



ok'le ftYg; krhy eRL; o; ol k;

vfuy dekj jkBkM

Lkg; kxh i k; ki d, Jherh. y{ehckbz jk/kfd"ku rks. khoy dklyst vklD dklyz

vdkyk, egkj k'Vz

Lkjlk %

txHkjkr Aquarium ¼typj½ o ltkoVhl kBh ekl k; lpk cktlj egRoiwk glsk o lkrR; kus ok< r vkgz- ; k cktkjkr ; skjs ekl s nkjh izdkjkr. Wild and captive stocks. vud Lvld Ze/; s ikGlo thohr ek' k; k foHkx gk fo' ksk egRoiwk o Qk; n' kij foHkx vlgz Coupled within the sale of live fish, there is a market for aquaria, aquarium supplies and of course, fish food and medicine. toGikl 10 feyh; u ltkoVhl kBh [W; kik.; krhy ekl s lawl txHkjkr o" kij egRokps Bjrk- txHkjkr xM; k ik.; krhy 10k o" kij lps iek.k tklr vlgz o ; k izdkjkr 5000 g; vf/kd iztkrh vkgzGrkr- ltkoVhl kBh ykx. W; k ek' kpk cktlj o " kfor typj] ltkoVhps ryko½ eV; toGikl US\$3 billion vlgz

Hkjkrhy ekl ekjh [k eloxs vlrk ljk ns kpk; k ok" kdl mRiknu l toGikl 10 djM #i; lps; kcnku nss iffkuj thou! Ros o {kj} [kut nØ; ; lps ek' kke/; s vf/kd vI Y; kus gs egRoiwk ve Bjrk- Hkjkrkr vf/kdlak Hkoxkr ekl k gk vkgjkrhy egRoiwk ?Vd vlgz Eg. k eRL; mRiknu ok< fo. ls gk ykdkpk vkgjkr l kij. k iSkhdruk vkl. k; lps; k -" Vus Qkj egRokps vlgz

iTrkouk

Lokra; iTrhikl up fo' kkr% egkj k'Vkr jkT; fufezhurj vud iVcalkjs ryko cdkys tkÅ yloxs l /; k egkj k'Vkr iVcalkjs foHkxkps l ejks 1]800 tyk'k; vI R; kps l jkl jh ty{ls toG&toG vMhp y{k gDvJ vlgz ; kish cjp tyk'k; MkjG Hkoxkr vI Y; keps 'ksp; k Qkj l s dkeh vlgz ulghr- ek' eRL; 'krhyk Qkj elBs {ls fuelzk >kys ; k f'kak; vud tyk'k; lps cdkalke pkyw vI eRL; 'krhdifjrk {ls foiny iek.kr ok< vlgz o ok< vlgz

; k cnyyY; k ifjflEkrhegs ; k 0; ol k; lps gakeh lo#i cnyyY ekl ekjh o" khy cgjrs dkG ekl ekjh dj. k 'ID; >kys vlgz gs {ls , o<; k elB; k iek.kr ok< vlgz dh ekl ekjh; frfjDr brj ykdkukgh gk uohu 0; ol k; mi yC/k >kyk vlgz MkjG Hkoxkrhy tyk'k; lpk dkBh ekl ekjh cLrh ulghr- f'kak; unhdikBP; k ekl ekjh xkorGh] Nks iVcalkjs ryko ekl ekjh kBh feGr vI Y; keps rs njojP; k elB; k tyk'k; kdkMs fo' ksk y{k nA 'kdr ulghr- ifj. kkh brj 0; ol k; krhy ykd] Hkoxkr 'krdjhj 'kretijj cdkj xkeh. k r#. k; k l olnk tyk'k; krhy ekl ekjh gk uohu 0; ol k; feGkyk- dks uk f'kak lkj tyk'k; kr l ejks 200 t.k ekl ekjh djrkr- R; kish l ejks 150 'kretijj vlgz- ; synjh tyk'k; kr l ejks 400 t.k ekl ekjh djrkr- Kks oj l kxj 1eGkM nki pljh 1Bk. k; khy tyk'k; kr

ekl ekjh dj.kjs l ožt.k vknokl h vkg- ulFkl bxj tyk'k; kr ekl ekjh dj.kj; kifh 60 ifr'kr ykl vknokl h fdøk 'kretij vkg- FkMD; kr uohu fuelz k >ky'; k tyk'k; keGs xteh.k Hkoxkrhy ekl ekjh vkl.k brjkukgh 0; ol k; kps l k/ku feGlys vkg

MkjG Hkoxkrhy tyk'k; k fdulU; ko#u ek'kph l Mds; k okgrnd dj.kj okgrphl kBh ylk.kj; k VkiY; k cufo.kj tkGh fo.kj ekl Gphf foØh; k vuq kwd 0; ol k; kr gh vfl/kdk/kd ykluk jkstxkj feGr vkg

ok'ke ftYg; krhy eRL; 0; ol k;

ok'ke ftYg; ke/; s ok'ke] ekyxlo] fjlW] dkjtk] ex: Gihj o ekuljk ; k rkyD; kpk l ekosk vkg prfil žek mjkjyk vdkyk ftYgk o ijkj vejkoh ftYgk o ; orekG ftYgk vlu nf(k.kj ijHk.lh ftYgk vkg rj if'ped cy<k.kk ftYgk vkg ftYg; kps, dñk {kQG 5-156 pkl fdykHj vlu ftYg; kr izkkl dh; eRL; 0; ol k; kI kBh l gk rkyD; kpk l ekosk vkg ftYg; krhy ikol kph l jkl jh 750 rs 1000 fe- vkg ftYg; krhy okg.kj; k ie[k un; k vMk.kj i&xak bR; knh vlu R; kph ftYg; krhy ,dñk ykch 315 fd- feVj ,0<h vkg ftYg; krhy 76 ePNelj l kps 3037 l Hkkln vkg- ftYg; kr 1 eRL; 0; ol k; l galjh l kpk l k dk; Jr vkg ftYg; krhy miyck ty{skpk ri'ky [kyhy iek.lk vkg

rkydk Ø- 1-1 %ok'ke ftYg; krhy tylank

v-Ø-	Ryko	Lk[; k	Tky{ks gDVj
1-	gækeh ryko	199	1047 gDVj
2-	dkjelgh ryko	107	4174 gDVj
	,dñk	306	5221 gDVj

rkydk Ø- 1-2 %ok'ke ftYg; krhy rykolkpk rif'ky 1/ty{ksud kj½

v-Ø-	Ryko	Lk[; k	Tky{ks gDVj
1-	0&20 gDVj	240	1285 gDVj
2-	21&60 gDVj	56	1967 gDVj
3-	61&200 gDVj	08	967 gDVj
4-	201&1300 gDVj	02	1002 gDVj
	,dñk	306	5221 gDVj

ojhy rkydk Ø- 1-2 e/; s ok'ke ftYg; krhy rykolkpk R; k {kQGkud kj dyY; k oxhbj.kpk vkkok itrg dyyk vkg ,dñjhr 20 gDVjg deh {kQG vly'; k rykolkph l f; k elB; k rykola{lk egRoiwMjR; k vfl/kd vly; kps vkg

rkydk Ø- 1-3 %ol'ke ftYg; krhy Ekydlfugk; rykolpk ri'hy

v-Ø-	Ryko	Lk;k	Tky{ks gDVj
1-	iKcdkjjs ryko	78	4095 gDVj
2-	ftYgk ifj" kn	170	972 gDVj
3-	Xke ipk; r	24	63 gDVj
4-	Uxj ifj"kn	03	03 gDVj
5-	Lkuhd Lrj o brj	30	88 gDVj
	,dwk	306	5221 gDVj

Ol'jy Rkydk Ø- 1-3 e;/s ol'ke ftYg; krhy rykolpk ekydlfugk; ri'hy iLrp dysyk vlags ol'ke ftYgk ifj"knB; k ekydlP; k rykolph lq; k brj lRukla qk y{k.k; fJR; k vf/kd vIY; kps vLGrS

rkydk Ø- 1-4 %ol'ke ftYg; krhy tyfogkj

1997&98 rs 2008&09

o"	,dwk tyfogkj 1gDVj½	rykolph lk;k					
		gakleh ryko		ckjelgh ryko		,dwk	
		lk;k	ty{ks 1gDVj½	lk;k	ty{ks 1gDVj½	lk;k	ty{ks 1gDVj½
1997&1998	4942	103	1585	94	3357	179	4942
1998&1999	4942	103	1585	94	3357	179	4942
1999&2000	4942	103	1585	94	3357	179	4942
2000&2001	5074	103	1585	97	3489	200	5074
2001&2002	5395	103	1585	106	3810	209	5395
2002&2003	5395	103	1585	106	3810	209	5395
2003&2004	5000	103	1585	106	3810	209	5395

2004&2005	4843	199	1047	101	3806	300	4853
2005&2006	5221	199	1047	107	4174	306	5221
2006&2007	5221	199	1047	107	4174	306	5221
2007&2008	4075	199	1047	107	4174	306	5221
2008&2009	5512	199	1047	107	4174	306	5221

L=kr % ftYgk eRL; fodkl vf/kdkjh] olf' ke

olf' ke ftYg; krhy ,dwk tyfogkj {& 1997&98 rs 1998&99 e/; s 4942 gDVj tyfogkj {& vI Y; kps y{kr ; ss Lu 2000&01 rs 2003&04 i; t ps tyfogkj {& 5074 rs 5000 gDVj vI sfnl u ; ss 2004&05 rs 2008&09 i; t ps 4843 gs & rs 5512 gs tyfogkj {& vI Y; kps Li"V gtrs ,dwk v/; u dkgkr 1998&2009 i; t ,dwk tyfogkj {& ; krhy Qjd y{kr; uI Y; kps fun' kdkl ; ss

ftYg; krhy gakeh rykolph I{; k 1997&98 o 2003&04 i; t 103 vI R; kps ty{& 1585 gs vI Y; kps v/; ukr v{kGm ; ss 1997&98 rs 2003&04 i; t ftYg; krhy gakeh rykolph I{; k o ty{& kr Qjd v{kGm ; s ulgh- Lu 2004&05 rs 2008&09 i; t gakeh rykolph I{; k 199 vI R; kps ,dwk {& 1047 gs vI sfnl u ; ss 2004&05 rs 2008&09 i; t gakeh rykolph I{; k ok{& ty{& deh >Y; kps fnl u ; ss

R; kpi ek.ks ckjelgh ryko g; kph I{; k 1997&98 rs 1999&2000 i; t 94 vI R; kps {& 3357 gs vI Y; kps v{kGm ; ss Lu 2001&02 rs 2003&04 i; t rykolph I{; k 106 vI R; kps {& 3810 gs vI Y; kps v{kGm ; ss 2004&05 e/; s rykolph I{; k 106 vI ty{& 3806 v{kgs 2005&06 rs 2008&09 i; t rykolph I{; k ok{& 107 >Y; kph fnl u ; ss rj R; kps {& QG 4174 gs vI sv/; ukl ; ss

ftYg; krhy gakeh o ckjelgh rykolph ,dwk I{; k 1997&98 o 1999&2000 e/; s 179 vI R; kps ,dqk ty{& 4942 gs vI Y; kps fnl rs 2000&01 e/; s rykolph I{; k ok{& 200 >kyh o R; kps ty{& 5074 vI Y; kps v{kGm v{kys rs 2001&02 rs 2003&04 i; t g; k rykolph I{; k 209 o R; kps {& QG 5395 gs >Y; kps v{kGm ; ss 2004&05 rs 2008&09 e/; s rykolph I{; k 306 vI R; kps {& QG 5221 gs vI sfun' kdkl ; ss

; k gakeh o ckjelgh ryko g; k ,dwk rykolph; k I{; s o {& QGkr fHkjurk vI R; krhy Qjd egRoiwz uI Y; kps fun' kdkl ; ss

rkYdk Ø- 1-5 % olf'ke ftYg; krhy eRL; Igdkjh I tFk

1997&98 rs 2008&09

o'k	eRL; Igdkjh I tFk I {; k	eRL; 0; kol kf; dkph ykd I {; k	ftYgk eRL; Igdkjh I tFk I Hkkln I {; k
1997&1998	49	14366	1837
1998&1999	49	14366	1837
1999&2000	49	21549	1837
2000&2001	50	23489	2000
2001&2002	52	25406	2250
2002&2003	52	25406	2127
2003&2004	62	25406	3081
2004&2005	67	25406	2697
2005&2006	67	25406	3012
2006&2007	66	25406	3037
2007&2008	76	25406	3125
2008&2009	76	25406	3037

L=kr % ftYgk eRL; fodkl v{f/kdkjhj] olf'ke

olf'ke ftYg; krhy eRL; Igdkjh I tFkph I {; k 1997&98 rs 1999 &2000 i; r eRL; Igdkjh I tFkph I {; k 49 v{kGu ; ss I u 2000&01 e;/s R; kr , dk I tFkph ok< gksu Igdkjh I tFkph I {; k 50 >W; kps v{kGu ; ss 2001&02 rs 2002&03 i; r Igdkjh I tFkph I {; k 52 fnl u ; ss I u 2003&04 rs 2008&09 i; r eRL; Igdkjh I tFkph I {; k 52 rs 76 >W; kps v{kGu ; ss ftYg; krhy I awkZv/; u dkGkrhy eRL; Igdkjh I tFkph I {; k; krhy Qjd egRoikZvI Y; kps fun'kukl ; ss

olf'ke ftYg; krhy eRL; 0; kol kf; dkph ykd I {; k 1997&98 rs 1998&99 e;/s 14366 vI Y; kps fnl u ; ss 1999&2000 rs 2001&02 e/ky ykd I {; k 21549 rs 23489 v'k v{kGu ; ss rlp 2002&03 rs 2008&09 i; r eRL; 0; kol kf; dkph I {; k 25409 brdh vI u ; k I {; s dkghgh Qjd >kyyk ul u , dwk v/; u dkGkr eRL; 0; kol kf; dkph ykd I {; s y{k.k; Qjd ukgh vI sfun'kukl ; ss

olf'ke ftYg; krhy ftYgk eRL; Igdkjh I tFkph I Hkkln I {; k 1997&98 rs 1999&2000 i; r I Hkklnph I {; k 1837 brdh v/; ukl ; ss I u 2002&03 rs 2008&09 i; r eRL; Igdkjh I tFkph I Hkkln I {; k 2127 rs 3037 i; r ok< >W; kph fun'kukl ; ss ; k I awkZv/; u dkGkrhy I Hkklnph; k I {; s Qjd rQkor ul u ; W; krhy Qjd y{k.k; ukgh vI sfun'kukl ; ss

rifydk Ø- 1-6 %ok'ke ftYg;krhy eRL;ftjsmRiknu] eRL;cht

I p;u] eRL;Riknu 1997&98 rs 2008&09

o'k	eL;ftjsmRiknu 1y[k[kr]	eRL;cht I p;u 1y[k[kr]	eRL;Riknu 1e- Vu½
1997&1998	292	76-50	3190
1998&1999	298	76-51	3196
1999&2000	421	107	3343
2000&2001	372	82	1110
2001&2002	301	103	1690
2002&2003	521	101	2000
2003&2004	488	146-8	1955
2004&2005	399	162-17	2698
2005&2006	511	184-6	3026
2006&2007	337	181	2981
2007&2008	181	181	2700
2008&2009	349	170	2700

L=kr % ftYgk eRL; fodkl vfkdkjh] ok'ke

ok'ke ftYg;krhy eRL;ftjsmRiknu 1997&98 rs 1998&99 i; r 292 o 298 yk[k vk<Gu vlys 1999&2000 e/; s eRL;ftjsmRiknu 421 yk[k brds>kys 2001&02 rs 2008&03 e/; s eRL;ftjsmRiknu 301 rs 349 yk[k >ky; kps fun'kukl ; ss 2002&03 e/; s eRL;ftjsmRiknu l ok/kd vI u 521 yk[k brds mRiknu >ky; kps vk<Gu ; ss R; kpiet.k s l ok/kd deh eRL; mRiknu l u 2007&08 e/ky vI u rs 181 yk[k vI Y; kps vI/; u k ukl ; ss k vI/; u dkGkr eRL;ftjsmRiknu vfr'k; rQkor vI u ; R; krhy Qjd y{k.kh; vI Y; kps fun'kukl ; ss

ok'ke ftYg;krhy eRL; l ok/kd eRL;cht I p;u 1997&98 o 1998&99 e/; s 76-60 o 76-51 yk[k vI u 1999&2000 e/; s 107 yk[k vk<Gu vlys 2000&01 rs 2001&02 i; r 82 rs 103 yk[k eRL;cht I p;u >kyys vI Y; kps vk<Gu ; ss 2002&03 rs 2008&09 e/ky eRL;cht I p;u 101 rs 170 yk[k ; R; k njE; ku vk<Gu ; ss k ekgrhrn vI s y{kkr ; ss dh] l ok/kd eRL;cht I p;u 2006&07 o 2007&08 e/ky vI u rs 181 yk[k vI Y; kps vI/; u k ukl ; ss k vI/; u dkGkrhy eRL;cht I p;u k ukr njo"R;ok>kysh vI u R; R; krhy Qjd y{k.kh; vkg vI s fun'kukl ; ss

ok'ke ftYg;krhy eRL;Riknu 1997&98 o 1999&2000 e/; s 3196 rs 3343 esVu- eRL;Riknu >ky; kps fnl u ; ss 2000&01 rs 2008&09 i; r eRL;Riknu 1110 esVu- rs 2700 esVu- vk<Gu ; ss eRL;lgdkjh l ok/kd p k l u 1999&2000 e/; s

vf/kd eRL; krnu >ks vI u rs 3343 esVu brdsfnl u ;ss olf'ke ftYg; krhy eRL; krnu ;k l q; rhy Qjd y{k.kh; vI Y; kps v/; ukl ;ss

rkydk Ø- 1-7 %olf'ke ftYg;krhy eRL I o/kd fodkl ;a.kk rDrk

1997&98 rs 2008&09

o'k	fodfl r ty{ls 1gDVj½	rGh ckldkde 1gDVj½	if'k(k.krnu l [;k	eRL; krnu ¼- Vu½	,dkw ;ktuk rjrm ¼k[kr½
1997&1998	47-5	5-5	21	83-02	10-40
1998&1999	47-5	5-5	28	83-07	10-70
1999&2000	68	11	30	45	3-52
2000&2001	60	6-8	9	72-4	3-52
2001&2002	60	3-2	2	39-5	2-82
2002&2003	63-24	20	15	42-5	3-71
2003&2004	58-12	20	25	52-75	4-802
2004&2005	52-7	7-11	21	50-81	2-015
2005&2006	56	19	9	89-8	7-18
2006&2007	87-25	5-7	90	50	4
2007&2008	80	3	20	45	3-94
2008&2009	72	0-8	50	42-1	5-33

L=kr % ftYgk eRL; fodkl vf/kd k jhj olf'ke

olf'ke ftYg; krhy eRL; I o/kd fodkl ;a.kk 1997&98 e/s 47-5 gs fodfl r ty{ls vI Y; kps vI G u ;ss 1999&2000 rs 2001&02 e/khy fodfl r ty{ls 68 gs rs 60 gs brds v/; ukl ;ss 2002&03 e/s 63-24 gs {ls fodfl r >Y; kps y{kkr ;ss R; kpiek ls 2008&09 i; t 72 gs ty{ls fodfl r >Y; kps vI Gys vI u 2006&07 e/khy vf/kd ty{ls fodfl r >Y; kps v/; ukl ;ss gs fodfl r ty{ls 87-25 yk[k vI Y; kps fnl u ;ss ;k l oZ fodfl r ty{ls krhy Qjd egRoimk vI Y; kps fun' kdkl ;ss

eRL; I o/kd fodkl ;a.kk 2002&03 o 2003&04 e/s l oZ/kd rGh ckldkde vI u rs 20 gs brds vI G u ;ss rI p l oZ deh rGh ckldkde 2008&09 e/s vI u rs 0-8 gs brds vI G u ;ss ;k v/; u dkGkr ,dkw rGh ckldkde ;krhy Qjd y{k.kh; vI Y; kps y{kkr ;ss

I u 2001&02 e/; s eRL; I o/kd fodkl ; &.kr if'k(k.WFph l[; k l olr deh vIu QDr 2 brdh fnl ; ss rj 2006&07 i;[; k l[; s yfk.kh; ok>kyyh vIu rh 90 brdh v/; ukl ; ss ljkokrhk 1998&99 e/; s 28 if'k(k.WFph vIY; kps rj I u 2009 e/; s 50 if'k(k.WFph vIY; kps vIkGu ; ss olf'ke ftYg; krhy ; k if'k(k.WFph; k l[; shy Qjd egRoiwlz vIY; kpsfun'lkkl ; ss

eRL; I o/kd fodkl ; &.krhy eRL; Riknu 1997&98 e/; s 83-02 esVu- o 1998&99 e/; s 83-07 esVu vf/kd vIY; kps yfkkr ; ss I u 1999&2000 rs 2008&09 i;[; 45 esVu- rs 42-1 es Vu brds eRL; Riknu vIY; kps fnl ; ss njE; ku I u 2003&04 rs 2004&05 e/; s 52-75 esVu eRL; Riknu vIY; kpsfun'lkkl ; ss

; k v/; ; ukr vls y{kr ; ss dh] olf'ke ftYg; kr eRL; I o/kd fodkl ; &.kk jkcf0.; kr ; s vIu R; & krhy Qjd Qkj egRoiwlz vkgsvls n"Vhl ; ss

olf'ke ftYg; krhy eRL; I galkjh lFph ,dwk ; ktuk rjrm 1997&98 e/; s 10-40 yk[k vlags rlp 1999&2000 rs 2008&09 i;[; gh rjrm 3-52 yk[k 5-33 yk[k v'kh vIkGu vkyh- ; k l awl o"krhy rjrmhr I u 1998&99 e/; s vf/kd ; ktuk rjrm vIY; kps v/; ; ukl ; ss R; kpi ek.ls ; k IR; d o"krhy ; ktuk; k rjrmhr Qkj rQkor vIu R; & k l[; shy Qjd yfk.kh; vIY; kpsfun'lkkl ; ss

fu"dk ph

olf'ke ftYg; krhy ,dakjhr 47-2 çfr'kr eRL; 0; ol kf; dkæk.ls ' kkl ukdmu eRL; 0; ol k; kdfjrk ; ktuk jkcf0Y; k tkrkr ; kph elgrhr ulgh olf'ke ftYg; krhy eRL; 0; ol kf; d eRL; fo0h djrkak ; s k; k l el; kps fooj.kru vls vIkGu ; ss eRL; 0; ol k; krhy ; s k; k vu d vMp.khi dh vfkd xkokr eRL; l auk ul Y; kph egRoiwlz vMp.k vIY; kps yfkkr ; ss rlp eRL; ikyu dj.ku; k cgrlak (77.1%) 0; ol kf; dkpk foek ul Y; kps vIkGrs olf'ke ftYg; krhy eRL; 0; ol kf; dkpk cfr'kr o.kru cgrlak (76 çfr'kr) eRL; 0; ol kf; dkps?kj dpPs vIY; kps vIkGu ; ss

olf'ke ftYg; krhy eRL; 0; ol kf; dkak eRL; 0; ol k; kdfjrk dkfkrhy l nL; kph enr o R; kikl gkskjh vfkfkd enr ; & krhy l k[; dh; fo'ys' k.krhy Qjd egRoiwlz (P<0.05) vIY; kps fnl ; ss vf/kdlak (68.8 çfr'kr) 0; ol kf; dkak eRL; 0; ol k; kdfjrk dkfkc; kdmu ir; {kjR; k enr gks vIY; kps vIkGrs

I aHxdk ph

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3. Gadgil M. and R. Guha. 1992. This Fissured Land : An Ecological History of India. Berkeley: University of California Press. Pp xiv, 274
4. dGJSB , I - M% eRL; ,o eRL dh 1aks Hmk% 81-85-771-99-5 ,chl h iCylhdsku] uVjkt uxj] beyh QWd] t; ij jktLFku-
5. vdky ftYg; krhy eRL; 0; ol kf, vfuy dkj jkBIM (Indian Streams Research Journal)