<<?>?GB?

<:g]ebb gZZ_ Jhkkbb Gh\hc A_eZg^bb klZeb ihy\e
djmighieh^guo khjlh\ fZebgu ihjZ`Zxsb_ \hh[jZ`_gb
ijb\e_dZl_evguo djmiguo djZkb\uo y]h^ :ddmjZlgu_
jy^u riZe_j \ i_jbh^ khaj_\Zgby kha^Zxl \i_qZle_gb_
aZem`zg f_`^mjy^vy ^_eZxl jZ[hlu ijhklh ijbylgufb
^Zxl -\A jZaZ [hevr_ y]h^ ih kjZ\g_gbx k ohjhrh ba_
Gh\hklv DmavfbgZ Dbj`Zq beb =mkZj
< dhgp_ OO klhe_lby ©dZq_kl\h `bagbª klZeh hkg
hp_gdb jZa\bleb bhc kljZgu lhc beb bghc ^_yl_evg
<ukhdh j_glZ[_evgZy ieZglZpby fZebgu iexk dhfnhjl
kj_^b fZeh]Z[Zjblguo ZddmjZlgh knhjfbjh\Zgguo jZk
aZem`zgguo f_`^mjy^bc ijhba\h^kl\h y]h^ klZgh\blky
ijb\e_dZlu_evg\h fgh]hf g_ mklmiZxsbf jZ[hqbf f_klZf
nbjf b dhfiZgbc
I_j_^ \Zfb a_ezgu_ nZ[jbdb wlb ohjhrh jZa\blu_
dhlhju_ [_a \f_rZl_evkl\Z q_eh_dZ qzldh \uihegyxl
ijh]jZffm ©kha^Zgby ba gZq_evgh\h^ k_jlgh]h ijh^m
q_eh_dZ L\hj_gb_ jmd q_eh_q_kdbo fZebgZ k lZ
ijbjh^_ \hh[s_ g_ \klj_qZ_lky
IjbklZevgh \]ey^u\Zykv \ ihehkm kiehrguo y]h^ \^he
g_\hevgh fuke_ggh ijh[_]Z_l_ imlv ^kbbo_bjhl^fh_ed
qlh m \Zk i_j_^]eZaZfb b \hkobsZ_l_kv mfhf b kihk
^Ze_dh mr_^r_]h hl h[_avygu Q_eh_d kmf_e ijb^m
gZrze gZmqgu_ imlb _z h[_ki_q_gby b kbkl_fZ [_a
jZ[hlZ_l ©dZd qZkuª

LZd gZ ijbf_j_ ij_h[jZah\Zgby gZke_^kl_gghklb fZ
b ^h djmighieh^ghc, k_hj_glbf q_kdZy gZmdZ]_g_lbdZ i
ih\k_^g_\gmx `bagv q_eh_dZ \hh[s_ g_ bf_xs_]h il
b \uau\Z_l m g_]h g_ih^^_e.vgh_ \hkobs_gb_
Ij_^_eu ^Zevg_crbo memqr_gbc fZebgu g_ ih^^Zx
^Z`_ k_e_dpbhg_jh\ ijb\udrbo d g_ihklb`bfuf nZglZ
ijbjh^u

ibr_l qlh [eZ]h^Zjy [h]Zlhfm [bhobfbq_kdhfm
fZebgu mki_rgh bkihevamxlky ^ey ijhnbeZd-lbdb b e_
khkm^bkluo `_em^hqguo ijhklm^guo b ^jm]bo aZ[h
fZebgu kh^_yj`Z_lsk_kl\Z j_]mebjmxsb_ nmgdpbb sblh\
ij_^klZl_evghc `_e_a \hklhqgZy f_^bpbgZ ba^Z\gZ
e_q_gbb [_kieh^by iheh\h]h [_kkbeby g_\jZkl_gbb
ieh^Zo fZebgu h[gZjm`_gh hkh[h_ e_-kb[hkl_jbgs_kl\h
dhlhjh_ ij_^mij_`^Z_l hleh`_gb_ ohe_kl_jbgZ \ kl_gd
ke_^h\Zl_evgh \hagbdgh_gb_ kde_jhaZlhkl_jbgZ
fZebgZ mklmiZ_l lhevdh ieh^Zf h[e_ibob >hdZaZgh
\ebygb_ y]h^ fZebgu ij_^mij_`^Zxs_jh\b_cdb_fbx [_e
fZehdjh\b_

Hj]Zgbq_kdb_ dbkehlu fZebgu y[ehqgZy ebfhgg
kihkh[kl\mxl emqr_fm i_j_\Zjb\Zgbx ibsb hkh[_ggh
dbkehlghklb `_em^hqgh]h khdZ Djhf_ lh]h hgb]m[
fbdjhhj]Zgbafu\Zxsbu_ dbr_qgu_ bgn_dpbb Hkh[h_ f_
hj]Zgbq_kdbo dbkehl fZebgu aZgbfZ_l kZebpbeh\Zy
[Zdl_jbpb^gufb k\hckl\Zfb b bkihevam_lky dZd ihlh]
`Zjhihgb`Zxs__ b h[_a[heb\Zxs__ kj_^kl\h Ihlh]hgg
ihe_agu [he]bi_jflhgb_c lZd dZd k ihlhf m^Zey_lky a
dhebq_kl\h khe_c b kgb`Z_lky Zjl_jbZevgh_ ^Z\e_gb

Y]h^u fZebgu [h]Zlu de_-5q1%)dhclhjZy klbfmebjm_l
jZ[hlm dbr_qgbdZ b kihkh[kl\m_l \u_^_gbxafZhe_kl_
;eZ]hijbylgh \ebyxl gZ ibs_\Zj_gb_ b i_dlbgh\u_ _s

FZebgh\uc² khkdgh\ghc dhfihg_gl agZf_gblh]h ©Jb`
[ZevaZfZª

Ke_^m_l aZf_lblv qlh fgh]bfb p_e_[gufb k\hckl\Z
lhevdh y]h^u gh b jZaebqguo hjZebgu jZeblvy khp\
kl_[_ev dhjgb < ebklvyo fZebgu gZijbf_j klb^_j`Z
jZa \ur_ q_f \ y]h^Zo G_ kemqZcgh ihwlhfm rbjhd
gZjh^ghc f_^bpbg_ jZaebqguo hl\Zjh\ ba ebklv_\ kh
jZkl_gbZyebgu ijb e_q_gbb jy^Z aZ[he_\Zgbc

FZebgm \ujZsb\Zxl fgh]b_ klhe_lby < gZr_c kljZ
fgh]bo f_klZo ihemqZxl f_g__ d] k dmklZ dj]bzfu ih
y]h^ k dmklZ [ueb ohjhrh hibkZgu [he__ e_l gZaZ
kZ^h\h^u gZmqbebkv ihemqZlv lZdb_ \ukhdb_ mjh`Zb
debfZl_ beb lbi_ ihq\u qZs_ \k_]h m ex^_c hlkmlkl\
qlh bf_ggh gZ^h ^_eZlv b dZd wlh ^_eZlv ;m^_l eb
we_f_glZjguc moh^ \k_]^Zehy[ya]Zl_efgh]b mkbebc kh
lj_[m_lky

?keb ih dZdbjfbqbgZf kZ^h\h^ g_ kfh`_l \uihegylv
f_jhijbylby ih mZjh^ghieh^ghc fZebghc lhe_g fulv_l
[_a mjh`Zy < lZdbo kemqZyo emqr_ kZ`Zlv g_ijbohl
jZaf_jhf y]h^ gh k [hevr_c]ZjZglb_c _`_]h^guo mjh
FZeZoh\dZ KdjhfgbpZ =mkZj ;ZevaZf EZaZj_\kdZ

Fgh]b_ ihkZ^db fZebgu gZ ^Zqguo b ijbmkZ^_[gu
3-]h^Z ^h\hevgh [ukljh klZgh\ylky aZjxl ykeyfb ^ mjh`Z
ihqlb g_l \ h[hjhl aZimkdZxl oh^h\h_ \ujZ`_gb_ h \u
fZebgu b gZqbgZ_lky aZf_gZ ihkZ^db gZ gh\mx DZ
b qlh gZ kZfhf ^_e_ ijhbkoh^bl k fZebghc fh`gh mag
dgb]b
K_]h^gy ihqlb \k_ ihkZ^db fZebgu _Jh jZaf_s_g
^Zqguo b ijbmkZ^_[guo mqZkldZo b nZdlbq_kdb dhj
kZfh gZk_e_gb_ ;he__ \k_o y]h^ ihlj_[eyxl kZfb
hdheh \ujZs_gguo b kh[jZgguo \ e_km y]h^-ihklm
y]h^ _h^_jh kdmiZxl aZ]hlh\bl_eb qZklguo aZ\h^h
fZebgu gZ \Zj_gvy ^`_fu dhfihlu IhdmiZl_eb \ ]hjh
h[uqgh \gZqZe_ ^_eZxl aZ]hlh\db \ \b^_ \Zj_gvy gZ
\hafh`ghklb ihdmiZxl y]h^u ^ey bkihevab\Zgby \ k_
dmebgZjguo ba^_ebyo
Ijb kh[ex^_gbb \k_o hkgh\guo f_j moh^Z aZ ihkZ
\k_]^Z fh`_f ihemqZlv ih d] y]h^ k h^ghc khldb
h^ghc k_fvb ^hklZlheqghdmklv \ fZebgu b wlh
hdheh iheh\bgu h^ghc kZldZraffeZqghf mqZkld_ GZ
ijbmkZ^_[guo mqZkldZo ^ey ijh^Z`b y]h^ g_j_^dh \u
b ^Z`_ dmklh\ fZebgu <ukZ`b\Zy jZggb_ kj_
b j_fhglZglgu_ khjlZ kZ^h\h^u ihklZ\eyxl gZ klhe k
k bxey ih k_gly[jv
F_edhlh\Zjgu_ ihkZ^db fZebgu \[ebab]hjh^h\ b ^
jugdh\ k[ulZ iha\heyxl bf_lv ohjhrb_ ^_gv]b hl j_Zel
fZebgu Kijhk gZ y]h^u fZebgu \ gZklhys__ \j_fy m^
ijbf_jgh gZ gZ jugd_ y]h^u g_ aZ^_j`b\gZxl-ky b \
e_l \i_j_^ jughd hklZg_lky g_aZiheg_gguf Ijb[ue
f_edhlh\Zjgh]h qZklgh]h ijhba\h^kl\Z y]h^ fZebgu ih
JZkrbjblv ijhba\h^kl\h fZebgu [ueh b hklZ_lky a
^_ehf \\b^m ljm^hzfdhklb b h[yaZl_ehkghklb \ufi_jeg_g
moh^Z
IhdZ _sz kms_kl\mxl g_j_rzgga_ \hlhjku ihkZ^hd
djmighieh^ghc fZebgu fZeh b qbke_gghklv lZdbo ihk
f_^e_ggh Khjlh\ djmighieh^ghc fZebgu ihdZ _sz fZ
iblhfgbdZo wlb khjlZ \kzqgsh ba^hqkgZlh \ jZaguo j_]b
ihdZ g_ykgh dlh b]^_ [m^_l emqrbf Ijboh^blky kqh
qlh ih^ wlbfb gZa\Zgbyfb g_j_^dh ijh^Zxl \h\k_ g_ w
;hevrb_ ijbjh^gu_ ij_bfms_kl\Z djmighieh^guo kh
aZy\eyxl kZfb\ hdZ^_[hc gh\hc ihkZ^d_ b ex^b ih^o\Zlu
[_ah \kydbo gZ lh mdZaZgbc AZ ihkez^gb_ ^_kylv e
ihy\bebkv gZkZ`^_gby l_o beb bguo djmighieh^guo
bkijZ\e_gu i_j\u_ hrb[db bo \ujZsb\Zgby b- ^ey dZ`^
debfZl_kqdhc ahgu kZ^h\h^kl\Z \uy\eyxlky k\hb emqrb

Dhg_qgh ^ZggZy dgb]Z g_ fh`_l hk_lblv bkq_jiu\
^_lZeb wlbo ^hklb`_gbc < wlhc dgb]_ baeh`_gu kh\
ihemq_gby \ukhdbo mjh`Z_\ gZ emqrbo khjlZ^oey\ ^hk
l_o dlh dhjfbl Jhkkbx y]h^Zfb fZebgu

= e Z \ Z

KHJL: F:EBGU DJMIGHIEH>GHC

Qlh lZdh_L1]_g

=_lg y\eylky h^gbf ba hq_gv fgh]bo]_gh\ m fZebg
Zg]ebckdbc k_e_dpbhg_j >_j_d >`_ggbg]k < _
k_ygpu k wlbf]_ghf ihdZaZeb g_h[uqgmx djmighieh
ihj g_ [ueh \uy\e_gh m khjlh\ fZebgu [_ha^wlkZhfu]_bgZ
djmigufb [ueb khjlZ fZebgu k fZkkhc y]h^u ^hy\e_gb
wlh]h]_gZ [ueb ihemq_gu khjlZ k fZkkhc y]h^u]
Wlhl]_g \uau\Z_l hkh[mx djmighieh^ghklv m jy^Z
k_ygpu k L1_ghf_xl y]h^u ghh[uq jZaf_jZ K_e_dpbhg_ju
ijZdlbq_kdbo p_e_c hl[bjZxl lhevdh k_ygpu k hq_gv
dhlhju_ ijb gZebqbb ^jm]bo iheh`bl_evguo ijbagZdh
khjlhf Djmighieh^gu_ kL1_bZf_xl_ygh^fu] ijbqzf jZaf_
y]h^ ih k[dhZf_[e_lky b d ihke_^gbf k[hjZf h[uqgh y]
f_edh]h jZaf_jZ KZfu_ djmigu_ y]h^u h[uqgh gZ eZ
ih[_]Z]^_ m ex[h]h khjlZ b eZl_jZeu b y]h^u [he__
mkeh\byo lh^fhkdh\vy bf_xl hl^_evgu_ y]h^u ^h]
^bgbqgu y]h^u]ih Hkgh\gZy qZklv y]h^ \lhjh]h b lj
bf__l fZkkm [he__] gh fZkkZ y]h^ ihke_^gbo k[hj
KhjlZ k]L1_g\hf p_ehf bgl_j_kgu dZd \ukhdh ijh^mdlb\
ih\ur_gb_ mjh`Zcghklbl ijh_bk^oh^kb_]h aZ kqzl djmighi
<lhjuf \Z`guf ij_bfms_kl\hf khjlh\ k]_ghf y\ey_lky
eZl_jZeu m gbo -5fi_xly^dh\ _l\e_gby ?kGb\mklv khjlh\
Dmavfbgz beb Dbj`Zq eZl_jZe ieh^h\Z^y\Z_l\hq\e_gbf
b gZ`^hf eZl_jZ-e_yih^ lh m khjlh\ k]_ghf
Bah[bevgZy eZl_jZeihy^dh\ _l\e_gby b gZ dZ`-^hf b
y]h^ <k_ k_ygpu fZebgu_xl]_gh\f_ldh\ hq_gv ^ebg
qZr_ebklbdb Wlh iha\hey_l \ iblhfgkdZ`_\gpZ\qZjeh_jkl
[jZdh\dm b hklZ\blv lhevdh L1_zkl_gby k]_ghf

=_g ohjhrh khq_lZ_lky k ^jm]bfb ijbagZdZfb khjlZ
gZ[ex^Zeb hljbpZl_evguo k\ya_c k ^jm]bfb gm`gufb
fZebgu k]_guf [ulvZxl kbevghjhkeufb dZfbdZjZeb gbfb b
iha^gbfb bffmggufb b g_bffmggufb Z y]h^u m lZdb
ih lh\Zjguf b \dmkh\uf dZq_kl\Zf

DZl_]hjby jZkl_gbc ?djmighieh^gu_ fZebgu
WlZ]jmiiZ khjlh\ fZebgu ijhbkoh`^_gb_ b [hev
jZaebqby hl khjlZ d khjlm Dhg_qgh fh]ml [ulv h^bg
jZagh]h]_g_lbq_kdh]h ijhbkoh`^_gby gh m ^Zgghc
y]h^u djmigu_ ihlhfm qlh \ ]_ghlbi_ lZdb.o khjlh\ bf
<dmkh\u_ dZqieh\lghklv y]h^ bo nhjfZ b hdjZkdZ
k]_gLhf[u\Zxl kZfufb jZagufb b g_l k\yab-wlh]h]_gZ
eb[h ^jm]bf ijbagZdhf
Ihfbfh mdZaZgguo iexbkh\ ]_g dhlhju_ fbgmku =eZ
lhf qlh wlhl]_g]_g_lbq_kdh]h]_g_lbq_kdh]h \bi_j_oh^bl
^hfbgZglgh]h \ j_p_kkb\gh_ khklhygb_ lh _klv j_]m
fmlZglu ih wlhfm]_gm b lZdb_ nhjfu l_jyxl k\hx djm
:j[Zl FZjhk_cdZ Klhe_rgbd h[jZamxl fmlZglh\ gZfgl
khjlZ lZljbpby Klhe_rgbd h[_ggh khjl FbjZ` G_khfg_gg
[hevrhc g_^hklZ\hdih]_glZfm g_ \k_ k_e_dpbhg_ju bki
]_g \ k\h_c jZ[hl_
?keb fu \ukZ`b\Z_f kZ`_gp_\ khjlh\ :j[Zl FZj
Klhe_rgbd :[hjb]_g lh ihqlb g_ bf_afZfmkZ\jguo nh
`bagb ^Zgghc ihkZ^db wlb djmighieh^gu_ khjlZ [m^
djmigu_ y]h^u Gh ijb bo jZafgh`_gbb q_j_a iblhfgb
jZa hklZ\eylv _^bgbqguc ih[_] m fZlhqgh]h dmklZ b
m^ebgzgguo qZr_ebklbdh\ ijbo\k^_bldmklZfmlZglh\ V
g_kdhevdh hkeh`gy_l jZafgh`_gb_ khjlh\ [hjk]_gZzflky
kZ^h\h^hf
Dh]^Z khklhylky]_g_lbq_kdb_ bkke_^h\Zgby b
nhjfZfb k wlbfL1_ghf]_ghf^Z wlhl ijhba\h^kl_gguc\hijhk
gh klj_fe_gb_ d hq_gv djmighieh^gb_ [hevrhf_ \kzg_dh
ba^_j`db ijboh^blky ijbgbfZlv \ugm`^_ggh
BlZd djmighieh^gZy nhjfZ fZebgu ?gZ\hkZdh\c]bigZ
jZkl_gby m dhLhjh[]mk_e_g\eb\Z_l djmiguc hjZafvj y]h^
^ebggu_ qZr_ebklbdb b -ihqlby\kdZ]^\Zl\e_gby m ieh^h
_lhq_d Wlh ijbjh^gZy nhjfZ fZebgu b dZ`^uc]h^ n
ieh^hghr_gby [_a \f_rZl_evkl\Z q_eh_dZ
Kj_^b ^jm]bo lbih\ fZebgu j_fhglZglgu_ ruZf[h\u

Рис. 2 Латералы с геном L_1 имеют 3-4 порядка ветвления и 30-40 ягод на каждом. Сорт Изобильная, урожай 6 кг с куста

dZl_]hjby djmighieh^guo nhjf fZebgu djZkghc aZgbf
f_klh-bZ lh]h qlh \ wlhf lbi_ fZebgu fZdkbfZevgh \u
dhfihg_glu ijh^mdlb\ghklb fZebgu dZd djmieh^ghklv
lh wlbf ^\mf ihdZaZl_eyf ^h kbo ihj gbdZdb_ ^jm]b_
djZkghc g_ ^h]hgyxl wlm [bheh]bq_kdmx]jmiim LZd
fhsgh]h jZa\blby ieh^h\uo h[jZah\Zgdbc kmhm[f_bZ]ebgi
^h kbo ihj g_ h[gZjm`_gh b wlh ^_ckl\bl_evgh \Z`gu
ij_bfms_kl\Z djmighieh^guoLnhjf^k^]mgbfb lbiZfb fZe
k lhqdb aj_gby bo ihe_aghklb ^ey q_eh_dZ Djmigh
[ueb \u^_e_gu \ hl^_ehjgmx dZl_]]] b wlhl l_jfbg
\i_j\u_ klZeb ijbf_gylv \ RhleZg^kdhf bgklblml_ kZ^
djmiguf jZ[hlZf Zg]ebckdh]h k_e_dpbhg_DZ >_j_dZ >
Jennings, 1961, 1966).

Bklhjby b ijhbkoh`^_gb_ djmighieh^guo nhjf

fZebgu k]_gu.hf

<]ba_klguc Zg]ebckdbc k_e_dpbhg_j >_j_d
ieZglZpbb fZebgu \ RhleZg^bb h[gZjm`be fmlZgl rbj
jZkijhkljZgzggh]h \ l_]h^u khjlZ Fheebg] >`m_e k b
(Jennings Wlh [ueh g_ijb\e_dZl_evgh_ jZkl_gb_ k
ijbagZdZfb ih[_]Z k g_\uiheg_gghc y]h^hc b djmigu
> >`_ggbg]k m`_ bf_e hij_^_ezgguc hiul jZ[hlu k fm
kdj_sb\Zgbc wlh]h fmlZglZ k khjlZfb myd]h^hiue Zn_jl
ghjfZevghc ljZdlbq_kdb kjZam `_ \ i_j\hc]_g_jZpbl
jZkl_gby k g_h[uqgh djmighc y]h^hc LZdh]h jZaf_jZ
[ueh m fZebgu \hh[s_.>ih_ghhfm]k>jZkrbjbe ihbkd ih
bkihevah\Zgbx ^Zggh]h fmlZglZhy\beekdpibj\uLZd
g_kdhevdh dhff_jq_kdbo khjlh\ h^gbf ba dhlhjuo [u
G_dhlhju_ y]h^u wlh]h khjlZ[ueh]hfh\ q_]h g_
[ueh b g_l m khjlh\ ^h =e_g WkdZ
Khjl =e_g Wkd g_ ihemqbe rbjhdh]h jZkihkljZg_gb
kj_^gbo dZq_kl\ y]h^ lha^g__ ^jm]hc khjl > >`_ggb
[he__ \ukhdmx hp_gdm Z khjlZ =e_g Wfbe b =e_g F
\ukZ`b\Zxl gZ [hevrbo iehsZ^yo < gZr_c kljZg_ wlb
bf__lky g_fZeh bo ZgZeh]h\h ZhZhjhvZhgr\-ihq_gg
debfZlbq_kdbo mkeh\byo gZrbo j_]bhgh\
< gZr_c jZ[hl_ [ueh ihemq_gh hdheh L1k_ygp_
<i_j\u_]h^u kqblZeb qlhLgZ[eybqZbl_e]vghZ ^he`gh \uau
djmighieh^ghklv gh l_i_jv khZfeh fyZkeghugkh\k_]^Z
bf_xl djmigu_ y]h^u lh f_j_ gZdhie_gby nZdLh\ kj_^
fu \uy\beb dZjebdb b kbevghjhkeu_ rlZf[h\u_ b g_r
mjh`Zcgu_ b g_mjh`Zcgu_ abfhklhcdb_ b g_abfhklh
rubi b g_bffmggu_ kfbeZhq_jZgvZ^ebggufb b h[uqghc ^eb
eZl_jZeZfb _l\ysbfbky b g__l\ysbfbkyfb lbzfk\h_leh

a_ezgufb ebklvyfb k ebklvyfb mlheszggufb b h[uqg
K_]h^gy g_ljm^gh aZf_lblv qlh \k_ ba_klgu_ ^h
djmighieh^gu_ fZebgu ikh]kohf^yl lhevdh hl fmlZglZ
Fheebg] >`m_e Z \ky bo bklhjby hdheh khjhdZ e_l
Djmighieh^gu_ fZebgu \k_]\ugh fhiZeb \ Jhkkbx \ \b
k_fyg hl k\h[hgh]h hiue_gby k i_jki_dlb\guo rhleZg^
dhlhju_ y kh[jZe \ RhleZg^kdhfkZ^h\h^1976] e_lhf
K_ygpu hl ihk_\Z k_fyg [ueb ihemq_gu \ ] b
qlh hdheh iheh\bgu ba gbo Lf_Kll\ k_[hj]gZqZehkv b
djmighieh^guo nhjf fZebgu \ Jhkkbb. >`h_^gbg]k
i_j_^Ze \ gZr bgklblml ba RhleZg^bb dhjg_\u_ q_j_g
djmighieh^guo nhjf fZebgu Gh [he__ i_jki_dlb\gu_
gZf lZd b g_ i_j_^Zeb Lh]^Z ih.^h]h\hbgjgkhf fu k >
ijh_eb]b[jb^baZpbx ^ey gbo Z hgb ^eyuoZk ih jy^
kdj_sb\Zgbc f_`^m djmighieh^gufb nhjfZfb
LZdbf imlzf \ gZr_c kljZg_ ihy\beZkv gh\Zy [bhe
^ey k_e_dpbb fZebgu gZ djmiguc jZaf_j y]h^ I_j\u_
hl[hju fZebgu ihy\bebkv \ gZr_f bgklblml_ \ u] E
i_j_^Zeb \ bgklblmlu kZ^h\h^kl\Z \ ]hjh^Z Hjze DjZ
;jygkd gZ hihjguc imgdl gZr_]h bgklblmlZ b \ [hevrm
kh\oha_ bf FX> ih^] <eZ^bfbj ;hevr_ \k_]h kZ`
nhjf ihklmiZeh kZ^h\h^Zf \ hq_gk jZgu_ j_]bhgu
Ijhreh e_l aZdhgqbeky i_j\uc wlZi k_e_dpbb d
\ Jhkkbb GZ wlhf wlZi_ \k_ nhjfu ijhbkoh^beb ba fZ
g_ihkj_^kl_ggh ihklmib\r_]h \ gZr bgklblml ba Rhle
]hkdhfbkkbx ih khjlhbkiulZgbx jKKZJu i_j\u_
djmighieh^gu_ khjlZ FZjhk_cdZ KlhebqgZy :[hjb]_g
FbjZ` @zeluc =b]Zgl
GZ \lhjhf wlZi_ k_e_dpbb djmighieh^gu] fZeebg \
ijh_^_gu fgh]hqbke_ggu_ kdj_sb\Zgby f_`^m jh^bl_
\u_^ggufb \ gZr_f bgklblml_ b ihemq_gh hdheh
wlZi_ emqrbfb hdZaZebkv]b[jb^u khjlh\ FZjhk_cdZ
g_kdhevdbo ^hghjh\ rlZf[h\hklb ih[_]Z Wlhl wlZi jZ
kha^Zgb_f khjlh\ IZljbpby LZjmkZ :j[Zl b khjlh\ ju
gZfgh]h ih\ukbeb mjh_gv djmighieh^ghklb b ijh^md
emqr_ ijhbajZklZxl \ jZaeb-qgeubfZihbq_kgbo mkeh\byo
M`_ \ ijhp_kk_ \lhjh]h wlZiZ klZeh ykgh qlh aZjm[_
lh`_ ihreb ^Zevr_ hl i_j\hgZqZevgZrmZkljaZggu
djmighieh^guo nhjf Hkh[_ggh ijh^\bgmebkv \i_jz^ j
k_e_dpbhg_jZ WebaZ[_l Dbi dhlhjZy kmf_eZ \uclb
djmighieh^ghklb gh gZ bghc]_g_lbq_kdhchfkgh_ [
f_`^m gZfb k_e_dpbhgZeuhf fhZ_jb_j_^ZeZ _z gZb[he_
i_jki_dlb\gmx jh^bl_evkdmx nhjfm ‹ <h fgh]bo
jh^bl_evkdZy nhjfZ gbq_]h gZf g_ ^ZeZ Z \ dhf[bgZ
fu ihemqbeb jy^ djmighieh^guo nhjf dhlhju_ ij_\hko

ihdZaZl_e_qr\kz emh [ueh ^h wlh]h KZfZ ih k_[_ dj
gbo khojZgy_lky gZ ij_`g_f \ukhdhf mjh\g_ gh jy^ i
memqrZxl khjlZ hl ‹ Lj-lbc]lZaZ_jrbeky
kha^Zgb_f gh\uo k_fb khjlh\ ba dhlhjuo Bah[bevgZ
Jhkkbb ijhoh^yl]hkkhjlbkiulZgb_
AZ wlb]h^u [he__ kZ`_gp_\ djmighieh^guo
j_Zebah\Zgh ^ey ^Zqguo b ijbmkZ^_[guo kZ^h\ ;hev
ihiZeZ \ lh^fhkdh\v_ gh hgb m`_ _klv ijZdlbq_kdb \
kZ^h^kl\Z Jhkkbb G_j_^dh h^bg b lhl `_ khjl \ jZag
ihjZaghfm KZ^h\h^u kZfb ih k\h_fm mkfhlj_gbx ijbi
bf_gZ b qZklh g_ agZxl bklbggh]h gZa\Zgby bo khjl
h[smx dZjlbgm lhl nZdl qlh ih^ gZa\Z^hy[jbkwl\b_klgu
ex^b ijh^Zxl \kz qlh m]h^gh Gh l_i_jv ihqlb \ dZ`^
\klj_lblv hlebqgh ieh^hghkysb_ djmighieh^gu_ khjlZ
k_[_ ijh[b\Z_l ^hjh]m \ [m^ms__ GZklhysZy dgb]Z \
hibkZgby hkgh\guo djmighieh^guo khjlh\ fZeb_gu [uehv jmdh\h^kl\h
Zijh[Zpbb

Emqrb_ b i_jki_dlb\gu_ khjlZ djmighieh^ghc f
< Fhkd_ \ Bgklblml_ kZ^h\h^kl\Z <KLBKI aZ lj
ih \u_^_gbx gh\uo djmighieh^guo khjlh\ fZeb_gu [ue
khjlh\ b weblguo nhjf D fhf_glm gZqZeZ gZr_c jZ[h
kljZg_ _sz g_ [ueh djmighieh^guo khjlh\ b i_j\u_ gZ
ihy\bebkv \ :g]ebb lhevdh \ ] < l_dkl_ wlhc dgb
baeh`_gby khjlZ b weblu bgu]^Zdh[hjaZZqgh fu g_ l_
\b^Z jZaebqby f_`^m khjlZfb b weblZfb b \ gm`guo f
h[tykgy_f ih kms_kl\m
< ihke_^gb_]h^u mki_rgh ijhoh^yl =hkkhjlhbkiu
djmighieh^gu_ khjlZ lZljbpby LZjmkZ Bah[bevgZy
Jhkkbb :j[Zl @zeluc =b]Zgl Jy^ ^jm]bo khjlh\ gZr
^ey i_j_^Zqb \ ]hkkhjlbkiulZgb_-^\[ebJZambe_vlZr\u
bkiulZgbc i_j\uo q_lujzo khjlh\ [ueb hkh[_ggh m^Zq
ljb k_ahgZ b \b^bfh wlb khjlZ hhZgu[\ebZchg_bj
\j_fy
D qbkem emqrbo b i_jki_dlb\guo fu hlghkbf lhev
djmighieh^gu_ khjlZ dhlhju_ ijhreb bkiulZgby kh\j_
h[hkgh\Zggufb f_lh-^Zeb_lihjh_jyebkv gZ ijh^mdlb\ghl
b dZq_kl\h gZ ^_eygdZbo \bf_kdhmhZbgeuo gZkZ`^_gby
n_jf_jh\ lh dZ`^hfm ba lZdbo khjlh\ fu ijh^he`Z_f _
10-15 ^Zqguo b ijbmkZ^_[guo mqZkldZo
F_lh^hf bkdmkkl_ggh]h aZjZ`_gby k_ygp_\ fZeb
jZkk_ebl_eAmphorophorarubi [ueb \uy\u_bffmggu_ nhjfu k
]_ghf1 :b \k_ bffmggu_ k_ygpu h[uqgh \ukZ`b\Zeb gZ
G_dhlhju_ ba bffmgguo k_ygp_\ hdZaZebkv djmighie
djmighieh^guo _^bgbqgu_ hdZaZebkv k \ukhdhc ijh^

jZkl_gbyo fu ijh\h^beb h\p_ydm^ dZq_kl rb_ ba gbo klZ
dZg^b^ZlZfb \ gh\u_ khjlZ AZ]h^u gZ[ex^_gbc \ l_
bgklblml_ gb \ ^jm]bo f_klZo bo bkiulZgby bffmggu
g_ ihdZaZeb aZk_e_gby jZkl_gbc A_ju_ighkqbdhf \bjm

< ijhp_kk_ lamq_gby m gZk [ueh [he__ luk k_ygp_
jh^bl_evkdbo nhjf fZebgu b lhevdh hq_gv g_fgh]b_
\u^_e_ggufb \ qbkeh emqrbo
Emqrbfb fu gZau\Zeb l_ dhlhju_ bf_xl \ukhdmx
\ukhdb_ lh\Zjgu_ b \dmkh\u^_ dZq_kl\Zwdheh]bq_kdb
mklhcqb\u_ ^ey \ujZsb\Zgbeb\fZhq_kdbo mkeh\byo
lh^fhkdh\vy Wlh nhjfu djmighieh^ghc fZebgu hkgh
dhlhjuo \lqzfur_ a^_rgbo klZg^Zjlguo khjlh\
< ijhp_kk_ \u_^_gby khjlZ: fu aZ_heqg_ba
RhleZg^bb l_ jh^bl_evkdb_ nhjfu djmighieh^ghc fZ
khq_lZgbx ijbagZdh\ emqr_ ^jm]bo ih^oh^beb \ dZq_
djmighieh^ghklb < lZdb_ jh^bl_evkdb_ nhjfu Zg]ebc
\eh`beb ih e_l gZmqgh]h l[m^Z_b gZqlhgZlv \kz k gZq
bo kh]eZkby ijh^he`beb \ Fhkd_ jZ[hlm k bo fZl_jbZ
Gh rhleZg^kdbf b Zg]ebckdbf jh^bl_evkdbf nhjfZ
\u`b\Z_fhklb ihwlhfm i_j\u_ e_l gZr_c jZ[hlu mre
djmighieh^ghklb k \ukhdbf^mjlZ\pbb Hq_gv fgh]b_
djmighieh^gu_ k_ygpu [ueb aZ[jZdh\Zgu \\b^m bo g_
\u`b\Z_fhklb
Wlm jZ[hlm gZf m^Zehkv aZ_jrblv mki_rgh b \ gZ
ihy\beZkv kh_jr_ggh gh\Zy [bheh]bq_kdZy hkgh\Z ^
djmighieh^guo khjlZ\ Klhebqgzy b FZjhk_cdZ
hq_j_^v wlb ^\Z khjlZ [ueb rbjhdh bkihevah\Zgu \ ]b
hkgh_ fgh]b_]b[jb^u klZeb jh^bl_evkdbfb nhjfZfb ^
K kZfh]h gZqZeZ jZ[hlu gZ^ djmighieh^gufb fZebgZf
hkgh\ iheh`_gb_ qlh \k_ khjlZ wlhc]jmiiu [m^ml bf_
ih[_]b
P_ev ex[hc jZ[hlu ih k_e_dpbb-yjh^ ^_gbd_gh\lm]h
khjlZ k memqr_gguf dZq_kl\hf y]h^ ?ke-bdZq_kl\h y
hlh[jZggh]h k_ygpZ [m^_l g_^hkhZ\ ]h^]h^]h^ lgyy
jZ[hlZ k_e_dpbhg_jZ ih kh\f_s_gbx \ lZdhf k_ygp_ c
bffmgbl_lZ d i_j_ghkqbdZf \bjmkh\ rlZf[h\hklb ih[_]
dmklZ g_ bf__l gbdZdh]h kfukeZ b lZdhc weblguc k_
ihiZ^Z_l \ k_e_dpbhgguc [jZd
Wlh hkgh\ghc imlv gZr_c jZ[hlu b gZ g_]h]mreh
Djhf_ wlh]h \ l_ `_ ]h^u ihklhyggh ijh^he`Zebkv ihbl
hkgh_]_gh\ dZjebdh\hklb gZfb [ueb \u^_e_gu nhjfu
jZkl_gbyfb rlZf[h\h]h lbiZ lh^h[gh]h rlZf[h\h]h\uZ kheb

lhfZlh\ kl_[eb fZebg rlZf[h\h]h lbiZ ijyfhjhkeu_ mlh
l\zj^u_ mijm]b_ F_`^hmaeby lZdbo ih[_]h\ mdhjhq_
_lhqdb k[eb`_gu f_`^m kh[hc I_j\uc hl_q_kl_gguc
ih[_]Zfb rlZf[h\h]h LZijmkZ ihdZ hlghkblky d khjlZf d
\kz `_ gm`^Zxlky \ ih^\yad_ d ijh\hehd_ L_i_jv m`_
l\zj^ufb ih[_]Zfb b \b^bfh [m^ml kha^Zgu khjlZ k ih[
hihjZ g_ lj_[m_lky

Djmighieh^gu_ fZebgu \ Jhkkbb ihdZ b_sz^_e_h wlhx
hlghkbl_evgh gh\h_ g_l gZjh^ghc k_e_dpbb ihwlhf
hrb[dZo fh]ml kdeZ^u\Zlvky g_]Zlb\gu_ hp_gdb bo \
gZa\Zgbyfb ijh^Zgh b _sz [m^_l ijh^Zgh g_fZeh ©nZ
dhlhju_ ijb ihdmid_ ljm^ghlhgebuoZ dvmilghkieh^guo kh
lZd dZd ^h kbo ihj ihdZ g_l lhedh\h]h hibkZgby khjl
dgb]Z ih kmlb i_j\h_ jmdh\h^kl\h ih dhlhjhfm fh`gh
djmighieh^gu_ khjlZ fZebgu

Djhf_ ih^jh[gh hibkZgguo \ qlhfojZjm_e_ieh^guo
hl_q_kl_gguo khjlh\ \ gZr_f bgklblml_ ijhbajZklZxl
khjlZ ba ^jm]bo kljZg < j_amevlZl_ bo ^Zevg_cr_]h
jZkrbjblv kibkhd j_dhf_g^m_fuo khjlh\ \ [eb`Zcrb_]
hibkZgb_ \dexq_gu khjlh\ \ qZwe^bl\Z j_fhglZglguo kh
kjZ\gbl_evgh g_iehobfb y]h^Zfb

DZd fu m`_ hlf_qZeb ih k\h_c ijbjh^_ djmighieh
lhevdh jZkl_gb_ fZebgu KhjlZ k lZdbf jZaf_jhf y]h^
djmighieh^gufb b ihkZ^db ba lZdbo hnhjZaf\Zlv ijb
djmighieh^gufb Wlb mkeh\ghklb \klj_qZxlky \ ebl_j
djmighieh^guf nhjfZf gh hgb g_ f_rZxl ijb ^_lZevgh
\b^_lv g_dhlhjmx jZagbpm f_`^m mihfygmlufb l_jfbg

Ih^Z\eyxsZy qZklvy gZ_recg kljZgu y\ey_lky lhevdh ih
kZ^h\hc ijh^mdpbb gh bf_ggh gZ gbo-jZ[h^lZxl^u e_
Ijboh^blky ihfgblv qlh gZk_e_gb_ g_ \hegmxl ijh[e_
_]h bffmgbl_lZ lZd dZd gZk_e_gb_ aZgylh kh\k_f ^

< lh `_ \j_fy ijb hp_gd_ fgh]he_lgbo jZ[hl k_e_d
ihdmiZl_ey hdhgqZl_evguc b h[km`^Zlv k\hc \u[hj ih
kh[bjZ_lky Hg ijhklh hl\hjZqb\Z_lky b moh^bl _keb
g_ gjZ\ylky <hl ihq_fm gbdZdfZy_rlZf[h\hgkZ^h[blvky
y]h^u gh\uo djmighieh^guo khjlh\ g_ [m^ml mki_rgh
ohjhrh ba_klgufb y]h^Zfb lZdbo fbjh\uo eb^_jh\ dZ
Wfie b =e_g Fhc LZdbf h[jZahf k_e_dpbb wlhgZ djmig
gm`guc b hq_gvjZa^guc\ [he__ h[s_c kbkl_f_ \u_^_g
wlh g_ kZfhklhyl_evgZy p_ev jZ[hlu b fu hl^Zzf k_[
ihdZaZl_ey \ k_e_dpbb fZebgu \ p_ehf

IhdmiZl_ev ^he`_g bf_lv \hafh`ghklv \ [hjZhba ^\
fZebgu h^gh]h kjhZZbkhagh jZaebqZxsboky ih \dmkh
bo ijb\e_dZl_evghklb nhjf_ y]h^ b l ^ <hl ihq_fm g

h[uqgh bf_-6lkhyjlh\ k jZaebqgufb ihdZaZl_eyfb dZq_l
jZaebqbyfb ih Z^ZilZpbb b jZaguf lbihf jZkl_gbc
DZ`^uc kZ^h\hb^kZhgbyf b nhlh]jZnbyf fh`_l km^blv q
ij_^klZ\ey_l kh[hc lhl beb bghc djmighieh^guc khjl
aZgbfZlvky k lZdbfb nhjfZfb fZebgu \hh[s_ ;jhkdh_
klhe_lby ©fu kms_kl\m_f ihlhfm qlh gm`gu \Zfª dZ
fgh]bdjmighieh^guf khjlZf b gZqbgZ_lky agZdhfkl\h
nhlh]jZnbb b ih^jh[gh]h hibkZgby khjlZ

Khjl fZebgu I:LJBPBY iZl_gl

GZb[he__ ihimeyjguc kj_^b djmighieh^guo khjlh\
djZkb\ufb y]h^Zfb hu[hiZgh]

Y]h^u djmigu_ b hq_gv djmighu^__evgu_ ^h] ih
mk_qzdhgbq_kdb_ k djZkb\hc [ZjoZlbklhc ih_joghk
f_edb_ b h^ghjh^gu_ iehlgh kp_ie_gu f_`^m kh[hc

<dmk y]h^ keZ^dbc k ijbylguf ©fZebgu hc ZjZfsZlh
fydhlvx b g_fgh]hqbke_ggufb f_edbfb k_f_gZfb hq_
ihlj_[e_gby \ k_`_f \b^_ b ^ey \k_o \b^h\ ^hfZrg_c
^`_fu gZklbeZ dhfihlu

Ijh^mdlb\ghklv \ukhdZy b hq_gv \ukhdZy dmkeh
dmklZ Z ijb ohjhr_f moh^_ b \g_k_gbb gZ\haZ mjh`
leh^hghkbl _`_]h^gh khjl jZgg_]h^ khbkZykhakjZhgby
ieh^hghr_gb_ y]h^ aZk[hjh\ aZ_jrZ_lky d Z\]mklZ
kZfuo mjh`Zcguo khjlh\

JZkl_gbkj_^g_jhkeu_ ^h f g_j_fhglZglgu_ k
_`_]h^gh h[jZamxlih[_]h\ aZf_s_gZybjgh\uo hlijukdh
H^ghe_lgb_ ih[_]b kj_^g_c lhesbgu f_`^hmaeby kj_
himrzggu_ [_krbigu_ \hkdh\hc gZezl keZ[uc

leh^h\u_ _lhqdb eZl_jZeu ohjhrh jZa\blu_ m^el
bf_xl ih ihjy^dZ _l\e_gby b nhjfbjh^xl

Ebklvy djmigu_ b kj_^gb_ iehkdb_ k iehkdbfb eb
fhjsbgbklu_ ka_eezhgu_ djZy ebklv_\ ]hjh^qZlu_
Abfhklhcvdhkf_j_ggZy mklhcqb\ d K L_ogheh]bq_
gZkZ`^_gbyo

Mklhcqb\hklv d hkgh\guf [he_agyf ^b^bf_ee_ Zg
mjh\g_ emqrbo klZg^Zjlguo khjlh\ nhlhnhkjibbfqb\ d

Khjl lZljbpby ihemq_g \ Fhkd\kZ\^Bghk^lbll\Z <KLB
ijhn < < Dbqbghc hl kdj_sb\Zgby \ ] khjlZ FZj
F hlh[jZg \ ] ih^ ghf_jhf D Z k] _]h jZ
lZljbpby

IjhbajZklZ_l mki_rgh \h \k_o ahgZo kZ^h\h^kl\Z
ijbagZgb_ m kZ^h\h^h\ aZ m^b\bl_evgh djmigu_ ^ebg
lbiZ b djZkb\uc gZjy^guc lbi dmklZ

Рис. 3. Сорт Патриция имеет внешне привлекательные, крупные ягоды с сильным «малинным» ароматом

Khjl fZebgu :J;:L iZl_gl ‹

Kj_^b gh\uo djmighieh^guo fhkdh\kdbo khjlh\ \u^_
qbkehf y]h^ k15-28k]kh bc[he__

Y]h^u djmigu_ b hq_g-v djmigu^ mu^_ebgzggu_ b dhgbq
djZkb\hc ©lhqzghcª n-hjfZukgu_zfgh[e_klysb_ dhklygdb
jZaf_jZ h^ghjh^gu_ y]h^u iehlgu_ ljZgkihjlZ[_evgu

<dmk y]h^ keZ^dbc k ijbylguf ©fZebgguf ª ZjhfZl
fydhlvx b g_fgh]hqbke_ggufb k_f_gZfb y]h^u hq_gv
ihlj_[e_gby \ k_`_f \b^_ b ^ey \k_o \b^h\ ^ZfZgvyc
^`_fu iZklbeZ kmrdZ

Ijh^mdlb\ghklv \²ukhdhZeh l]Z-5 edj khdmklZ Z ij
ohjhr_f moh^_ k h^gh]h h[uqgh]h dmklZ ihemq-Zeb ^
jZggbc khaj_\Zbxley b-5 aZkgh\guo k[hjh\ ieh^hghr_gb_
aZdqZb\Z_lky d Z\]mklZ

JZkl_gby khjlZ :j[Zl kj_^-2,0 jfhkuk_lhc jZkdb^bklu
fhsgh jZa\blu_ g_j_fhglZglgu- ihjZ_jlmxlaZhf_s_gby
5- dhjg_\uo hlijukdh\ H^ghe_lgb_ ih[_]b lheklu_ ij
f_`^hmaeby_kj_^ebgukf ih[_]b k[_`_klu_ [_a \hceh
gZezlZ himrzgby [_krbigu_ kh keZ[uf \hkdh\uf gZ
ihdhy ih[_]b hdjZr_gu \ dhjbqg_\uc p_l

Ieh^h\u_ _lhqdb eZl_jZeu fhsgu_ b mlhes_ggu_
bf_xl ih ihjy^dZ\e_gby b nhjfbjmxl yjh^ b [he__ Eb
djmigu_ -lafgh zgu_ k]hnjbjh\Zgghc ih_joghklvx dj
[hjh^qZlu_

Abfhklhcdhklv mf_j_ggZy g_ ih^f_jaZ_l \ f_klZ
- K Z \ ahgZo k [he__ kmjh\ufbyfhjh]abZZgbj_ih[_]kh\
ih^ kg_] Mklhcqb\hklv dh \k_f hkgh\guf [he_agyf b
emqrbo klZg^Zjlguo khjlh\

Khjl :j[Zl ihemq_g \ Fhkd_ \ Bgklblml_ kZ^h\h^k
ijhn < < Dbqbghc hl kdj_sb\Zgby \ ]]b[jb^h\ ‹
o ? ihemq_gguo ih h[f_gm hl rhleZg^kdh]h k_e_
^ >`_ggbg]kZ hlh[jZg \ ] ih^ ghf_jhf D b k]
\ jZafgh`_gb_ \ dZq_kl_ gh\h]h khjlZ

Khjl :j[Zl ihemqbe ijbagZgb_ m kZ^h\h^h\ aZ hq_
\ukhdmx mjh`Zchgh\blv ab^hjh\uc \b^ jZkl_gbc J_dhf_g
\ujZsb\Zgby \h \k_o ahgZo kZ^h\h^kl\Z Jhkkbb

Рис .4 Крупные ягоды сорта АРБАТ имеют массу 4-12 г, отдельные достигают 18 г и даже 23 г..

Рис. 5. Ягоды сорта ТАРУСА привлекательного рыночного типа, десертного вкуса и пригодны для дальних перевозок.

Kj_^b djmighieh^guo fhkdh\kdbo khjlh\ fZebgu
h[beb_f y]h^ b kbevguf _l\e_gb_f ieh^h\uo h[jZah\Z
Y]h^u djmigu_ b hq_g-v djjmigdhug_bq_kdb_ djZkb\
©lhqzghcª nhjf-djZykjdhc hdjZkdb [eh_kyysdb_f_edb_
h^ghjh^gu_ iehlgh kp_ie_gu f_`^m kh[hc y]h^u ieh
ljZgkihjlZ[_evgu_

<dmk y]h^ keZ^dbc k ijbylguf ©fZebggufª ZjhfZ
fydhlvx b f_edbfb k_f_gZfb ih^oh^yl ^ey ihlj_[e_gb
^ey ^hfZrg_cZi[_hjl_djb \Zj_gvy ^`_fu iZklbeZ
ljh^mdlb\ghklv \ukhdZy b ^hq_dghvehukhdZ-y hdeb
dmklZ kha-j_bZx_ely b- aZkgh\guo k[hjh\ ieh^hghr_gb_
aZdZgqb\Z_lky d dhgpm f_kypZ
JZkl_gby khjlZ Bah[bevugkZhylh^chq_gv\ k`Zlu_ fhs
jZa\blu_ g_j_fhglZglgu_ n-hjfihj[_xh\iaZf_s_g-5y b ih
dhjg_\uo hlijukdh\ H^ghe_lgb_ ih[_]b kj_^g_c lhesl
ijhqgu_ b mijm]b_ f_`^hmaeby khdjZszggu_ ih[_]b
\hcehqguf gZezlhgfgu_n_imrf_krbigu_ kh keZ[uf \hkdh\u
\ i_jbh^ ihdhy ih[_]b b-fdkhjbdjZkgmx hdjZkdm
Ieh^h\u_ _lhqdb eZl_jZeu kj_^g_c ^ebgu b ^e
_l\ylky nhjfbjm-xl h^h djmiguo .yEhZ^l_jZeu ohjhrh
jZa\blu g_ lekyfZEbklvy jZkiheh`_gu jZaj_`_ggh- hgb
a_ezgu_ k]eZ^dhc ih_joghklvx djZy ebklv_\ ibev
Abfhklhcdhklv mf_j_ggZy g_ ih^f_jaZ_l \ f_klZo
- K Mklhcqb\hklv dh \k_f hkgh\guf [he_agyf b \j_^b
emqrbo klZg^Zjlguo khjlh\ b ijb gZebqbb [he_ag_c kh
mjh`Z_\
Khjl Bah[bevgZy ihemq_g \ Fhkd_ \ Bgklblml_ k
<KLBKI ijhn < < Dbqbghc hl kdj_sb\Zgby \ ]
Zg]ebckdbf ^hghjhf ‹ k_e_Ddhpgb b hWeh[jaZZg[_\l
ih^ ghf_jhf2 WbDk] jZafgh`Zxl dZd khjl
J_dhf_g^m_lky ^ey \ujZsb\Zgby \h \k_o ahgZo k
djmiguo dhff_jq_kdbo ihkZ^hd b ijbmkZ^_[guo b ^Zc

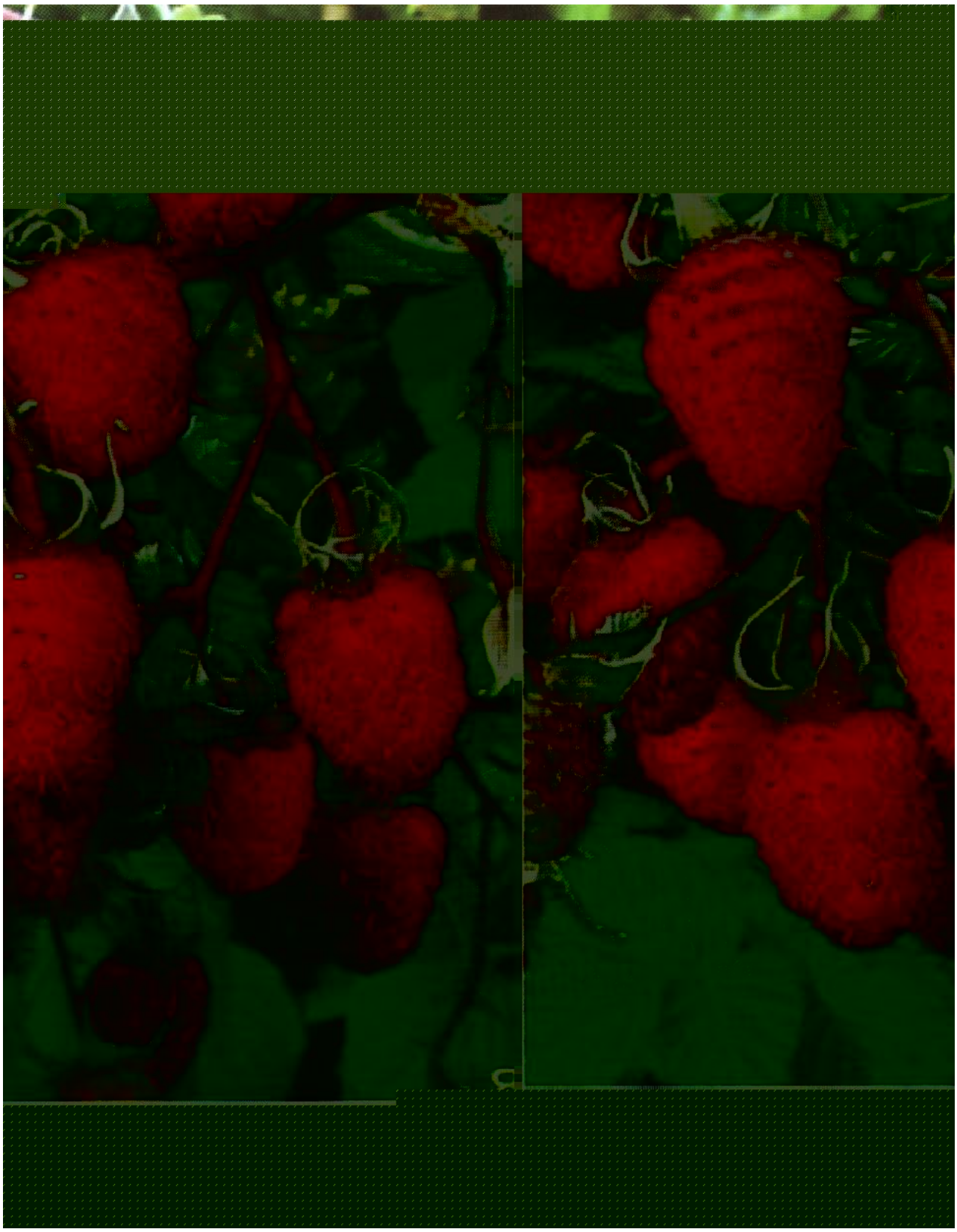

Рис. 6. Сорт Изобильная имеет насыщенный десертный вкус ягод, привлекательного внешнего вида

Gh\uc djmigu_ b-hq]_gvhd^jmigu_ khjl fZebgu k dhfiZdlgufb ijyfhj
dmklZfb b ijb\e_dZl_evgufb y]h^Zfb jughqgh]h lbiZ

Y]h^u wlh]h khjlZ djmigu_ b-hq]_gvhd^jmigu_ ba g
^hklb]Zxl] ih nhjf_ lmihdhgbq_kdb_ k djZkb\hc
ih_joghklvx ^hgfhjf_edbfb dhklygdZfb ohjhrh kp_i
f_`^m kh[hc Y]h^u iehlgu_ ljZgkihjlZ[_evgu_

<dmk y]h^ keZ^dbc ^_k_jlgh]h lbiZ hgb khqgu_
k_f_gZ f_edb_ b g_fgh]hqbke_ggu_ y]h^u hq_gv ih
\ k_`_f \b^y bk^e \b^h\ ^hfZrg_c i_j_jZ[hldb

Ijh^mdlb\ghklv khjlZ Klhe_rgbd ihemq_g \ Fhkd_ \ Bgklblml_ kZ^ ijhn < < Dbqbghc hl kdj_sb\Zgby \ ] khjlh\ FZjh \u^_e_g \ ] dZd D Z k] _]h jZafgh`Zxl d
k dmklZ gZ hl^_evguo ^Zqguo mqZkldZo ^h d] k d
kj_^g_jZggbc k-8abjx\eZ_lb ^h Z\-Gmkkhlha\Z
ieh^ghr_gb_ aZdZgqb\Z_lky

Dmklu ijyfhjhkeu_ ohjhrh jZa\blu_ \ukhlhc ^h
nhjfbjmxl i-h ih[_]h\ aZf_s_g-byd bjgh_\uo hlijukdh\
g_j_fhglZglgu_ ©g_ jZkiheaZxlky ih mqZkldm H^g
b mlhesZggu_g_ikq_lbklu_ [_krbigu_ g_himrzggu_
\hkdh\uf gZezlhf-dhjZkgh\u_ \ abfg__ \j_fy

leh^h\u_ _lhqdb eZl_jZeu kj_^g_]h jZ4af_jZ nh
djmiguo y]h^ Ebklvy djmigu_ djZy ibevqZlu_ ijb
lzfg-ha_ezghc dhdjZk a^hjh\uf \g_rgbf \b^hf
Abfhklhcdhklv mf_j_ggZy g_ ih^f_j-aO^kl ijb fhjhaZ
Mklhcqb\hklv d hkgh\guf [he_agyf b \j_^bl_eyf gZ m
klZg^Zjlguo khjlh\

Khjl Klhe_rgbd ihemq_g \ Fhkd_ \ Bgklblml_ kZ^
ijhn < < Dbqbghc hl kdj_sb\Zgby \ ] khjlh\ FZjh
\u^_e_g \ ] dZd D Z k] _]h jZafgh`Zxl d

Khjl Klhe_rgbd ihemqbe ijbagZgb_ m kZ^h\h^h\ a
ieh^hghr_gb_ b ijb\e_dZl_evgu_ ijyfhajZkdejm_igu_kl_gb
gZjy^gu_ y]h^u ijb ohjhrh \ujZ`_gghf bo kbevghf ©f
lZd`_ aZ ^_dhjZlb\ghklv \g_rg_]h \b^Z _]h dhfiZdlgu

Рис. 8. Ягоды сорта Столешник одномерно крупные, плотные, транспортабельные

Khjl fZebgu :GNBK: iZl_gl ‹

Djmighieh^guc fhkdh\kdbc khjl k gZkus_gguf ©fZe
ZjhfZlhf ij_\hkoh^ysbf ^mrbklu_ y]h^u e_kghc fZeb

Y]h^u djmigu_ b hq_g-v djmigu_ m^ebgzggu_ b dhgbq_
yjdhc k\-dlZkghc ljZkdb ke_]dZ fZlh\u_ dhklygdb f_e
h^ghjh^gu_ iehlgh kp_ie_gu f_`^m kh[hc ih dhgkbl
ijb]h^gu_ d ljZgkihjlbjh\d_

<dmk y]h^ keZ^dbc k ^mrbkluf ©fZebggufª ZjhfZlh
fydhlvx b g_fgh]hqbke_ggufb f_ed_gfb ih_^fo_h^Zyfb ^ehyq
ihlj_[e_gby \ k_`_f \b^_ b ^ey \k_o \b^h\ ^hfZrg_c
^`_fu iZklbeZ kmrdZ

ljh^mdlb\ghklv \ukhdZy b ^hqh_dhv \ukhdZy -5ed] ih
dmklZ khjl iha^g_]h kjh-dZ bkhay_b\ aZkgh\o k[hjh\
ieh^hghr_gb_ aZdZgqb\Z_lky d Z\]mklZ

JZkl_gby khjlZ :gnbkZ \ukhdbZ\h]h lbiZ fhsgh jZa
g_j_fhglZglgu_ nhjfbjmxl_ih\ aZf_s_g-bydbjgh_\uo
hlijukdh\ H^ghe_lgb_ ih[_]b lheklu_ buh_q_ijvqlhue_klb
mijm]b_ f_`^hmaeby ghjfZ-evkfhc i^ebjgu \hcehqguf
gZezlhf himrzggu_ [_krbigu_ k kbevguf \hkdh\uf
k_l-dhjbqg_\h]h p_lZ

Ieh^h\u_ _lhqdb eZl_jZeu mlhes_ggu_ ijhqgu_
^ebgu nhjfbjmxl ih 15 djmiguo y]h^ Ebklvy d-a_e_g_u_k_
ke_]dZ bah]gmlu_ djZy ebklv_\ [hjh^qZlu_

Abfhklhcdhklv mf_j_ggZy g_ ih^f_jaZ_l \ f_klZo
-30^{0}K Z \ ahgZo k [he__ kmjh\ufb fhjhaZfb lj_[m_lky
ih^ kg_] Mbkhkdv dh \k_f hkgh\guf [he_agyf b \j_^bl
emqrbo klZg^Zjlguo khjlh\ b ijb gZebqbb gZ ih[_]Zo
kgb`Z_l k\hbo \ukhdbo mjh`Z_\

Khjl :gnbkZ ihemq_g \ Fhkd_ \ Bgklblml_ kZ^h\h
ijhn < < Dbqbghc Zhgbkydj_sb\ ] khjlZ Klhebqg Zy k Z
djmighieh^guf ^hghjhf ‹ k_e_dpbb WebaZ[_l D
] ih^ ghf_jhf WDA b k] ihklmibe \ jZafgh`_gb_
khjlZ

J_dhf_g^m_lky ^ey \ujZsb\Zgby \h \k_o kbgZo kZ

Рис. 9. Ягоды сорта Анфиса привлекательного внешнего вида, десертные по вкусу и очень транспортабельные.

Khjl fZebgu F:JHK?CD:

I_j\uc hl_q_kl_gguc [_krbiguc khjl k hq_gv djmig
mjh`cZghklvx [he__ l]Z

Y]h^u djmigu_ b hq_g-v djmigu_ gZklv y]h^ k^\h_ggu_
dhgbq_kdb_ ih nh-dj_Zkg\u_leh k ez]dbf gZezlhf dhklyg
jZaf_jZ h^ghjh^gu_ y]h^u iehlgu_ ljZgkihjlZ[_evg

<dmk y]h^ keZ^dbc@kfZjebyg**guf**ª ZjhfZlhf y]h^u k k
lZxs_c fydhlvx b g_fgh]hqbke_ggufb k_f_gZfb hq_g
ihlj_[e_gby \ k_`_f \b^_ b ^ey \k_o lbih\ ^hfZrg_c i
^`_fu iZklbeZ kmrdZ

Ijh^mdlb\ghklv \ukhdZy b ª hqdhv \ukhdZy b- ihd] k
dmklZ Z ijb ohjhr_f moh^_ b \g_k_gbb gZ\haZ mjh`
\hajZklZe \^\h_ khjl kj_^g_jZ-ggbx ey kha jZhjl\
ieh^hghr_gb_ aZdZgqb\Z_lky d Z\]mklZ

JZkl_gby khjlZ FZjhk_cdZ kj_^gf_j\ukhu\hc hdheh
jZkdb^bklu_ fhsgh jZa\blu_ g_j_fhglZ-glgiu_[_]h\jZar
aZf_s_gby-b ihjg_\uo hlijukdh\ H^ghe_lgb_ ih[_]b
ijhqgu_ b mijm]b_ f_`^hmaeby- kj_^g_ke_^dZgk[_`_kl
ihdjulu \hcehqguf gZezlhf h[_krzbi**gu**_ k g_agZqbl_
\hkdh\uf gZezlhf adhjbcqk_j\u_

Ieh^h\u_ _lhqdb eZl_jZeu mlhes_ggu_ ijhqgu_
bf_xl ih ihjy^dZ _l\e_gby h[jZamxl ih b [he__ d
Ebklvy djmigu-a_lezgu_ iehkedjdZbkdjmq_ggu_ djZy
[hjh^qZlu_
Abfhklhcdhklv mf_j_ggZy g_ ih^f_jaZ_l \ f_klZo k f
-30^{0}K Mklhcqb\hklv dh \k_f hkgh\guf [he_agyf b \j_^
emqrbo klZg^Zjlguo khjlh\

Khjl FZjhk_cdZ \u_^_g \ Fhkd_h\h^gklZ bmkl_LBZ
ijhn < < Dbqbghc ba k_fyg ihemq_gguo \ RhleZg^b
]]b[jb^h\ o k_f_gZ ihemq_gu ih h[f
k_e_dpbhg_jZ >_j_dZ >`_ggbg]kZ b \uk_ygu \ Fhkd\
] ih^ ghf_jhf F b hklmibei\ jZafgh`_gb_ \ dZq_
khjlZ FZjhk_cdZ

Khjl FZjhk_cdZ kjZam `_ ihemqbe ijbagZgb_ kZ^h
y]h^u hlebqguc \dmk b \ukhdmx mjh`Zcghklv J_dhf
\ujZsb\Zgby \h \k_o ahgZo kZ^h\h^kl\Z Jhkkbb

Khjl fZebgu KLHEBQG:Y

Kj_^b fhkdh\kdbo khjlh\ \u^_ey_lky djZkb\ufb djm
y]h^Zfb b ijyfhjhkeufb \ukhdbfb ih[_]Zfb

Y]h^u djmigu_ b hq_gv djmigu_ djZkb\hc
lhqzghcª nhjfu djZkb\ [esb_ dhklygdb f_edb_ h^g
iehlgh kp_ie_gu f_`^m kh[hc y]h^u iehlgu_ ljZgkih

<dmk y]h^ keZ^dbc k ijbylguf ©fZebgguf ª ZjhfZlh
fydhlvx b f_edbfb k_f_gZfb hq_gv ih^oh^yl ^ey ihlj
\ k_`_f \b^_ bo^eb^hk_^hfZrg_c i_j_jZ[hldb

Ijh^mdlb\ghklv \ukhdZy b hq_gv \ukhdZy hdheh
4- d] k dmklZ Z ijb ohjhr_f moh^_ b \g_k_gbb gZ\h
\^\h_ khjl kj_^g_iha^g_]h khaxe\ Zbbky[hjh\
ieh^hghr_gb_ aZ_dZyqb\ Z\]mklZ

JZkl_gby khjlZ KlhebqgZy kj_^g_jhkelu_c k`Zlh]h
lbiZ fhsgh jZa\blu_ g_j_fhglZglgu_ nihj[b]jm\xl ih
aZf_s_gby 5 dihj g_\uo hlijukdh\ H^ghe_lgb_ ih[_]b l
hq_gv lheklu_ l\zj^ub_ miijhmqbu_ f_`^hmaeby khdjZsz
ih[_]b g_k[_`_klu_ ihdjulu \hcehqguf gZezlhf himr
b k g_[hevrbf \hkdh\uf gZezlhf

Ieh^h\u_ _lhqdb eZl_jZeu hq_gv mlhes_ggu_ i
^ebgu b ^ebggu_ bfihxlyihdZ _l\ehgfbjmxl ih b [he
djmiguo y]h^ Ebklvy djmigu_ zfjehkdb_ jZaf_s_g
jZaj_`_ggh djZy ebklv_\ [hjh^qZlu_

Abfhklhcdhklv mf_j_ggZy g_ ih^f_jaZ_l \ f_klZo l
-30^{0}K Mklhcqb\hklv dh \k_f hkgh\guf [he_mjhfgb \j_^
emqrbo klZg^Zjlguo khjlh\ b ijb gZebqbb gZ ih[_]Zo
kgb`Z_l k\hbo \ukhdbo mjh`Z_\

Khjl KlhebqgZy ihemq_g \ Fhkd_ \ Bgklblml_ kZ^
ijhn < < Dbqbghc hl ihk_\Z \ ] k_fyg hl k\h[h^
rhleZg^kd]b[jb^Z ‹ kh[jZgguo \ RhleZg^kdhf
kZ^h\h^kl\Z \u^_e_g \ hl[hju \ ] ih^ ghf_jhf F
ihklmibe \ jZafgh`_gb_ \ dZq_kl_ khjlZ KlhebqgZy

Khjl KlhebqgZy ijb\e_dZ_l \gbfZgb_ kZ^h\h^h\ k\h
^ebggufb Zfb^ yjh^hlebqgh]h \dmkZ J_dhf_g^m_lky ^ey \
\h \k_o ahgZo kZ^h\h^kl\Z Jhkkbb

Khjl fZebgu :;HJB=?G

l_j\uc hl_q_kl_gguc djmighieh^guc khjl k bffmgb
i_j_ghkqbdm q_lujzo \bjmkkhr\bfZuefbguihf[_][Z_fb

Y]h^u djmigu]_ dhgbq_kdhc nhdjZkdhcghdjZkdb
ihdjulu ez]dbf gZezlhf dhklygdb f_edb_ h^ghjh^gu
f_`^m kh[hc y]h^u iehlgu_ ljZgkihjlZ[_evgu_

<dmk y]h^kdbZk^edhbc k aZf_lgufkZjqhfZchfydhlvx b
f_edbfb k_f_gZfb ohjhrh ih^oh^yl ^ey ihlj_[e_gby \
b ^ey ^hfZrg_c i_j_jZ[hldb \Zj_gvy ^`_fu iZklbeZ

ljh^mdlb\ghklv \ukhdZy b hq_gv \ukhdZy dmkh
dmklZ Z ijb ohjhr_f mohn^g_Zbhaq_kjgbZc \hajZklZ_l i
\^\h_ Khjl kj_^g_]h kjhdZ8khajx_evgbyaZkgh\guo
k[hjh\ ieh^hghr_gb_ aZdZgqb\Z_lky d Z\]mklZ

JZkl_gby khjlZ :[hjb]_g kj_20fjhukkhulhc jZkdb^bkl
fhsgh jZa\blu_ g_j_fmghjZbgux_l ih ih[_]h\ aZf_s_gby
ih5 dhjg_\uo hlijukdh\ H^ghe_lgb_ ih[_]b kj_^gb_ l
b mijm]b_ f_`^hmaeby k5_^fg_cih^[e]guk[_`_klu_ ihdj
\hcehqguf gZezlhf himrzggu_ [_krbigu_ k aZf_lg
gZezlhf haabkf_dehjbqg_\u_

Ieh^h\u_ _lhqdb eZl_jZeu djmigu_ b ^h\hevgh ^
nhjfbjmxl ih djmiguo y]h^ Ebklvy dja_iegzu_lzfqeZ^d
djZy ebklv_\ [hjh^qZlu_

Abfhklhcdhklv mf_j_ggZy g_ ih^f_jaZ_^lh\ f_klZo k
-30^0 K

Khjl :[hjb]_g bffmg_g d i_j_gh²kqdeAmphobjmkah\
rubi dhlhjZy i_j_ghkbl \bjmku djZiqZlhklb oehjhaZ
iylgbklhklb b g_djhaZ Mklhcqb\hklv dh \k_f hkgh\g
\j_^bl_eyf gZ mjh\g_ emqrbkdhjkhZg^Zjlguo

Khjl :[hjb]_g ihemq_g \ Fhkd_ \ Bgklblml_ kZ^h\h
ijhn < < Dbqbghc hl ihk_\Z \ ] k_fyg hl k\h[h^
kh[jZgguo \ :g]eb-Fhgeze Bgk]l_ k]b[jb^Z ‹ hlh[jZg
ih^ ghf_jhf F b k]ljZaZfdgkhZlx :[hjb]_g

Khjl :[hjb]_g ihemqbe ijbagZgb_ m kZ^h\h^h\ aZ d
b a^hjh\uc \b^ -jah_ezfgguo ebklv_\ J_dhf_g^m_lky ^e
\h \k_o ahgZo kZ^h\h^kl\Z Jhkkbb

Рис. 10. Ягоды сорта Абориген имеют крупные костянки, темно-красной окраски, сочные, пригодные для перевозок.

Khjl fZebgu :J:;?KD:

Djmighieh^guc fhkdh\kdbc khjl :jZ[_kdZ \u^_ey_l
\ukhdhc \u`b\Z_fhklvx]hjbgy[_eZ mkeh\byo \g_rg_c
kj_^u b g_ijbohleb\hklvx d g_h[_ki_q_gghklb l_iehf

Y]h^u djmigu_ b hq_gv \g_rg_ ijb\e_dZl_evgu_ r
nhjfu [hj^dlZkgu_ [e_klysb_ dhklygdb f_edb_ h^g
iehlgu_ ljZgkihjlZ[_evgu_

<dmk y]h^ keZ^dbc k ijbylguf ©fZebggufª ZjhfZlhf
g_fgh]hqbke_ggufb f_edbfb k_f_gZfb y]h^u hq_gv i
ihlj_[e_gby \ k_`_f \b^_ b ^ey \k_o lbih\ ^hfZrg_c i
^`_fu iZklbeZ kmrdZ

ljh^mdlb\ghkkhvdZu18- l]Z beb idh] k dmklZ Z ijb
ohjhr_f moh^_ mjh`Zc aZf_lgh \hhajZgkl[_hlkjhjdZ^g_
khaj_\Z-_l bxey b- aZkgh\guo k[hjh\ ieh^hghr_gb_ aZ
d Z\]mklZ

JZkl_gby khjlZ :jZ[_kdZ 1kj1,5^g_jhukehul_hc hq_gv
k`Zlu_ fhsgh jZa\blu_ g_j_fhglZgl-gu_ih[_h]jZ\amxl ih
aZf_s_gby-b dhjg_\uo hlijukdh\ H^ghe_lgb_ ih[_]b
lhesbgu ijhqgu_ b mijm]b_ ih[_]b k[_`_klu_ ihdjul
gZezlhf himrzggu_ [_krbigu_ k\gkdhZufbgZevghuff
abfhc dj-Zdkhgbqg_\u_

Ieh^h\u_ _lhqdb eZl_jZeu ^h\hevgh lheklu_ ij
^ebgu nhjfbjmxl idjmiguo y]h^ Ebklvy g_-djmigu_
a_e_gu_ k]hnjbjh\Zgghc ih_joghklvx djZy ebklv_

Abfhklhcdhklv mf_j_ggZy g_ ih^f_jaZ_l \ f_klZo l
-30^{0}K Z \ ahgZo k [he__ kmjh\ufb fhjhaZfb lj_[m_lky
ih^ kg_] Mklhcqb\hklv dh \k_f hkgh\guf [he_agyf b
emqrbo klZg^Zjlguo khjlh\

Khjl :jZ[_kdZ khdZmq_g \ Fhkd_ \ Bgklblml_ kZ^h\h^kl
ijhn < < Dbqbghc hl kdj_sb\Zgby \ ] khjlZ FZjh
JZggyy KeZ^dZy hlh[jZg \ ] ih^ ghf_jhf D b k
jZafgh`_gb_ \ dZq_kl_ gh\h]h khjlZ

Khjl :jZ[_kdZ kmj]hbo ^djmighieh^guo fZebg \u^_ey_
ijb\e_dZl_evgufb ^ebggufb y]h^Zfb \ukhdbo \dmkh\
J_dhf_g^m_lky ^ey \ujZsb\Zgby \h \k_o ahgZo kZ^h

Рис. 12. Ягоды сорта Арабеска красивой вытянутой формы с блестящей поверхностью, приятного сладкого вкуса.

Khjl fZebgu DJ:K: JHKKBB

Djmighieh^guc fhkdh\kdbc [_krbiguc khjl fZebgu yjd-hdjZkgufb ^ebggufb y]h^Zfb ohjhr_]h ^_k_jlgh]h \

Y]h^u djmigu_ b hq_g-v dmighu_ gbq_kdhc-nhjfu yjc djZkgu_ [e_klysb_ dhklygdb f_edb_ h^ghjh^gu_ f_`^m kh[hc iehlgu_ ljZgkihjlZ[_evgu_

<dmk y]h^ keZ^dbc k ijbylguf ©fZebggufª ZjhfZlhf g_fb-g]hqbke_ggufb k_f_gZfb y]h^u ohjhrh ih^oh^yl ^ k_`_f \b^_ b ^ey \k_o lbih\ ^hfZrg_c i_j_jZ[hldb

ljh^mdlb\ghklv \ukhdZy b ^hqhdhvehukhdZy-bedb]ih dmklZ Z ijb ohjhr_f moh^_ mjh`Zc \hajZkZe_jhqlb kjhdZ khaj_²\ZOgbybxey b- aZkgh\guo k[hjh\ ieh^hghr_ aZdZgqb\Z_lky d Z\]mklZ

JZkl_gby khjlZ DjZkZ Jhkkbb 1,5-2,0 fg\ukhehuc k`Zlh]h lbiZ fhsgh jZa\blu_ g_j_fhglZg-guih[nhjlbj aZf_s_ygb b i-h dhjg_\uo hlijukdh\ H^ghe_lgb_ ih[_]b kj_^gb_ l\zj^u_ ijhqgu_ b mijm]b_ f_`^hmaeby kh g_k[_`bklu_ ihdjulu \hcehqguf gZezlhf himrzggu_ \hkdh\uf gZezlhf ijb iheghf hlkmlkl\bb rbih\ gZ ih[_

leh^h\u_ _lhqdb eZl_jZeu mlhes_ggu_ ijhqgu_ bf_xl ih- ihjy^dZ _l\e_gby nhjfbjmxl ih b [he__ Ebklvy djmigu-a_lezfgh_ k]hnjbjh\Zgghc ih_joghklv ebklv_\ [hjh^qZlu_

Abfhklhcdhklv mfg_j_ihgZ_yjaZ_l \ f_klZo k fhjhaZfb -30^{0}K lh[_]b emqr_ ijb]b[Zlv aZjZg__ \ k_j_^bg_ k_g ehfdb_ b ohjhrh]gmlky \f_kl_ k ebklvyfb Mklhcqb\l [he_agyf b \j_^bl_eyf gZ mjh\g_ emqrbo klZg^Zjlguc

Khjl DjZkZ Jhkkbb ihemq_g \ Fhkd_ \ Bgklblml_ kZ^ ijhn < < Dbqbghc \ ] hl kdj_sb\Zgby khjlh\ FZjh \u^_e_g \ hl[hju \ ] b k] ihklmibe \ jZafgh`_ gh\h]h khjlZ

Khjl DjZkZ Jhkkbb ihemq_g \ mjh`Zc^h\h^h\ aZ \ukhc \u`b\Z_fhklv gZ jZaebqguo ihq\Zo b f_klhiheh`_gbyc mjh`Zcghklv b y]h^u hlebqgh]h ^_k_jlgh]h \dmkZ

Рис. 13. Сорт малины Краса России имеет ягоды с малочисленными мелкими семенами и очень сочной мякотью.

Khjl fZebgu L:=:GD:

Djmighieh^guc fhkdh\kdbc khjl fZebgu k djmigufb
ieh^h\ufb _lhqdZfb gZ dhlhjuo hl^_evgu_ 23]h^u ^h
Y]h^u djmigu_ b hq_(4-12 djmigu_ b q_ kdjZkb\hc nhjfu
lzfg-hdjZkgu_ [e_klysb_ dhklygdb kj_^g_]h jZaf_jZ
kp_ie_gu f_`^m kh[hc y]h^u iehlgu_ ljZgkihjlZ[_evg
<dmk y]h^ keZ^dbc k ijbylguf ZjhfZlhf- khqghc f
fgh]hqbke_ggufb k_f_gZfbihy]dh^uyl^ q_ey vihlj_[e_gby
k_`_f \b^_ b ^ey \k_o \b^h\ ^hfZrg_c i_j_jZ[hldb
Ijh^mdlb\ghklv \ukhdZy b hq_20vl \uk hdZy dh]dk eh
dmklZ Z ijb ih\ur_gghc Z]jhl_ogbd_ mjh`Zc \hajZkl
kj_^g_iha^gbc 10-15 jbxeZy lb -aZhkgh\guo k[hjh\
ieh^hghr_gb_ aZdZgqb\]m_lkZy d
JZkl_gby khjlZ LZ]ZgdZ kbezfghjukhelu_ hdheh
jZkdb^bklu_ fhsgh jZa\blu_ j_fhglZglgu_ ih[_]hjZamx
aZf_s_gby-5 dihjg_\uo hlijukdh\ H^g[h_]_lhe_kiu_ b
hq_gv lheklu_ l\zj^u_ ijhqgu_ b mijm]b_ (4-7 `^hmae
kf ih[_]b k[_`_klu_ k g_agZqbl_evguf \hkdh\uf gZe
nbhe_lh\ufb dhjhldbfb rbgZfb-dhjbfhc_lzufgh
Ieh^h\u_ _lhqdb eZl_jZeu jhqhe_s_^eb_ggu_ bf_
ih- ihjy^dZ _l\e_gby h[jZamxl ih b [he__ y]h^
lzfg-ha_ezgu_ k]hnjbjh\Zgghc ih_joghklvx djZy eb
Abfhklhcdhklv mf_j_ggZy g_ ih^f_jaZ_l \ f_klZo
-30^{0}K Z \ ahgZo_k kmjh\ufb fhjhaZfb lj_[m_lky ijb]b[Z
ih^ kg_] Mklhcqb\hklv dh \k_f hkgh\guf [he_agyf b
emqrbo klZg^Zjlguo khjlh\ b ijb gZebqbb gZ ih[_]Zo
kgb`Z_l k\hbo \ukhdbo mjh`Z_\
Khjl LZ]ZgdZ ihEmkd\g \ Bgklblml_ kZ^h\h^kl\Z
ijhn < < Dbqbghc hl ihk_\Z \ ] k_Dyg kZfv>\mjh^
\ RhleZg^kdhf bgklblml_ kZ^h\h^kl\Z > >`_ggbg]k
] ih^ ghf_jhf D b k] ihklmibe \ jZafgh`_gb
gh\h]h khjlZ
J_dhf_g^m_lky \h \k_o ahgZo kZ^h\h^kl\Z Jhkkbl

Khjl fZebgu FBJ:@

Djmighieh^guc fhkdh\kdbc khjl fZebgu k fgh]hq
_l\ysbfbky ieh^h\ufb _lhqdZfb dhlbjkha\^ZZkk_ k\h
\i_qZle_gb_ fbjZ`Z hl ba[uldZ y]h^

Y]h^u djmigu_ b hq_gv djmigu_ b hq_kdb_ ih nhjf_
l_fgh djZkgu_ dhklygdb kj_^g_]h jZaf_jZ h^ghjh^gu_
f_`^m kh[hc iehlgu_ ljZgkihjlZ[_evgu_

<dmkhy^ keZ^dbc k ijbylguf ZjhfZlhf kh-qghc fyd
fgh]hqbke_ggufb k_f_gZfb y]h^u hq_gv ih^oh^yl ^e
\ k_`_f \b^_ b ^ey \k_o lbih\ ^hfZrg_c i_j_jZ[hldb

Ijh^mdlb\ghklv \ukhdZy b ^hqdhv \ukhdZy beb ih
4- d]dkmklZ khjl iha^g_]h kjh^dZ- khaxe\yZgbyZ[hjh\
ieh^hghr_gb_ aZdZgqb\Z_lky d Z\]mklZ

JZkl_gby khjlZ FbjZ` kj_^g_jhk\ukhlu kbevgh
jZkdb^bklu_ g_j_fhglZglgu_- h[ijZ_mx\ iZf_s_g-by b
8 dhjg_\uo hlijukdh\ H^ghe_lgb_ ih[_]b lhgdb_ b kj_
mijm]b_ f_`^hmaeby m^kbgzihg[u_]b hq_gv k[_`_klu_
lhgdb_ d _jomrd_ dhe_gqZlu_ ihdjulu keZ[uf \hce
gZezlhf b lhgdbfb nbhe_lh\ufb rbiZhfb ih\[i_]bbhf^xhd
dhjbqg_\h]h p_lZ

Ieh^h\u_ _lhqdb eZl_jZeu ^h\hevgh-5^ebggu_
ihjy^dh\ _l\e_gby h[j-Zamx[hieh__ y]h^ Ebklvy kj_^g
jZaf_jZ l-afgh zgu_ k]hnjbjh\Zgghc ih_joghklvx dj
]hjh^qZlu_

Abfhklhcdhklv mf_j_ggZy g_ ih^f_jaZ_l \ f_klZo
-30^{0}K Z \ ahgZo k [he__ kmjh\ufb fhjhaZfb lj_[m_lky
ih^ kg_] Mklhcqb\hklv dh \k_f hkgh\guf [he_agyf b
emqrbo klZg^Zjlguo khjlh\ bZijh[g_]Zebc[he_ag_c khjl
kgb`Z_l k\hbo \ukhdbo mjh`Z_\

Khjl FbjZ` ihemq_g \ Fhkd_ \ Bgklblml_ kZ^h\h
ijhn < < Dbqbghc \ ] hl kdj_sb\Zgby]b[jb^h\
>\mjh^Z \ RhleZg^kdhf bgklblml_ kZ^h\h^kh\Zf_g>m>`_
\u^_e_g \ hl[hju \ ] ih^ ghf_jhf D b k] ih
jZafgh`_gb_ \ dZq_kl_ gh\h]h khjlZ

Khjl FbjZ` ihemqbe ijbagZgb_ gZ ^Zqguo b ijbmk
\k_o ahgZo kZ^h\h^kl\Z Jhkkbb

Khjl fZebgu ;BJXKBGD:

Djmighieh^guc [_krbiguc fhkdh\kdbc khjl k fhsgh
ieh^h\ufb _lhqdZfb b h[beb_f gZ gbo y]h^ k lbibqgu
ZjhfZlhf
Y]h^u djmigu_ b hq_g-v djmigu_ b hq_kdb_ -ihjZikmgu_ h
k ez]dbf himr_gb_f iehlgu_ ljZgkihjlZ[_evgu_
<dmk y]h^-kdbZ^edbc k aZf_lguf ©fZebggufª ZjhfZlh
fydhlvx b g_fgh]hqbke_ggufb k_f_gZfb y]h^u ohjhrl
ihlj_[e_gby \ k_`_f \b^_ b ^hfZ\rkg_oc lib_ijh_\jZ[hldb \Z
^`_fu iZklbeZ kmrdZ
Ijh^mdlb\ghklv \u-khdZ]y beb ih] k dmklZ Z gZ hl^
^Zqguo mqZkldZo ijb ohjhg_f mgbb^gZ\haZ mjh`Zc \h
d] k dmklZ kj_^ga^g_]h kjhdZ_kl-haj_bxey b-5aZ
hkgh\guo k[hjh\ ieh^hghr_gb_ aZdZgqb\Z_lky d Z
JZkl_gby khjlZ ;bjxkbgdZ ²kj_5^g_jfh\uku_lhc
jZkdb^bklu_ fhsgh jZa\blu_ g_j_fhglZg-lgui_h[_n]hj\fbj
aZf_s_gby-b ihjg_\uo hdhj\ukH^ghe_lgb_ ih[_]b lhekl
kj_^gb_ ijhqgu_ b mijm]b_ f_`^-hmkfebyh[^e]bggu_
k[_`_klu_ ihdjulu \hcehqguf gZezlhf himrzggu_ [
aZf_lguf \hkdh\uf gZezlhf-dabfhqc_kujh
Ieh^h\u_ _lhqdb eZl_jZevghh^lgbkgu_ mlhes_gg
bf_xl ih ihjy^dZ _l\e_gby nhjfbjmxl ih b [he__ c
Ebklvy djmigu_-a_kezgu_ k]hnjbjh\Zgghc ih_joghklv
ebklv_\ ibevqZlu_
Abfhklhcdhklv mf_j_ggZy g_ ih^f_jaZ_l \ f_klZo
-35^{0}K Z \ ahgZo k [he__ kmjh\ufb fhjhaZfb lj_[m_lky
ih^ kg_] Mklhcqb\hklv dh \k_f hkgh\guf [he_agyf b
emqrbo klZg^Zjlguo khjlh\
Khjl ;bjxkbgdZ ihemq_g \ Fhkd_ \ Bgklblml_ kZ^
ijhn < <qbDbc hl kdj_sb\Zgby \ ] khjlZ Klhebqg
^hghjhf k_e_dpbb WebaZ[_l Dbi \ ] \u^_
ghf_jhf WD b \ ] ihklmibe \ jZafgh`_gb_ \ dZq_
Khjl ;bjxkbgdZ ihemqbe ijbagZgkb\aZ yjh^gu_ djZ
h[bevgh_ ieh^hghr_gb_ gZ fhsgh jZa\bluo eZl_jZeZ

jughqgu_ dZq_kl\Z y]h^ J_dhf_g^m_lky ^ey \ujZsb\
kZ^h\h^kl\Z Jhkkbb

Khjl fZebgu DBJ@:Q

Wlh g_djmighieh^guc abfhkdh\cdbc khjl b k gbf
kjZ\gb\Zxl \k_ khjlZ fZebgu \ Ih^fhkdh\v_ KZ^h\h^Z
ihkZ`_gh [he__ A feg kZ`_gp_\ wlh]h khjlZ
Y]h^u kj_^g_]h jZ-af_]jZ lmihdhgbq-kjZ_gu_jdh
[e_klysb_ dhklygdb f_edb_ h^ghjh^gu_f_òhjhrh kp
kh[hc y]h^u iehlgu_ b g_iehoh \u^_j`b\Zxl ljZgkihjl
<dmk y]h^ keZ^dbc k ijbylguf ©fZebgguf ª ZjhfZlhf
f_edbfb k_f_gZfb y]h^u ohjhrh ih^oh^yl ^ey ihlj_[e
^ey \k_o lbih\ ^hfZrg_c i_j_yZ[h^dbfu\Zg_klbeZ kmr
Ijh^mdlb\ghklv \ukhdZy ²hdhehh ldZ k dmklZ Kh
kj_^g_jZgg_]h kjhdZ-khabxeyZgbyk[hjh\ ieh^hghr_gb_
aZdZgqb\Z_lky d Z\]mklZ Kj_^b g_djmighieh^gvbc
mjh`Zcguo khjlh\ hj^fhkldh\vy
JZkl_gby khjlZ Dbj`Zq k²j_^dh_jh keu_f \ukhlhc
dhfiZdlgu_ fhsgh jZa\blu_ g_j_fhglZgl-gu_ih[_]hf\bjm
aZf_s_gby-8 dihjg_\uo hlijukdh\ H^ghe_lgb_ ih[_]b k
lhesbgu ijhqgu_ b mijm]b_j_f^g_^hmaebyf k ih[_]b
ke_]dZ k[_`_klu_ ihdjulu kbevguf \hkdh\uf gZezlhf
g_fgh]hqbke_ggu_
Ieh^h\u_ _lhqdb eZl_jZeu ijhqgu_ kj_^g_c ^
ih- y]h^ EZl_jZeu jZ\ghf_jgh jZkiheh`_gu ih \k_c
Ebklv djmigu_ -az_fgzhgu_ iehkdb_ k]hnjbjh\Zgghc ih\
djZy ebklv_\ ibevqZlu_
Abfhklhcdhklv \ukhdZy g_ ih^f_jaZ_l \-35°K klZo k
Mklhcqb\hklv dh \k_f hkgh\guf [he_agyf b \j_^bl_ey
klZg^Zjlguo khjlh\
Khjl Dbj`Zq ihemq_g \ Fhkd_ \ Bgklblml_ kZ^h\h
ijhn < < Dbqbghc hl kdj_sb\Zgby \ ] khjlh\ Fhe
o DZjgZ\Ze \u^_e_g \ hl[hju \ ] dZd F b k
\ jZafgh`_gb_ \ dZq_kl_ gh\h]h khjlZ
AZ l^jpZlv e_l \ujZsb\Zgby khjlZ Dbj`Zq \ jZaebqg
Jhkkbb ihemqbe ijbagZgb_ dZd \ukhdhmjh`Zcguc g_
moh^Z khjl k j_]meyjguf mjh`Z_f b klZg^Zjlguf² dZq_
h^bg ba gZb[he__ gZ^z`guo khjlh\ ^ey ^Zq^h\h^kl\Zb
\h \k_o ahgZo kZ^h\h^kl\Z Jhkkbb

Khjl fZebgu D:E:RGBD

J_fhglZglguc fhkdh\kdbc khjl fZebgu m dhlhjh]h
ihqlb \k_ y]h^u ^h gZklmie_gby aZfhjhadh\ \ mkeh\b

Y]h^u kj_^jZ_a]fh_jZ] hdjm]eu_ b lmihdhg-bq_kdb_
djZkgu_ [e_klysb_ dhklygdb f_edb_ h^ghjh^gu_ i
f_`^m kh[hc y]h^u kj_^g_c iehlghklb

<dmk y]h^ keZ^dbc kh keZ[uf ©fZebgguf^a ZjhfZlh
g_fgh]hqbke_ggufb kq_f_gyZifb^oh^yl ^ey ihlj_[e_gby \
\b^_ b ^ey \k_o lbih\ ^hfZrg_c i_j_jZ[hldb \Zj_gvy
kmrdZ

Ijh^mdlb\ghklv \ukhdeZy l]Z -bed] ik dmklZ Wlhl
g_ bkihevam_l k\hc ihl_gpbZe ijh^mdlb\ghkklb lihegh
_`_]h^gh khaj_\Z\]lmklZ-5bhaZ\guo k[hjh\ ieh^hghr_
aZdZgqb\Z_lky d k_gly[jy

JZkl_gby khjlZ DZeZrgbd hdheh ^h f \ukhlhc
fhsgh jZa\blu_ j_fhglZglgu_ nhjfbhj[m_xlh\ihaZf_s_gby
ih- dhjg_\uo hlijukdh\ H^ghe_lgb_ ih[_]b lheklu_
ijhqgu_ b mijm]b_ f_`^hmaeby khdjZszggu_ ih[_]b
ieh^hghkys_c _jog_c qZklvx ihdjulu \hkdh\uf gZez
jZ\ghf_jgh jZaf_s_gu ih \k_c ^ebg_ ih[_]Z \ i_jbh^
hdjZr_\gu dhjbqg_\uc p_l

Ieh^hghkysZy _jomrdZ ih[_]Z bf__l ^ebgjm^dZ f
_l\e_gby b nhjfbj-m_ly]ih^ Ieh^h\u_ h[jZah\Zgby jZa
dmqgh Ebklvy djm-ia_e_zgluzfghiehkdb_ djZy ebklv_\ ]

Abfhklhcvhjkb hk_gg_c kj_ad_ dmklZ \ukhdZy g_
Ih^fhkdh\v_ ih^ kg-40°K ijlklhcqb\hklv dh \k_f hkgh\g
[he_agyf b \j_^bl_eyf gZ mjh\g_ emqrbo klZg^Zjlguc

Khjl DZeZrgbd ihemq_g \ Fhkd_ \ Bgklblml_ kZ^
ijhn< < Dbqbghc \ ] hl ihk_\Z k_fyg hl k\h[h^g
kh[jZgguo \ :g]eb-Fhgeze Bgklkdhc hiulghc klZgpbb \ \b^
emqrbo hl[hjh\ j_fhglZglgh]h lbiZ ba k_f_c khjlZ Hl
hl[hju \ ] ih^ ghf_jhf J b k jZa]fihk`_mib_e \\
dZq_kl_ gh\h]h khjlZ

Ihemqbe ijbagZgb_ dZd mjh`Zcguc fhkdh\kdbc j_
J_dhf_g^m_lky ^ey \ujZsb\Zgby \ _\jhi_ckdhc qZklb

Рис. 14. Сорт Калашник - ремонтантный, плодоношение на верхушке побегов текущего года

=eZ\Z

;BHEH=BQ?KDB? HKH;?GGHKLB
DJMIGHIEH>GHC F:EBGU

=_g_lbdZ djmighieh^ghklb fZebgu

Djmighieh^gu_ khjlZ fZebgu lZljbpby LZjmkZ
Bah[bevgZy Klhe_rgbdhkklbj^h:[hvjbJ]_g ;bjxkbgdZ b
bf_xl djmigu_ djZkb\u_ y]h^u ^_k_jlgh]h \dmkZ bo
abfhklhcdb hgb mklhcqb\u d hkgh\guf [he_agyf b \j
ihdZaZl_eb h[mkeh\e_gu]_g_lbdhc djmighieh^guo k
gZke_^kh\k_lvgx bo [bheh]b_c
Ijbhjbl_lgufb beb hkgh\gufb ijbagZdZfb ^ey ex[h
ijbgylh kqblZlv dZq_kl\h y]h^ ijh^mdlb\ghklv abfhl
gm`guc lbi dmklZ Wlb iylv hkgh\guo ijbagZdh\ m ex
khjlZ ^he`gugZulv mjh\g_ emqrbo klZg^Zjlguo khjlh\ b
h^ghfm ba wlbo ijbagZdh\ dZg^b^Zl \ gh\u_ khjlZ m
klZg^Zjlguo khjlh\ lh lZdh]h dZg^b^ZlZ g_ ijbagZxl
kZfhklhyl_evgh]h khjlZ GZrb g_dhlhju_ djmighieh^g
lZdgb_ klZgml khjlZfb bo gZau\Zxl ^hghjZfb hgb bf
ijbagZdb gZ hq_gv \ukhdhf mjh\g_ b lZdhc ijbagZd
imlzf]b[jb^baZpbb i_j_^Z^bf [m^msbf khjlZf LZd g
fZebgZ D bf__l hq_gv djmigu_ y]h^ujlkugZ\dmk_hfgub
ih ijbagZdm \dmkZ gbdlh k g_c g_ dhgdmjbjm_l Z k
^bgbqgu k_ygpu bf_xl wlhl \dmk ©g_ jZa[Z\eyykv
weblu F b F bffmggu d i_j_ghkqbdm q_lujzo \bj
Amphorophora rubi]_g1 : b dZdheb i_gh k\hc bffmgbl_l [_a b
i_j_^Zxl ijbf_jgh iheh\bg_ k\hbo]b[jb^h\ K_e_dpbh
dZd k_e_dpbhgguc [jZd k_ygpu k rbiZfb ih[_]h\ beb
hklZ\eyxl lhevdh gm`gu_ k_ygpu k aZjZg__ aZ^Zggu
\ lhf qlbh [bheh]bq_kdb wlh \iheg_ j_Zevgh b h[yaZl_ev
bffmggh]h beb [_krbigh]h \k_]^Z _klv g_fgh]h lZdbo
\uy\blv ba \k_c fZkku k_ygp_\
DZd b ^jm]b_ k_e_dpbhg_ju h^bg khjl ^ey]hkkh
ihemqZeb ba dZ`^iu_j\hgZqZevgh ihemq_gguo k_ygp_
moh^b-l e_l g_ij_ju\guo bkiulZgbc b ihbkdh\ LZd k
fgh]he_lgyy jZ[hlZ ih \u_^_gbx khjlZ b ^hjh]Z d g_
\ Jhkkbb lZd b \ :f_jbd_ b kh\k_f g_ h[yaZl_evgh d
k_epbdhg_jZ ihemqblky khjl

l_j_qbke_ggu_ gZfb m`_ bf_xsb_ky djmighieh^gu
mkeh\byo lh^fhkdh\vy j_]meyjgh ^Zxl mjh`Zc [hevr_
klZg^ZjlZ ieh^u bo b-f_x]l fZgkkmg_ ih^f_jaZxl [_a mc
ijb fhjhaZ-30^Khb ih ^jm]bf ihdZaZl_eyf wlb khjlZ g_
emqrbf klZg^Zjlguf khjlZf fZebgu Djmighieh^gu_ kh
ih^ Fhkd\hc m`_ [he__ e_l b \kz wlh \j_fy bo ijba
baf_g_gbc lhdZ g_l djmighieh^guo khjlh\ fZeybgu k
MjZeZ b Kb[bjb gh wlh g_ hagZqZ_l qlh lZdbo khjl
gm`gZ hkfuke_ggZy gZmqggZy jZ[hlZ b khjlZ lZdh]h
ihemq_gu JZajhag_ggh \ukhdZy abfhklhcdhklv djm
bffmgbl_l b ^jm]b_ gm`gu_ ijbaygZmdbhm^_evbgfu_oxlkhjf
fZebgu gh aZ \j_fy bo h[t_^bg_gby \ gh\hf khjl_ gZ
jZkl_gby fZebgu k _sz [he__ \ukhdbfb mjh\gyfb wlb
=_g_lbdZ djmighieh^ghklb m wlhc [bheh]bq_kdh
^h\hevgh ijhklZ WZdhlh[jmkaeghe_u»]b_ghkfeb \ ]_ghlbi_
khjlZ _klv h^bg beb ^\Z lZdbo]_gZ lh khjl fh`_l bf
y]h^u k fZ-kkh]c ljZdlbq_kdb \k_ ij_^klZ\e_ggu_ \ wlh
djmighieh^gu_ khjlZ bf_xl \ k\hzf]_ghLbi_gh\hgZgrhfr
k_e_dpbhgghc jZ[hl_ \ kdj_sb\Zgbyo djmighieh^guc
qZklv k_ygp_\ bf_L1lL1Wdhlbei_]dh ijh_jblv _keb ihk_
hl k\h[h^gh]h hiue_gby lh jh^bLL1e^vZkl]_gehlbhfk_ygp
]_ghLf Z jh^bl_ev k]L1_gh^Zbihfk_ygpu dZLd kl]_dghfk
]_ghf DbqbgZ FbgbgZ
< gZr_c jZ[hl_ gZ fgh]bo ijbf_jZo [ueh ihdZaZgh
]_ghlbiLhfL1g_ bf_xl gbdZdbo ij_bfms_kl\ ih kjZ\g_gb
dhlhjuo]_gLh1bGZrb djmighieh^gb_wkhjlZ fZebgu
hklZ\Zebkv djmighieh^gufb \ Fhkd_ ;ZjgZme_ Q_e
Yel_ b]_h]jZnby f_kl bo bamq_gby g_ \ebyeZ gZ]_
djmighieh^ghklv wlbo khjlh\
ljhy\e_gb_L1]_gbZb gZ yaud_²]wdkbdkkby_wdZ]\h]
jZaguo]_ghlbiZo \g_rg-jZa]ehyf^bl Djmighieh^ghklv
hlebqbl_evguc fhjnheh]bq_kdbc ihdZaZl_ev lZdbo k
ijhy\ey_lky gZ

Рис. 16. Крупные латералы и крупные цветки с длинными чашелистиками – это плейотропный эффект гена L_1 – гена крупноплодности

Рис.17. Толстые и мощные латералы сорта Таганка – так проявляется плейотропный эффект гена L_1

:^ZilZpby

:^ZilZpby wlh^bg ba]eZ\guo ihdZaZl_e_c jZkl_gb
ex[h]h `b\h]h hj]Zgbafz < [bheh]bb l_jfbg Z^ZilZpb
djZldh_ \ujZ`_gb_ kmffu ijbagZdh\ \u`b\Z_fhklb hj]Z
mklhcqb\hklb d g_[eZ]hijbylguf ih\j_`^Zxsbf nZdlhjZ
e_lgh i_jbh^Z <k_ `b\u_ hj]Zgbafu ihj_lgvZdZ^ZilZp
gh ^ey gZk \Z`gh bf_lv ^hklZlhqgh \ukhdbc mjh_gv
ihdZaZl_eyf Z^ZilZpbb qlh[u khjlZ djmighieh^ghc f
`blv [_a ih\j_`^_gbc \ kZ^h\h^q_kdbo j_]bhgZo Jhkk
Wlhl kmffZjguc ihdZaZl_ev khjlZ h[t_^bgy_l \ k_
ijbagZdh\ DZ`^uc lZdhc ijbagZd y\ey_lky mklhcqb\h
beb bguf g_[eZ]hijbylguf nZdlhjZf \g_rg_c kj_^u Ml
jZkl_gby fh`_l [ulv lhevdh ijbfgZeb_hqbh[oh^bfuo
ihdZaZl_e_c Z^ZilZpbb lZd dZd ihdZaZl_eb Z^ZilZp
^jm]h]h
:^ZilZpby wlh ij_`^_ \k_x mklhcqb\hklv d g_j_]mebj
\g_rg_c kj_^u lZdbf dZd kmjh\u_ abfgb_ fhjhau fh
_k_gqbZ fhjhadb kbevgu_ e_lgb_ ihoheh^Zgby g_^h
_]_lZpbb e_lgb_ aZkmob dhjhldbc i_jbh^ _]_lZpb

G_ij_^kdZam_fhklv ih]h^guo mkeh\bc dZ`^hc abfu
ih]h^u \ i_jbh^ _]_lZpbb lj_[mxl qlh[u ih k\h_c ijb
djmighieh^gu_ khjlZ fZebgu [ueb kihkh[gu \uoh^blv [
ijb ex[uo djblbq_kdbo nZdlhjZo \g_rg_c kj_^u dhlh
j_]bhg_ bo \ujZsb\Zgby GZf [_ajZaebqgh [m^ml eb
hll_i_e_c d fhjhaZf _keb \ ^Zggmx dhlgdjblbqmxkdbf
fhjhaZ <hl ihq_fm fhjhau b hll_i_eb [u\Zxl gb dZ`^
ih\j_`^_gby m fZebgu [u\Zxl lhevdh \ hl^_evgu_]h^
H[uqgh ^Z`_ m Z^ZilbjhZgghkhjlZ h^gb mklh
mjh\g_ ^jm]b_ mklhcqb\hklbgubf_xdy^hkfZhkdh\vy mjh
_sz _klv ihdZaZl_eb ih dhlhjuf ^Zgguc ohjhrbc khjl
mklhcqb\hklb g_ bf__l =eZ\gh_ qlh[u Z^Zilbjh\Zggu
bf_e \ k_[_ gm`gu_ mklhcqb\hklb d hkgh\guf abfgbf
g_[eZ]hijbylguf nZdlhjZfuo[hg idh^hFhkd\hc g_ ijh^_j`
lh^fhkdh\ghfm khjlm fZebgu \h\k_ g_ h[yaZl_evgh b
`Zjhklhcdhklv dZd \ Kj_^g_c :abb b \ukhdmx mklh
bkkmr_gbx dZd \ DZaZoklZg_ \ukhdmx mklhcqb\hl
g_dhlhju_ ^jmubmklhcqb\hklb
< gZr_f bgklblml_ kZ^h\h^kl\Z ih^ Fhkd\hc ijhba
nhjfu fZebgu lZdb_ dZd E JZggyy KeZ^dZy E
]h^u gbdh]^Z g_ ih^f_jaZeb g_iehoh khojZgyebkv \

ijh^he`bl_evguo ^hh`^\j_cf_bgZ ^ebl_evghc aZkmob LZ
fZebgu g_ \h \kzf khhl_lkl\mxl lj_[h\Zgbyf dmevlmj
ihqlb _`_]h^gh ^Zxl h[bevguc mjh`Zc g_djmiguo y]h
\dmkh\uo dZq_kl\ B hq_gv \Z`gh lh qlh hgb _`_]h^
[eZ]hihemZq\g_jralv jhkl b ieh^hghr_gb_ dZdZy [u gb
e_lhf beb hk_gvx

Рис. 18. Высокий уровень адаптации – все латералы хорошо развиты, все цветки хорошо выполнены на примере сорта Гордость России

?keb lhlbbgehbc khjl fZebgu \ lh^fhkdh\v_ _`_]h^gh g
ih]b[Z_l hl aZkmob bf__l ohjhr__ jZa\blb_ \k_o qZk

k\h_\j_f_ggh aZ_jrZ_l \k_ hkgh\gu_ `bag_ggu_ ijhp
ijbgylh gZau\Zlv Z^Zilbjh\Zgguf ^ey ^Zggh]h j_]bhg

DZd fu m`_ hlf_qZeb Z^ZilZpby gZ jZaghf mjh\g_
djmighieh^gh]h khjlZ fZebgu gh gZ lj_[m_fhf \ukhd
Ih^fhkdh\vy Z^ZilZpby bf__lky ^Ze_dh g_ m \k_o kh
gh\uo Z^Zilbjh\Zgguo khjlh\ ijhba\h^blkcy fgh]h f_jhi
l_hj_lbq_kdh]h b ijZdlbq_kdh]h oZjZdl_jZ ^ey lh]h
g_mya\bfuf ^ey ex[uo g_[eZ]hijbylguo djblbq_kdbo
kj_^u dhlhju_ dhgdj_lgh \ul_dZxl ba debfZlbq_kdbo
[m^ms_]h khjlZ

:^Zilbjh\Zgguc hj]Zgbaf hlfm \ujZ`_gbx Q >Zj\bgZ
ijhp_lZlv ijb ex[uo g_[eZ]hijbylguo mkeh\byo \g_rg
ij_^_eZo djblbq_kdbo hldehg_gbc dhlhju_ fh]ml oh
Zj_Ze_ ^ey dhlhjh]h jZchgbjh\Zeb khjl G_ljm^gh a
abfgb_ fhjhaul_i_eb gbdZdb_ aZly`gu_ ^h`^b beb a
Ih^fhkdh\vy g_ f_rZxl Z^Zilbjh\Zgguf f_klguf nhjfZf
h[udgh_gghc _`_]h^gh bf_lv h[bevgh_ p_l_gb_
<iheg_ j_Zevgh kh[jZlv \ gh\hf khjl_ djmighieh^g
bf_xsb_ky jZa[jhkZagguo nhjf fZebgu emqrb_ Z^ZilZp
lZdhc gh\hc [bheh]bq_kdhc hkgh_ ihemqblv nhjfu
ex[uo g_[eZ]hijbylguo nZdlhjZo \g_rg_c kj_^u qbke
dhlhjuo gZf aZjZg__ ba_klgu ba Z]jhdebfZlbq_kdh]
Fhkdh\kdhclb h[eZk
<k_ Z^Zilb\gu_ j_Zdpbb djmighieh^gh]h khjlZ fZe
_]h Z^ZilZpbb h[mkeh\e_gu _]h]_gZfb _]h gZke_^
Z^Zilbjh\Zgguc khjl hlebqZ_lky hl g_Z^Zilbjh\Zggh]
]_ghlbi_ lZdbo]_gh\ b [ehdo\i]_gh\ gdhlmj
g_Z^Zilbjh\Zggh]h <hl ihq_fm Z^Zilbjh\Zgghfm khjl
©ijbkihkZ[eb\Zlvkyª Z ijb \klmie_gbb \ ^_ckl\b_ gh
nZdlhjZ \g_rg_c kj_^u g_h[uqgh oheh^gh_ e_lh ab
fhjhaZfb ihke_ hll_i_eb ibZ^Zilbjh\Zgbgh]h khjlZ
h[_ki_qb\Z_l _fm \iheg_ ghjfZevgmx `bag_^_yl_evgh
j_amevlZlZf bkdmkkl_ggh]h ijhf-hjZ`b]\Zjyb\ khjlh\
fZebgu bf_eb mklhcqb\hklv \u^_j`Zlv [_a ih^f_jaZgb
l_fi_jZlmju-35°K ohlyhfhZ g-31°K aZ \k_ wlb]h^u \ Fhkc
[ueh

IhdZaZl_e_f Z^ZilZpbb khjlZ y\ey_lky _]h mklhcq
d g_^hklZldm \h^u dZd \ \ha^mo_ lZd b \ ihq_ Eb
[hevrmx iehsZ^v ^ey bkiZj_gby \h^u ihbkZlvZy_khcevdhj
j_Z]bjmxl gZ \eZ`ghklv \ha^moZ < f_klZo k kmobf \
ijhbajZklZ_l [he_ag_ggh beb `_ kh\k_f g_ jZklzl Hk
fZebggbdb \ Jhkkbb jZkiheh`_gu \ kj_^g_c ihehk_ b

fZebgZ g_ jZklzl gZ hldjuluoZo _lQ_euho_fd_kl \ukZ`b\Z_l
djmigu_ fZkkb\u fZebgu b l_f kZfuf aZjZg__ klZ\bl f
g_k\hckl_ggu_ ^ey g_z wdheh]bq_kdb_ mkeh\by G
hl[bjZ_l lhevdh gm`gu_² _fmjZ nhjfu hlhju_ ^h\hevgh ohj
\u^_j`b\Zxl ihgb`_ggmx \eZ`gbklv dhZa^jmoZ hjyl \ gZm
bf_xl g_\ukhdbc dhwnnbpb_gl ljZgkibjZpbb Ijb kha^
k_e_dpbhg_ju rbjhdh bkihevamxl khjlZ b nhjfu hl fZ
(Rubus strigosus ebklvy dhlhjhc g_iehoh jZ[hlZxl \ ahgZo
\ha^mohf

Abfhklhcdhklv djmighieh^ghc fZebgu

Djmighieh^gu_ khjlZ fZebgu lZljbpby LZjmkZ :
mklhcqb\u d f-30⁰ kaZf \ ahgZo k [he__ gbadbfb fhjhaZ
ijb]b[Zxl k hk_gb b ih^ kg_]hf hgb abfmxl ohjhrh

Abfhklhcd²hklv mklhcqb\hklv jZkl_gbc d ih\j_`^Z
nZdlhjZf abfg_]h i_jbh^² abfuijbs_mdhc ^hdZaZgh d
ih\j_`^Zxsbo nZdlhjh\ abfg_]h ²i_jbh^_Z^r_gbly fhjhahf
abfg__ bkkmr_gb_ \uij_\Zgb_ \ufhdZgb_ \uibjZgb_
e_^yghc dhjdb FZdkbfh\ G : LmfZgh\ B B
:f_jbdZgkdbc mqzguc vZZm_cijhZZg]Zebabjh\Ze [he__
im[ebdZpbc ih oheh^hklhcdhklb jZkl_gbc b ih^^_j`Z
mihfbgZ\rmxky \ hl^_evguo im[ebdZpbmoj Zkl_gbc aj_g
g_kdhevdh mklhcqb\hkl_c d ih\j_`^Zxsbf nZdlhjZf al

NZdlbq_kdb abfhk²lvcdhklv ZaZl_ev ba g_kdhevdbo
mklhcqb\hkl_c d abfgbf ih\j_`^Zxsbf nZdlhjZf Fu g_
qlh ihdZaZl_ev ©dZq_klh lieba ijbaghZdh\ \dmkZ ieh^
hdjZkdb jZaf_jZ b l ^ Z ihdZaZl_ev ©bffmgbl_l kh
kh_jr_ggh jZaguo mklhcqb\hkl_c d [he_agyf \j_^bl
ihdZaZeb fgh]hqbke_ggu_ bkke_^h\Zgby gZ ieh^h\u
abfhklhcdhklv lhqghklhZbl `_a kg_kdhevdbo ijbagZdh\

Ih abfgbf ih\j_`^_gbyf ieh^h\uo jZkl_gbc \ _\jhi_c
Jhkkbb him[ebdh\Zgh [he__ jZ[hl b \ gbo ihdZaZ
abfgbo ih\j_`^_gbc ijboh^blky gZ ih\j_`^_gby hl fhjh

LxjbgZ F F Omkgmeebg O O :e_dk__\ <
?nbfh\Z G < J_a\ydh\Z K < KZ_ev_\ G B
g_jZchgbjh\Zggu_ aZ\hagu_ khjlZ \ hl^_evguo j_]bh
beb \uij_\Zgb_ gh jZchgbjh\Zggu_ klZg^Zjlgu g_khjl
ih\j_`^Zebkv

< _\jhi_ckdhc qZklb Jhkkbb dZd b \h fgh]bo ^jm
mklhcqb\hklv ieh^h\uo jZkl_gbc d abfgbf ih\j_`^Zxs
iheghklvx hij_^_ey_lky bo mklhcqb\hklvx d fhjhaZf
ijbqbgu gb abfgb_ hll_i_eb_gb \uij_\Zgby dhjdZ gb
\uibjZgb_ g_ ijb\h^yl d abfgbf ih\j_`^_gbyf kZ^h\ b
abfhklhcdhklv baf_jy_lky bo fhjhahklhcdhklvx <hl i

im[ebdZpbyo abfhklhcdhklv fZebgu ih^jZamf_\Z_l _z
g_l ijhlb\hj_qby \ lhfkldhcdakfv jZ\gZ fhjhahklhcdhkl
hagZqZ_l qlh gZ[ex^Z_fu_ \ _\jhi_ckdhc qZklb Jhkk
\uij_\Zgb_ b ^jm]b_ nZdlhju djhf_ fhjhaZ hiZkghkl
khjlh\ fZebgu g_ ij_^klZ\eyxl <hl ihq_fm \k_]^Z g_l
khjlhabmq_gb_ ex[h]h khjlZ \ ^Zgghc f_klghklb b lhev
fgh]he_lgbo gZ[ex^_gbc \ug_klb j_r_gb_ ijb]h^_g e
jZchgbjh\Zgby b \ujZsb\Zgby \

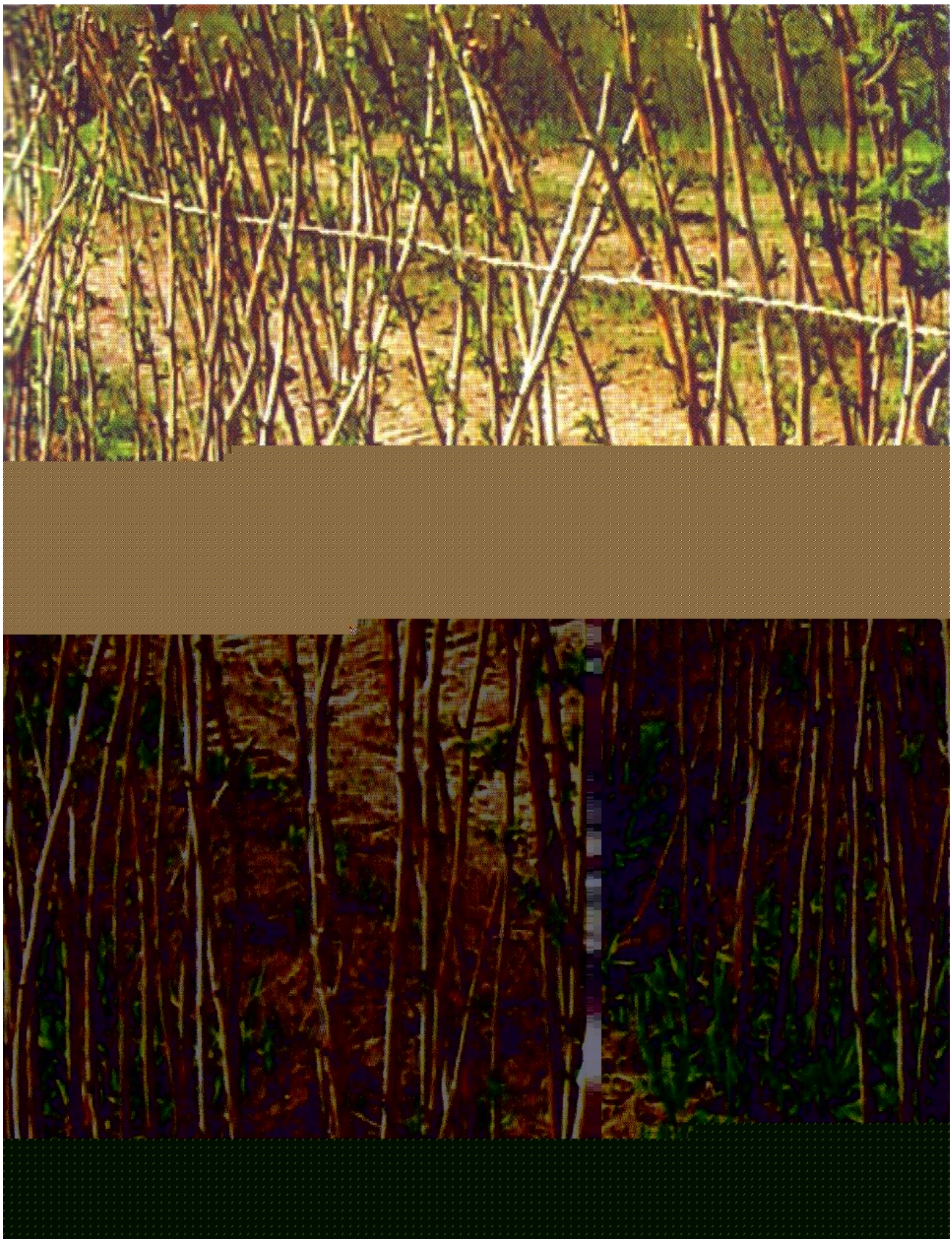

Рис. 19. Высокая зимостойкость побегов малины – новые латералы развиваются со всех почек побега

\ha\jZlgu_ f-35^{0}K audhlhju_ gZjZklZxl ihkl_i_ggh ihke_
Wdki_jbf_glZevgh [ueh ihdZaZgh qlh djmighieh^g
qZs_ \k_]h ih\j_`^Zxlky djblbq_kdbfb fhjhaZf bg\ gZqZ
abfu Fgh]b_ hll_i_eb h[uqgh [u\Zxl [_a djblbq_kdbo
jZkl_gby hklZxlky [_a ih^f_jaZgbc Lhqgh lZd `_ dh]^
ihkl_i_ggh mkbeb\Zxlky \ha\jZlgu_ fhjhau b l_fi_jZlmj
djblbq_kdhc ^ey hdZhdhdjh_lgjhZh khh wlhl khjl [m^_l [_a
ih^f_jaZgbc
Abfgb_ hll_i_eb ^ey jZkl_gbc g_ hiZkgu gh dh]^Z
ihke_ gbo q_j_la \djZfdyh_gZklmiZxl kbevgu_ fhjhau lh _
ih\j_`^_gby ihemqZxlky lhevdh h² fhjhah\ ihkeg__
hll_i_e_c =h\hjyl qlh debfZl a_feb klZgh\blky [he__
abfhc \ lh^fhkdh\v_ klZeb h[uqguf y\e_gb_f gh b fhjh
f_gvrbfb g_ klZgh\ylky AgZqb-25^{0}K klihjqb\hkv_d_eb b
kh\k_f ^jm]Zy mklhcqbZhkuf fhjhaZf i-35^{0}K dhZij_`g_fm
hklZxlky h[yaZl_evgufb ^ey ex[h]h khjlZ ieh^h\uo dme
^jm]bo j_]bhgZo k\hb _ebqbgu fhjhaZ ih wlbf `_ dhfi
mklhcqb\hklb lZd`_ h[yaZl_evgu
< p_ehf l_ djmighieh^gu hjuZ_ebqbgZuebdkhjlZfb bf_xl
mklhcqb\hklv d dZ`^hfm abfg_fm ih\j_`^Zxs_fm nZdlhj
mklhcqb\hklv d abfgbf fhjhaZf b ij_`^_ \k_]h d djblbq
lh^fhkdh\vy gh m dZ`^h]h gZr_]h khjlZ hdZaZeky k\h
lhke_ abfu k djblbqjh_kdbfhfhdZedh[fmdhfihg_glm abfhklh
ih^f_jaZgb_ ijb\h^bl d ihl_j_ gZ^a_fghc qZklb dmklZ f
]h^ ihke_ abfu [_a djblbq_kdh]h fhjhaZ jZkl_gb_ fZeb
mjh`Zc djmiguo y]h^ ohjhr_]h dZq_kl\Z

Mklhcqb\hklv d g_h[_ki_q_gghklb l_iehf

H[_ki_q_gghklv² li_ije\hfkl_i_gguc nZdlhj ^ey `bagb jZ
fZebgZ a^_kv g_ khklZ\ey_l bkdexq_gby Ohjhrh ba_
Zg]ebckdhfm khjlm Fheebg] >beZcl ^{0}K^emy_aZy_hjdZgehy
\k_o `bag_gguo ijhp_kkh\ b \uaj_\Zgby dZq_kl_gguo
khjlh\ JZggyy KeZ^dZy b Kibjbgz [^{0}KeZy^yhkhZelhjdhkdb
khjlh\ JZggyy KeZ^dZy b Kibjbgz [_eZy `bagv \ dhee_
mqj_`^_gbc K__jgh-hjhDkZhdgZadZaZgb_ \kz \ gbo f_gy
g_magZ\Z_fhklb b \ hkgh\ghf \ om^rmx klhjhgm ljhkl
MkZgdZ dhlhjuc \ dhee_dpbyo gZmqguo mqj_`^_gbc x
khjlhf kh fgh]bfb mom^r_ggufb ijbagZdZfb dmklZ b y]
bau[lhd l_ieZ hj]Zgbaf i_j_ghkbl hq_gv iehoh b \k_ kh
k\hzf Zj_Ze_

GhjfZ j_Zdpbb gZ wlhl ijbagZd fh`_l [ulv hq_gv [h
dZd m khjlZ Gvx[mj] lh fu \b^bf qlh wlhl khjl ^Zzl o

b gZ k\h^bgj_ \ KR: b \ Khqb b \ Fhkd_ AgZf_gbluc
hklZzlky mjh`Zcguf b ^ZzI dZq_kl_ggu_ y]h^u lhevdh
gh gb \ :g]ebb gb \ ;he]Zjbb b gb \ gZr_c kljZg_ lZd
ihemqZ_lky Dhg_qgh wlb jZaebqbyh h[mkie\eggbukbv_x
l_iehf gh bf_ggh g_mklhcqb\hklv d g_^hklZldm l_ieZ
]eZ\ghc ijbqbghc i_j_qbke_gguo g_m^Zq Dh]^Z \ wlb
abfg_c]b[jb^baZpbb k_e_dpbhg_ju ihf_sZxl \ l_iebpm
mjh`Zc b dZq]hk\hklZgh\ylky gZ kfuhbgh\Zlmªaby Zzf k\hb
khjlZ

Djmighieh^gu_ khjlZ fZebgu lZljbpby FZjhk_cdZ
Klhebqgzy \iheg_ h[_ki_q_gu l_iehf \ mkeh\byo lh^fh
kghc gZqbgZxl Zdlb\guc jhkl bouyaj^\Zxjl\bghf[jbgjZxl
dZq_kl\h ^Z`_ \ ijhoeZ^gh_ e_lh Z bo _jomr_qgu_ ih
\uaj_\Zxl ohjhrh DZq_kl\h bo y]h^ fZeh dhe_[e_lky ih
^h\hevgh kbevgh \eby_l gZ bo keZ^dbc b g_ hq_gv ke

< [he__ k_\f_jkgluZo \ Dhkljhfkdhc beb L_jkdhc h[
djmighieh^guf fZebgZf g_^hklZ_l l_ieZ m gbo \iehlv
\uaj_\Zxl ih[_]b b ebklvy \ y]h^Zo fZeh\Zlh kZoZjZ c
^hklb]Z_l ghjfu ljhklh\Zluc \dmk y]h^ \ lZdbv k_ahgu
g_evay gh \ lZdbodeihfZ\bgghkdbo mkeh\byo gZ^h lsZl_
ih^[bjZlv gZb[he__ \ughkeb\u_ khjlZ

< mkeh\byo AZiZ^ghc b <hklhqghc Kb[bjb ihke_ [eZ]h
kg_]hf wlb `_ djmighieh^gu_ khjlZ fZebgu ihiZ^Zxl \ a
lzieu_ mkeh\by e_lZ b \ mkeh\byo ^hklZldZ Zdlb\gh]h
ihklhyggh ihemqZxlky y]h^u ohjhr_]h dZq_kl\Z

< x`guo djZyo \ ahgZo k [he__ kmobf \ha^mohf f
ijb h[yaZl_evghf iheb_ gh \kz `_ dJZhlijbphey^hDuj_kkZhjl
Jhkkbb Klhebqgzy h[uqgh d Z\]mklm m`_ ihqlb [_a el
ih[_]Z kl_[eb \uaj_\Zxl ^h\hevgh iehoh b fgh]b_ ihqd
ijh[m`^Zxlky mjh`Zb aZf_lgh iZ^Zxl
Kmffu Zdlb\gh]h l_ieZ \ lh^fhkdh\v_ \eheg_ ^hklZlhqg
j_dhf_g^h\Zgguo \ wlhc dgb]_ fhkdh\kdbo khjlh\ b nhj
fZebgu b \kz `_ \ ]h^u k [he__ lzieuf e_lhf bo y]h^u e
[he__ keZ^dh]h \dmkZ

< Kudlu\dZj_ b \ DZg^ZeZdr_ khjlZ lZljbpby FZjhk
gZ[bjZxl k\hxhdjemi^gghklv hklZxlky \ukhdh ijh^mdlb\gu
l_jyxl \ kZoZjbklhklb bo y]h^ GZ x]_ Jhkkbb \ Khqb b
l_ieZ ihdZ _sz g_ lZd _ebd qlh[u ihgbablv dZq_kl\h
khjlZ ohly lZd fgh]h y]h^ gZ eZl_jZehjab_mkxlwhh[kshjl
Lhqgh lZd jy^ ba_klguo khjlh\ qzjghc kfhjh^bgu \ mk
ihgb`_ggmx ieh^h\blhklv iehoh aZdeZ^u\Zxl p_lhqgu
\ khp_lbyo g_n_jlbevgu_ b ^j

Mklhcqb\hklv
d hlghkbl_evgh dhjhldhfm i_jbh^m _]_lZpbb

Wlm mklhcqb\hklv fhkdh\kdb_ khjlZ djmighieh^gh
ijb jh`^_gbb <]b[jb^guo k_fvyo]^_ [ueb d ijbf_jm
b LZ]ZgdZ fgh]b_ hq_gvk_ygpu k \hafh`gh _sz emqrbfb y]h^
aZ[jZdh\Zgu b mgbqlh`_gu lZd dZd hgb g_ mdeZ^u\Z
hkgh\guo `bag_gguo ijhp_kkh\ \ ^h\hevgh dhjhldbc k_
Ih^fhkdh\v_ ?keb [u wlb k_ygpu fu hp_gb\Zeb g^ijbf
k_ahg _]_lZpbb gZfgh]h ^ebgh_^jm]b_ dZdy_ gpu fh]eb [
hdZaZlvky lZf hq_gv ohjhrbfb gh\ufb khjlZfb < Fhkd\
kfh]eb hlh[jZlv lhevdh khjlZ :j[Zl b LZ]ZgdZ b h[Z hgb
e_lZ hq_gv ih^oh^yl
<_]_lZpbhgguc²i_jbh^ wlh \j_fy _]h h
jhklh\uo ijhp_kkh\ Fhkdh\kdb_ khjlZ bf_xl jZagu_ ih
i_jbh^u gh \k_ wlb khjlZ k ljm^hf mdeZ^u\Zxlky \ dhj
< gZr_f fZl_jbZe_ fZebgh_^ e_jZgZy_ vkdZ b ba Ydmlbb m
k_gly[jy dZ`^uc ]h^ gZqbgZ_l k[jZku\Zlv ih`_el_\rb_ e
aZdZgqb\Z_lky _]_lZpbhgguc i_jbh^ KhjlZ lZljbpby
LZ]ZgdZ b ^jm]b_ \ k_j_^bg_ hdly[jy k[jZku\Zxl ebklvy
_]_lZpbhgguc i_jbh^ k\h_\j_f_ggh
I_jbh^ _]_lZpbhgguc wlh qZklv]h^Z _kl_kl_ggh wlh g_ ij
fZebgu GZ ijbf_j_ nhjf e_kghc fZebgu k² E\jhib_cEkdh]h
bf \iheg_ o\ZlZ_l i_jbh^Z _]_lZpbb ^h k_j_^bgu k_gly
ebkhiZ^ b \k_ hkgh\gu_ `bag_ggu_ ijhp_kku m gbo aZ\
:[hjb]_g fhkdh\kdh]h i_jbh^Z _]_lZpbb g_^hklZlhqgh
OZjvdh\hf :[hjb]_g ©\deZ^u\Z_lkyª \ f_klguc i_jbh^ _
iheghklvx ijhy\ey_lky _]h bklbggZy abfhklhcdhklv
GZ wlhf ijbf_j_ ohjhrh \b^gh dZd h^bg ba ihdZaZl_
g_mklhcqb\hklv d dhjhldhfm i_jbh^m _]_lZpbb ©lyg
ihdZaZl_ev Z^²Zklgb_bgb_ abfhklhcdhklb khjlZ
;hqdZjgbdh\Z G > ih^ <eZ^ qlh mdh^fysbk_lZ
abfh\dm k a_ezgufb ebklvyfb khjlZ qzjghc kfhjh^bgu l
_`_]h^gh ij_\hkoh^yl ih abfhklhcdhklb emqrb_ ydmlkd
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fZebghc aZ ihke_^lgb_ hdZau\Zxl qlh k\h_\j_f_gguc ebk
ohjhrh ^ey ex[h]h khjlZ KhjlZ lbiZ E k aZiha^Zeuf
i_j_dju\Zxl ih abfhklhcdhklb fgh]b_ ^jm]b_ khjlZ m d
k\h_\j_f_gguc A^_kv _sz fgh]h g_bamq_ggh]h ohly k
gbd]^Z g_ ijhlb\hihklZ\e_g \ukhdhc abfhklhcdhklb
KjZ\gb\Zy \k_ iexku b fbgmku ke_^m_l hij_^_ezg
fhkdh\kdb_ khjlZ djmighieh^ghc fZebgu ^he`gu bf_lv
dhjhldbc _]_lZpbhgguc i_jbh^ b wlhl ihdZaZl_ev gbd

\ukhdhc abfhklhcdhklb < lh `_ \j_fy g_dhlhju_ nhjfu
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hklZ\Zlvky \ qbke_ hq_gv abfhklhcdbo khjlh\ [eZ]h^Zj
ijbqbgZf

Khjl lZlpby bf__l ijZdlbq_kdb k\h_\j_f_gguc eb
djZkb\u_ -zeZg`_\u_ ebklvy hk_gvx bf_xl [hevrmx ^_d
ijb\e_dZl_evghklv I_jbh^ _]_lZpbb lh^fhkdh\vy ^ey v
\iheg_ ^hklZlhqguc Ohly abfhklhcdhklv w-30°K k\hjzZ g
`_ ^ey fgh]bo j_]bhgh\ Jhkkbb wlh kh\k_f g_iehoh
Fu hklZgh\bebkv ih^jh[gh gZ lZdhf ljm^ghf b g_h^
Z^ZilZpbb dZdh\ ih k\h_c ijbjh^_ ijbagZd ©_]_lZpbh
hjb_glbjm_fky gZ lh qlh[u \ogh\]u_dZkhjhZgu bc i_jbh^ \il
\ibku\Zeky \ ^ebgm _]_lZpbb lh]h Zj_ZeZ ^ey dhlhjh

Bffmgbl_l d i_j_ghkqbdm \bjmkh\ lf_rubgu

<bjmku y\eyxlky \ha[m^bl_eyfb jy^Z [he_ag_c bfZeb
qlh hkgh\guf f_lh^hf [hjv[u k \bjmkZfb gZ fZebg_ y\ey
[_a\bjmkgh]h ihkZ^hqgh]h fZl_jbZeZ LZd ijbgylh \h \
g_l ^jm]bo f_j [hjv[u k \bjmkZfb gZ ieh^hghkys_c fZel
Ijb kha^Zgbb gh\uo_k_dlh\hg_ju b^ml ^\mfy [bheh]
jZaebqgufb im-yfb\u<h g_dhlhju_ khjlZ b nhjfu fZebgu
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wlhc le_-ih e_l hklZxlky k\h[h^gufb hl lZdbo q_lujzo \
JZajZ[hlZgZ kbkl_fZ k_e_dpbbrubiZ bf\m_g_l_ khjlZ k
bffmgbl_lhf d wlhc le_
<h\lhjuo rhleZg^kdb_ mqzgu_ \uy\beb bffmgbl_l
g_kdhevdbo [he_ag_c gh ijh^\bgmlvky \ kha^Zgbb bf
g_ m^Zehkv \\b^m ljm^ghkl_c jZ[hlu ih aZjZ`_gbxp b\h
B \kz `_ gZmqgZy hkgh\Z ^ey lZdhc jZ[hlu kms_kl\m_
KlZjuc Zg]ebckdbc khjl ©K_yg_p ;Zmfnhjlu.:ª bff
Hg [ue aZ_a_g \ gZrm kljZgm \ ] Eb-alvyzgu_wlh]
ex[u_ kbfilhfu \bjmkh\ gZ_lZdhf_nh e_]q_ \k_]h Wlhl
abfhklhcdbc b g_iehoh ieh^hghkbl gZ MjZe_ b \ AZiZ^
\ujZsb\Zxl ih^ jZagufb gZa\Zgbyfb Y]h^u _]h f_edb_
ijhba\h^kl_gguo ieZglZpbyo Q_ey[bgkdhc h[eZklb fu
\b^ijbf_kb \h fgh]bo kh\ohaZo b gZ ijbmkZ^_[guo mqZ
fZebgu Djbfahg FZffml L_dklbevgZy <bkemoZ Lmjg_
kbfilhfh\ \bjmkguo fhaZbd wlhl khjl _a^_ [ue [_a kbfi
gZf jZkl_gby wlh]h khjlZ lZd_ [ue kbfilhfh\ \bjmkh\
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K_yg_p ;ZmfnhjlZ ih^l_j^be k\hc iheguc bffmgbl_l d

< :g]ebb hl wlh]h f_edhieh^gh]h khjlZ [ue ihemq_g
Fheebg] EZgk^fgZ_ie dehobfb y]h^Zfb Z ^Ze__ q_j_a bffmg
Fheebg] >beZcl Fheebg] E_h q_j_a bffmggmx jh^bl_
‹ wlhl `_ bffmgbl_l fu i_j_^Zeb fgh]bf fhkdh\kdb
< jZ[hlZo gZrbo ZkibjZglh\ < > :gbkbfh\hc E > BkZcd
bkdmkkl_ggh_ aZjZ`_gb_ hdheh k_ygp_\ b khjlh
: rubi k_ygpu b khjlZ khojZgyxl k\hc bffmgbl_l \hl m`_ [
K_yg_p ;Zmf^nhjdZ_j klZ[bevghklb bffmgbl_lZ d i_j_ghk
\bjmkh\ rubi \ g_baf_gghf gkhk\ hl m`_ [he__ e_l
IjZdlbdZ k_e_dpbb gZ bffmgbl_l dZ: qlh hkdhegh p_\
\ k_fvyo hl bffmggh]h jh^bl_ey \k_]^Z bf_xl lhl `_ bff
h[jZahf fu i_j_^Z\Zeb bffmgbl_l [he__ abfhklhcdbf [h
[he__m\kdguf gh\uf dZg^b^ZlZf \ khjlZ b ijb wlhf mjh_g
hklZ\Zeky [_a baf_g_gby \ q_lujzo]_g_jZpbyo kdj_sb
;hevrbgkl\h djmighieh^guo khjlh\ fZebgu bf_xl ihe_\m
\bjmkZf gZ mjh\g_ emqrbo klZg^Zjlguo khjlh\ bag^ey g
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lbiZ dmjqZ\hklb hl ih\lhjgh]h aZjZ`_gby \bjmkZfb < g
bkihevam_fu_ \ ]b[jb^baZpbb khjlZ FZjhk_cdZ :[hjb]_
: rubi b ihqlb iheh\bgZ k_ygpu\ ihemqo khjlh\ bf_xl wl
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bo gZke_^kl_gghklvx b g_ f_gy_lky]^_ [u g_ \ujZsb
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h[meh\e_g gZebqb_f \ bo]_ghf i_j_^Zzf :k]
k wlbf]_ghf i_j_^Zzf _]h gZrbf gh\uf khjlZf b \ ^Zev
gZrbo gh\uo khjlh\ [m^_l g_klb \ k_[_ wlhl bffmgbl_l
< Fhkd_ fu g_ _^zf k_e_dpbx gZ bffmgbl_l fZebgu
\bjmkZf lZd dZd ^ey wlh]h gm`gh ^hjh]hklhys__ eZ[hj
b ex^b mf_xsb_ jZ[hlZlv gZ gzf Djhf_ Zg]ebckdbo m
lZdb_ jZ[hlu ihdZ g_ ijh\h^yl mqzgu_ ^jm]bo kljZg >h
gZrm kljZgm _sz g_ aZ_a_gu i_j\u_ bffmgbl_l gzgu d \bjml
\u_^_ggu_ \ RhleZg^kdhf bgklblml_ k_evkdh]h ohayc
DZd ihdZaZl_ev Z^ZilZpbb khjlZ bffmgbl_l d i_j_gh
djZcg_ `_eZl_e_g lZd dZd wlh nZdlbq_kdZy [bheh]bq
^ey jZajmr_gby khjlZ kh klhjhgu iZlh]_gh\ \bjmkh\

AZ^Zgguc lbi]Z[blmkZ jZkl_gby

<ukhdb_ mjh`Zb djmiguo y]h^ fZebgu ihemqZxl gZ d
lbiZ \ dhlhjuo ih[_]b ijyfhjhkeu_ `zkldb_ ijhqgu_ Il
iheghf khaj_\Zgbb djmiguo y]h^ \ ex[mx]bi[Zlv^my ^he`g
\ klhjhgu ih^ ly`_klvx mjh`Zy b wlh hq_gv ljm^gh ihem
\ ^h`^eb\mx _lj_gmx ih]h^m Ih k\h_fm]Z[blmkm dmk
[u\Zxl k`Zlu_ dhfiZdlgu_ jZkdb^bklu_ b hq_gv jZkdb
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jZkiheh`_gb_f ih[_]h\ \ kZfhf dmkl_
JZkl_gb_ fZebgu fgh]he_lgbc dmklZjgbd GZ^a_fgu_ ih[
`b\ml ^\Z]h^Z Z dhjg_\Zy kbkl_fZ fgh]he_lgyy < dhg
`bagb ex[hc ih[_] fZebgu _kl_kl_ggh mkuoZ_l D wlh
dhjgb_sZ dmklZ fZebgu \ujZklZxl gh\u_ ih[_]b aZf_s_g
ihke_ ieh^hghr_gby gZ bo \lhjhf]h^m `bagb lZd`_ mk
pbdebqghklv h[gh\e_gby gZ^a_fghc qZklb hklZzlky g_
ih k_[_ jZkl_gb_ fZebgu `b\zl b ^Zzle_ukhdlbe_mjh`Zb

KBE: JHKL: Ih kbe_ jhklZ djmighieh^gu_ khjlZ fZebg
mkeh\gh gZ kbevghjhkeu_ kj_^g_jhkeu_ ihemdZjebd
dZjebdb <gmljb dZ`^hc lZdhc]jmiiu _klv g_dhlhju_
khjlm Hl[hju RL H b F dZjebdZkfy b ijb iheghf h[_ki_
bo ghjfZevguf iblZgb_f bo ih[_]b g_-\ujZklZxl \ulb_
nhjfu bf_xlL]._g
>ey lh\Zjguo b ^Zqguo ihkZ^hd fZebgu gZb[he__ `
kj_^g_jhkeu_ ihemdZjebdh\u_ ih[_]b dhlhju_ ijb ihe
iblZgb_f \ i_jbh^ bo ihegh]h ieh^hghr_gby -\ujZklZxl \
;hevrbgkl\h kms_kl\mxsbo djmighieh^guo khjlh\u_fZebg
ihemdZjebdb dhlhju_ ijb ghjfZevghf jZa\blbb [_a \f_r
nhjfbjmxl fhsgu_ ohjhrh jZa\blbb \ukhilhc hdheh f
Djmighieh^ghklv b kj_^g_jhkehklv emqr__ khq_lZg
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WG?J=BY J:A<BLBY Ijb h^ghc b lhc `_ kbe_ jhklZ g
dZjebdh\ jZkl_gby fZebgu fh]ml kbevgh jZaebqhZlvky
wg_j]bb jZa\blby kbe_ jZa\blby jZkl_gby fZebgu ih^
fhsghc kj_^g_c b keZ[hc wg_j]b_c jZa\blby LZd gZij
fZebgu k dZjebdh\uf lbihf jhklZ bf_xlky nhjfu k fhsgh
RL H F khjlZ kh kj_^g_c b jZa\blby F RL b kh
keZ[hc wg_j]b_c jZa\blby J :\]mklj_^
Kj_^b djmighieh^guo khjlh\ k ihemdZjebdh\uf jhklh
jZa\blby hlebqZ_lky khjl LZjmkZ Z keZ[hc wg_j]b_c j
lZ^brZo <ukhlZ ih[_]h\ mLZjmku b lZ^brZokZf gh ih[_]b LZjm
[he__ lheklu_ fhsgu_ f_`^hmaeby k[eb`_ggu_ eZl_j
kbevgh jZa\blu_ < ex[hf khjl_ fZebgu gZb[he__ `_eZ
ihemdZjebdh\uc lbi jhklZ k fhsghc wg_j]b_c jZa\blby
Dj_iur Fgh]b_ k_ygpu LZjmku ih kbe_ jhklZ ihemdZj
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< lh `_ \j_fy \ wlbo `_]b[jb^guo k_fvyo hl^_evgu_ ihe
bf_xl keZ[h_ jZa\blb_ ih[_]h\ eZl_jZkl\ hklv_ \ jZkl_gby fZebgu k
b kj_^g_c wg_j]b_c jZa\blby hklZxlky lhevdh \ k_e_dp
kZ^h\h^ijZdlbdZf g_ ihiZ^Zxl \hh[s_ gh wlhl k_e_dpbl
kms_kl\m_l \h \k_o k_fvyo ihemq_gguo ^Z`_ hl ohjhr
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DHFI:DLGHKLV B F:EH=:;:JBLGHKLV Wlb dZl_]hjbb
fZebgu aZqZklmx bf_xl j_rZxs__ agZq_gb_ ?keb gZ]
LZjmkZ ZddmjZlghklv b ihjy^hd ih^^_j`b\Zxlky ij_`^_
hkh[_gghklyf_gbZ wlh]h khjlZ lh gZ ^jm]bo khjlZo k^_
m^Zzlky lhevdh ijb [hevrbo aZljZlZo
GZ khjlZo k jZkdb^bkluf lbihf dmklZ FbjZ` ;bjxkbg
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mqZkld_ wlh g_ hq_gv \Z`gh gh b a^_kv ijb ZddmjZlg
\b^_ madbo jy^h\ mjh`Zc \k_]^Z gZfgh]h \ur_ [_kkbkl_
FZeh]Z[Zjblgu_ dmklu khjlhZ Zjmkhe kghZe_rgbd DjZk
Jhkkbb e_]dh kh^_j`Zlv \ \b^_ dhfiZdlguo jy^h\ ih kbk
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:[hjb]_g :jZ[_kdZ [_a hkh[uo mkbebc iha\hey_l ih^^_
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KhjlZ k [he__ jZkdb^bkluf lbihf dmklZ :j[Zl FbjZ`
^h k[hjZ mjh`Zy ih^\yaZlv d hihjZf b lhevdh lZd fu kh
ke_^mxs_]h]h^Z
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\klj_qZxlky \ jZajhag_gghf \b^_ b dZ`^uc kZ^h\h^ \u[b
ih^oh^ysb_ khjlZ

A:>?J@D: L?FIH< JHKL: IH;?=H< Ih[_]b aZf_lgh \ j_g
fZebgu d fhf_glm k[hjZ mjh`Zy fubZ\ur_xlbgwZ wlh aZf_lgh
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jZa^jZ`Z_l k[hjsbdh\ mjh`Zy wlb ih[_]b \ugm`^_gu hll
k[hj_ b fgh]b_ lZdb_ ihi[_]b_ [^u_Zxld dhgpm m[hjdb mjh
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y]h^ gZoh^ylky \ur_ h^ghe_lgbo ih[_]h\ k[hj mjh`Zy a
Iha^g__ \ Zk_mkly[j_ h^ghe_lgb_ ih[_]b LZjmku Zdlb\gl
jhkl_ b d dhgpm k_gly[jy \ujZklZxl ^h f \ \ukhlm l
ghjfZevghc \ukhlu
WlZ [bheh]bq_kdZy hkh[_gghklv jy^Z khjlh\ fZebgu ^h
ijb\e_dZeZ d k_[_ \gbfZgby gh ^ey dhff_jq_kdh]h ijh
fh`_l bf_lv hqhe_evrh_ agZq_gb_ Ijhba\h^bl_evghklv lj
y]h^ \hajZklZ_l ihqlb \ljh_ b wlh hkh[_ggh aZf_lgh gZ

J_fhglZglguc lbi ieh^hghr_gby

J_fhglZglgu_ f²Zebgu lZdZy dZl_]hjby jZkl_gbc ^u dh
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Ijh^mdlb\ghklv b mjh`Zcghklv

GZ ex[hc ieZglZpbb djmighieh^ghc fZebgu nhjfbjh\
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< [bheh]bb ih^ ijh^mdlb\ghklv ijbgyhk vZau\Zlv ijhba_^_gb_ kj
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_^bgbpu iehsZ^b gZijbf_j k h^ghc khldb beb]_dlZjZ

Kj_^b [hevrhZ]aghh[jZaby k_ygp_\ hl djmighieh^guo
dZl_]hjbx ©khjlª hlh[jZgu lhevdh \ukhdh ijh^mdlb\gu_
ml_j`^Zlv qlh djmighieh^gu_ fZebgu h[y-aiZh_lvgh ijh
q_eh_d kZf hlh[jZe b jZafgh`Z_l \ dZqh_kh_ khjlZ lhe
ijh^mdlb\gu_ k_ygpu DZ`^h_ jZkl_gb_ djmighieh^ghc
\ujZklZ_l \ \b^_ hl^_evgh]h g_[hevrh]h dmklZ- k b dhlhj
^Z`_ i-h d] y]h^ Ihegh\hajZklgu_ dmklu fZebgu m khjl
Bah[bevgZy ^Zxl ^h KZfhZih^h k_[_ wlh g_fgh]h gh gZ
^Zqgh]h mqZkldZ beb f_edhlh\Zjghc ohjhrh moh`_ggh

dmklh\ fZebgu

JZkqzlgZy mjh`Zcghklv lZdbo khjlh\ _kvfZ _ebdZ
4-5 d] k jZkl_gby khklZ\ey_lkhdhgh d]k h^ghc khldb G_j_^dh hl^
jZkl_gby ^Zxl ih d] b [he__ NZdlbq_kdZy mjh`Zcghl
\k_]^Z [he__ d] k khldb b ihelmqZixlpbZe[v_auoZmkbe

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jZkl_gbb ijhbkoh^bl ihkl_i_^gghc aZ^gh\j_f_ggh khaj_\Z
khjlh\ fZebgu g_ kms_kl\m_l ;hevrbgk[\k[hjh\ ohjy[m
ijhba\h^kl_ i-hke[hjh\ hklZxs-b_ky]h^ qZklh ijhklh
g_\u]h^gh kh[bjZlv Khjlzkhaj_\Zgb_f mjh`Zy -4m[bjZxl a
hkgh\guo k[hjZ b wlh ijbf_jgh mjh`Zy

I_j\uc k[hj m g_j_fhglZglguo khjl-hlh-khklZ\ey_lb]^_
lj_lbc ^Zxl hdhemjh`Zy Z q_-iyzjuc ijbf_jgh-30%
mjh`Zy Y]h^u-qlhjhzjlh k[hjh\ gZb[he__ djmigu_ khqgu
\uiheg_ggu_ Y]h^u ihke_^gbo k[hjh\ [he__ ZjhfZlgu_
hgb \k_]^Z f_evq_ y]h^ i_j\uo k[hjh\

GZ ^Zqghf mqZkld_ jZklygmlh_ khaj_\Zgb_ mjh`Zy
ijbagZdhf khjlZ _lhbj_ke_`bo y-]h^^a_gZc k jZkl_gbc h^gh
khjlZ kqblZ_lky \iheg_ ghjfZevguf

;bheh]bq_kdhc hkh[_gghklvx fZebgu y\ey_lky lh ql
jZgg_]h kj_^g_]h beb iha^g_]h kjhdZ khaj_\Zgby \ h^
mkeh\byo \g_rg_c kj_^uhlDkZhaj_^Zgby jZggbo khjlh\ k
1 ² bxey b ^h ihke_^gbo k[hjh\ y]h^ khjlh\ FbjZ` beb
20- Z\]mklZ ihemqZ_lky [he__ f_kyp_\ ihklmie_gby
fZebgu \ mkeh\byo lh^fhkdh\vy

;bheh]by ex[h]h khjlZ fZebgu ihalvhgZ_[hie_j_^ihag^gb
kjhdb khaj_\Zgb_ y]h^ LZd _keb ih[_]b iha^g_]h khj
jZkimkdZgby ihq_d h[j_aZlv kfZ \ukhZ_dlbq_kdb gZ lZdb
_kv mjh`Zc [m^_l lhevdh gZ eZl_jZeZo ba gb`gbo ihq

Рис. 21. Высокая продуктивность у малины. Равномерное и обильное расположение латералов по всей длине побегов замещения.

hdZau\Zebkv gZb[he__ ih^oh^ys_c hihjhc
?keb klhe[u aZ]em[eylv f_gvr_ Z fu \ i_j\u_]h^u aZ
ihlhf gZ kfqZklv klhe[h\ gZdehgyeZkv \ klhjhgm \f_k
©iZjmkhfª ih[_]h\ b y]h^ GZ ijZdlbd_ hdZaZehkv qlh
^_eZlv e_^hjm[hf beb [mjhf IhklZ\e_gguc \ yfdm klhe[
mljZf[h\u\Zxl ihklhyggh ijh_jyy gZkdhevdhihg [m^_l
riZ]Zlm Dhgp_\u_ klhe[u l_f beb bguf imlzf h[yaZl_ev
bkihevamxl ^_j_\yggu_ klhe[u lh bo gb`gxx qZklv ijbf
h[yaZl_evgh h[`b]Zxl gZ h]g_ qlh[u hgb ^he]h g_ gZql
GZ \ukhl_ kf aZdj_ieyxlfdmxehpbgdh\Zggmx ijh\h
lhesbghc ff Ijh\hehdZ lhesbghc A ff ijh\bkZ_l m`_ ih
ihwlhfm g_ijb]h^gZ ^ey riZe_ju Ijh\hehdZ lhesbghc
riZe_jm gh wlh ^hjh]h\Zlh b gbq_]h g_ memqrZ_l ih kj
ijh\hedb ff
Ijh\hehdZ [m^_l klhylv \k_ e_l `bagb ieZglZpbb \h
hpbgdh\Zggmx ijh\hehdm dhlhjZy ^he]h g_ gZqbgZ_l j
ihke_^gb_ e_l gZbemqrb_ j_amevlZlu [ueb ihemq_gu
hpbgdh\Zgghc ijh\hehdb dhlhjZy bf__l lhesbgm ff
Ijb mklZgh\d_ gZ^h gZly]b\Zlv ijh\hehdm h[udgh_gg
aZdj_ieylv dhgpu Ijh\hehdm gZj_aZxl dmkdZfb ijbf_jg
p_evguo dmkdh\ [he__ wlh]h lZd dZd aZ \jhfyZ \kzwd_ki
aZf_lgh ijh\bkZ_l <k_ dhgpu ijh\hehdb ij_^klZ\eyxl hi
ihwlhfm bo \k_]^Z gZ^h aZ]b[Zlv dhgphf \gba b wlh kh
\j_^hghkgh_ ^ey q_eh_dZ
GZ [hevrbo ihkZ^dZo b gZ ^Zqguo mqZkldZo kh_h^ghc
kf h[uqgh ^hklZlhqgh ?keb klhe[u klZ\yl j_`_ lh gZly]
ijh\hehdb ²h^gm gZ \u-khlkf b \lhjmx gZ \ukhl_ kf
Ih^\yaZggu_ d ijh\hehd_ ih[_]b iheh`_gh h[j_aZlv g
EZl_jZeu ih^jZklml-A_sxfgZ _jo b lh]^Z _jogb_ y]h^u gZ
hdZau\Zxlky gZ \ukhl_ ^h kf Wlh hilbfZevguc ij_^_
\jmqgmx b lZdZy riZe_jZ ^Zzl gZbemqrb_ j_amevlZlu
ieZglZpbyo
GZ ^Zqghf mqZkld_ klhe[u mklZgZlh b \Zxl _e_gghkbfh
fZebgm f_klZ b h[uqgh ebgby ihkZ^db dhjhq_ f L_f
klhe[u \kz jZ\gh gZ^h gZ]em[bgm ^h f lZd dZd bgZq
gZdehgy_lky \ klhjhgm

Ih^\yadm ih[_]h\ fZebgu d ijh\hehd_f\uZhe_yxf h[uq
riZ]Zlhf Wlh g_^hjh]hc riZ]Zl hg fy]dbc b m^h[guc \ j
ijb^zlky kj_aZlv q_j_a]h^ \f_kl_ k m^Ze_gb_f hlieh^hg
< gZr_c kljZg_ hdheh iheh\bgu \k_o ihkZ^hd fZebgu
ijbf_g_gb_f riZe_ju ij_`^Wlh\k_]h hlghkblky d gZkZ`^_gbyf
mqZkldZo GZ ijbmkZ^_[guo mqZkldZo wlm kbkl_fm ijb
riZe_jm ijbf_gyxl gZ fZebg_ \ kh\ohaZo b dheohaZo ;l
ohayckl_ggu_ ij_bfms_kl\Z \ujZsb\Zgby fZebgu gZ riZ

djmighieh^guo khjlh\ g_ ih^gbfZxlky \ur_ kj_^gbo

<ujZsb\Zgb_ fZe[bga ih^\yadb d hihjZf

FZebgZ [_a hihj g_iehoh ijhbajZklZ_l \ e_km < mj
fZebgZ ^Z-zl p^h]Z beb ijbf_-jghjZa f_gvr_ dmevlmjghc fZ
L_f g_ f_g__ g_ lZd m` j_^dh fh`gh \klj_lblv ihkZ^dm
hihj b hgZ lZd`_ ^Zzl gZfgh]h f_gvr_ y]h^ \ kjZ\g_gbb
gZ riZe_j_ Wlhl kihkh[\ujZsb\Zgby ho\Zlu\Z_l hdheh
gZkZ`^_gbc fZebgu \ gZr_c kljZg_ lh jZaguf ijbqbgZf
ijh^he`Zxl ^_eZlv b k_]h^gy zdqgZ^jh_^khZ\eyqv k_[_ ijbq
gZrbo ihl_jv

Ijb aZ]ms_gbb ih[_]h\ fZebgu bo gb`gyy iheh\bgZ \h
dZd \ e_km Z y]h^u _jog_c qZklb ih[_]Z qZklh dZkZ
\ujZklZgbb gh\uo ih[_]h\ ihqlb g_hjfZeevZ1u\Z\pxlkhyqgu_ i
gZ agZqbl_evghc qZklb ih[_]Z ihwlhfm ^Z`_ ihke_ \uj
ih[_]h\ p_l_gb_ \ ke_^mxs_f k_ahg_ [m^_l _kvfZ keZ
m^Ze_gbb hlieh^hghkb\rbo ih[_]h\ m^Ze_gbb kehfZgg
ih[_]h\Zdb_ ©aZjhkebª fZebgu \b^bfh \kz _sz [m^ml i
b ^Z`_ \ lZdbo ihkZ^dZo gZ^h \kz `_ \uihegylv h[sb_ ij
m^h[j_gbc h[j_adb qlh[u bf_lv ohly [u we_f_glZjguc m

<ujZsb\Zgb_ j_fhglZglghuc fZebg

Fu m`_ hlf_qZeb qlh khjlZ fZebgu j_fhglZglgh]h lbi
mjh`Zc gZ ih[_]Zo ijhreh]h ]h^Z b [he__ iha^gbc mjh`Z
]h^Z Fgh]b_ iulZebkv ihemqZlv b lhl b ^jm]hc mjh`Zc
jZkl_gbc gh wlh \kb_l^Zdijkgh^_gbx h[s_]h mjh`Zy b d g
mom^r_gbx dZq_kl\Z y]h^ \dmk djmighieh^ghklv b ^j
dlh iulZ_lky ihemqZlv k dmklZ b e_lgbc b hk_ggbc mjh
mjh`Zc fh`gh lhevdh k jZkl_gbc j_fhglZglguo khjlh\ fZe
GZ ieZglZpbb j_fhglZglghc fZebgu \k_ ih[_]b ihke_
kdZrb\Zxl ^h mjh\gy a_feb b gZ abfm ihe_ klZgh\blky ©
ijbjhklZ [m^ms_]h k_ahgZ GZ djmiguo ieZglZpbyo dmk
fZebgu jZaf_sZxl ih ko_ff_lh^ bZdmx kbkl_fm ihemq_gb
emqr_ \k_]h mklZgZ\eb\Zlv riZe_jm b h[yaZl_evgh ijh\
ijh\hehd_-aZ^g_c ^h gZqZeZ khaj_\Zgby y]h^ < lh^fhk
j_fhglZglguo khjlh\ G_^hky]Z_fhc b DZeZrghdZ\mZkqZgZ
ihwlhfm d Z\]mklZ ijh\h^yl ih^\yadm bo ih[_]h\ Fu fg
[_a ih^\yadb d ijh\hehd_ ih^ ly`_klvx mjh`Zy ih[_]b k]b
mjh`Zc l_jy_l k\hb dZq_kl\Z Ijh\h^blv ih^\yadm jZgvr_
g_p_e_khh[jZagh dZdqZkdvlhe[_]h\ \ujhkeZ \ur_ ijh\hel
qZklv _sz g_ ^hjhkeZ ^h gm`ghc \ukhlu

RiZe_jZ ^ey j_fhglZglghc fZebgu lZdZy `_ dZd b ^
fZebgu l_ `_ klhe[u b ijh\hehdZ gh ijh\hehdm aZdj_ie

\ukhl_ hdheb hgh]f^Z gZ \ukhl_f LZdZy ihkZ^dZ gZ khjlZo
b G_^hky]Z_fZy ^Zzl [he__ d] k dmklZ beb [he__
ohjhrbc iha^g_e_lgbc mjh`Zc gh hg fh`_l [ulv \^\h_ or
j_fhglZglgh]h khjlZ hklZ\eyxl gZ ieh^hghr_gbc ih[_]b i
kemqZ_ y]h^u h[hbo kjhdh\ ieh^hghr_gby [he__ f_edb_
kmffZjguc mjh`Zc g_\ukhdbc
KZ^h\h^u ^Z\gh k^_eZeb \u\h^ qlh fZebgm [_a riZ
\ujZsb\Z_l GZ ^Zqghf b ijbmkZ^_[ghf mqZkld_ b\kf_f
fZebgu gZ^h ijbkihkh-ebv dhjmx b d g_c _`_]h^gh ih^\y
ih[_]b

IhkZ^dZ fZebgu

FZebgZ ohjhrh jZklzl b ieh^hghkbl e_l ihke_ q_]
aZf_gyxl gZ gh\mx Ba_klgh fgh]h ijbf_jh\ dh]^Z ijb
mjh`Zb fZebgu ih k dmklZ ihemqZeb k fZebggbdZ \ \haj
]h^Z gh wlh \kz `_ bkdexq_gby b ijZ\bevg__ jZkkqblu\
ieZglZpbb fZebgu
FZebgZ fh`_l ijhbajZklZlv gZ h^ghf f_kl_ e_l b [h
mjh`Zc hgZ ^Zzl ^h l_o ihj ihdZ dhjg_\bs_ m h kgh\Zg
_kl_kl_ggh hlfbjZlv mkuoZlv l_j\u_ e_l ijZdlbq_k
ohjhrb_ mjh`Zb Z \ ^Zevg_Zb_ h_klh^xlmj\ukhdbfb lhevd
ohjhr_f moh^_ GZ ijZdlbd_ ihkZ^db djmighieh^ghc fZe
^\Z lbiZ eb[h wlh ihkZ^dZ gZ ^Zqghf mqZkld_ ^ey ebq
lh\Zjgh_ gZkZ`^_gb_ ^ey ihemq_gby ijb[ueb Nhjfbjmxl
ohly bxfl_h^gm b lm `_ [bheh]bq_kdmx hkgh\m H[s__ ^e
Z \ukZ`_ggu_ jZkl_gby ^he`gu ihemqblv ^hklZlh
hk_szggh_ f_klh
[dmklu fZebgu j_]meyjgh nhjfbjmxl Z ih[_]b ^h
ih^\yaZgu d ijh\hehd_ beb ^jm]hc hihj_
\ jZkl_gby ^he`gu [ulv h[_ki_q_gu iblZgb_f b \h

<U;HJ F?KL: GZ ^Zqghf b ijbmkZ^_[ghf mqZkld_ jZk
fZebgu \ukZ`b\Zxl \ ex[hf k\h[h^ghf f_kl_ b \ ex[hf ihjy
<u[hj f_klZ_bf[hevrb_ ihke_^kl\by ijb aZdeZ^d_ gh\h
ieZglZpbb fZebgu GZbe²mqlh_g_f_kl\hevrhc iheh]bc kdehg
x`gh]h gZijZ\e_gby k__jguc \hklhqguc aZiZ^guc b l
dhgp_ abfu b \ gZqZe_ _kgu g_ [u\Z_l Z]jgm`gZ\kl_ghc
g_ [u\Z_l ih^f_jaZgbc hl fhjhah\ \ i_jbh^u hll_i_e_c G
fZebgu kmi_kqZgZy ihq\Z Z ijb [hevrhf kh^_j`Zgbb i_k
lj_[m_lky h[_ki_q_gb_ iheb\hf gh h[wlhf ih^jh[g__ \ j
GZ ^Zqghf b ijbmkf mqZkld_ ihq\m m`_ g_ \u[bjZxl bk
\u^_ebeb gh aZlh aZgbfZxlky memqr_gb_f ihq_ggh]h

Рис. 24. Нормальное развитие пересаженного саженца малины

Moh^ aZ djmighieh^ghc fZebghc \ ]h^ ihkZ^db

I_j_kZ`_ggu_ ba ihkZ^db kZ`_gpu fZebgb_ i_j\h]h
]h^Z ljZlyl fgh]h mkbebc gZ lh b^Zlv ijbfZevgu ijbjhl
Wlb ^\Z jZagu_kiZh[bheh]bq_kdb h[_ki_q_gu ex[hfm kZ
ijZdlbd_ b lh b ^jm]h_ [u\Z_l ^Ze_dh g_ m \k_o kZ`_g
kZ`_gp_\ \ujhkeZ ohjhrh jZa\blZy fZebgZ bf gm`gZ h
kh klhjhgu q_eh_dZ
KZ`_gpu k ohjhr_c kdhkjg_f\hc ^ey ghjfZevghc ijb`b\Z_
lj_[mxl gbq_]h g_h[uqgh]h b lhevdh lZdb_ kZ`_gpu gZ
ihkZ^db fZebgu JZkl_gby kh keZ[ufb lhgdbfb dhjgyfb
h[j_aZggufb ijb \udhid_ Z lZd`_ \hh[s_ keZ[h \ujhkrb
hlkZ\xsb_ hl ghjfZevguo ih \ukhl_ b lhesbg_ rlZf[h\ lj_
^hihegbl_evgh]h moh^Z Ba gbo lh`_ fh]ml \ujZklb mj
lhevdh ijb [hevrbo mkbebyo k gZr_c klhjhgu

GhjfZevgh jZa\blu_ b ijZ\bevgh ihkZ`_ggu_ h^ghe_
i_j\uqh^ `bagb ^he`gu ^Zlv-ijbjhfkl b h[_ki_qblv jZa\blb
djmiguo ebklv_\ \^hev \k_]h ih[_]Z GZ gb`g_c qZklb
klZgh\blky ^\moe_lg_c ba g_dhlhjuo ihq_d fh]ml jZa\
b g_fgh]h y]h^ gZ gbo DZ`^uc jmhjehf_q_kdb_ hkh[_g
ebklZ b ih[_]Z b _keb wlb hkh[_gghklb gZebph agZq
ihjy^d_ AZf_lb-faZqlihjbakZ^db i-q\ulujlj ebklZ gZ gh\hf
g_kdhevdh g_^hjZa\blu gh b wlh ghjfZ ^ey i_j_kZ`_g
Fug_j_^dh ih\lhjy_f qlh ^ey fZebgu lj_[m_lky h[u
<]h^ ihkZ^db moh^ aZ fZebghc khklhbl \ ke_^mxs_f
kZ`_gpu ^he`gu ihemqZlv iblZgb_ b hjhr_gb_ \ukhdb_
ih^\yau\Zlv d hihjZf fZebgZ ^he`gZ [ulv [_a khjgydh\
b\j_^bl_e_c
Hkgh\gh_ iblZgb_ fu m`_ \g_keb \ ihkZ^hqgmx yfm
gZqZe_ jhklZ dh]^Z m kZ`_gpZ _sz g_ \ujhkeb dhjgb
h[yaZl_evgh ^Z\Zlv ih^dhjfdb Ohjhrb_ j_amevlZlu \k_
ih^dhjfhd Ih^ Fhjkbf\hjghi fZy \ghkbf i_j\mx ih^dhjfdm
g_^_-e\bhjmx b _sz kimkly-^lj_lgx^_lh^dhjfdm ^-gZ_f lZ
_^jh \h^u e [_jzf ehiZlm k_`_]h dhjh\v_]h gZ\ha
^h[Z\ey_f klheh\mx eh`dm ©k]hjdhcª kfhqb\jbugu^beb^bf
\h^hc ^h ihegh]h _^jZ ohjhrh i_j_f_rb\Z_f b \ghkbf i
dZ`^h]h kZ`_gpZ <kz ih\lhjy_f ijb \lhjhc b lj_lv_c ih^
`_ Djhf_ wlhc ljh_djZlghc ih^dhjfdb kZ`_gpZf djmighi
i_j\hf]h^m `bagbZpebb ^jm]h]h iblZgby g_ lj_[m_lky
Iheb\Zlv fZebgm \ ]h^ ihkZ^db gZ^h lhevdh \ aZkmr
kZ^m gbdh]^Z g_ ^he`gZ i_j_kuoZlv ihwlhfm e_lhf fZ
j_]meyjgh Gh ijb baebrg_c \h^_ ijb aZfhdZgab- dhjgb
^g_c gZqbgZxl fhqZeblvky b aZ]gb\Zlv ?klv klZjh_

-_keb juoeZy ihq\Z k]em[bgu eZ^hgb \ jmd_ jZkkuiZ_
k`Zlbb dhfhd lh ijbreh \j_fy iheblv ihq\m Dhjgb fZeb
abfm lZgdm`^Zxlky \ghcuq\eZ`gzgghc ihq_ <]h^u k g_
hk_gvx ihkZ^dZ fZebgu gm`^Z_lky \ mf_j_gghf ih^abfg
aZf_gy_l_ hk_ggbc ^h`^v

K _kgu i_j_kZ`_ggu_ kZ`_gpu _sz g_ h[jZah\Zeb d
b bf ljm^g__ ^jm]bo dmkl\k\ifZebvgk_[y \h^hc ihwlhfm
djblbq_kdbc i_jbh^ gZ^h \gbfZl_evg__ ke_^blv aZ k\h
g_ ^himkdZlv ih^kuoZgbygjZk^_ejZbv [hhebZ \hdjm] gbo
;hevrh_ agZq_gb_ bf__l fmejvq^hjhfZegbgu ihehkhc
\ghkyl lhjn keh_f hdheh kf LZdZy ih^mrdZ lhjnZ kiZ
i_j_iZ^h\ ih^kuoZgby _jog_]h]hjbahglZ ihq\u \ i_jbh
kZ`_gp_\ _sz g_ \ujhkeb dhjgb gZ gh\hf f_kl_ LZdZy
kihkh[kl\m_l emqr_fm gZ]j_\m kZ_fe_gg\hdjmZkli_gbc fZeb
KZf ih k_[_ fmevqbjmxsbc kehc lhjnZ kihkh[kl\m_l gZ
kZ`_gp_\ Z lZd`_ ij_iylkl\m_l jZa\blbx khjgydh\ <f_k
\ghkylky ^hihegbl_evgu_ k_f_gZ khjgydh\ b h[wlhf gZ
< k_j_^bg_dh]^lZ fheh^u_ ih[_]b m dZ`^h]h kZ-40gpZ \u
_f gZ^h m^Zeblv b k`_qv gZ^a_fgmx qZklv ijhreh]h^g
^himkdZlv ieh^hghr_gby gZ kZ`_gpZo lZd dZd wlh aZ
ijb`b\Z_fhklv Gh g_j_^dh m g_dhlhju_ih^kZa`_fgeb_^hie][h]
gZqbgZ_l jhkl gZ^h ^h`^Zlvky _]h jhklZ b iha^g__ h[
qZklv ih[_]Z

Hk_gvx i_j\h]h]h^Z h[yaZl_evgh ijh\h^yl ih^kZ^dm
f_klZ]^_ ihlhZjdbqbgZf kZ`_gpu g_ ijb`bebkv J_fhgl
ke^m_l hldeZ^u\Zlv gZ ihlhf lZd dZd \ f_klZo \uiZ^h\
khjgydb

Kh\j_f_ggu_ kbkl_fu dZi_evgh]h hjhr_gby emqrb
h[_ki_qb\Zxl iheb\ b \f_kl_ k gbf ih^dhjfdm gZ [hevrb
Ex[Zy kbkl_fZ iheb\Z fhe_g_[u^lhvkl\Zlhqghc gh dhgljhev
k\h_\j_f_gghklvx hjhr_gby ^he`_g [ulv \k_]^Z \ p_glj_

<j_^bl_eb b [he_agb gZ fZebg_ i_j\h]h]h^Z _sz g_
H[uqgh gZ ieZglZpbb i_j\h]h]h^Z gbdZdbo obfbq_kdb
\j_^bl_eyfhe_agyfb g_ ijh\h^yl gh \ ]h^u fZkkh\h]h jZ
de_sZ bgh]^Z \ugm`^_gu hijukdb\Zlv fZe.bgm ij_iZjZlh

Moh^ \ i_j\hf]h^m `bagb aZ ihkZ^dhc j_fhglZglghc
hlebqZ_lky hl moh^Z aZ h[uqghc fZebjdhqZkhmied_ggbb_
aZfhjhadh\ \kx gZ^a_fgmx qZklv j_fhglZglgh]h khjlZ k
GZ mqZkld_ fheh^hc fZebgu fu ^_eZ_f \kz ^ey ihemq_
jZkl_gbc fZebgu dhlhju_ \ ihkee_^lmxm^bml kihkh[gu ^Z\
\ukhdbc mjh`Zckl\Z dZhg_\bsZ dmklZ b gZebqby \ _]h
ohjhrh knhjfbjh\Zgguo dhjg_c [m^_l aZ\bk_lv kdhevdh
kihkh[_g ^Z\Zlv ohjhrb_ ih[_]b aZf_s_gby b agZqbl m
fheh^hf \hajZkl_ \ l_q-ibl_v_i_h\h]h^Z ij_^j_rZ_hkZ^mdi_

gZ [m^msb_]h^u ;bheh]bq_kdb m fZebgu \kz mkljh_g
ih^a_fgZy qZklv jZkl_gby y\ey_lky fgh]he_lg_c b bf_g
jZkl_gb_ fh`_l lZd beb bgZq_ knhjfbjh\Zlv wlm qZklv

Moh^ aZ fZebghc \klmhZxs_hc \gibe_

Iheghp_gguc ohjhrh jZa\bluc dmkl fZebgu \ujZklZ_
kZ`_gpZ aZ ljb]h^Z b \ wlhl i_jbh^ ieZglZpbx gZau\Z
ieh^hghr_gb_ KZ`_g_p \ ]h^ ihkZ^db fh`_l ^Zlv g_kdh
\ujZklZ_l h^bg kbevgu\chjh[_]h^Gm dZ`^h]h ihkZ`_ggh]
\ujZklZ_l-5ih[_]h\ aZf_s_gby Z d dhgpm lj_lv_]h]h^Z
iheghklvx knhjfbjh\Zg gz-f \ujZklZ_l aZf_s_gby b gZdh
q_l\zjlhf]h^m `bagb dmkl fZebgu \i_j\u_ ^Zzl iheguc
KhjlZ FZjhk_cdZ b LZ]ZgdZ ihkl_i_ggh gZjZsb\Zxl m
=b]Zgl b Bah[bevgZy wlhl i_jbh^ ijhoh^yl mkdhj_ggh b
\uoh^yl gZ k\hc fZdkbfZevguc mjh`Zc Wlb [bheh]bq_l
mqblu\Z_f gh ih^[bjZ_f khjlb\fk_glhijb_koh^y ba dZq_kl\Z
^Zgghf j_]bhg_
GZ fZdkbfZevguc mjh`Zc h[uqgh \uoh^bl ex[h_ jZk
ih^^_j`b\Zlv _]h g_ljm^gh ijhklh \uihegyy h[uqgu_ f_
m^h[j_gbc iheb\m b moh^m aZ ihq\hc FZdkbfZevguc
ij_^klZ\e_ggh]h a^_kv khjlZ dZd [u ©ij_^mkfhlj_gª kZ
\kz wlh ijhbkoh^bl [_a mqZklby q_eh_dZ
AZ^ZqZ kZ^²hih^^h\j`Zlv mkbeby dmklZ fZebgu b h[_k
fbgbfZevgh g_h[oh^bfhc ibs_c \h^hc k_lhf
FZdkbfZevguc mjh`Zc kh^dmklZ fZebgu m jZaguo khjlh\ g_
KhjlZ Bah[bevgZy :j[Zl FbjZ` ijZdlbq_kdb gbdh]^Z g
ihl_gpbZeZ qZklv ihke_^gbo p_ldh\ hklZzlky [_a y]h
iheghklvx i_j_dexq_gZ gZ khaj_\Zgb_ i_j\uo y]h^
ljb kZg^Zjlghc]mklhl_ ihkZ^lub hldhgZh]_dlZj_ khjlZ
jZaebqZxlky ih kljmdlmj_ k\h_]h mjh`Zy Ieh^h\u_ _l
LZjmku jZkiheh`_gu k[eb`_ggh b kha^Zxl \i_qZle_gb_
\^hev riZe_ju gZ -\ukhlf_ gZ^ a_fezdZlyjbp^b Klhebqghc
Klhe_rgbdZ dhgp_gljbjh\Zggh b jZ\ghf_jgh jZkij_^_e_
ih[_]Z KhjlZ :gnbkZ Bah[bevgZy b ;bjxkbgdZ bf_xl m
dhlhju_ jZaj_`_ggh b jZ\ghf_jgh jZkiheh`_gu ih \k_c ^

M>H;J?GBY wlb<]h^u jhklZ fZebgZ hq_gv gm`^Z_lky
m^h[j_gbyo g_kdhevdh f_gvr_ jZkl_gbyf lj_[m_lky dZ
nhknhjZ Ih gZrbf gZ[ex^_gbyf \ wlhl i_jbh^ gZ^h dZ
Zahlgu_ m^h[j_gby q_j_a]h^ dZebcgu_ b fh`ghu_kh\k_
GZ kmi_kqZguo ih^ahebkluo ihq\Zo Ih^fhkdh\vy gZ fZ
nhknhjguo m^h[j_gbc ^Zzl fZeh ihevau g_[hevrb_ ^ha

h[s_f memqr_gbb jZkl_gby Z \hl \g_k_gb_ Zahlguo m
mki_o ^_eZ
lh[_]b gZ \hjlvf_f]h^m `bagb fZebggh]h jZkl_gby
_`_]h^gh \ukhlhcf Qlh[u ihemqblv lZdhc ijbjhkl gZ ih
ihq\Zo gZ^h _`_]h^gh \ghkblv gZ h^gm khldm ijbf_jgh
ZffbZqghc k_eblju ?keb jZkl_gby jZklml keZ\h_ ghjfu
m_ebqb\Zxl \iehlv ^h d] gZ khldm <ghkyl wlb m^h
dZd kg_] khrze b m^h[j_gby g_ mieu\ml \f_kl_ k lZeh
aZf_qZeb qlh emqr_ bajZkoh^h\Zlv ih[hevr_ fhq_\bgu
**khldm agZy qlhzqZkkl^vh`^z_\mhcc^b bbyl \f_kl_ k lZehc **

z Z ``% æÐ bf°& ku€& cJ &°• ' g k ðoòz l 0&€ 0 a d l 0 g FCt l ð 0 g lrV$ g € ch

>HKLHBGKL<: DJMIGHIEH>GHC F:EBGU G: >:QGHF MQ:KLD? B < F?EDHLH<:JGUO G:K:@>?GBYO

AZdexq_gb_

GZ ijbmkZ^_[ghf mqZkld_ gZ ^Zq_ beb \ f_edhlh\Z
fZebgu ihy\beZkv gh\Zy [bheh]bq_kdZy \hafh`ghklv bf
khjlZ fZebgu kihkh[gu_ ^Z\Zlv ^h d] k h^ghc khld
dZ`^]h]_dlZjZ

KZfZ ih k_[_ djmighieh^ghklv ^Zzl kZ^h\h^m kjZam
\ kjZ\g_gbb k khjlZfb fZebgu h[uqgh]h lbiZ

<hi_j\uo h^gZ khldZ djmighieh^ghc ihkZ^db fZebg
\f_klh h[uqguo d] y]h^ Z ijhoih^\urf_gdkhffZevgh \haf
mjh`Zc fh`_l [ulv gZfgh]h [hevrbf

<h\lhjuo kZ^h\h^ ihemqZ_l _ebdhe_igmx \hafh`gh
jughqgh]h lbiZ dhlhju_ ih lh\Zjghklb y]h^ g_ bf_xl k_
lZdbo khjlh\ y\eyxlky gZb[he_ jubdmiZe_fuh^bZjyZ bo djm
jZaf_jm b djZkb\hfm \g_rg_fm \b^m

<lj_lvbo fZeh]Z[Zjblgu_ [_krbigu_ dmklu djmighie
fZebgu iha\heyxl \k_ jZ[hlu \uihegylv [he__ dhfnhjlgh
ijhba\h^bl_evghklvx ljm^Z b wlh bf[hjsbdhg\Zih`dbe_h]^ey
\hajZklZ

G_evay aZ[u\Zlv qlh gZ ^Zqghf mqZkld_ kZ^h\h^
bf_lv \hafh`ghklv ihex[h\Zlvky djZkhlhc jZkl_gby b gZ
y]h^ fZebgu Kj_^gb_ ih jZaf_jm ohjhrh gZ]jm`_ggu_
dmkluZebgu [_a khfg_gby hq_gv ijb\e_dZl_evgu b ih k
LZdb_ ihkZ^db g_ lj_[mxl [hevrbo nbabq_kdbo mkbeb
ex[hfm `_eZxs_fm b wlbf g_aZf_gbfu gZ g_[hevrbo ^Z

< f_edhlh\Zjguo gZkZ`^_gbyo bZ[hevrbo ^eZv]b
\deZ^u\Zxl ^ey ihemq_gby ijb[ueb gZ^h ijbmqblv k_[y
jZ[hlZxsbf a_ghf dhff_jq_kdhc ihkZ^db fZebgu y\ey_l
\u^_j`Zggu_ jy^u \ dhlhjuo dZ`^uc dmkl hl^_e_g hl ^j
[u\Z_l rbjhdbo kjhkrbbky_jZehkf_jgh]h aZ]ms_gby l_jj
Jh\gu_ g_aZ]mszggu_ jy^u dZd ©dbjibqbª Zddmj Zlgh
ijhba\h^kl\m y]hª <kz wlh ohjhrh mijZ\ey_fh_ ijhba\
q_eh_dZ fh`_l [ulv \b^hbaf_g_gh b i_j_nhjfbjh\Zgh \
j_evnZ jZkiheh`_gby kljh_gbc b ^hjh] beb \ k\yab k]
ohaybgZ

GZ [hevrhf fZkkb_ ^Zqguo mqZkldh\ ]^_ bgl_j_k d
[hevrhc f_j_ kbf\hebq_kdbc ihkZ^db gZ[hjh\ khjlh\ k

`zelufb yjjZkgufb beb qzyjkuf_bbq_kdhf hlghr_gbb gbq
aZf_gbfu ^ey hl^uoZ b ijh]mehd b lZdb_ a_ezgu_ kl_g
jZkl_gbc k djmigufb y]h^Zfb hq_gv ihimeyjgu
>Zqguc mq²Zwlhdihqlb \k_]^Z hq_gv g_[hevrZy l_jjb
jZaf_sZxl jZaghh[jZabyu_ ijZk^h_gu_ y]h^gu_ h\hsgu_
^_dhjZlb\gu_ b ^Z`_ a_ezgZy ba]hjh^v ij_^klZ\e_gu g
a_feb b \k_]^Z _klv hsms_gb_ qlh ihkZ^blv \kz g_ ih
wlhf fZebgZ [ueZ b hklZzlky ex[bfhc dmevlgmjlhc gZ ^Z
^Zqgh]h mqZkldZ [_a fZebgu
A^_kv ijb_^_gu ij_bfms_kl\Z gZkZ`^_gbc djmighie
ihkZ^dZfb ba khjlh\ h[uqgh]h lbiZ G_ klhbl aZ[u\Zlv
ij_bfms_kl\Z ^hklb]Zxlky lhevdh ijb h[uqghf ghjfZevgh
aZims_gghkfl m_qZemqr_ \u`b\Zxl f_edhieh^gu_ ^bdh\Zlu_
< qzf ij_bfms_kl\Z hl ihkZ^db khjlh\ djmighieh^ghc
baeh`beb \ur_ a^_kv `_ hlf_lbf dh]^Z b ijb dZdbo ml
gZ aZf_gm h[uqguo ihkZ^hd djmighieh^gufb kZjlZyfb l
aZf_gZ \k_]^Z hijZ\^ZgZ _keb ih^hreh \j_fy aZf_gylv
gh\u_ AZf_gZ gZ djmighieh^gmx fZebgm \k_]^Z hijZ\
kj_^kl\Z gZ ghjfZevguc mob^h [_a mZdbo ih moh^m Gm
dh]^Z klhbl \hijZk^d_ ihZ gh\hf g_aZgylhf mqZkld_ a_fe
\k_]h gZ^h \a_kblv k\hb kbeu b ih \hafh`ghklb ihkZ^b
fZebgm ohly [u gZ iheh\bg_ lhc iehsZ^b dhlhjZy gZf_
Dh]^Z gZdhiblky hiul ih moh^m aZ djmighieh^gmx fZel
dZdb_ bf_ggh khjlZ ^Zxl y]h^u dhlhju_ \Zf gjZ\ylky
kf_e__ b^lb gZ ihkZ^dm bkdexqbl_evgh djmighieh^guo
<h fgh]bo kemqZyo gZkeurZ\rbkv h [hevrbo ij_bfm
djmighieh^ghc fZebgu kZ^h\h^uZjgue_ihkZ^dbkh\jlZfb
lZdh]h lbiZ Hgb g_ kh[bjZebkv \uihegylv ohly [u hkgl
moh^m j_amevlZlu m gbo [ueb lhevdh iehob_ b wlb e
\ujZsb\Zgb_ djmighieh^guo khjlh\ fZebgu ih^ Fhkd\hc
G_ \k_f_b_a^_ ke_^m_l aZgbfZlvky djmighieh^guf
l_j_^ l_f dZd ijhba_klb [hevrb_ aZljZlu ij_`^_ q_f ^
f_edhlh\Zjguo gZkZ`^_gbc ^ey ihemq_gby ijb[ueb gZ^
eb m \Zk hiul ih \ujZsb\Zgbx fZebgu ^Zhkl_Zlhqgh\geb_\
ijbzfu jZ[hlu k g_c < f_edhlh\Zjghf ijhba\h^kl_ fZeb
^jm]b_ \ kjZ\g_gbb k ihkZ^dhc fZebgu gZ ^Zqghf b ijb
=hjbahglu ^ey [bag_kZ a^_kv hq_gv ohjhrb_ Z jughd
hklZg_lky g_aZihZ^g_ggZufiheh\bgm
=eZ\gh_ ij_bfms_kl\h lh\Zjguo ihkZ^hd djmighieh^
[ukljhf \ha\jZl_ \eh`_gguo ^_g_] b ohjhrZy _`_]h^gZy
`bagb gZkZ`^_gby LZd ijb ihkZ^d_ khjlh\ FZjhk_cdZ
aZljZlu gZ^ihk b moh^ hdmiZebkv m`_ ijb j_ZebaZpbb
M`_ k q_l\zjlh]h]h^Z ohaybg kZ^Z ©[ue k\h[h^_gª hl
^Zevr_ ijh^he`Ze g_aZ\bkbfmx nbgZgkh\mx `bagv
Gh gbq_]h ijhklh]h b ez]dh]h \h \k_f wlhf ^_e_ g_l

jZaebqgu_ ©ijhdheuª \ ohayckl_gghc jZ[hl_ k djmighi
hkh[_ggh _keb wlh ^_eh \ jmdZo gh\bqdZ g_ bf_xs_]
wlhc dgb]_ hibkZgu [bheh]bq_kdb_ b Z]jhghfbq_kdb_
y]h^ \ ihkZ^dZo djmighieh^ghc kZebgu b\Zlh gh \h
`bl_ckdbo kblmZpbyo _sz \Z`g__ ^jm]b_ klhjhgu kh\j_
gb \ dh_f kemqZ_ g_evay k[jZku\Zlv kh kqzlZ _sz ^h
fZebgu

B \kz `_ ijh[e_fu [bag_kZ ijb ijhba\h^kl_ky]h^ fZe
\b^m g_djbfbgZevgu_ klhjhgu ijhba\h^kl\Z b k[ulZ \ i
djmighieh^ghc b h[uqghc fZebgu ^h\hevgh koh^gu_ Z
djmighieh^guo khjlh\ dZd kj_^kl\Z ijhba\h^kl\Z gZebp
mqzlhf iexkh\ b fbgmkh\ ohayckl_gguo dZ bjZu klhjhgzl
djmighieh^guo nhjf Kh]eZkgh Zg]ebckdhc gZjh^ghc il
^_gv]Zfª b _keb g_l bkoh^gh]h dZiblZeZ _keb ^_g_]
lukyq _\jh gZ aZdeZ^dm ieZglZpbb fZebgu ^_eZxl g_^
djmighieh^guo khjlZfb Gh ijb gZebqbb ^_g_] j_glZ[_evgh
fZebgu gZfgh]h \ur_ aZ_lguo dh]^Z ex[u_ [Zgdb
^_gv]b \ ijhfure_gghklv \ lhj]h\ex dm^Z m]h^gh _ke
]ZjZglbjh\ZgZ

Bklhjby \u_^_gbyeh^mio djmighkhjlh\ fZebgu ihdZ _sz g_
h[tzfu k_e_dpbhggh]h fZl_jbZeZ ih wlhc dZl_]hjbb nh
g_[hevrbfb Ihkl_i_ggh nZdlu h[wlhc dZl_]hjbb fZebgu
^hklmigufb \kz [hevr_fm qbkem bkke_^h\Zl_e_c b ^Z`
jZ[hlu [m^Zml_jr_gu mki_rgh lh wlh dZq_kl_ggh baf_g
khjlbf_gl_ lZd b \ ijhba\h^kl_ y]h^ fZebgu gZ [Za_ k
lbiZ

GZb[he__ jZkijhkljZgzggu_ hrb[db b g_m^Zq
ijb \ujZsb\Zgdjb djmighieh^ghc fZebgu

?keb <u ihkZ^beb kZ`_gpu fZebgu lh wlh _sz g_ h
[m^_l_ bf_lv ohjhrbc mjh`Zc y]h^ Ex[Zy ihkZ^dZ fZeb
\k_]^Z ^Zzl ^hklZlhqgh fgh]h y]h^ b ihwlhfm \Z`gh ihg
o\ZlZ_Zlr\c fZebg_

G_fZeh kZ^h\h^h\ dhlhju_ ihkZ^beb m k_[y ohjhrb
qlhlh ^_eZxl ih moh^m aZ g_c gh m gbo lZd b g_ iher
k_fvx y]h^Zfb fZebgu AZ fgh]b_]h^u jZ[hlu k fZebgh
gZ[ex^Zlv jZagh_jZa gu_ jZ_m^Zqb kZ^h\h^h\ b [ueh [u ijZ\b
jZah[jZlv \hafh`gu_ imlb bo bkijZ\e_gby

: FZebgZ \hh[s_ g_ jZklzl

FZebgZ g_ fh`_l jZklb \ f_klZo]^h_b_ziudu\jZxlihk baebr_d \h^u GZ ^Zqghf mqZkld_ fh]ml [ulv g_[hevrb hdheh \h^hdZqdb hdheh f_kl kibgZ \h^u b l ^ < ijbjh jZklzl gZ [hehl_ hgZ g_ jZklzl \ f_klZo ^ebl_evgh]h a aZ]gb\Zxl [_ah \kydbc [hkeb \ ihq_ ^he]h klhbl \h^Z g_ [u\Z_l gb kbevghc gb keZ[hc fZebgu \ lZdbo f_kl fZebgu

FZebgZ g_ jZklzl gZ aZkhezgguo f_klZo]^_ kh \ukuoZxs_c ihq_ Ba[ulhd \ ihq_ghlh^_ebvgZ pbwedZf fZj]ZgpZ f_^b ly`zeuo f_lZeeh\ b l ^ \klj_qZ_lky dj f_klZo ijZdlbq_kdb g_ ijhbajZklZxl ihqlb gbdZdb_ jZk f_klZo fZebgZ lh`_ g_ jZklzl

A GZ kdZebkluo f_klZo gZ kmoobjo^i_\kudeZbdu gZ f_k g_nl_ijh^mdlu \ujZklblv fZebgm g_ m^Zzlky `blv \ lZ hgZ g_ fh`_l

Djhf_ i_j_qbke_gguo a^_kv fh]ml [ulv b ^jm]b_ f_k jZkl_gby g_ fh]ml ijhbajZklZlv Ihke_ aZ_jr_gby kljh g_j_d^h gZ ih_joghklb jZajZ\gb\Zxl \udhiZggmx]em[bg dhlhjhc ihqlb gbq_]h g_ jZklzl ?keb ih_jo lZdhc ©fh kehc- kf ohjhr_c ihq\u lh fh`gh \ujZsb\Zlv ex[u_ jZk qbke_ b fZebgm

GZ f_klZo ihkel_Z kZZfe_v kZZfe_klZo [u\rbo kdeZ^h\ k obfbc _s_kl\Zfb gZ f_klZo]^_ keb\Zeb \h^m ba ih^ khe_g fZehjZkijhkljZgzggu²o \ikzqbgh gZ^h ijh^mfu\Zlv ^h ihkZ b kZ^Z b \h \k_o lZdbo f_klZo qZs_ \k_]h ijbom^blky

; FZebgZ jZklzl^ZeZ[gbabdb_ mjh`Zb

KZfZy jZkijhkljZgzggZy ijbqbgZ keZ[h]h² jmkhlZ \Zr_ g_^hklZlhqgh_ iblZgb_ b g_h[_ki_q_gghklv jZkl_gbc i jZkkfhlj_gh \ khhl_lkl_ggu^Zogjzac^_eZ]b a^_kv `_ hlf [_a iblZgby b iheb\h\ mjh`Zy fZebgu g_ ihemqZ_lky l j_rZlv ^h ihkZ^db efZ[hgu jfZevguc moh^ eb[h kZ`Zlv gZ^h

FZebgZ g_ [hblky dbkeuo ihq\ b \ ijbjh^guc mZkeb\b Jhkkbb ohjhrh jZa\b\Z_lky ^Z`_ gZ dbkeuo ihq\Zo k d <g_k_gb_ ba\_klb b kgb`_gb_ dbkehlg_]^Zo k jGqrZ_^lh fhsghklv jZa\blby dmklZ fZebgu

GZ lhjnyguo ihq\Zo k dbkehlghklvx hdhe\Z_lky fZ iehoh b \g_k_gb_ ba_klb²ik_f]^Z ^Zzl iheh`bl_evgu_ j_amevlZlu

=ebgbklu_ a_feb ^ey fZebgu g_ijb]h^gu hgZ ihqlb khhl_lkl_ggh h[mjh`Z_]h\hjblv g_ ijboh^blky GZ]

hklZ\eylv lhevdh ihkZ`_ggu_ \Zfb dmklu @zkldmx b [
[hjv[m k ihjhkevx fZebgu gZ^eh \dZ\^hh]h gZ qahgZ dh]^Z
a_ezgufb ih^j_aZxl \k_ ihjhke_\u_ ih[_]b \ a_fe_ hkljl
lZdb_ ih[_]b hklZxlky \ukhorbfb gZ f_kl_ =eZ\gh_ \ l
m^Ze_gbb ihjhke_ gZ fjumrZ_f dhjg_\hc kbkl_fu kZfh]h dm
?keib ihjhkev ^h hk_gb g_ m^Zeyeb Z hk_gvx _z \udhiZ
ih\j_`^Z_lky kbkl_fZ dhjg_c dmklZ b wlh hq_gv iehoh
H^gZ ba gZb[he__ jZkijhkljZgzggu²owlh hb[hd kZ^h\
\ujZsb\Zgb_ fZebgu [_a hihj <uZkl dlb_ vdjh`lZ bfZebgZ
dhlhjhc ih^\yaZgu d ijh\hehd_ gZ riZe_j_ Fh`gh ih^\y
fZebgu b d ^jm]bf \b^Zf hihj gh ^h kbo ihj \ukhdb_ m
lhevdh gZ riZe_j_ DZd b ba q_]h mklZgZ\eb\Zxl riZe
jZa[bjZeb_] a^_kv `_ hlf_lbf qlh hlkmlkl\b_ riZe_
\k_ gZrb mkbeby ih ih^[hjm khjlh\ m^h[j_gbyf b iheb
gZ fZebg_ ijhklh g_q_f Ba_klgu kZ^h\h^u k g_iehoh
riZe_ju gh km^bl_ kZfb qlh emqrb_ ih^j_bZ\xlZ kyr^Ze_
k nZdlbq_kdh]h]_dlZjZ [_a i_j_kqzlh\ k g_[hevrbo m
\k_ ba_klgu_ mjh`Zb [ueb gZfgh]h f_gvr_ l]Z
Ijb \ujZsb\Zgbb fZebgu gZb[he__ mjh`Zcgufb y\e
f_`^mjy^vyfb f >eybgu fhlhcZrebjbgu \iheg_ ^hklZlh
^ey q_eh_dZ b ^ey _]h hjm^bc h[jZ[hldb g_j_^dh ^_e
2,5 f Z ijb g_jZ^b\hf moh^_ f_`^mjy^vy ^_eZxl ih² f
wlh rbjhdZy e_glZ ba dmklh\ b ihjh²kevdh g_jZb\k\uc mo
riZe_ju gZ ieZglZpbb Q_f rbj_ f_`^mjy^vy l_f f_gvr_
jZkl_gbc gZ h^ghf]_dlZj_ l_f gb`_ mjh`Zc FZebgZ [
mjh`Zc lhevdh gZ _jomrdZo ih[_]h\ b y]h^ ihemqZ_lk
< jy^m jZkl_gby kZ`ZxlZ ihjh`_c ijb ©dmevlmjghfª m
mklZgh\e_gh qlh emqr_ \k_]h ihemqZ_lky mjh`Zc ijb
kf ;bheh]bq_kdb_ ijbqbgu wlh]h hibkZgu \ khhl_lkl_
dgb]b a^_kv `_ hlf_lbf qlh [he__ mjh`Zcghc ihkZ^db
<u Zkfb j_rbl_ qlh bf_ggh \Zf emqr_ ih^oh^bl

5. G_ijZ\bevgu_ ^_ckl\by kZfh]h kZ^h\h^Z g_j_^dh ij
jZkl_gby jZa\b\Zxlky kbevgh Z mjh`Zc k gbo g_[hevrl
Ijb ba[uld_ Zahlguo m^h[j_gbc ih[_]b fZebgu \ujZkl
^h-3,5 f Z mjh`Zc jZa\b\Z_lky lhevdh gZ _jomrdZo ih[
^_eZ_l ^ey k_[y ba wlh]h \u\h^ qlh ij_`g__ dhebq_kl\
_]h dhgdj_lguo jZkl_gbc gZ^h mf_gvrblv bgh]^Z \^\h_
hq_j_^ghf]h^m _]h fZebgZ g_ ©[mrm_lª
Dh]^Z \h \lhjhc iheh\bg_ e_lZ ih^ fZebgm \ghkyl g
m^h[j_gby lh wlbf \uau\Zxl gh\mx \hegm jhklZ b d ab
g_ih^]hlh\e_ggufb b fh]ml kbevgh ih^f_jaZlv ^Z`_ ijb
GZ ke_^mxsbc]h^ mjh`Zy_lihZ jZa\blm_ ih[_]h\ [m^_l h
kbevguf AgZqbl \ghkblv gZ\ha b ^jm]b_ m^h[j_gby \
g_evay wlh k_[_ \h \j_^

G_ijZ\bevgZy h[j_adZ dh]^Z \ dZ`^hf dmkl_ H5klZ\e
kbevguo ih[_]h\ ijb\h^bl d kbevgh]h\ jhklZ a_e_gb b g
mjh`Zx gZ ke_^mxsbc ]h^ DZ`^uc dmkl ^he`_g bf_lv
ijhreh]h^gbo ih[_]h\ ^ey mjh`Zy gug_rg_ ih[_]hZ ijb[uq
ihkZ^d_ dmklh\ q_j_a kf \ jy^m ?keb ih[_]h\ ieh^hg
lh jkZ_gb_ fZebgu i_j_dexqZ_l k\hb kbeu gZ jZa\blb_
h^ghe_lgbo ih[_]h\ b mjh`Zy ihqlb g_l
G_dhlhju_ kZ^h\h^u kZ`Zxl fZebgm ihqZs_ g_ q_j_a
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kZ^h\h^h\ dhlhju_ hklZ\eyxl rbjhdmx e_glm ih[_]h\ r
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h^gh]h ih[_]Z j_adh iZ^Z_l ^Z b h[sbc mjh`Zc y]h^ k
mf_gvrZ_lky <kz wlh ih^ijh_gh\jZkf_c dgb]_ Z a^_kv
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[he__ f_edbfb g_guihe g\h^ygbklufb b [_a\dmkgufb

= FZebgZ g_ fh`_l \ujh`^Zlvky

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mqZkld_ kZfZ ih k_[_ klZeZ lZdhc aZ jy^ e_l ohly \g
ghjfZevgufb bc mjhe`Z g_iehohc L_i_jv mjh`Zy ihqlb g_l
b fgh]b_ jZkl_gby ijhklh ijhiZeb < lZdbo kemqZyo]h\
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b ba ohjhr_c fZebgu hklZeb k mkeZldh`Ze`Z_gpu lZdhc
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kgh\Z klZgh\beZkv mjh`Zcghc b bf_eZ \g_rg_ a^hjh\u

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ihjhkeb b \g_k_gbx gZ\haZ dmklu fbgyeb ©kihe`hjgh\
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ieh^\hu_ _lhqdb bkdexqbl_evgh aZiheg_gu y]h^Zfb y]
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k ijbf_g_gb_f we_f_glZjguo mdjulbc iha\heyxl _fm ^h
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^hklZlhqghf \g_k_gbb gZ\haZ dZd ih^ Fhkd\hc ohly
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djZy khjlZ lZljbpby FZjhk_cdZZreBa^[bkvgZy^gckl\bl_e
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gZijZ\e_gu gZ kha^Zgb_ mkeh\bc ^ey ih^^_j`Zgby ijbj
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Hkgh\gZy qZklv fZebgu \ gZr_c kljZg_ \ujZsb\Z_lky
wlbo j_]bhgZo -ihe\fZlbhq_kdb_ mkeh\by \iheg_ ^hklZlh
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lh^[hj khjlh\

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eZl_jZeh\ [hevr_\ihlye^dhb\y gZ eZl_jZe_ [hevr_]h qbk
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b ^h dhgpZ Z\]mklZ ihlj_[eyxl \ k_`_f \b^_ y]h^u g_j
fZebgu bkihevamy jZggb_ kj_^gb_ b hq_gv iha^gb_
fu mdZaZeb \ hibkZgbhyimkzflkbevghc h[j_adb m iha^g
fh`gh ijh^\bgmlv khaj_-\Zg^hg_ogZha^g__ bo ghjfu B lh]
b j_fhglZglgu_ khjlZ kha^Zxl \hafh`ghklv bf_lv d klhe
gZqZeZ bxey b ^h hdly[jy
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ijh\hehd_ b[h k\bkZxsb_ ih[_]b kbevgh ehfZxlky \ i_j
Wlb hkh[_gghklb khjlh\ gZ^h mqblu\Zlv ijb \u[hj_ f_kl
lZd dZd jZkdb^bklu_ dmklu _sz ^h ih^\yadb ih[_]h\ fh
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| jbf_j lh]h dZd l_hj_lbq_kdZy gZmd^Zb]vky lbdZ fh
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G_ih^^_evgh_ \hkobs_gb_ ex[h]h q_eh_dZ \uau\Z_l i
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GZrb djmighieh^gu_ khjlZ lZljbpby FZjhk_cdZ Ba
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Z e e _ e _ f L] _ g Z > b k . k d Z g ^ k o g Z m d G B A B ³ K G I k F
D b q b g Z < D j m i g h i e h ^ g Z y f Z e b g Z © D j _ k l v y g k d Z y J h k l
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1999.
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2002.
D b q b g Z < < F _ q l Z k l Z g _ l Z y \ f Z x e b Z g] u h l _ o Z r b d k h l h d
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D b q b g Z < < D j m i g h i e h ^ g u _ k h j l Z f Z e b g u © < Z r b
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D b q b g Z < < F Z e b g Z d ² j m i Z ^ i e h ^] h Z y ^ « 27, 2004.
D b q b g Z < F Z e b g h \ u _ k _ d j _ l u h] : j h ^ l _ o ² g k d Z b h] h j h ^ 4,
k 26-28,
2004.
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ПОЖЕЛАНИЯ АВТОРА

Хочется предостеречь садоводов от недоразумений, которые могут возникнуть при покупке саженцев крупноплодной малины, так как по их внешнему виду бывает трудно отличить истинные сорта от несортового материала. Доверять можно только тем питомникам, которые много лет реализуют крупноплодные сорта и строго придерживаются сортового соответствия.
Чистосортные саженцы крупноплодной малины в Москве производятся в питомнике Всероссийского селекционно-технологического института садоводства и питомниководства (ВСТИСП), в фермерском хозяйстве В.М.Фадюкова (обращаться по адресу:
115477 Москва, Пролетарский проспект, д. 33, корп. 1, кв. 95; тел.: 323-5771), и в садовой компании «Садко» А. Е. Седова (обращаться по адресу: 141212 Московская обл., Пушкинский р-н, п/о Лесные поляны, ул. Центральная, д. 25).

Виктор Кичина

D b q b g Z < b d l h j < Z e _ j v y g h \ b q

D J M I G H I E H > G U F ? E B G U J H K K B B

< k z h d j m i g h i e h ^ g u o n h j f Z o f Z e b g u d j Z k g h c

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b i b l h f g b d h \ h ^ k l \ Z < K L B K I F h k d \ Z
l h ^ i b k Z g h \ i _ q Z l v N h j f Z l o
; m f Z] Z f _ e h \ Z g g Z y = Z j g b l m j Z L Z c f k M q b a ^
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Виктор Валерьянович Кичина — известный российский селекционер, доктор биологических наук, профессор, заслуженный деятель науки России. Во Всероссийском селекционно-технологическом институте садоводства и питомниководства В. В. Кичина работает более 40 лет по вопросам выведения новых сортов плодовых и ягодных растений.

Профессор В. В. Кичина в 1976 году впервые завез в Россию крупноплодную малину. Почти за три[illegible]

[illegible]ции в рабо-
ы, США, Англии и особенно
нина использовал при выве-
ских сортов крупноплодной
оры и генетические коллек-
овых крупноплодных сортах
гены иммунитета к пере-
итамбовости и бесшипности
ой продуктивности, высоко-
геном крупноплодности L_1,
о на современном научном

те с учеными Канад
Шотландии В. В. Кич
дении новых москов
малины лучшие дон
ции этих стран. В н
малины сочетаются
носчикам вирусов, ш
побегов, гены высок
го качества плодов с
и все это выполнен
уровне.