THESM


## Nesis ON <br> 

BY J.A.EI210tこ.
ricisam $\Lambda$ sricultural Coliere, 1897.

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THESIS
$\rangle$

- A Comarative Test of Cortain Est prourvatives.

It sometians aryous to the discourased farmer of today as if in adift in to all his othor trouibles, tio hamufacturors \#ere sur: lanting; $\therefore$ Im in surplying the rublic with the roductions of his farme we havo artificial butter,sur lanting; tio doicestic outier; cottoline surrlanting ins lard and tallow; and if what runor says is true, too ofton te flesin of mules and horses is sold in larfe cities in cometition uith his steers and rifs. But there is one fam rroduct which nas so far daffled the infenuity of tho manufacturer. He camot make artificial efrs, ainc as effos are an ariicle of almost universal consumetion, tis is a very mportant consicirration.

Alasi every Barime ands it rofitaile to keor mose or less poultry. The c;ses suly his failily vith a doligititul article or food and may become way with stillerulamarrement the source or considorable rovenur :hrousiont the year. But it usimaly harrens that the nens rocince their esfs most abumantly durinfi, tio smmer mentro ana very srarsely in the pinter. is a consequence the rrico of efss fluctuates froatly and tio difference in tiis rriou raid in sumar and winter makos it rofjetaje to :ack tho efss or reserve then Erom three to six months.
 that the eresh article does. Tho difeerenco in reice detween lined effes and frosh ones is usually 10 to acco. It becoines a matier of rolicy to use freat care in tie preservation of the efers, so tiat thoy will pass
for frest. \#ith a view of hakins a comarativo test of efs reservatives
 we:e all lort in toc yickic aiout an equal lenftion tine (throe montros) At the end of this tine they were examined as lined uss us ally are comercializy for tho arrearance and texture of the sheli and aliondenand, the sampor the yolk, axi The eggs more also examined for any offensive si.ell or tasto caused dy the reservins.

Iot " $=1$. Packed Fed. IS, in iry salt alone. They wore exanind ay thin. The effe float in a salt irine solution in winch fresh eses sint. The odor and taste is rloasant. The arcorance of the shell is food, b $t$ it is somemat thin. Two osfs o: the six rattle when shaken. This presorvative zas satisfactory, on tion whole, still no one could bo deceived into thimeines then fresh.
 shell with yaracrin.

This l t was oxamined ray loth. The outsja of the shell is food and the esfe do not rattle nor sink in the brine solution. but all or tie efgs, save one, are musty and stinkinf. They wore wolly unfit ror use.
 drorajne 20 second into boiline wator. Fxamined "ay loth. The coamulated rortion $\Gamma$ the effe clises to the sholl. Thoy float in tho salt brino. Tho wemorane enclosing the alwhen and yolk sen to have from somowat thicker and toughor. "itio tiuse exoentions the esss mere satispactory.

Iot $"_{s}$. Packod Fingloti.
Fbes rut ciom in a rickle contaming:- 7oo rorts or water, do rarts salt, 30 yarts line, and 5 rarts salicylic acia.
 tion. The shell has a shiny, suooth ar"baranco so oman to linea offs. Tho white is a irffle too thin; tho yolk somemhat ilat. Still, on tiae wholo, the sample is fairly satjsfactory.
 I could notice no dificere ce in the ers.

Lots (sifted) ana : ood ascies,resreetivoly. These sion samies were examinud oay llti.
 float moarly one-third out of the salt wrine solution. one air srace is is considuraily enlarged; otherwisc the interior of tre effe is very well rrosurved. I noticod afiain in this sampern tro mesura:de wero much tinckenod and toughoned.

Iot "ce. To all ar. barance, exactly fike "E.
 Pxanised aay loth. Ferss woutifully resorvod, exce that the sholl is extreaely tion. It las boen reduced in thicomess aiout 30, but the liwe does not discolor the shell or frive it the limy aymearance.

Iot
Tho eas hong suspended in the salt orime solution. winio tie sholl
is tian, thoy aro not aisoolorod or liay lookins. The wite and the yolk awe of a food consistoncy ma enor Tho rusorvative, a tho iolo, ":as satisractory.

"n rut down in 10 rarts of wator, 1 ?art sali, l rart jine, anci 1/10 a i cruan tortar.
 crean tartar.
 rlaco or croan tarmar. Those tirse samles wore all exaninod :ay 13 The sholls all fool suo th and look liny and shioy. They all sink, like froch oss in tie vrine solution. Where is no ar, rociaide differede betwoon sam, 1 :s $\because, 10$, and 11 . The albumen in cach case is mich thiner than in Eresi efsis, but thero is not inoufh differonco in the sampes to detornine anythins; avout the oomarative virtuo on Crean Tartar, Iodine, or zoracic acid as reservativos. I bolleve that the salt and line have rar hore to do witil the reserv ing than doos the socalled reservative. The egrs do not hove a limy tasio as it is clained that erss ie. t in a limo solution are lisely to acquire.

Lot "llj. Pacrod :aron 3. Put dom in ló", solution of bloaciinf; powdor. Fxamined …ay loth. Ffresiocll very shooti and liny arroarinf. Fefs vory woll rrosorvid. Tho exfo smell and tasto of Daily.

Iot "ls. packed narch loth. 3 storilo erfs anci 3 fortile nos wore rut down in the sase solution as:"3.

Exaimod nay loth. ooth sam les mero vory moll reserved. I conla notico no difference betwom tren wiotever.
 egrs. Fxaminud liay loth.

 volk of tue or, sums about nornal, but tio wito soms matery and proasy. There was on?y one osf; in te lot but had a disafrooablo oror an tasto. iy exporionco with this samy mould not encourafo me to try to koor oilad ogrs.
 The shells a not look quito risht. pho ofss float in the solution

 onts are pairly food.

 rad sonewhere that mats have wem roserva this ror, wut it wil] not word satiscactorily with eses.
 Iot:"

Werc woifind careruly with a view of detumininf; how much efrs lose by evar oration. The weifints are fiven bolow:-


Side Is ues. - It has bow said that meserved ofss have to be used u-
as som as they are thjon out of rickle. As a: oxporiment $I$ took soue of

 cays, I oxamined thon aid pound that while the fins ofos nad a farently underfone no chango, the zeservod osts has ios, to soil., the witos
 that the rrusorvod erss do not keor as well as fresh eras.

I exanjned tion efses to soo about tho penetrawility of the saell to
 colored with analine procn. I exaijned on eff evory two mons arterwaris but I nevor detectos the loast trace of color inside oi the shell.
 cloricie sulution (1-1000). I exansmed ono osf; :aren stri, but pomin no
 I exnaned the thire bis and by joens of the bichrowate of rotash test and tae rotassiun iodide raction, I rome traves of thomorcum to ae rrosent in very soull amount.

## co:clusions.

 montin, oonsiaurine, the nsual diferonco in oricu betweon tho suaner, the rall, ani tiw inior markets.
ar. I romd notrizp more satispactory, consjacring the tromble of racking than comon salt.

3d. Fess ereserved are not so "r,odas fresi bres", as those who have esp-rreservaives por sale moulá have us woliovo. Also they cat wo
vasily detectod, as all ous jert in solution are alnost suro in some may to be discolorwa and if bot in tho dry way, so mon mojstmo jas abstractea that thoy may an dotertod in that wo.
sth. Asais, it soos to we tot lise itsol: is rot who cause of the
 line alono as a resorvative, tho sholls haci tio lonk of Prusi efrs (excer beinf; thiner), while in the cases minere solt, oats, asios, vec. \#ere usod, the sicell doos $10 \%$ decidedily liny.

5ti. It would arrear that tro icoal rresurvaive wonid comine tho "ararrin and salt or soin food reoservative. pho raraifine prevents evaror tion and discoloration of the sinell ád $I$ belive inat if tho effes aere first troabed with some presorvative and then coated with $\because$ arafine the rosult would nave bom iore reasing. or porinas me might with advan tafo mix our reservative with the rararino.
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rarse vo Ma

