

गोलभेंडा खेती प्रविधि



नेपाल सरकार
कृषि विकास मन्त्रालय
कृषि विभाग
तरकारी विकास निर्देशनालय
खुमलटार, ललितपुर

प्रकाशक

नेपाल सरकार

कृषि विकास मन्त्रालय

कृषि विभाग

तरकारी विकास निर्देशनालय

खुमलटार, ललितपुर, फोन नं.: ५५२३७०९

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प्रकाशन क्रम

४-२०६९/२०७०

प्रकाशन मिति

असार २०७०

प्रकाशन संख्या

१००० प्रति

लेखन तथा सम्पादन

डा. गजेन्द्रसेन निरौला

श्री अनिलकुमार आचार्य

श्री वासुदेव सुवेदी

ufhe\$ vtl kljlw

kl/ro

ufhe\$sf] j] flgs gfd *Lycopersicon esculentum*, Mill xf] . of] :j; lrt (Self pollinated) ; fhfg] l (Solanaceae) kl/jf/df kg] Ps jifl6 afnl xf] . ufhe\$sf] ptklQ blf0f cd/sfsf] k?, OSj\$ / af]hleof lfqsf] Pl08h kj {dfnfd ePsf] dflgPsf] 5 . ufhe\$ km ; #f/sf ; a}ju6] vfg dg k/fpg] Ps kdv t/sf/L afnl xf] . of] ; #f/e/L kflnt / wj}hluufdf vtl ul/g]t/sf/L dWb]klg Ps xf] . o; sf] vtl t/f0{tyf leql dwzdf lx\$ bdf xG5 . dWb] tl{kxf8sf] %)) -!))) Id6/ prf0df c; f/blv sflt\$; Dd ptkfbg xG5 . ufhe\$sf] Aoj; flos vtlnf0{ gkfn ; /sf/n] kfl; fxg ubI cfpst\$. o:fsf] vtl laz]fu/L sfe\$] kfFvfn ks\$ lfq, dsjfgk/sf] gdf6f/, ah]f/fxl / xflvfhf, ; nfxlsf] 0{j/ k/ ks\$ / wglffsf] 9Ns\$ / ks\$, dxf] /lsf] lx/fk/ ks\$, ; Vtsf] x/X] ks\$ nufPstf bzsf laleG lfqdf xgub5 . cf=a@)^.*.(sf] tYofl cg; f/ gkndf !^,\$!^ x\$6/df ufhe\$sf] vtl e0{@,*@,\$*! dl6\$ 6g ufhe\$ ptkfbg ePsf] blvG5 eg] o; sf] ptkfbstj !&=! d\$ 6g kl t x\$6/ /xsf\$. gkfnsf] ufhe\$ vtl df ef/tlo j0fz\$/hftsf] afxNotf 5 eg] gkfnsf] cfkmg} ufhe\$sf] j0fz\$/hft >hgfsf] ptkfbg / uOf: t/ /fd] dflgPsf] 5 .

ufhe\$sf] kfl6s tJ

ufhe\$fnf0{ksfP/ t/sf/lsf] ?kdf cyjf sfF}; nfbf] ?kdf vf0G5 . o; nf0{kzflvg u/L s]k; ; , r6gl, crf/ / l8Aafj Gbl kmnsf] ?kdf klg kpf] ul/G5 . o; sf cltl/Qm ufhe\$fnf0{dxTj kOf{kfl6s ; f]sf] ?kdf ; d] ln0G5 . h; af6 le6fldg P, le6fldg jL, le6fldg jL#, le6fldg jL^, lgsf] lgs Pl; 8, kmf]ns Pl; 8, jfofl6g, le6fldg ; L, le6fldg 0{ kff; , SoflN; od, kmkmf; , Doflgl; od, ; Nkmf; , fl8od, Snfl/g cflb tJx? kf0G5g\ . ufhe\$df kl:t dfqdf ljleG ksf/sf vlgh kbfi{ le6fldgx? kf0G5g h; nf0{lgdgf; f/ lbOPsf\$.

!)) uld kfs\$ /ft]ufhe\$df kf0g]tTjx?

Sofnf]l (Calories)M	! *
hDdf af] f\$]dfqf (Total Fat)M)=@ uld (g)
kfgl (Water)M	(\$=% uld (g)
Sfh]6\$ (Cholesterol)M) ldnluId (mg)
; fl8od (Sodium)M	% ldnl uld (mg)
kffl; od (Potassium)M	@#& ldnl uld (mg)
Sofnl; od (Calcium)M	!) ldnl uld (mg)
Sfj fxf08\$ (Total Carbohydrate)M	#=(uld (g)
le6fldg l; (Vitamin C)M	!#& uld (g)
kflg (Protein)M)=** uld (g)

(Source: USDA)

ufhe\$df ljleG ksf/sf cflwo uOfx? xG5g\ . ufhe\$fn] lolfi6\$ /; nf0{a9fp65 h; n] /utnf0{; kmf /fVg] sfd ub5 . o; n] dv bVg] ckr xg] vfl nflu] bd cflb h:tf /f]sf]lj?4df klg /fd] sfd ub5 . lgoldt ?kdf ufhe\$ vfgn]k?if-uyl, kmf; f] / cfbf cflbdf SofG; / xg]vt/f sd xg]; d] kfOPsf\$.

ufhe\$sf hftx? / Itgsf]j ul\$/Of

lj=;=@)^* ; Dd gkndf @(j6f vhf ; lrt (Open pollinated) / j0fz\$/ (Hybrid) hftx? btf{tyf khlst ePsf] 5 . ufhe\$fnf0{ljleG tl/sfaf6 aul\$/Of ul/Psf] 5 eg]ljleG ju\$ ufhe\$sf ljleG hftx? xG5g\ ljz]f u/L af\$sf]a[4 tyf kmh kmng]:jefj adflnd ufhe\$fnf0{ b0{lsf; ddf j ul\$/Of ug{; lsG5M

- xff]j f\$ xg]hft÷l86/ldg\$ (Detetminate)
- clnf]j f\$ xg]hft÷0g l86/ldg\$ (Indetetminate)



l86/l8g6M/f8f 0g l86/l8g6M>hgf

xfj]f]f] xg]hft÷l86/l8g6 (Detetminate)

o; lsl; dsf] ufhe8fsf] af8 sxl xff] Ps}k6s kmh kmNg] tyf km kfSg]lsl; dsf x65g . o; df kfoh; f]k]o\$ Ps kft jf Ps cf8f 5f8l kmh tyf km nflu5 h; n]ubf{af8 xff] x65 . o:tf hftsf ufhe8f ljz]f u/L Joj; flos?kdf ufhe8fsf] v]l u/L sg}pBfudf kzf]vg ug{ jf 7hf ahf/df Psk6s k7fpgsf]flu v]l ul/65 .

clnf]f]f] xg]hft÷0gl86/l8g6 (Indetetminate)

o; lsl; dsf] ufhe8fsf] af8 clnf] Ps}k6s kmh gkmNg] x65g\eg] kmh kmNg] km nflu] tyf kfSg]sfo{lg/Gt/?kdf af8 gd?Gh; Dd e0{x65 . o; sf]k]o\$ t}f]kftsf]cfvndf kmh tyf km nflu5 eg]af8sf]dVo 8f7 nufth/ a9l /x65 h; n]ubf{af8 clnf]x65 . o; lsl; d c8tu8 kg] hftx? :yfglo tyf ; fgf ahf/sfnflu nfd] ; do; Dd pTkfbg u/L lj qm ug8f]flu pkoQm x65 . o; ju8f kg] hftx? >hgf, ljz]f, 8fflnnf, gljg @))) cflb 5g\

sxl l86/l8g6 / 0gl86/l8g6 ju8f]ufhe8fsf hft / ltgsf ljz]ftf lgDd cg' f/ lb0Psf]5 .

hft	ljz]ftf
clnf]hft (Indeterminate type)	
eld	7hf]km, cf0nfpq]/f] sd nflu]
dlgiff	dWod, uf]hf]km -*)-!)) ufd _
o;	dWod, uf]hf]km -*)-!)) ufd _
>hgf	dWod, uf]hf]km -*)-!)) ufd_ cf0nfpq]/f] ; xg]
:g]ntf	7hf] uf]hf]km -!%)-@)) ufd_, udl{; xg ; Sg]
xfj]f]hft (Determinate type)	
/f8f	o; sf]pTkfbg !@-!% d36= kl't x\$6/; Dd lng ; ls65 . of] xff]tyf emfug]lsl; dsf]hft xf]. km ; 6tnf /usf]x65 . af8f] jfSnf]xg]x8f 6f9fsf]ahf/sf]nflu pkoSt x65 .
laz]f	dWod, xNsf n8rf] km -&)-() ufd_, cf0nfpq]/f] sd nflu]
Pg P; *!%	dWod, km -&)-() ufd_, cf0nfpq]/f] sd nflu]
; %lff	dWod, km -&)-() ufd_, cf0nfpq]/f] sd nflu]
Pg !^@	dWod, km -*)-!)) ufd_, cf0nfpq]/f] gnflu]/ sf65f6 ug{gkg].

df}dl tyf a8f}dl ufhe8f nufpg]; do

xfjfkfgl cg' f/ ufhe8f nufpg]; do km/s kb5 . pbfx/0fsf]flu pRr kxf8df r8-a8fvdf a8f{ pdfg] / a8f{ ; f/l c; f/b]v ebf}Dd km pTkfbg lng ; ls65 . dWokxf8df df3-knfugdf a8f{tof/ u/L ; fg]/ a8fvb]v c; f/; Dd km lng ; ls65 . To:t}u/L t/f08f ebf}c; f]hdf a8f{/f]kl d8/ b]v kmfug; Dd km pTkfbg lng ; ls65 .

df}d cg; f/ ljleG ; dodf ul/g]ufhe\$ v]lsf s;l ljz}tf

lxp\$]v}l

c; f]h]lv d\$ /; Dd agf{/f]kl d\$ /b]lv kmfug; Dd ufhe\$ pTkfbg ul/G5 eg] o; nf0{ ufhe\$fsf] lxp\$] v]l elgG5 . o; ; dodf 89}f /f]sf] ; d:of cfpq ; Sg]ePsfh] ; f]/f]u gnflg]ufhe\$fsf] hft 5fgl nufpg' kb\$ h:t}ljz}f, >[hgf .

a; Gt]v}l

df3-kmfugdf agf{/f]kl r\$]b]lv h} ; Dd km lng ; lsg]ufhe\$ afnlnf0{ a; Gt]v}l elgG5 . of] ; dodf pRr tfkqmd ; xg ; Sg] hft nufpg pkoQm xG5 h:t} ; bf{ u]sf]! , Pg=; =Pn=!

ail}v}l

dWb]lv pRr kxf8; Dd r\$]b]lv h} ; Dd agf{/f]kl h}b]lv c; f]h; Dd ufhe\$ pTkfbg lng ; lsgG5 . o; df}ddf v]l ubf{klj]lws ; d:ofsf lx; f]n]a9l hf]vdk0f{/ cfly\$ lx; f]n]yk ef/ kb\$. o; ; dodf w} jiff{/ pRr tfkqmd xg] ePsfh] JofS6l/of tyf kmh]lv od-9; Laf6 c]nfpg] h/fdf nflg]lgdf6f\$sf luvf{xg]/ 89}f h:tf /f]u nflu5g\ . To; h] o; ; dodf uf}j , ; /lff, >[hgf, l; l/; , ; q; , o/\$f, dgk\$; , Pg=; =Pn=! ufhe\$ nufp\$ pkoQm xG5 .

z/b v}l

c; f/b]lv ebf}Dd agf{/f]kl c; f]h]lv d\$ /; Dd afnl lng]v]lnf0{z/b] v]l elgG5 . o; lsl; dsf]v]l kxf8 / t/f0{b\$}lfqdf ug{; lsgG5 . o; df}ddf v]l ug{ pkoQm xg] hftx? >[hgf, ljz}f, uf}a, l; l/; , ; q; , cf0=P=Pr-(%)# xg\

af}dl ufhe\$ v]l

dVo df}d cyjf dVo ; dodf afx\$ nufpg] ; dosf]s;l cl3 jf kl5 pTkfbg ul/g] t/sf/l v]l klj]lwnf0{ af}dl t/sf/l v]l elgG5 . ufhe\$ v]lsf]flu lbgf]tfkqmd @\$) ; M; o; / /ftsf] tfksd !\$) ; M; o; eP pkoSt dflgG5 . ufhe\$fn]a9l udl{tyf a9l hf8f] tlff/f] tyf em/l ; xg ; Sb\$ To; h] >[hgf hfts]ufhe\$fsf] v]l ; fwf/Of tof t/f0{f lxp\$df -ebf]lv klf; Dd_ tyf kxf8df udl{; dodf -kmfug-r\$

df}dl v]l ul/G5 . dWb kxf8df laz}f u/l aiff{sf] ; do -c; f/b]lv ebf}Dd_ a9l hf8f] tyf a9l udl{b\$}gxg]x\$ >[hgf]sf] ; km a}f}dl v]l ug{; lsgG5 . af}dl ufhe\$ v]l knfli6s 3/df ubf{lgDd sfo{?df ljz}f Wofg lbgkb\$.

- c; f/b]lv ebf}-c; f]h; Dd jiff{sf] kfglaf6 hf]upg knfli6s 3/ agfp\$'kb\$.
- t/f0{ tyf tNnf] kxf8df aiff{sf] ; dodf pRr tfkqmdn] ubf{ ufhe\$ pTkfbg ug{; lhnf]gxg]x\$ dWb] tyf kxf8l lfq *)) - @))) Id6/; Ddsf]prf0{f knfli6s 3/df ufhe\$ v]l ubf{/fd] cfDbfgl lng ; lsgG5 .
- kmfug dlxgfleq knfli6s 3/df agf{; fg{dnvfb /fv} hluuf tof/ ul/; Sgkb\$. t/ knfli6s cf]fpg] sfd eg]c; f/df kfgl kg{ yfn]k15 ubf{/fd]xG5 .
- r\$sf] bf}f] xktfleq} ufhe\$fsf] agf{ ; f/l ; Sgkb\$ h; af6 h}b]lv ; fpgsf]klxn]xktf; Dd pTkfbg lng ; lsgG5 .
- ufhe\$fsf]bf}f]afnl lng ; fpg !% ut]t/ agf{; fgkb\$ h; af6 c; f]h]lv d\$ /; Dd pTkfbg lng ; lsgG5 .
- ufhe\$fsf]klxn]/ bf}f]afnl leq 3; jf afnl]sf]?kdf xft]af\$ xg]t/sf/l afnl nufpg ; lsgG5 .

>[hgf ufhe\$ v]l klj]lw

>[hgf ufhe\$fsf]hfto laj/Of tyf rfl/lqs uOf

knlg-knlg}fgl -Flowering/Fruiting habitsM>[hgf Indeterminate type sf]ufhe\$ afnl xf]. o:tf hftx?df ; aeGb dflysf]dgf / sf08 a9b}/xG5gV kftx? lg:sb}/xG5g\ lj?jf g6lEg]lsl; dn]a9b5 . klom x/\$ # kftsf]c\$g/df khsf]eMkf nflu5 . tnsf]kmn l6kl; Sbf klg dflysf]kmn nflu5}hfg5 .

af}sf]prf0{

M\$=% b]lv % Id6/; Dd

klxn]knh knlg; do

Ma}f{; f/\$f]#) b]lv #% lbg

km tof/ xg]; do

Ma}f{; f/\$f]&% b]lv *) lbgdf

km l6kg]cj lw
kl't af6 knhsf]erlkf
kl't erlkf kmnsf]; vof
kl't af6 km ptkfbg

kl't x6/
km ptkfbg
kmnsf]cfsf/
kmnsf]; f0h
kmnsf]/u
kmnsf]af6r
:jfb

sh 3hgzn 7f] kbfi{
kmnsf]pkof6
e08f/0f lfdtf

/f6; xg]; Sg]lfdtf

l; km/L; ul/Psf]pkoQmIf6

xfjfkfgl

tfkqmdsf sf/0fn]ufhe\$fsf]j [4 lj sf; df lgs}c; / ub5 . tfkqmd !@°
; 3 e6bf tn em6uf ufhe\$fsf]; a}ls; dsf]j [4 lj sf; nf0{kl'tsh c; /
ub5 . To:t}/fts]tfkqmd @!° ; 3 / lbgf]tfkqmd #@° ; 3 e6bf dfly
kl'6f af6nf0{vf; }w7}lft gk6ofP kl'g kmh / km emb5g\ ufhe\$

M (b]v !) dlxgf; Dd
M@) b]v @%
M!) b]v !@
Mvhf v]af/Ldf \$-\$=% lsnf]
Mknfli6s 3/leq !)-!@ lsnf]

M!)% b]v !!) 6g
Md6' cfsf/sf]6Kkf ltvf]
M^) b]v *) u]d -dWbd_
M/ftf]

MafSnf]-\$-\$=* ldlnd6/_
MdWbd cldnf]
M%=@ al\$;
M; nfb / ksfP/ vfg pko'tm
Mkl/kSj t/ gkfs\$]ufhe\$fnf0{
; fdf6o e08f/0fdf al9df @ xktf
; Dd /fVg ; lsg5

Mcf66fpg]/f6 -AofS6l/on
j lN6_ ; xg ; Sg]

MdWb kxf8 / t/f0sf pj{
tyf l; k't lfgx?

!)° ; 3 b]v #°° ; 3 ; Ddsf]tfkqmdf pd6 ; Sg]eP tfklg @^#@° ; 3
tfkqmdf ; ae6bf /fd]pd6]kf0Psf]5 . pkoQm jftfj/0fdf ufhe\$fsf]
jlp sl/a \$ lbgdf df6f\$]f]; txaf6 aflx/ lg:s65 .

df6f]

ufhe\$fsf]flu an66]br6 tyf kl'Ef/Ls kbfi{kz:t ePsf]dlnnf]df6f]
pkoSt x65 . lrd66f0nf]df6f]j iff6\$]f]; dodf of l+rfo{ubf{kfgl
hdg]sf/0fn]ubf{af6 kx6f]xg]tyf af6 xS6 ufx]x65 . ufhe\$fsf]flu
; ae6bf pkoSt lk=Pr= dfg ^-& xf].

v]l klj lw

pkoQm jftfj/0M >[hgf hftsf]ufhe\$ v]tsf]flu knfli6s 3/leqsf]
jftfj/0f pQd dflgPsf]5 . t; y{vhf v]af/Ldfe6bf knfli6s 3/leq
o; sf]v]l ug{; km/L; ul/65 .

lap b/M% u]d kl't /fkg].

agf6p6kfbgM j0fz\$/ hft ePsf]h]kl'lnlygsf]y6f]lj?jf tof/ ug{
pkoQm x65 . jfn]f, sDkf]6 / 89fPsf]wfgsf]e; nf0{/fd/L ld; fP/ -@M
sf]cgkftdf df6f]/ ld>0f_ *-!) ; 66ld6/ rf6f0{ePsf]y6f] &-* ; 3dl=
prf0{Dd eg]. o; /L el/Psf y6f knfli6sssf]6g]hleg /fVg' kb5 . kl'of
y6f]df ! j6f jlp /f]g]/ cfj Zostf cg; f/ kfgl lb0{/fVg].

hluf tof/M-# k6s vghf] u/L 8Nnf km\$g]/ ; tx ldnfpg]. To; kl5
la?jf /f]g Aof8 agfpg]. Aof8 agfpg] ahf]df kfglsf]lgf; sf]flu
sh]f]klg agfpg' kb5 . aiff6fddf v]l ug[xf]eg]knfli6s 3/ agfpg'
kb5 .

j6f; lg]; do

t/f0M efb6]v kf]f; Dd -vhfv]af/Ldf_

dWokxf8M cfiff9b]v efb] Dd -knfli6s 3/leq_

kmNu0f -vhf v]af/Ldf_

agf6f]b/M ^) x \$% ; 3d= -vhf v]af/Ldf_
*) x ^) ; 3d= -knfli6s 3/leq_

agf{/fgltl/sf

/fgebf Ps xktf cufl8bly jufdf /fd/l 3fd kg{lb0{kfgl 36fp5}nbf' kb5 . juf{/; fg{ahdf \$-% j6f kftx? knf0{; s\$}xgkb5 cyjf jlp /fk\$}!*~@! lbg kl\$} /fd/ E a9\$}bx}vfnsf}agf{/fd/dfg65 . juf{/; fEm kv ; fg{pQd x65 . juf{/; fbf{blno kqx?nf0{k6{x65 . t/ k/fgf} jf clnf}lj?jf eP a9L uf8y' kb5 . ; fbf{j/l/k/Laf6 kfsf df6h}/fd/l h/fx?nf0{c7dfpg' kb5 / ; fg{ljIQs}h/fdf klq}u/L kfgl lbgkb5 . d/\$}agf\$}7fpdf kgMcsf}agf{/f/g' kb5 .

dnvfb\$}JoJ:yfkg

ufhe\$}sfhflu cfjZos kgI vfBtJ sf] dfqf df6f\$} pj{fzltmdf lge{ ub5 . >hgf ufhe\$} j0fz\$ / hft ePsfh} ; fwf/Of ufhe\$}sf] hft6bf cln a9L vfBtJ cfjZos kb5 . t; y{ >hgf ufhe\$}sfhflu lgDg dfqdf vfBtJ l; kmf/; ul/Psf\$.

sDkfj6 dnM%) bly *) 6g kl't x\$6/

gf06hnglkmknf; krf; sf]dfqfM@))M!%)M!%) s\$hl= kl't x\$6/

dnvfb	knfli6s 3/ leqsf]ul/g] v}lsf nflu		vhf lkn8df ul/g]v}lsf nflu	
	ufd kl't af	ls=uf= kl't x\$6/	ufd kl't af	ls=uf= kl't x\$6/
ol/of	8.6	17	0-5-5	296
l8-P=k=	19.5	324	13.8	408
krf;	15	249	8.3	245
sDkfj6	# s\$hl=	%) 6g	# s\$hl=	*% 6g

sDkfj6sf] k/} dfqf hluuf tof/L ugI ahdf xfnkg5{ eg} kmknf; / krf; sf] k/} dfqf / gf06hngsf] cfwf dfqf Aof8 tof/ ugI ahdf ld; fpgkb5 . affs gf06hngnf0{ltg efu nuf0{klxn}efu agf{/; f/\$} #) lbgkl5, bf} f]efu \$% lbgkl5 / t} f]efu ^) lbgkl5 6k 8\$sf}kdf lj?jfdf xfnkgb5 . of]dnsf]cltl/Qm!)) ufd klqf, !)) ufd x88lsf]

whf]/ # ufd hls kl't af xfnkgb5 . dn xfnbf la?jfsf] 5pdf cln df6f]dlg kgIu/L /fvkgb5 . Dfn /fvkl5 kfgl xfnkgb5 .

zldtj\$}kpf

agf{/; f/bly km gl6k6h; Ddsf] cjldwf lj?jfn] blyfPsf] nlf0fsf] cfwf/df k6s k6s zld tJ 5g\$;k]ug{h?/L kb5 . lj?jf ; f/\$}# / ^ dlxgdf Sofl; od @ ufd kl't ln6/ kfgldf ld; f0{5bf{pTkfbg /fd/ lng ; ls65 .

uf\$dh, dl6f]r9fpg]tyf 5fkfbg]

ufhe\$} jf\$sf] z?sf] a[C lasf; sf] ahdf @-# k6s; Dd uf\$dh ug{ kb5 eg] @ k6s; Dd df6f] r9fpg' kb5 . agf{/; f/\$} \$)-\$% lbgdf emf/kft a9L cfpg]ePsfh}o; cj:yfdf emf/kft x6fpg'clt h?/L x65 . k/fn jf v/ jf snf]knfli6sssf]5fkf]lbPdf emf/kft lgo6qof ug{/; lhnf] x65 .

l;rfo{

lj?jfnf0{kfglsf] sdl ePdf ufhe\$}sf] pTkfbg 36b5 . vf; u/L kmng] ahdf kfglsf]sdl x6x65 . a9L kfglM klg ufhe\$}fnf0{gf\$; fg k\$ofp5 . To; sf/Of sd kfgl jf ; Vvf ePdf l; rfo{ugI/ a9L eP ; dod}kfgl tsfpg] JoJ:yf ldnfpgkb5 . jiff6fddf juf} dl v}l ul/Psf] 5 eg] knfli6sssf]cfj lb0{kfgl tsfpg]JoJ:yf ugkb5 .

ff\$}tflnd tyf sf65f6

>hgf ufhe\$}sf] afnf0{b0j6f dVo xEf /fv} jf\$sf]jgfj6 -tflnd_ ugkb5 . af\$sf] tflnd ubf{klxn}kmhsf] emkf x6fpg]/ #) ; Jd=sf] prf0df b0j6f dfq dVo xEf /fv} c? ; a}xEf tyf ; xfos xEfxf?nf0{ x6fpg' kb5 . x/\$ dVo xEf\$sf] cfnfaf6 lg:sg] dgfx?nf0{ ; fgdf x6fpg' kb5 . ; f]x6fPf xftn}lrdf} x6fpg a\$ x65 . of]hftsf]af clnf] xg] ePsfh} knfli6s 3/sf] prf0{ #-#% xg' kb5 . xls{ s\$} lj?jfdf kmshflu cfpg] xEfnf0{ em8fpg knfli6s 3/sf] lglZrt prf0df knfli6sssf]8f]ln}g6÷hfn agfpg' kb5 . lj?jfnf0{bvn gklq} u/L 6\$ jf 8f]lsf]cf8 lnP/ aff' kb5 . k/fnsf]Tofbf]jf h6sf]8f]ln} klg aff' ; ls65 . o; f]ubf{kmsh}emkfnf0{/fd/}cf8 klq}u/L aff'kb5 . sf65f6 ugfh} rfB}kfsq] kmsh} cfsf/ a9y] km Psgf; sf] xg]

kmnsf]:jfb /fdi]xg] le6fldg P / ; l ; d]sf]dfqf a9g]x65 . sf65f6 ugfh]af6sf]j]l/k/l xffj vllg kfp5 h; n]ubf{/f] nllg ; d] sd x65 . ;fy}laiffbl 5g] uf6d]h ug] km l6kg]cflb sdf klq ; lhnf]x65 . af6 a9b]uPkI5 tnsf]enkf l6lk; s3f]xf6sf]prf06f k/fgf kftx? s]eln] sf6] x6fpg'kb5 .

km l6kg]cj:yf



kmnsf]a[4 / kfSg]sfo{Ps lgoldt kof ePsf]lgDg kmnsf cj:yfaf/] hfgsf/l /fvG' kb5M

- slnnf]xl/of]km (Immature green fruit): km leqsf v08x?df lRknf]kbfy{ag3f]x65 .
- xl/of]I5KkLPsf]km (Green mature fruit): kmleqsf v08x?df lRknf]kbfy{a6b5 / kmnnf0{rSsh]sf6bf jlef sf6b5 . of]cj:yfdf l6k3f]km kfSg eg]; S5 t/ /fdi]df]g65 .
- /u r9g z? ePsf]cj:yf (Breaker stage): kmnsf]k5f/sf]kth emg]7fp6f6 z? e}!) kl'tzt e6bf sd kmnsf]; tx kx]f]jfhfj ePsf]cj:yf xf].

- df]8g]cj:yf (Turning stage): !)-#)Ü kmnsf]; txdf /u r93f]x65 .
- uhfjl cj:yf (Pink stage): #)-^)Ü kmnsf]; tx uhfjl ePsf]x65 .
- xNsf /ftf] (Light red stage): ^)-()Ü kmnsf]; tx uhfjl /ftf]b]v65 .
- /ftf]km (Red stage): ()Ü e6bf a9l kmnsf]; tx /ftf]x65 .

ufhe3fnf0{pkof] ug]tl/sf / ahf/sf]b/l ljrf/ u/l ljle6g cj:yfdf km l6kg ; ls65 . w]}6f9fsf]ahf/df nllg'5 eg]xl/of]I5Kk3f] (Green mature) cj:yfdf km l6kf pkoQm x65 . :yfglo ahf/df laqmsfhflu Breaker, Turning / Pink cj:yfdf l6kg'kb5 . k3f]vgsf nflu xf]eg]k'} kfskI5 (Ripe red) dfq l6kg' pkoQm x65 .

km l6kg]tl/sf

ufhe3fnf0{xNsf 3dfP/ e6g] lxt l6kgkb5 . l6kg]ahf]df knfli6s jf afFsf]; fgf]6f3/lsf]koff] ug]pkoQm x65 . laxfg zlt cf6f0{; skI5 cyj f ; f6m kv ufhe3fsf]km l6kgkb5 .

pIkfbg

>[hgsf]Psaf6af6 !)-!@ lsnf]km pIkfbg x65 eg]Ps x66/af6 !)% -!!) 6g; Dd ufhe3f kmfpg ; ls65 .

km 566fpg]tyf u6E ug]

l6lk; s3f] ufhe3fsf] yk]af6 km3f, rf6k6s nfu3f, bfu nfu3f, /f]uSL/fn]lft k]ofPsf ufhe3fx?nf0{Psflt/ / /fdi] /fdi] ufhe3fnf0{csf]t/ /fvl 566fpg' kb5 . 5flgPsf /fdi] ufhe3fnf0{; f0h / /u6g; f/ 566f0{-u]6E_ kof]sE ug]{tof/l ug]kb5 .

kof]sE

l6k3f ufhe3fnf0{knfli6s qm6, 8f3f]jfhf knfli6ssf]y]hdf kofs ug] ; ls65 . knfli6s qm6 tyf 8f3fdf ufhe3f kofs ubf{koff] e0; s3f klqsf jf :ofpnfsf]txn]nf0lgE lbb}ufhe3f km /fvGkb5 . w]}sd / w]}v65 ufhe3f kofs ug]kb5 . knfi6ls qm6 / 8f3fdf kofs ubf{sl/j

@) lsnf] kofs ugkb5 . km kofs ubf{kfsG] ahfsf] jf Ps}cj:yfsf kmnf0{Pp6}kofsdf kofs ug{kb5 .

9jfgl

laxfg jf ; fEnt/ km 9jfgl ug{pkoQm xG5 . 9jfgl ugI ; fwgx?df kofsx? /fvbf w}}s; ; jf w}}xlNng]u/ /fvG'xG5 . km nf8 / cgnf8 ubf{klg htg; u ugkb5 .

e08f/0f

- kl/kSj t/ gkfs}f] ufhe\$fnf0{ e08f/0f ubf{ (-!)² ; N; o; tfkqmd / *%-(% kl'tzt cfb}f (Relative humidity)df \$ blv % xktf; Dd ufhe\$ e08f/0f ug{; lS65 .
- kfs}f] ufhe\$fnf0{&=) ; N; o; tfkqmd / () kl'tzt cfb}fdf /fvbf Ps xktf; Dd e08f/0f ug{; lS65 .

dV0-dV0 /f]sl/f Joj:yfkg

v}j f/lnf0{ ; w} ; km; U3/ /fvGkb5 . lj iffbl 5gI kgI eP kll lwssf] ; Nnfx cg; f/ 5gI / /f]lnf0{ /f]sl/ / sl/lnf0{sl/fsf]lj iffbl lrg] dfq kofu ugkb5 .

/f] Joj:yfkg

89j f /f]M z?df kfgln] leh\$]h:tf]xNsf v}f]e0{k5l uf8f v}f]/udf kl/0ft xG5 / kft 89\$]f]blvG5 . of]nlf0f blvPsf]e\$ w06fleqdf pkrf/ ul/Pg eg] k/}jfnl 89j hfG5 / kmnf0{ ; d} gf\$; fg k'ofp65 . kftsf]k5f8l laxfg kv ; jf]9; l h:tf]blvG5 .

/f\$yfdM/f]ul afx? a6h] hnf0{lbGkb5 . z?sf]cj:yfdf ANff06S; -%) !-% uf]d jf 8f06Pd-\$% # uf]d kl't In6/ kfgldf Id; f0{:k]ugI . /f]ul a9l km]nPsf]eP lqmg\$; ln uf]8 @ uf]d kl't In6/ kfgldf Id; f0{:k]ugkb5 .

6f]f6f]d]f0f0s ef0{; M kft xNsf kx]f]l5/la]/ vDr\$]f]h:tf]blvG5 . of]/f]ul nfu]k15 /f]ul nfu\$]f]j f0nf0{5f0{gnfu\$]f]j f0df 5fP eg]klg /f]ul ; b5 . To; sf/Of /f]ulj f0nf0{hnf0 lbG'pQd xG5 / v} jf/L ; km; U3/ /fvGkb5 .

/f\$yfdM/lkell6n % ldnln6/ -Pd=Pn= kl't In6/ kfgldf Id; f0{5gkb5 . uf06f]bw % Pd=Pn= kl't In6/ kfgldf Id; f0{5bf{/f\$yfd ug{; lS65 .

Inkmsn{ef0{; Mof]/f]ul nfu]k15 ufhe\$fsf]kftx? vDrG]jf j6fl/g]/dfly lt/ km\$]xG5 h; sf sf/Ofn]km sd nflu]/ ptkfbg sd xg]xG5 . of]/f]ul ; jf]lemuf (Whitely)n] ; fb5, t; y{of]/f]ul lgo6q0fsf nflu ; jf]lemuf lgo6q0f ug{kb5 .

/f\$yfdM/f]ul/ laiffbl !-@ Pd=Pn= kl't In6/ kfgldf Id; f0{:k]ugIcyjf lkell6n % Pd=Pn= kl't In6/ kfgldf Id; f0{5gI . uf06f]bw % Pd=Pn= kl't In6/ kfgldf Id; f0{5bf{/f]ul lgo6q0f ePsf]kf065 .

knf]k; \89j f Ma}f0f 8f7 slxPsf]nlf0f b}f kb5 . kftdf uf]h]v}f]yf]nfx? blv65gV ; -; fgf snf bfux? klG blv65g\ kmndf 7hf yf]nf rSsfx? blvPk15 km snf]e}slxG5 .

/f\$yfdM/alieilg @ uf]d kl't In6/ kfgldf Id; f0{:k]ugI .

cf06fpg]/f]Mof]/f]ul nfu]k15 pkrf/ 5g To; sf/Of cf06fPsf]lj ?j fnf0{gi6 ugI/ afnl rqm ckgfpg'kb5 .

sl/f Joj:yfkg

km skfpg]sl/f]Mgëfg ! Pd=Pn= kl't In6/ kfgldf jf dnflyPg @ Pd=Pn= kl't In6/ kfgldf Id; f0{kmh kmNg' cufj }/ kmh d:s] u\$ nful ; sk15 :k]u/df lgo6q0f ug{; lS65 .

; **jf]lemufM/f]ul/ !-@ Pd=Pn= kl't In6/ kfgldf Id; f0{:k]u/df lgo6q0f**ug{; lS65 .

Kftdf ; ?a agfpg]sl/f]M gldsf] emf]h @-# Pd=Pn= kl't In6/ kfgldfId; f0{:k]u/df lgo6q0f ug{; lS65 .

Kftvfg]en; nsl/f]M ; f0k/dy]lg ! Pd=Pn= kl't In6/ kfgldf :k]u/df lgo6q0fug{; lS65 .

/ftf]sldnfM af]ls Pl; 8 jf af]S; @) uf]d / lrlg @) uf]d Id; f0{nf]f]agfpg]/ kfp/f]ldf hfd bn]h:t}bNg]/ ; jf]Knf]l:6sdf dl; gf Kj fn agf0{ To; leq /flv hxfFsldnf nfu\$]f] 5 ; f] 7fpEf xNsf df6fh] 5f]k/fvl lbGfn]k/}sldnfsf]uf]h gi6 xG5 .

pTkfbg nfut

>[hgf urhe\$fsf]v]l ubf{k|t knfli6s 3/ -!)) au{ld6/_ / k|t /f]gl knfli6s 3/leq xg]cfdbfgl vr\$]cgdfg

laj/0f	; Vof	k t knfli6s 3/	k t /f]gl -% knfli6s 3/_
knfli6s 3/	!	()&).))	\$%#%).))
>dlbg	!*)	@&,))))))) -@ Hofld # dlxgf ? !%).)) k t lbg_	! ,#%,)))))))
sDkf]6 tyf /; folgs dn	PsdI6	!))))))	%))))))
laiffbl	PsdI6	!))))))	%))))))
jlp vr{	! u d	!)))))	%)))))
hDdf vr{		#* ,!&).))	! , (, *%) .))
urhe\$ kmn pTkfbg -!!) 6g/x]		!!)) s]hl=	%%)) s]hl=
sh cfdbfgl		\$\$,)))))) -!!)) s]hl=x\$).))_	@, @,)))))) -%%)) s]hl=x\$).))_
vb gfkrf		%*#).))	@(,!%) .))

; Gbe{>f]x?M

t/sf/l lj sf; lgb]zgfno, @)^^ . urhe\$ >[hgf v]l klj lw, kl:tsf .
t/sf/l lj sf; lgb]zgfno, vdn6f/ .

t/sf/l lj sf; zfvf, @)\$^ . g]kfndf t/sf/l v]l, k':ts . t/sf/l
lj sf; zfvf, vdn6f/, nlnrk/ .

cfrfo{ clgnsd/ / clwsf/l, b] /fh, @)^& . g]kfnsf kdv Joj ; flos
t/sf/l afnlsf hftx? / ltgdf b]vg]kdv ; d:of tyf ; dfwfg,
kl:tsf . s]f ; r'gf tyf ; f/ s]b] xl/x/ej g .

kf]bfn, e/tsdf/, @)^ (. t/sf/l afnl pTkfbg klj lw, kl:tsf . s]b]b
t/sf/l jlp pTkfbg s]b] vdn6f/ tyf k]Efl/s kf7zfnf,
sf7df08f] .

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