



NÜkhI x<+eafroMk dh [ksh%vuq #ku vk\$ Hfo"; dh I Hhouk,;

I jte ?krygj\$ vkykd dckj¹ fncbhnÜkh¹ vfer Hkvj\$

I kjlak

fromMk %yk[kMh% NÜkhI x<+dh çedk nyguh QI y esI s, d gA /kku dscn] {ks=Qy dh -f"V I sl cl svf/kd jdck bl QI y dsvlrxr vkrk gA /kku vk/kfjr -f"eabl QI y dh vge-Hkiedk gA I hfer ikuh, oavU; I d k/ku gkus ij Hkh fromMk dksmrjk fof/k }kj k vPNsI s [ksh fd; k tk I drk gStgkaij vU; nyguh QI y ughagksirk ogkaij Hkh fromMk vPNsI sgks tkrk gA fromMk dh nky dsl kFk&I kFk bl dscdky i fÜk; kadksHkh I Cth ds: i cgr il n fd; k tkrk gsvk\$ bl dksI v[kk dj Hkh j [kk tkrk gA bl esçk\$hu dsl kFk&I kFk vU; mi; ksch i kskd rRo ik, tkrsgA "kh dck\$?kkl eVj] i Ükk&I Cth] çk\$hu nkyA

Cultivation of Grasspea in Chhattisgarh: Research and Future Prospects

Surendra Ghritlahre¹, Alok Kumar¹, Dibendu Datta¹, Amit Bhatore¹

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ABSTRACT

Grasspea (*Lathyrus*) is one of the major pulse crops of Chhattisgarh. After rice, in terms of area, the maximum area comes under this crop. This crop has an important role in rice based agriculture. Despite having limited water and other resources, grasspea can be cultivated well by Utera method, where there are no other pulse crops, grasspea grows well. Along with grasspea pulse, its soft leaves are also very much liked as a leaf-vegetable and it is also kept dry. Along with protein, other useful nutrients are found in it.

Key words: Grasspea, Leaf-vegetable, Protein, Pulse.

os'od tyok; qifjorÜ dh nk\$ e\$ [kk] I j{kk vk\$ -f"eabl fLFjrk dksydj xHkh vk' kadk dscdj. k] de mi; ksch okys QI y dk vUosk. k rFk egRo c<k gA de mi; ksch okys QI y frokMk %y\$FkjI I sVol, y-½ tks i kskd rRoka I s Hkjij gkusdsl kFk&I kFk] çrdy okroj. k rFk de bui/ esHkh cgrj mi; ksch gkrk gS %Arslan] 2017¹/A fromMk dks [k kjh; k ykdMk dsuke I shkh tkuk tkrk gA; g QI y I v[kk] vf/kd ueh] vR; f/kd rkieku; k BM I gu'khy gkus dh otg I sl v[kk; k ueh dh fLFkr esHkh cgrj mi t nus dh vuk\$kh vuqdyu {kerk %Lambein *et al*] 2019² j [ksh gA bl dsvykok] bl syo.kh; feeh vk\$ vU; çrdy&feeh I cdkr tyok; qfLFkr; kaeHkh tgg i kskd rRoka dh deh; k Hkhj /kkrq vfhkof) gkrh gS %Ahmed *et al*] 2014³ [ksh fd; k tk I drk gA fromMk dh [ksh ed; : i I sNÜkhI x<-e; çnsk] egkj"V¹ fcgkj] >kj [k.M vk\$ if'pe cakj] fo'k\$: i I s%jys QI y½ ds: i eafd tkrh gA nsk ds

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dN jkT; kaeafroMk dh [ksh çrdy/kr gkus dh otg I s bl dsmRi knu I cdkh I Vhd vkadM; mi yC/k ughagA nsk ea bl dh [ksh 0-5 fefy; u gSVs j ds {ks= eagkusdk vuqku g\$ ftI dk 75&80% dpy NÜkhI x<+eagA; g n\$kk x; k g\$fd ftu {ks=ks\$ jch QI ykadksfI pkbZ dh I fpo/kk çklr gpbZg\$ ogk fromMk dk {ks= ?kv jgk gsvk\$, I otg I srsth I s vkupd'kd {kj. k gksjgk gA bl çdkj] ; g, d çedk

forak dk fo'k; gS fd tks Hkh fromMk QI y ea fofo/krk miyC/k gS ml s l xgr dj l jf{kr djA jk"Vh; ikni vkuqf'kd l d k/ku C; jks %NBPGR%& ubZ fnYyh Hkjr; nygu vuq dku l LFku %IPR%& dkuig dk {ks=h; dSae Hkky vkS bñjk xkdkh —f'k fo' ofo | ky; %GAU%& jk; ij] vkuqf'kd l d k/kukadsl j {k.k vkS mPp mit dsl kFk de fo"ka %fuEu vkM% fdLeakd fodkl djusea; kl jr gA

fromMk NÜkh x<+dh cefk nyguh QI y gA vf/ kdre jch nyguh {ks= %352 fefy; u gDVj j½ dks doj djusoky jkT; vFkz jkT; eady jch nygu dk 44-34% %Ambade et al] 2015% gkrk gA bl dsgh&iÜkh o Qfy; ka dk l Cth ds: i eami; ks fd; k tkrk gA QI y dk Hkh k i 'k/kadsfy, vPNk vkgkj gA jkT; dsdjhc 3-50 yk[k gDVj j ea bl dh [krh gks jgh gA l kykuk djhc 212 ehVd Vu dk mRi knu gksjgk gA {ks=Qy dsfgl kc l s/kku dsckn l cl svf/kd jdk fromMk dk gA

fromMk %yFkbl %eavkuqf'kd l d k/ku xrfof/k; k

telykte dh lFkfr; ,uchi hthvkj] ubZ fnYyh us , d ukMy l xBu ds: i eafromMk dsLonkh vkS fonkh l xg dks Hkjr eaQI y l dkj dk; De eami; ks djusdsfy, l of/kz fd; k gA orëku ea 2563 telykte , dl sku l xgr gq gS tksfd nh?kdkfyd HkMkj.k dsrgr thudl eal jf{kr gA buds vykok] l fØ; l xg; , uchi hthvkj &{ks=h; LVSkuk] vkbz/kbZ hvkj &dkuij vkS vkbZthdoh &jk; ij %rkfydk 1½ eaga

fuEu vkM% fdLeakd fodkl

ikjafjd çtuu vkS tS çS] kSxdh ds ek;/ e l scMh l d; k ea fuEu vkM% miHkka dks fodl r fd; k x; k gA tS çS] kSxdh ds ifj.kkeLo: i] Hkjr eal kku; [krh ds fy, çtkr jru %BioL&212% dk foekpu fd; k x; k gA gkykd] cht&çxku dsfy, fuEu vkM% okyh fdLeakd forj.k NÜkh x<+ fcgkj vkS egkj"V" eafd; k tk jgk gS fQj Hkh u, ykka}kj LFkuh; fdLeakd mRi knu] cht&çxku vkS cht&çrLFki u dksçkFkfedr ij fy; k tkuk pkfg, | pfcd] fromMk ea vkMh, ih; kSxd fd ek=k vyx&vyx i fjLFkrh; ksefn[kkbZnrh gS var%bl n'kk eade vkMh, ih l kexh okyh çtkr dk fodkl djus ds fy, yxkrkj ç; kl gkus pkfg, A

Hkjr; nygu vuq dku l LFku & dkuig rFk bñjk xkdkh —f'k fo' ofo | ky; & jk; ij ds —f'k oSkfudks }kj fromMk ij 'k/kdk; Zfd; k tk jgk gS vkS bl dsfo"ks rRo %vkM% ½ dks de djusdsfy, yxkrkj ç; kl fd; k tk jgk gA bñjk xkdkh —f'k fo' ofo | ky; & jk; ij }kj fromMk dh nks ubZ fdLes egk fromMk vkS çrhk fodl r fd gS vkS mudk dk ; g dguk gS fd bl dsl ou l s'kjh dks dkbZ uql ku ughagrkr gA o"ka l s fromMk dh ikjafjd [krh dh ryuk e; ; snksfdLea LokLF; dsfy, gkfudkj d ugha gA oSkfudkads vuq kj] fromMk nky [kus l sydok gkrk gS ; g fl QZ , d xyr /kkj.kk gA /kku dsckn bl dh çgrj QI y jk; ij l fgr do/kkz fcykl ij] eayh] çerjkl uoki kj

rkydk 1% ofHku LFkka ij telykte lFkfr %Pandey et al] 1997%

l k %Source%	çOsk %Accessions%
cl dyd'ku , uchi hthvkj] ubZ fnYyh eacuk, j [kk x; k	2563
, uchi hthvkj] ubZ fnYyh l s; ks nku	58
, uchi hthvkj] ubZ fnYyh l s; ks nku	146
vkbZthdoh] jk; ij l s; ks nku	2021
vkbZ vkj vkbZ] ubZ fnYyh l s; ks nku	338
l fØ; l xg	
, uchi hthvkj] ubZ fnYyh	300
, uchi hthvkj] vdkyk	146
vkbZthdoh] jk; ij	2600
vkbZ/kbZ hvkj] dkuig	393



ç; kRed fromMk QI y

vkfn eayh tk jgh gA NÜkhl x<+dk fromMk u døy nšk ds vU; jkT; ka ea tkrk gš cfYd fons kka ea Hkh ekax gA

fromMk dheġ; çtkfr;k

fromMk dh çtkfr çrhđ 1999 eavkš egkfromMk 2008 es fodfl r fd; k xbz gA çrhđ ds i kšks 50&70 l ġehE mpkbz ds gkrs gA cht cMavkdij vkš Hkjk jax dk gkrk gš vkš r mit 1275 fdykške çfr gDVs j gkrh gA bl h rjg] egkfromMk ds i kšks l h/ks c<fsgš i Uks xgjs gjš xykch Qm vkš cht 8-0&9-0 xk-otu ds gkrs gA bl dh mit 1900 fdykške çfr gDVs j rd gA bl dk mRiknu e; e l s Hkjk dh dgkj Hkhe eagkrk gA

çfrçk dk dkj.k

vns kš gsfd fromMk eagkfudkj d i nkFZchV&, u v, fDI ykby 2&3 Mkbz feuks çkš vkšud vEý ¼/kMh, i h½ gkrk gš ft l s xfb; k jkx] fupysdej eaydok rFk XokbVj gk tkrsgA chV&, u v, fDI ykby 2&3 Mkbz feuks çkš vkšud vEý ; kšxd dh ek=k fHkUu gkrh gš tks thukš/kbi vkš okrkj.k ds vU/kkj ij cht ea 0-04 l s 1-6% rd dh fofHkUurk i k; h x; h gš ¼amburino *et al*] 2012½ vkš bl dk egROI wZew; 0-2% l s de gš ¼Abd El and Moneim *et al*] 2010½A frokMk ds mi; kš ea; g tgjhyk ; kšxd eġ; l hfer dkjd jgk gš ¼sharma *et al*] 2000½A —f'k fo'ok&fo | ky; dsoKkfudka dh ekus rks l rfyer ek=k ea fromMk dk l ou djus l sgkus okys jkx dksy d j dkbZ l k; ; l keusughavk; k gA egkfromMk dh ubz çtkfr fodfl r djus okys oKkfud uscrk; k fd ubz çtkfr çrhđ eagkfudkj d rRo dh ek=k ux.; egt 0-07 l s 0-08 çfr'kr gA

fromMk nky dk eġ; mi; kš

fromMk dk mi; kš vkerš ij nky o cđ u ds: i eafđ; k tkrk gA vuđ žkku l s; g çekf.kr gkspđk gsfd vkš/h, i h dh l cl sT; knk ek=k fromMk cht dsH: .k ea i kbz tkrh gA nky cukus l sH: .k vkš fNydk vyx gk tks ij 43-0 çfr'kr rd gkfudkj d rRo dh ek=k de gk tkrh gA nky i dkus ds i wZBMs i kuh ea fHkxkdj] vkš/kš?kš/sdsfy, j [k na vkš i dkus ds i gys i kuh dks fuFkjjus l sgkfudkj d rRo de gk tkrk gA NÜkhl x<f' e; ; çns k] egkj k'V] fcgkj vkš i f'pe cakky jkT; ka ds vf/kd {kš=ka ea fromMk dh Ql y] fd l ku i k j ā fjd : i l smxkrsvk jgsgA bl l schekjh gkus ds dkbZ l k; ; ughagA vuđ žkku dsek; e l sfodfl r nkska ubz çtkfr; ka cgrj i šnkj ds l kFk çkš/hu ; ġa Hkh gA

fromMk ds i kš k] i kš d rRo vkš vkš/h; xqk

fromMk dbZ mš; ka dh i firZdj l drk gš tš sdf ; g i 'kq vkgkj] pkjk rFk ekuo Hkstu ds: i ea ġ; ġa gkrk gA bl es çkš/hu dh ek=k cht vkš i fji Do i fUk; ka ea Øe'k% 18&34 çfr'kr vkš 17 çfr'kr i k; h tkrh gA fromMk cht çkš/hu; , Ycfell ¼4 çfr'kr ¼ vkš; ġyu ¼66 çfr'kr ¼ XyWsykbu ¼15 çfr'kr ¼ vkš çksyfeu ¼5 çfr'kr ¼ l scuk gkrk gA tcfđ fromMk l si 'kqpkjk; vkerš ij i h l k gkrk ; k nky vukt ; k vkš l scuk gkrk gš vkš eġ; : i l s Lruiku djus okys eof'k; ka ; k vU; fcuk nMk nus okys tkuo jka dks f[kykus ds fy, mi; kš fd; k tkrk gš ekuo vkgkj ea fromMk dks vukt ds: i ea 'k kfey fd; k tkrk gš tks mcyk gkrk gš vkš fQj ; k rks i jh rjg l s [k; k tkrk gš; k fofHkft r nky dsfy, ġ l d fjr fd; k tkrk gA bl ds vykok] fromMk ekuo mi Hkšx ds fy, vR; f/kd mi ; ġa gD; kšd QSh, fl M dk 58 çfr'kr i , yhvul pšV/M gkrk gA bl es i kš d rRo&l ?ku] [k | /vkgkj Ql y gš q mi ; ġa vkš bl dh [krh dsfy, U; ure bui / vko'; drkvka ds l kFk] mPp l ġk&l fg". kqk ds: i eġ fromMk dbZ de&vk; okys l epk; ka dks Hkstu vkš i kš k l ġ {k çnku djrk gA U; WRL; fVdy ds: i eġ fromMk , d l Hkfor bdk; kšd Hkstu b dk , d mR—"V mnkgj.k gA , feuks, fl M L-homoarginine ān; jkx mi pkj vkš gkbi kšDI ; k ds i j. kkeka i j dkcw i kuseġ vFkZr] Ārd Lrj i j vi; kš v, DI ht u dh vki fir] dš j ds fodkl l s tš/h dk; kš ea ykHk çnku djrk gA bl çdkj] FkšMh ek=k ea fromMk ds ek; e l s , y&gkš tšuu dk nšud vkgkj l ou djuk ekuo LokLF; dsfy, eW; oku gk l drk gš vkš vkšs ds v; ; u dsfy, ; kš; gA

çtkfr l ġk dsfy, vuđ žkku

fromMk es mi; ġa çtuu uhr; ka dk ġ; kš dj] l kkl; Ql y l ġk dsfy, dbZ ruko&l fg". kq thu ds l kš ds : i ea ġ; kš djus dh l Hkkouk gA mnkgj.k ds fy,] okNuh; fQukš/kbi ds l kFk] nkrk telykTe dk mi; kš ubz çtuu l kexh cukus dsfy, fd; k tk l drk gš vkš mi yC/k thukšed mi dj. kka ¼QkLV Qj oMZ chfMac ¼ dk çtuu çfØ; k dks rst djus dsfy, ykxwfd; k tk l drk gA gkykšd] vU; nyguh Ql yka dh rgyuk eġ fromMk ds thukšed l ā k/ku vHkh Hkh mi yC/k ughagš D; kšd bl dh cMh tfVy ¼8-2&tch½ thuke gA bl fy,] vkt rd] Ql y ds vkuoġ'kd l ġk dsfy, cgr l hfer 'kš k ġ; kl

fd, x, gā froml̥k esf}xq̄.kr xq̄kl ʱ dh l̥ d; k 2n³/414
gksh gā bl dsvykokl bl dh cgr̥ /kheh̥ ʧtuu ʧf̥; k Hkh
gksh gā , d k l̥ Hkor%vkupā'kd ifjor̥l̥kad̥h , d cgr̥ gh
l̥ ad̥h.kz l̥ hek̄l̥ cgd̄kk&ijx.k vls̄ v̄rj&vl̥ xrrk dsdk̄j.k
gksh gkshA vkupā'kd dVko ea of) bl dh vkupā'kd
fofo/krk dkscuk, j[kusdsfy, , d p̄uksh̄ išk̄ djrh̄ gā
tks l̥ Hkh išk̄kaeal̄ d̄kk̄j dsfy, vk/kk̄j ʧnku djrh̄ gā bu
l̄ c dsckĀt̄p̄ Hkh froml̥k esvud̄ d̄kk̄u dh ʧf̥; k̄l̄ Hkk̄jrh;
nygu vud̄ d̄kk̄u l̄ l̄Fkk̄u&dkuij̄] , uchiht̄hv̄kj̄ ubZfnYyh
rFkk̄ b̄n̄jk̄ xk̄dk̄h —f"̄k̄ fo'of̄o|ky; & jk; ij̄ esyxkr̄kj̄
ʧ; k̄l̄ py jgk̄ gSv̄k̄j̄ vkusokysfnukā escgr̄j̄ ʧtkfr̄; kā
dk̄ fodk̄l̄ gkus dh l̄ Hkk̄ouk̄ gā

I aHkZ

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