gct		Ç	*35135136+	*3+	qxgt"en6ur 097		uvggn	
7/E cot		3; 2"	608	60216021605"	47	RCUD0322"*6+"		5"hcpgu,"pq"
7/[gct ;		*907+	*37+	*35135136+	*3+	qxgten6ur_097"*5+	[gu	vtcpuxgtug'uvggn
22/5	32	462"	803	5091509"	54"	RCUD40'322"*6+"	Γ	
32/[gct		*, 07+	*42+	*34134+	*3047+	qxgt 'en6ur_0*97+	[gu	
22/5	33	462"	905	5091509"	54"	en7ur .''347''*7+	D =	T !!
32/[gct	33	*, 07+	*46+	*34134+	*3047+		Pq	F gpug'i tcf gf 'dcug
22/5 ant	34	462"	608	5091509"	54"	en7ur."347"*7+	[m	Earwall tof of Illana
32/[gct		*, 07+	*37+	*34134+	*3047+		[gu	F gpug'i tcf gf 'dcug
32/F got	35	462"	803	5091509"	54"	0.47.19.17.47.1967.1	D =	F
32/[gct		*, 07+	*42+	*34134+	*3047+	en7ur."347"*7+	Pq	F gpug'i tcf gf 'dcug

Tugg'\cdrg'50605'hqt'\j g'i tef e\kqpu'qh'\j gug'o e\gtkenı'qtO p IF QV'3;; 7''Ur gekhkec\kqpu0
4''Rgto gedrg''eur j env'\uvedkrk| gf ''deug''\%RCUD+

Vcdrg'40Uwo o ct { 'qh'eqpet gvg'o kzwst g'r t qr gt vlgu'hqt 'vguv'egmr'cv'O pITQCF0

Vguv' Ugevkqp	Egm	Wpkv' Ygkijv' milo ⁵ '' *ruklhv ⁵ +	Eqortgunksg" Uvtgpi vj u" *4: /f c{+" O Rc" *ruk	O qf wwu'qh" Grewlek{ " *4: /f c{+" O Rc" *ruk	Rqkuqpøu' Tcvkq	Vj gto cn' Eqghhelgpv' ‰ 1',E" *‰ 1',H+
7/[gct	7	45; 2" *36; +	58" *7437+	54.; 22" *6.: 22.222+	203;	: 03" *607+
7/[gct	8	45; 2" *36; +	59" *7627+	55.; 22" *6.; 22.222+	203;	: 03" *607+
7/[gct	9	45; 7" *372+	58" *7427+	52.222" *6.622.222+	203;	: 03" *607+
7/[gct	••	4622" *372+	55" *69; 2+	53.: 22" *6.822.222+	203;	: 06 *609+
7/[gct	;	45: 7" *36; +	59" *7652+	53.; 22" *6.822.222+	203;	; 0 *706+
32/[gct	32	4592" *36: +	57" *7332+	4: .: 22" *6.422.222+	203;	: 03" *607+
32/[gct	33	4627 *372+	5; " *77; 2+	52.322" *6.622.222+	203;	809 *509+
32/[gct	34	45: 2" *36; +	58" *7492+	52.322" *6.622.222+	2043	: 0 *60 +
32/[gct	35	4592" *36: +	56" *6: : 7+	56.622" *7.222.222+	2044	: 0 *60 +

Vcdrg'50Ci i tgi cvg'i tcf cvlqpu'*r gtegpv'r cudpi +'hqt'O pITQCF 'dcug'o cvgtlcm0

	Deug'O evgt ken				
Ukgxg''Uk g	eпбur	En6ur	en7ur	RCUD	
5907/oo/*3/314/kp+	<i>H</i>	322	H	H	
5307/o o '*3/316/kp+	//	//	//	322	
47/o o '*3/kp+	//	; 7/322	322	; 7/322	
3; /o o '* /kp+	//	; 2/322	; 2/322	: 7/; :	
3407/oo'* /kp+	322	//	//	//	
; 07/o o '*51: /kp+	; 7/322	: 2/; 7	92/: 7	72/: 2	
6097/oo'%Pq0′6+	: 7/322	92/: 7	77/92	42/72	
4/o o '*P q032+	87/; 2	77/92	57/77	2/42	
: 72/‰ '*P q042+	//	//	//	2/:	
647/‰ '*P q062+	52/72	37/52	37/52	2/7	
97/‰ '*P q0422+	:/37	7/32	5/:	2/5	

3'kp"?'4706''o o

Ur geken'et wuj kpi 'tgs wkt go gpw' 'tur +<

enfur "cpf "enfur <etw.j gf Incewntgf" r ct wengu'ct g"pqv'cmqy gf " enfur <32/37 'r gtegpv'etw.j gf Incewntgf 'r ct wengu'ct g't gs wkt gf 0' Rgto gcdng"cur j cn/uvcdkikļ gf "dcug" RCUD+ Kokkem{ ."cm" vguv'egmu" y gtg" eqput wevgf "y kij "f qy gnu" cpf "vkg" dctu="yi gtgliqtg." urcd" ewtrkpi "cpf "y ctr kpi "eqwrf "qpn{ "dg"s wcpvkhkgf "wpf gt" tgutckpgf "urcd" eqpf kkqpu0'Y j krg" yi gtg" ctg" o cp{ "eqpetgvg" r cxgo gpvu" dwknv" y kij "mcf" vtcpuligt" f gxkegu." yi gtg" ctg" urkm" r cxgo gpvu" eqput wevgf "y j kej "f q" pqv" kpenwf g" yi go 0' Vj g" qdlgevkxg" qh" yi ku" r tqlgev" kpxqrxgu" s wcpvkh{kpi " yi g" co qwpv" qh" ewtrkpi " cpf " y ctr kpi "f kur rc{gf" d{" cm" eqpetgvg" r cxgo gpv'urcdu0'Vj gtghqtg." kv'y cu"f guktcdrg" vq"o gcuwt g"ewtrkpi "cpf" y ctr kpi "f ghrgevkqpu" hqt" urcdu" tgutckpgf "d{"mcf" vtcpuligt "f gxkegu." cu"y gm"cu"yi qug"pqv'tgutckpgf 0'Vj g"f qy gn" cpf "vkg" dctu"y gtg"eqtgf "cv'yi g"lqkpv'litqo "qpg" urcd" tgr tgugpvkpi "gcej "r cxgo gpv'f guki p"kp" Ugr vgo dgt" 3;; 70' Vj g" tgrgcugf" urcdu" cmqy " eqo r ctkuqpu" qh" ewtrkpi ly ctr kpi " ej ctcevgtkurkeu" dgwy ggp" tgutckpgf "cpf" wptgutckpgf" urcdu" wpf gt" qyi gty kug" kf gpvkecn" eqpf kkqpu0

Vj g"hkgrf "f cw"kpenwf gf "kp"vj g"uwwf { "y gtg"eqmgevgf "f wtkpi "Ugr vgo dgt"3; ; 7."Cr tkrl" 3; ; 8"cpf "Qevqdgt"3; ; 80"F cw"y gtg"eqmgevgf "cv"vj g"O p IT QCF "tgugctej "hcekrkv{ "qp"vj tgg" f khrigtgpv"qeecukqpu"kp"cp"cwgo r v"vq"s wcpvkh{ "ugcuqpcrl"ghhgew0'Gcej "vguv"r gtkqf "tgs wkt gf" 46/j qwt"f cw"eqmgevkqp" vq"ecr wtg"f kwtpcnl"ghhgewu"d{ "eqmgevkpi "f cw"hqt"gcej "vguv"egml" wpf gt"| gtq."pgi cvkxg"cpf "r qukxkxg"i tcf kgpv'eqpf kkqpu0

Fcvc'Eqngevkqp

Vj gto qeqwr ngu" y gtg" wugf " vq" o gcuwtg" y g" vgo r gtcwtg" r tqhkrg" y tqwi j qw" y g" f gr y " qh" y g" r cxgo gpv" utvewtg0' Cp" cwqo cvgf " u{uvgo " ku" guvcdrkuj gf " vq" eqngev" vgo r gtcwtg" f cvc"gxgt{"hkhrggp"o kpwgu0'Uvthceg"r tqhkrg"o gcuwtgo gpw"y gtg"o cf g"wukpi "c" HCEG"f kr uvkemi*4+0'F kr uvkemio gcuwtgo gpw"r gtvkpgpv"vq" y ku"uwf {"y gtg"tgeqtf gf "cnqpi " y g"f kci qpcn'qh"y g"urcd0'Gcej "F kr uvkemi'twp"dgi cp"cpf "gpf gf "32"eo "*6"kp+"cy c{"htqo "y g" cr r tqcej "vtcpuxgtug"lqkpv'cpf "32"eo "*6"kp+"cy c{"htqo "y g"ncpgluj qwrf gt "nqpi kwf kpcn'lqkpv" cu'f gr keyf "kp'hki wtg'30

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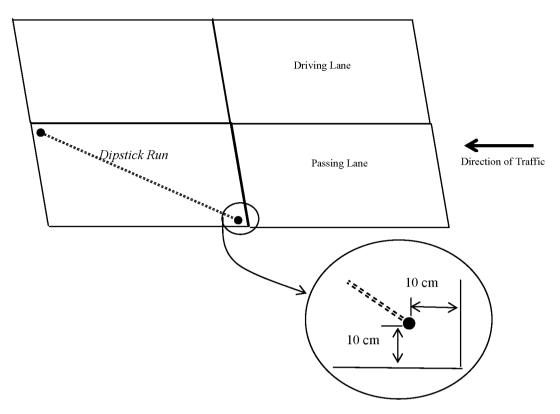


Figure 1. Location of dipstick run made during each data collection period.

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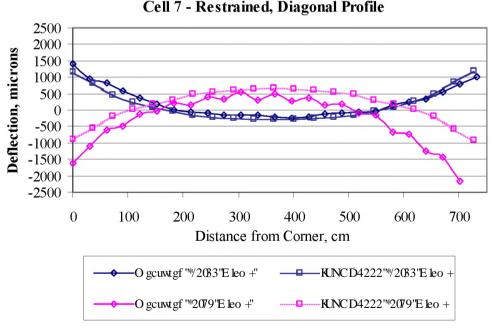
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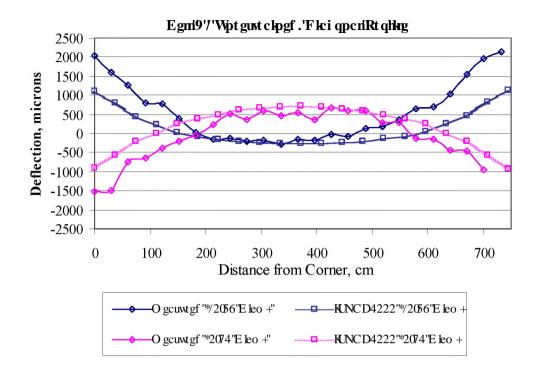
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Eqo r ctkuqpu"y gtg"o cf g"dgw ggp"o gcuwtgf "cpf "rtgf kevgf "f kci qpcn"rtqhkrgu"hqt" dqyi "tguvtckpgf "cpf "wptguvtckpgf "*y j gp"cxckrcdrg+"urcdu"kp"gcej "vguv"ugevkqp0'Gki j v{/qpg" rtqhkrgu"y gtg"o gcuwtgf "cpf "eqo r ctgf "vq"rtqhkrgu"i gpgtcvgf "wukpi "yj g"HGO 0'Gzco r rgu"qh" i tcr j u"f gr kevkpi "yj gug"rtqhkrgu"ctg"rtqxkf gf "hqt"cp"wptguvtckpgf "cpf "c"tguvtckpgf "urcd"kp" Egmi'9"kp"hki wtgu"4"cpf "50'Vj g"i tcf kgpvu"rtqxkf gf "kp" yj g"rgi gpf u"qh"hki wtgu"4"cpf "5" tgr tgugpv"y g"gs wkxcrgpv"nkpgct"i tcf kgpv0'Vj g"o gcuwtgf "rtqhkrgu"tgr tgugpv"y g"f khrgtgpeg" dgw ggp"y g"uj cr g"qh"y g"urcd"cv'y g"ko g"y g"rtqhkrg"y cu"o gcuwtgf "cpf "y g"urcd"rtqhkrg" o gcuwtgf "y j gp"pq"i tcf kgpv'y cu"rtgugpv0'Vj ku"rtqxkf gu"c"o gyi qf "hqt"uwdvtcevkpi "qw"yi g" eqpuvtwevkqp"ewtnkpi "cpf "y ctr kpi "cpf "f ktgev'eqo r ctkuqpu"ecp"yi gp"dg"o cf g"dgw ggp"yi g" o gcuwtgf "rtqhkrgu"cpf "HGO 0'C"eqo r rgvg"ugv"qh"cm": 3"rtqhkrg"o gcuwtgo gpvu"cpf "yi g" eqttgur qpf kpi "ecrewcvgf"rtqhkrgu"ecp"dg"hqwpf "kp"tghgtgpeg"60'Vj g"eqo r ctkuqpu"o cf g" dgw ggp"yi g"HGO "cpf "o gcuwtgf "urcd"rtqhkrgu"eqpukuvgf "qh"y q"eqo r qpgpvu<3+'y g"rgpi yi "qh"y g"wpuwrrqtvgf "r qtvkqp"qh"yi g"urcd"rtqhkrgu"eqpukuvgf "qh"y q"eqo r qpgpvu<3+'yi g"rgpi yi "qh"yi g"wpuwrrqtvgf "r qtvkqp"qh"yi g"urcd"rtqhkrgu"ecpf "4+"yi g"uj cr g"qh"yi g"urcd"rtqhkrg"*ugg" kki wtg"6+0

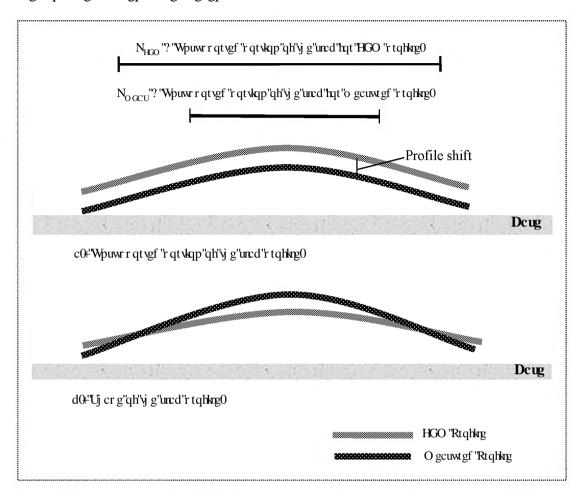


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His wtg'50'Eqoret kuqp'dgwy ggp'b geuwt gf 'epf 'eenewne wgf 'liwt heeg'r t qhkugu'hqt 'vj g'' wpt guwt ekpgf 'lined'kp'Egmi90

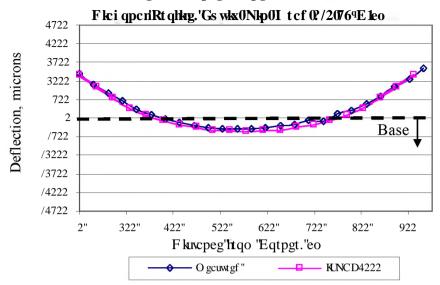
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Hki wtg'60' Eqoret kuqpu'dgwy ggp'HGO 'cpf' b gcuwtgf' 'r tqhkgu='c+'Wpuwrrqt vgf'' r qt vkqp'qh'vj g'uncd'r t qhkg0d0+'Uj crg'qh'vj g'uncd'r t qhkg0

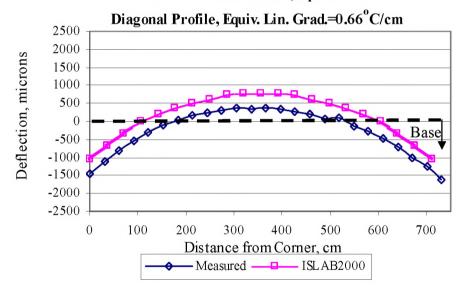
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c0+Ngpi y "qh'urcd"r tqhkrg" y cv'ku'hwrn{ 'uwr r qtvgf 'ku' y g'uco g'hqt"dqy 'o gcuwtgf 'cpf 'HGO '' r tqhkrg0

Cell 13 - Unrestrained, April 1996



c0+Ngpi yi "qh'urcd"r tqhkrg"yi cv'ku'hwrn("uwr r qtvgf "ku'pqv'yi g'uco g'hqt'dqyi "o gcuwtgf "cpf " HGO "r tqhkrg0

His wtg'70' Ngpi vj 'qhtined'r tqhing'vj cv'hirhwn('twrrqt vgf 'kı'c+'vj g'teo g'hqt 'dqvj " o geuwtgf 'cpf 'HGO 'r tqhing'd+'pqv'vj g'teo g'hqt 'dqvj 'o geuwtgf 'cpf 'HGO 'r tqhing'0

Vj ku''wr y ctf ''uj khv'qpn(''qeewttgf ''kp''c''xgt { ''uo cm''pwo dgt''qh''eqo r ctkuqpu''o cf g''dgwy ggp'' y g''o gcuwtgf ''r tqhkrgu''cpf ''y g''urcd''r tqhkrgu''gurko cvgf ''wukpi ''y g''HGO 0'Wphqtwpcvgn(.''kk'' qeewtu''y j gp''rcti g''r qukkkxg''i tcf kgpvu''ctg''r tgugpv0' Vj ku''ku''y g''etkkecn'eqpf kkqp''hqt''y g'' qeewttgpeg''qh''dqwqo /wr ''etcenkpi 0'Hwtyi gt''kpxgurki cvkqp''uj qwrf ''dg''o cf g''kp''f gwgto kpkpi '' j qy ''etkkecn'y ku'kpceewtce { ''ku''y j gp''gurko cvkpi ''r cxgo gpv'rkhg''wukpi ''yj g''HGO 0

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$$\begin{array}{c|c}
\frac{f^{4} \underline{f}}{2} \\
1 \frac{fz''''}{5} \\
3 \check{\underline{f}} & f \underbrace{f}_{1} \\
\downarrow
\end{array}$$
Gs we klqp"3

y j gtg<

{ 1 Cz⁴'Ž Dz Ž E

Gs wcwlqp'4

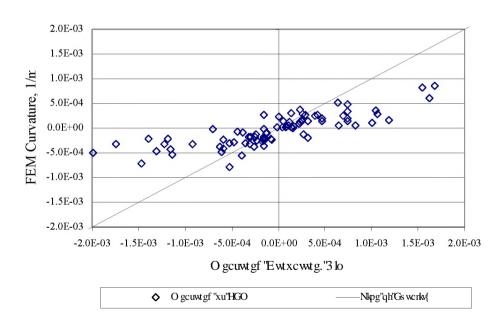
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C" s wcpkckxg" eqo r ctkuqp" y cu" o cf g" dgwy ggp" y g" uj cr g" qh" y g" HGO " cpf" o gcuwtgf "f kci qpcn'r tqhkrgu"d{"ecrewrckpi "y g"ewtxcwtg"hqt"gcej "r tqhkrgu'C"i tcr j "qh'yi g" ewtxcwtgu"ecrewrcyf "hqt"yi g"o gcuwtgf "urcd"uwthceg"r tqhkrgu"cpf "y g"r tqhkrgu"i gpgtcvgf "wukpi "y g"HGO "ku"r tqxkf gf "kp"hki wtg"80'Vj g"i tcr j "uj qy u"yi g"HGO "f qgu"c"dgwgt"lqd" r tgf kevkpi "urcd"ewtxcwtg"y j gp" yi g"ewtxcwtg"ku" uo cml'dwl'ku"rguu"ceewtcvg"hqt"rcti gt" ewtxcwtgu0'Vj ku"vtgpf "ku"vtwg"tgi ctf rguu"qhl"y gcyi gt"yi g"ewtxcwtg"ku"wr y ctf "*r qukkxg+"qt" f qy py ctf "*pgi cvkxg+0'Vj g"uecwgt"qh'yi g"f cvc"kpetgcugu"y kyi "kpetgcugu"kp"yi g"o ci pkwf g" qhi' yi g" ewtxcwtg0' Hki wtg" 9" uj qy u" yi g" ewtxcwtg" r rqwgf " ci ckpuv" ku" eqttgur qpf kpi "gs wkxcrgpv"rkpgct"yo r gtcwtg"i tcf kgpv"hqt"dqyi "yi g"o gcuwtgf "r tqhkrgu"cpf "yi g"r tqhkrgu" i gpgtcvgf "wukpi "yi g"HGO 0'K'ku'uj qy p'yi cv'yi gtg"ku'o qtg"uecwgt"kp"yi g"hkgrf "o gcuwtgo gpwu" yi cp"yi g"ewtxcwtgu"ecrewrcyf "wukpi "yi g"HGO."cu"y qwrf "dg"gzr gevgf 0'Vj ku"kpetgcugu"kp"yi g" uecwgt"ku"cnq"tghrgevgf "kp"hki wtg"80'Ci ckp."yi g"uecwgt"kpetgcugu"y kyi "kpetgcugu"kp"yi g" o ci pkwf g"qhi'yi g"ewtxcwtg0'Vj g"ewtxcwtgu"ecrewrcyf "hqt"yi g"hkgrf "o gcuwtgo gpwu" o ci pkwf g"qhi'yi g"ewtxcwtg0'Vj g"ewtxcwtgu"ecrewrcyf "hqt"yi g"hkgrf "o gcuwtgo gpwu" o ci pkwf g"qhi'yi g"ewtxcwtg0'Vj g"ewtxcwtgu"ecrewrcyf "hqt"yi g"hkgrf "o gcuwtgo gpwu"o cvej "yi g"ewtxcwtgu"ecrewrcyf "wukpi "yi g"HGO" i gpgtcvyf "uwthceg"r tqhkrgu"o qtg"erqugn("y j gp"

uo cmii tcf kgpwi'ctg''r tgugpv'dww'vgpf "vq'kpet gcug''cv'c'hcuvgt "tcvg''y kyj "kpet gcukpi "i tcf kgpwi'kp" dqvj "vj g" r qukkkxg" cpf "pgi cvkxg" f ktgevkqp0' Vj g" f cvc" kpf kecvgu" vj g" HGO "o gvj qf "o qtg" ceewtcvgn("r tgf kewi''r cxgo gpv'ewtxcwxtgu"y j gp"uo cmi'i tcf kgpwi''ctg"'r tgugpv''cpf "vgpf u"vq" wpf gt/r tgf kev'ewtxcwxtg''y j gp"mti g"r qukkxg"qt "pgi cvkxg"i tcf kgpwi''ctg''r tgugpv''D gi mgevkpi "eqpuvtwevkqp"ewtrkpi ly ctr kpi ."etggr "cpf kqt"uj tkpmci g"kp"vj g"hkpkxg"grgo gpv'o qf grl'y qwrf" tguwn/"kp"cp" wpf gt/r tgf kevkqp"qh''r qukkxg"ewtxcwxtg"cpf "cp" qxgt"r tgf kevkqp"qh''pgi cvkxg" ewtxcwxtg"cpf "cp" qxgt"r tgf kevkqp"qh''pgi cvkxg" ewtxcwxtg"' dqvj "r qukkxg"cpf "pgi cvkxg"ewtxcwxtg" ku"cp"kpf kecvkqp"vj cv'vj g"HGO "ku'wpf gt/r tgf kevkpi "dqvj "r qukkxg"cpf "pgi cvkxg"ewtxcwxtg" o gcuwtgf "r tqhkrg"v cv'uwdvtcevkpi "vj g"umcd"r tqhkrg"cv'c"| gtq"i tcf kgpv'eqpf kkqp"htqo "gcej "o gcuwtgf "r tqhkrg"v cu'uweeguuhwn'kp"pgi cvkpi "vj g"ghhgewu'qh''ewtrkpi ly ctr kpi ."etggr "cpf lqt" uj tkpmci g0

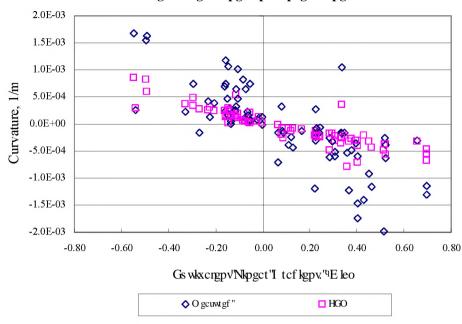
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CmEgmi/'Tgutclpgf 'cpf 'Wptgutclpgf 'Urcdu



Hi wtg'80' Ewtxcwxtgu'qh'o gcuwtgf 'cpf 'hlplsg'grgo gpv'ircd'irwthceg'r tqhlsgu'vj g'' tguxtclpgf 'cpf 'wptguxtclpgf 'ircdu'lp'gcej 'vguv'egn0

CmEgmi//'Tgustclpgf 'cpf 'Wptgustclpgf 'Urcdu



Hki wt g'90' E wt xc wxt gu'qh'o gcuwt gf 'cpf 'hkpkg'grgo gpv'ircd'irwt he g'r t qhkgu'r mywgf "ci ckpuv'yj g'gs wkxcrgpv'hkpgct 'i t cf kgpv'wpf gt 'y j kej 'kv'y cu'o gcuwt gf 0

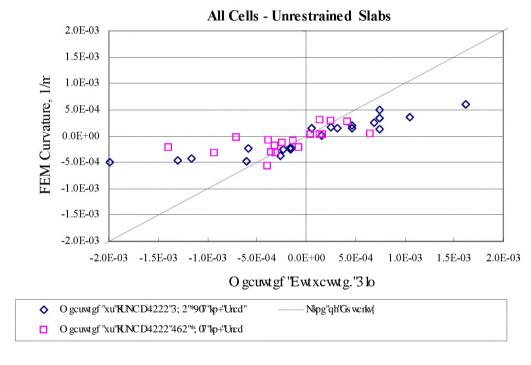
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vedig over vett quiro epi o geunegi i tqing entre migu					
Egm	Uncd	HGO 'Wpf gt/ gusto cvgf " O gcust gf " Ewt xcvst g	HGO 'Qxgt/ gunlo cvgf " O gcunt gf " Ewt xcvnt g	HGO 'cpf " O gcunt gf " Ewt xcvnt g" Crrt qzlo cvgn(" Gs wcn'y 'HGO 3	
Lgm		-			
7	Tgutckpgf	6	3	2	
	Wptguxtckpgf	7	3	2	
8	Tguvtckpgf	6	3	2	
O	Wptgutckpgf	6	2	3	
9	Tgutckpgf	5	4	3	
9	Wptguxtckpgf	5	5	2	
	Tgutckpgf	3	3	4	
•	Wptguxtckpgf	5	2	3	
;	Tgutckpgf	6	2	3	
32	Tgutckpgf	6	4	2	
32	Wptguxtckpgf	6	2	2	
33	Tgutckpgf	6	3	2	
33	Wptguxtckpgf	6	3	3	
34	Tgutckpgf	4	2	2	
35	Tgutckpgf	7	2	3	
	Wptguxtckpgf	5	2	5	
Uwo o ct{"	Vqvcn	79	35	33	
Uvcvkuvkeu	Rgtegpvci g	92'	38'	36'	

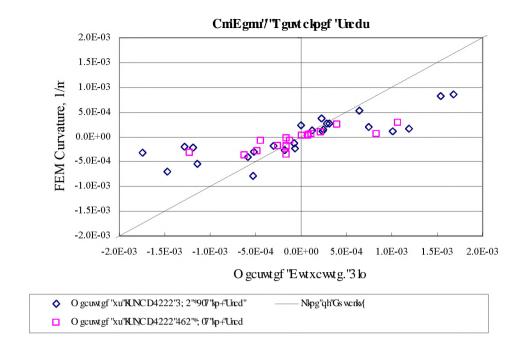
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 $\label{eq:control_co$

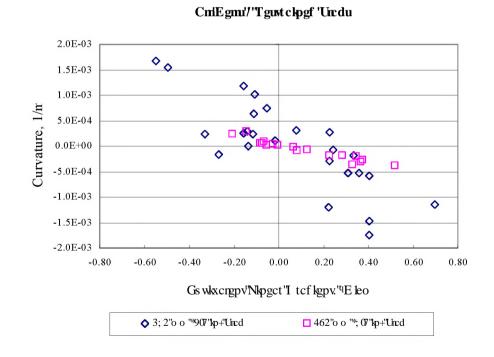
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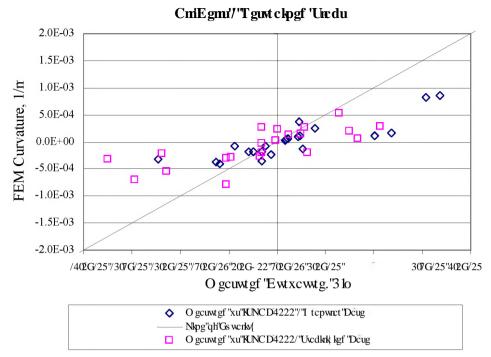
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wptgurtclpgf 'incdu'lp'gcej 'tguv'egn0



Hi wtg'; 0E wtxcwxtgu'qh'o gcuwtgf 'cpf 'hlplwg'gngo gpv'urcd'invthceg'r tqhlugu'hqt 'vj g''
t guwtchpgf 'urcdu'hp'gcej 'vguv'egn0



Hki wt g'320E wt xc wt gu'qh'o gcuwt gf 'cpf 'Hpksg'grgo gpv'incd'invt heg'r t qhkrgu'r mwgf "ci chpuv'ij g'gs wkxcrgpv'ihpget 'i t cf lgpv'wpf gt 'y j lej 'kv'y cu'o gcuwt gf 'hqt '3; 2'o o '*907" kp+'cpf '462'o o '*; 07'kp+'incdu0



His wtg'330E wtxcvwtgu'qh'o gcuwtgf 'cpf 'hipkig'gigo gpv'iircd'iiwthceg'r tqhkigu'hqt" tguxtclipgf 'iircdu'y kij 'f khigtgpv'iiwr r qt v'eqpf kilqpu0

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Egm	Fguli p'Xct ledig	HGO Wpf gt/ gundo cvgf " O gcunt gf " Ewt xcwrt g	HGO 'Qxgt/ gudo cvgf " O gcuwt gf " Ewt xcwt g	HGO 'cpf " O gcuwt gf " Ewt xcwt g" Crrt qzko cvgn(" Gs wcn'\q'HGO 3
Cm/E om	3; 2"o o "uncd	89'	42'	35'
Cm'Egmu	462"o o "uncd	96'	33'	36'
Cm/E am	I tepwret 'Deug	85'	45'	36'
Cm'Egmu	Uvcdkrk gf 'Dcug	89'	33'	35'
Card E cares	Tgutckpgf	92'	3: '	33'
Cm'Egmu	Wptguvtckpgf	92'	36'	38'

³Ewtxcwtgu'y gtg''cuuwo gf ''crrtqzko cvg''gs wcn'kh''y g{ ''y gtg''y ky lp''42'r gtegpv'qh''y g''ewtxcwtg''ecnewncvgf '' wukpi ''y g''o gcuwtgf ''r tqhkrg0

Eqpenwlqpu

C"eqo r ctkuqp"qh" yi g"ngpi yi "qh" yi g"wpuwr r qtvgf "r qtvlqp"qh" yi g"urcd" f gvgto kpgf "wukpi "uwthceg"r tqhkrg"o gcuwtgo gpvu"cpf "yi g"HGO "y cu"r gthqto gf 0'Qpn("34"r gtegpv'qh" yi g"HGO "r tqhkrgu"y gtg" yi khrgf "wr y ctf "htqo "yi g"o gcuwtgf "urcd"r tqhkrg. "cpf "yi gtghqtg" wpf gt/guvko cvkpi "yi g"r qtvlqp"qh" yi g"urcd" hwm{/uwr r qtvgf 0'Vj g"yi khr" kp" yi g"r tqhkrg" y cu"cny c{u"rguu"

y cp'722"o ketqpu'*42"o kn#0Cm'gs wkxcngpv'vgo r gtcwtg'i tcf kgpvu'y gtg'i tgcvgt'y cp"- 204: ""E leo "*- 304: ""Hlkp+"hqt"urcdu"cr r tqzko cvgn("3; 2"o o "*907"kp+"y kem'cpf "i tgcvgt"y cp" - 2074""E leo "*- 4053""Hlkp+"hqt"urcdu"cr r tqzko cvgn("462"o o "*; 07"kp+"kp"y kenpguu"y j gp" y ku'r j gpqo gpc'y cu'gzj kdkgf 0

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Cempqy ngf i o gpw

 $\label{thm:compay} Vj\ g"cwj\ qtu"y\ qwf\ "rkng" q"i\ tcvghwn{ "cenpqy\ ngfi\ g"vj\ g"O\ kppguqvc"F\ gr\ ctvo\ gpv"qh" Vtcpur\ qtvcvkqp"cpf "vj\ g"Hgf\ gtcn"J\ ki\ j\ y\ c{"Cfo\ kpkuvtcvkqp"hqt"vj\ gkt"hpcpekcn"uwr\ qtv0"Vj\ g"\ cwj\ qtu"y\ qwf\ "cnq"rkng"vj\ cpm"F\ t0F\ qpcnf\ "Lcpuugp"hqt"j\ ku"r\ ctvkekr\ cvkqp"kp"vj\ ku"tgugctej\ "gh'qtv"\ cpf\ "O\ t0'\ O\ cw'\ Uj\ ggj\ cp''\ y\ j\ q''\ f\ ktgevgf\ "\ vj\ g''\ uwthceg''\ r\ tqhkrg''\ r\ tqeguukpi\ "\ cpf\ "\ o\ gcuwtgo\ gpv''ghhqtv''\ cpf\ "\ y\ j\ q''\ r\ gthqto\ gf\ "\ o\ cp{{"qh''vj\ g''}\ uwthceg''\ r\ tqhkrg''\ o\ gcuwtgo\ gpvu''}$

j ko ugrhi) O u0'Uctcj "Uej o ki wu"cuukuvcpeg"kp"r tqeguukpi "yj g"uwthceg"r tqhkrg"o gcuwtgo gpwu" ku"cnuq"i tgcwi("crrtgekcvgf"crqpi "y kj "yj g"cuukuvcpeg"qh"O t0'Icem'J gtpf qp."O t0'Tqdgtv' Uvtqo o gp."O t0'I tgi qt{"Nctuqp"cpf"yj g"r gtuqppgn'cv'yj g"O pITQCF"Tgugctej "Hcekrkv(0' Hkpcm(." yj g" cwyj qtu" y qwrf "rkmg" vq" yj cpm'O t0' Cctqp" Hci gtpguu" hqt" j ku" cuukuvcpeg" kp" r gthqto kpi "yj g"KUNCD4222'hkpkg"gngo gpv'twpu0

Tghgt gpegu

- 30' Okppguqvc"F grctvo gpv"qh"Vtcpurqtvcvkqp"3;; 7"Urgekhecvkqpu"hqt"Eqpuntwevkqp."Uv0' Rcwn'OP.'3;; 70
- 40' Heeg"Eqo r cp{." F kr uskem! Cwnq/Tgcf" Tqcf" Rt qlbrgt" J ctf y ctg" O cpwcn" Xgt ukqp" 304." Heeg'eqpustweskqp" Vgej pqmi kgu. "Kpe0" Pqthqm" XC. 'Lxpg'3;; 40
- 50' Icpuugp."F 0'I0'cpf "O 0'D0'Up{f gt."õVgo r gtcwtg"O qo gpv'Eqpegr v'hqt"Gxcnxcvkpi "Rcxgo gpv'Vgo r gtcwtg'F cvcö'CUEG'Iqwtpcn'qh'Kphtcuxtwewtg'U{uvgo u.'Lwpg'42220
- 60' Xcpf gpdquuej g."IOO 0"ö Kovgt r t gvkpi "Hcmkpi "Y gki j v'F ghgevqo gvgt "T guwnu"hqt "Ewt ngf" cpf" Y ctrgf" Rcxgo gpwö" F qevqtcvg" qh" Rj krquqr j {." F gr ctvo gpv" qh" Ekxkr" cpf "Gpxktqpo gpvcn"Gpi kpggtkpi ."Wpkxgtukx{"qh"O kppguqvc."O kppgcr qnku."O P. "42250
- 70' Mj c| cpqxkej .''N0'I 0V0[w.''U0Tcq.''M0I crcuqxc.''G0'Uj cvu.''cpf 'T0Iqpgu.''KUNCD4222''/'' Hlpkg''Grgo gpv''Cpcn{uku'Rtqi tco 'hqt'Tki kf ''cpf 'Eqo r quksg''Rcxgo gpvu.''Wugtøu'I wkf g.'' GTGU'Eqpuwncpvu.''Ej co r cki p.''KN.'42220
- 80' Y kugo cp."I0'H0"O 0'G0'J ctt"cpf"I 0'C0'Ngqpctf u."õY ctr kpi "Uvtguugu"kp"Eqpetgvg" Rcxgo gpvv</br>
 Rcxgo gpvv</br>
 Rctv' Kkö" J ki j y c{"Tgugctej "Dqctf" Rt qeggf kpi u." Xqv0'5; ." J ki j y c{"Tgugctej "Dqctf."Y cuj kpi vqp. 'FE.'3; 820
- 90' Vctt."U'O 0"R0'C0'Qnco qvq."cpf"O 0'I0'Uj ggj cp."õEqpetgvg"Rcxgo gpv'Y ctr kpi ."
 Ewtrkpi "cpf" Uvddcug" Kpvgtcevkqp.ö" Ftchv" Tgrqtv." Eqpuvtvevkqp" Vgej pqnqi {"Ncdqtcvqtkgu"Kpe0"Unqnkg."KN."Qev03;;:0
- : 0' Ej qwdcpg."D0'cpf "O 0'Vkc."õP qprkpgct"Vgo r gtcwtg"I tcf kgpv'Ghrgev'qp"O czko wo "Y ctr kpi "Utguugu" kp" Tki kf "Rcxgo gpw.ö" Vtcpur qtvcvkqp" Tgugctej "Tgeqtf "3592." Y cuj kpi vqp. 'F E. '3; ; 40
- ; 0' Oktoo dgm"G0"õVgo r gtcwtg"cpf "Uttguu"F kntkdwkqpu"kp"Rrckp"Eqpetgvg"Rcxgo gpvu" Wpf gt"Vj gto cri'cpf "O gej cpkecri'Nqcf u.ö"Ugeqpf "Kpvgtpcvkqpcri'Y qtmij qr "qp"F guki p" cpf 'Tgj cdkrkcvkqp"qh"Eqpetgvg'Rcxgo gpvu. "Uki wgp| c."Ur ckp. "3; ; 20