



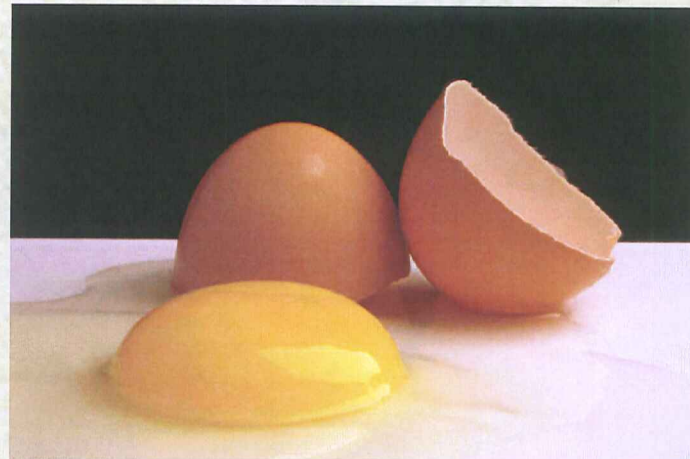
Egg Safety & Quality Management Program

Egg Producers Workshop



Workshop Agenda

- Introductions
- ESQM Program
- State Grades
- Egg Defects
- Size Requirements
- Labeling Requirements
- Refrigeration
- Registration



State Grades

Two Types of Grade tolerances

1. **Origin grades**, applied at production.
2. **Destination grades**, applied at wholesale and retail facilities.

Destination grades have a higher tolerance to allow for defects that may occur during transportation

State Grades

What are the State Grades?

Grade AA, A, B, (C quality)

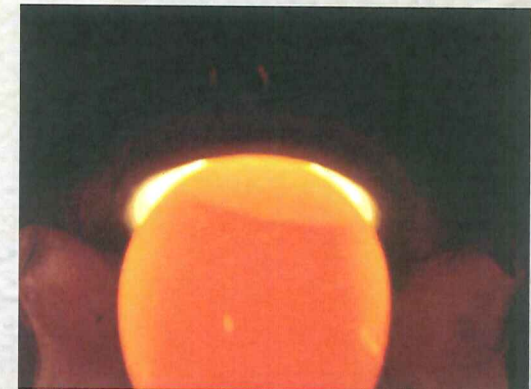
Initial factor that determines the Grade of an egg?

Size of air cell

Fresher the egg, smaller the air cell

Staining on the shell may also effect grade

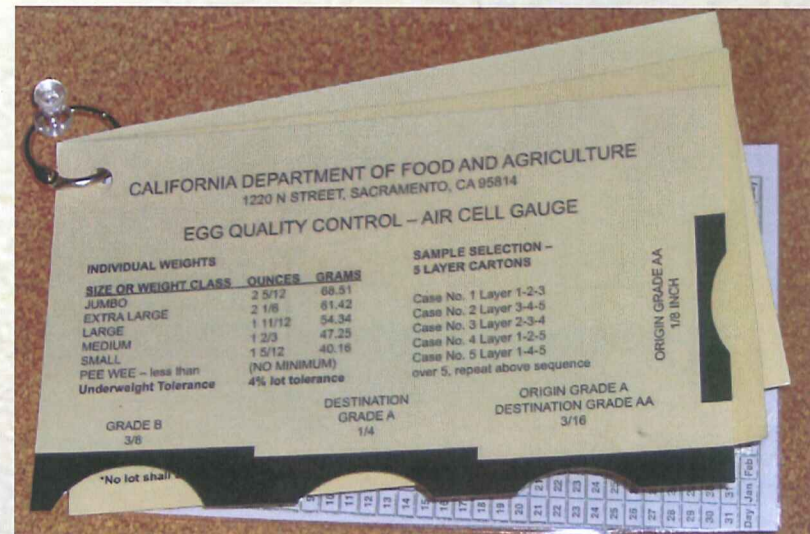
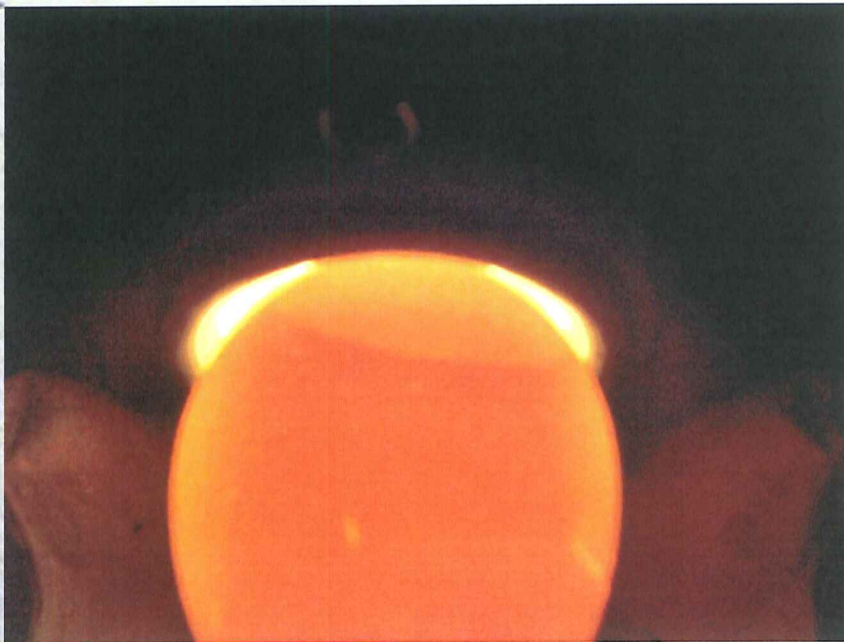
- AA & A are required to be clean.
- B grade is allowed some staining on the shell.
- 1/16th scattered moderate stain
- 1/32nd localized moderate stains



State Grades

Measuring the Air Cell

Use gauge to measure



Example: Grade A - The air cell is limited to a $\frac{3}{16}$ inch depth at origin and a $\frac{1}{4}$ inch depth at destination

ORIGIN GRADES

GRADE	QUALITY REQUIRED	TOLERANCE PERMITTED	
		PERCENT	QUALITY
AA	85% AA	15%	A, B
		WITHIN THIS 15%	CHECKS(7%Jumbo)
		5%	
		1%	C
		0.5%	LEAKERS, DIRTIES, OR LOSS (due to blood or meat spots)
A	85% A or better	15%	B
		WITHIN THIS 15%	
		5%	CHECKS (7% Jumbo)
		1%	C
		0.5%	LEAKERS, DIRTIES, OR LOSS (due to blood or meat spots)
B	85% OR better	15%	C
		WITHIN THIS 15%	CHECKS
		10%	
		0.5%	LEAKERS, DIRTIES, OR LOSS (due to blood or meat spots)

0% allowed for Inedibles  Exception

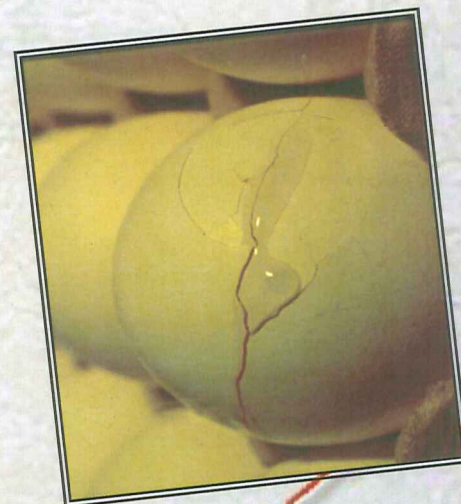
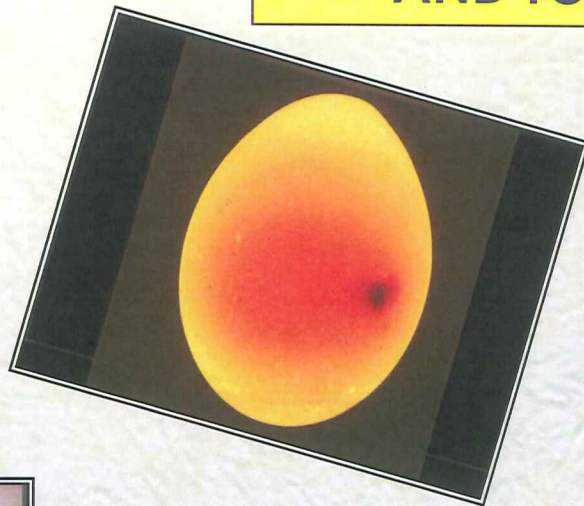
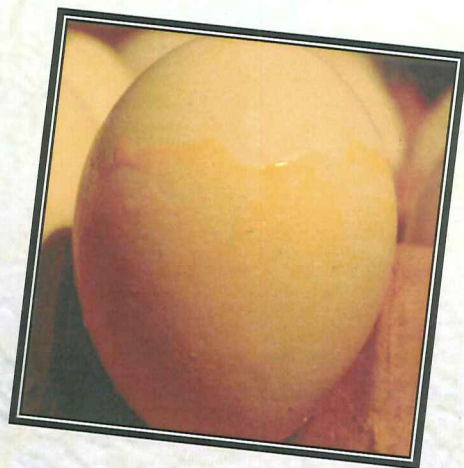
DESTINATION GRADES

GRADE	QUALITY REQUIRED	TOLERANCE PERMITTED	
		PERCENT	QUALITY
AA	80% AA	20%	A, B
		WITHIN THIS 20%	CHECKS(9%Jumbo)
		7%	
		1%	C
		1%	LEAKERS, DIRTIES, OR LOSS (of this 1%, not over 0.5% loss due to blood or meat spots)
A	80% A or better	20%	B
		WITHIN THIS 20%	
		7%	CHECKS (9% Jumbo)
		1%	C
		1%	LEAKERS, DIRTIES, OR LOSS (of this 1%, not over 0.5% loss due to blood or meat spots)
B	80% OR better	20%	C
		WITHIN THIS 20%	CHECKS
		10%	
		1%	LEAKERS, DIRTIES, OR LOSS (of this 1%, not over 0.5% loss due to blood or meat spots)

0% allowed for Inedibles – one egg rule



SHELL EGG DEFECTS AND TOLERANCES





CHECK

Defined:

An egg having a fractured shell,
but with its membranes intact
and not leaking.

Check Tolerances:

Grade AA, A, at Origin, 5%,
Jumbo 7%

Grade AA, A, at Destination,
7%,

Jumbo 9%

Grade B, at Origin or
Destination

10%

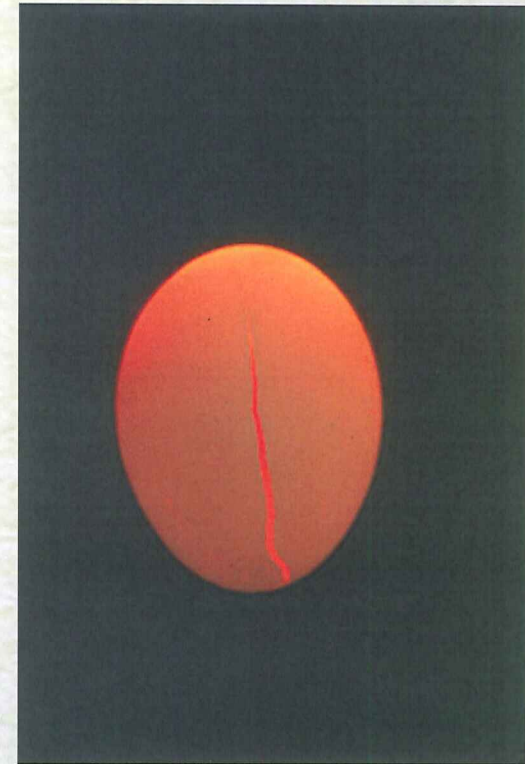




LOSS

Defined:

Any egg classified as “inedible”, also eggs with contents leaking, frozen, cooked, contaminated or which contain bloody whites, large blood/meat spots, or other foreign material.



Frozen



LEAKER

Defined:

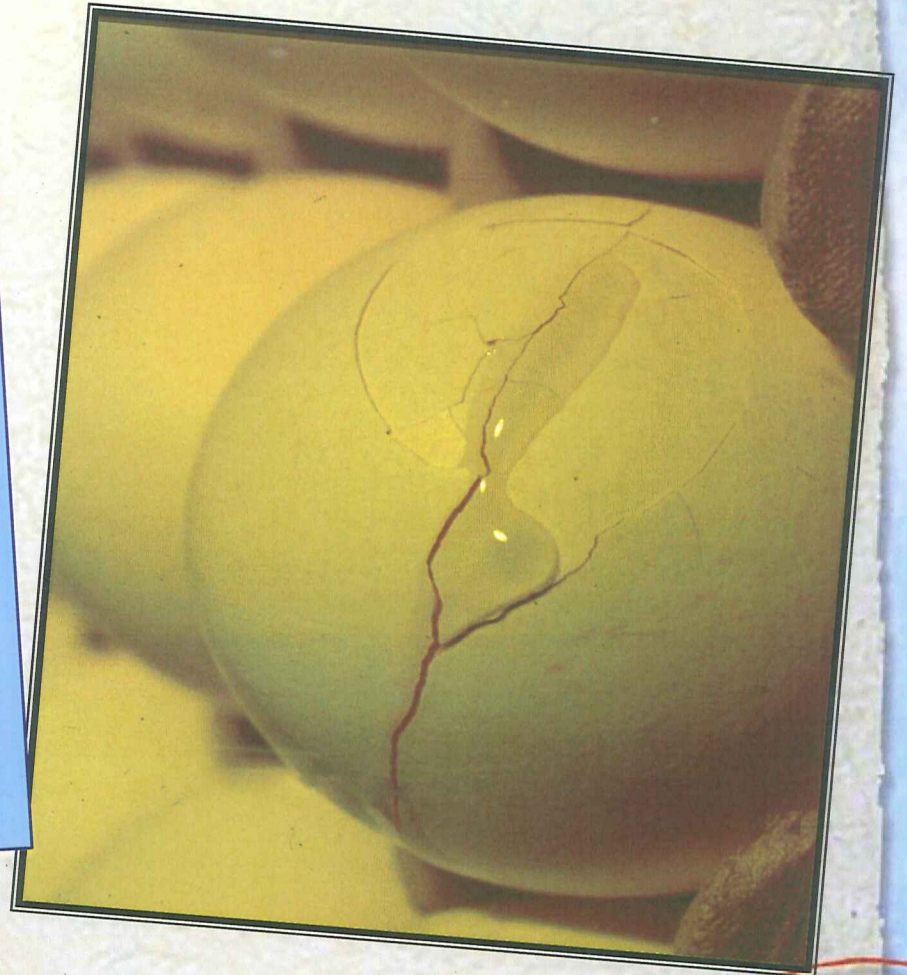
An egg having a break in the shell and membranes, with contents exuding or free to exude.

Leakers are classified as a loss.

Loss Tolerances:

Grade AA, A, B at Origin, 0.5%

Grade AA, A, B at Destination, 1%





BLOOD SPOT

Defined:

These are spots on the surface of the yolk or suspended in the white that if are larger than 1/8 inch in diameter. May show only slight diffusion into the white.

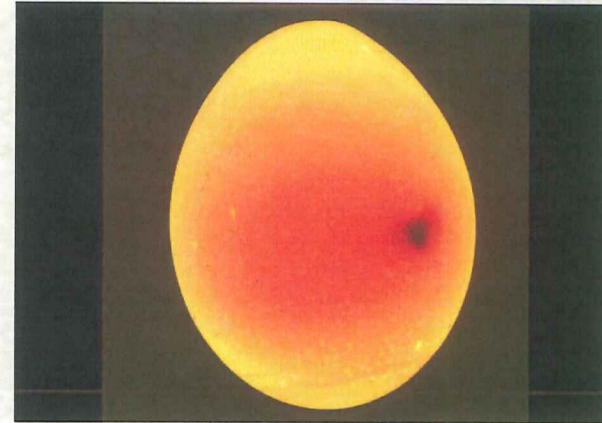
Blood/meat spots are classified as a loss.

If less than 1/8 inch in diameter, classed as C quality

Loss Tolerances:

Grade AA, A, B at Origin, 0.5%

Grade AA, A, B at Destination, 1%
(of this 1%, not over 0.5% loss due to blood or meat spots).





DIRTY

Defined:

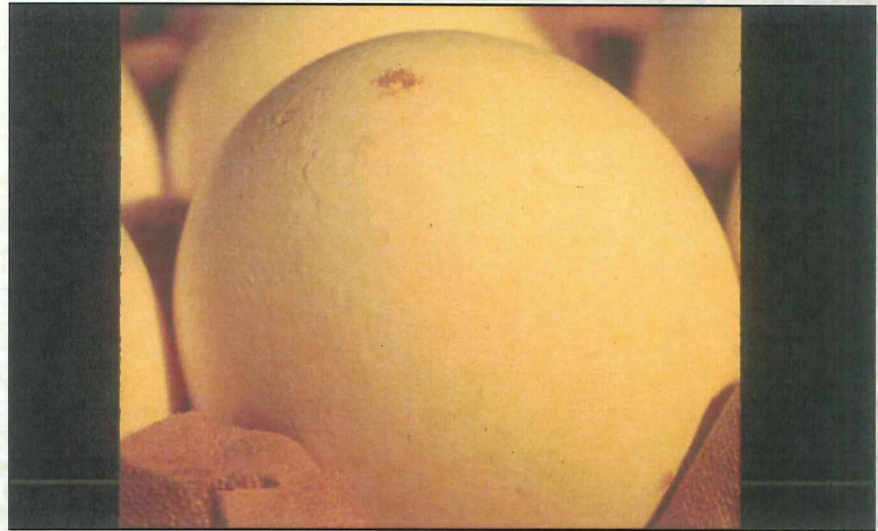
An egg that is unbroken, with dirt or foreign material adhering to its surface, or has prominent stains, or moderate stains greater than permitted in B quality.

Dirtyies are classified as a loss.

Loss Tolerances:

Grade AA, A, B at Origin, 0.5%

Grade AA, A, B at Destination,
1%

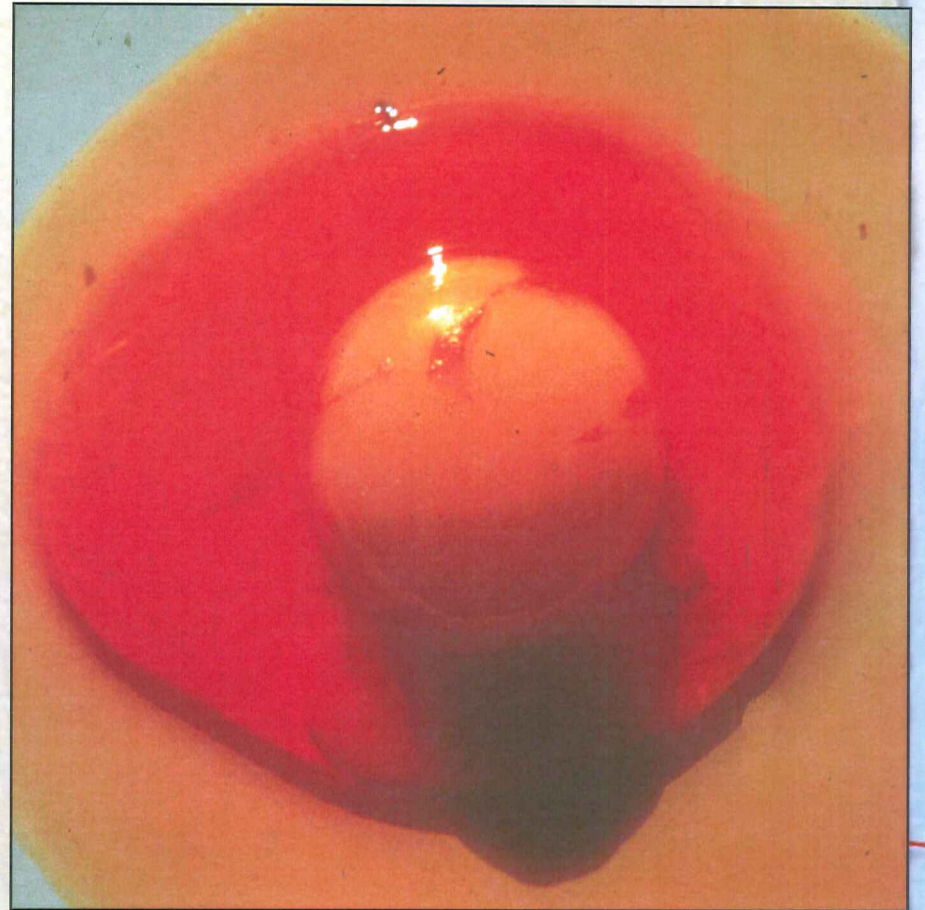
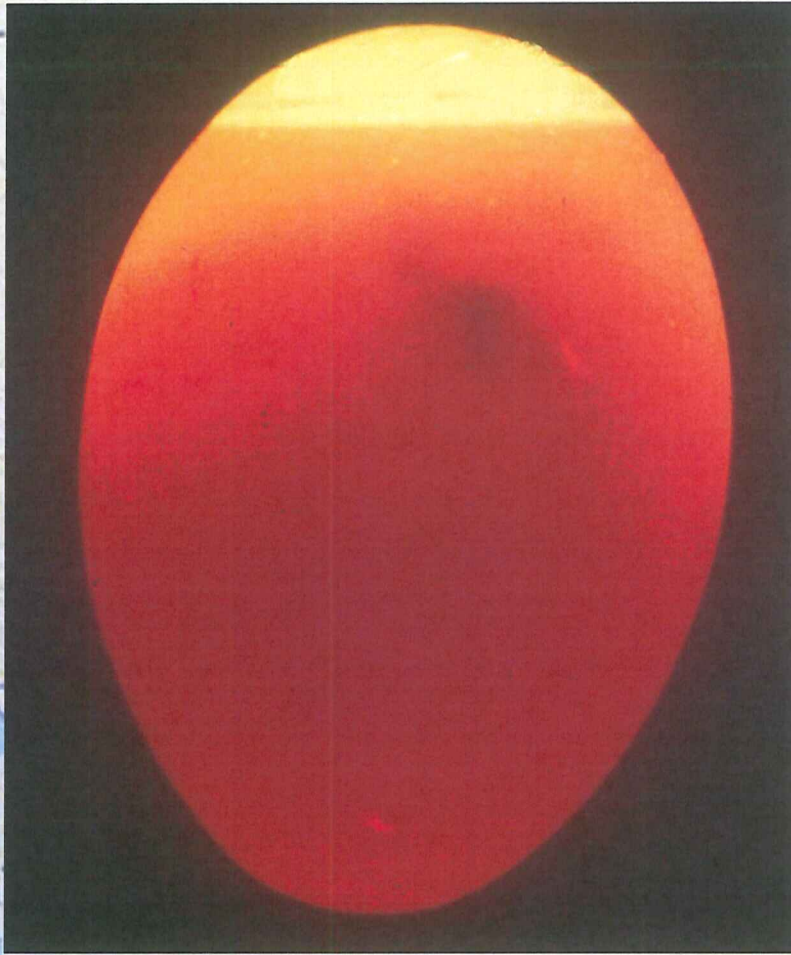


(Manure & EGG YOLK)



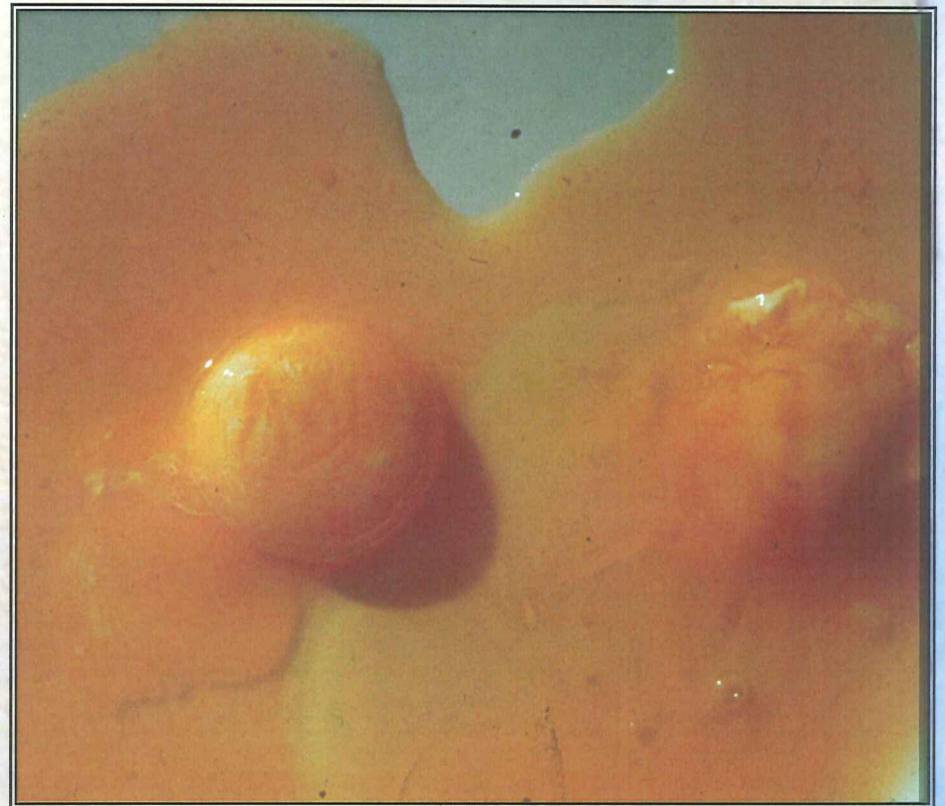


BLOODY WHITE





MIXED ROTS

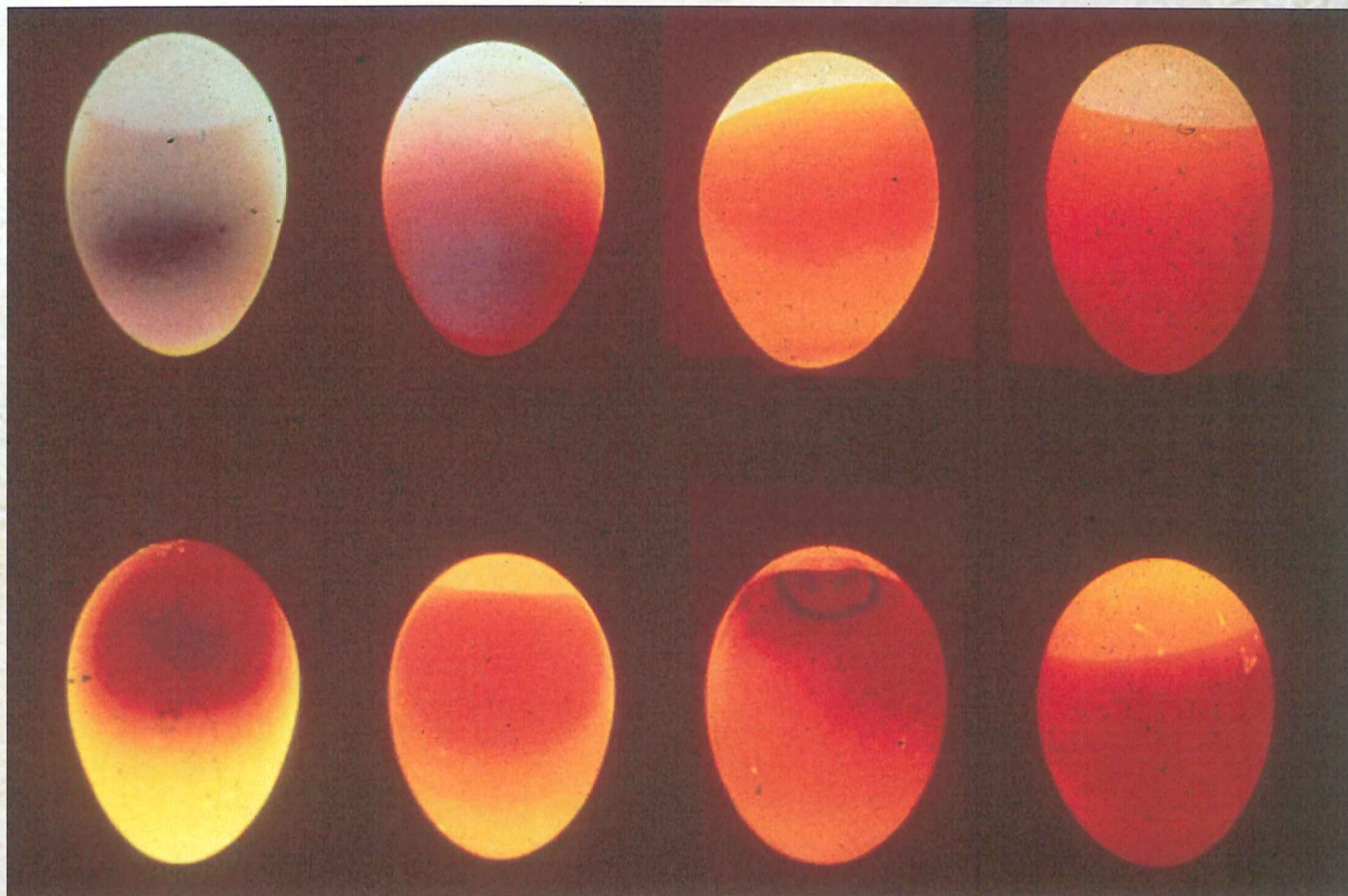


Inedible



VARIOUS ROTS

Inedible





INEDIBLES

Defined:

Any eggs of any of the following descriptions: black rots, yellow rots, white rots, mixed rots, sour eggs, green whites, stuck yolks, moldy eggs, and eggs showing embryo development at blood ring stage or beyond.

Tolerance for Inedibles:

Grade AA, A, B at Origin, None

Grade AA, A, B at Destination, None

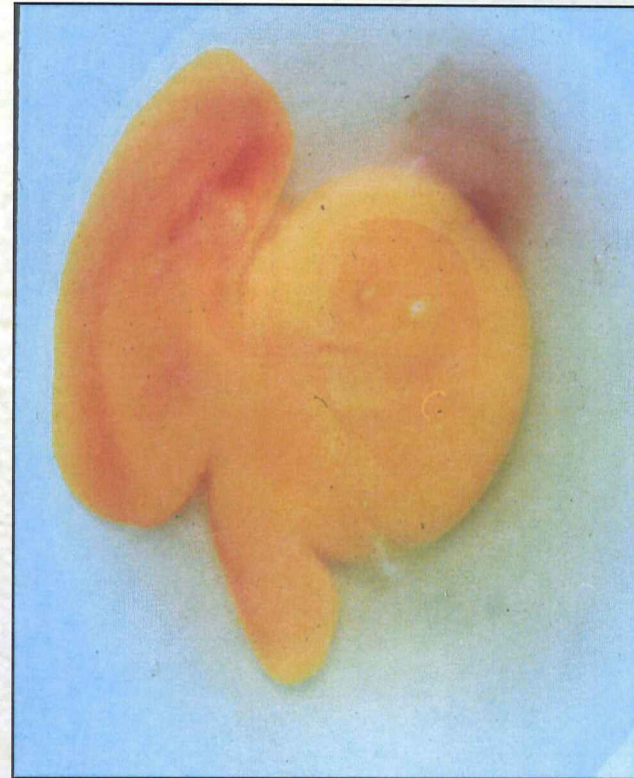
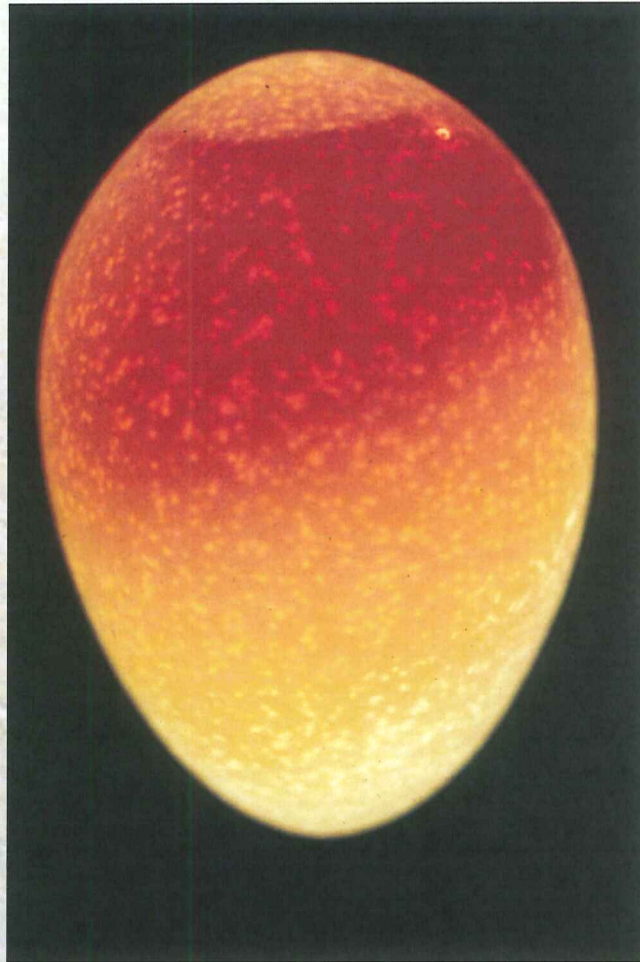
Additional Tolerance:

No lot shall be rejected due to a single loss or dirty egg.

(One egg rule)



STUCK YOLK



Inedible



CLEAN EGG DEFINITION

A “Clean” egg, as defined in the regulations is:

A shell that is free from adhering foreign material, visible stains or discoloration. A shell may be considered clean if it has only very small specks, stains, or cage marks, provided they are not of sufficient number or intensity to detract from the generally clean appearance of the egg. Eggs showing traces of processing oil on the shell are considered clean, unless otherwise soiled [~1351.2(a)].

All Grade AA and A eggs must be “Clean”.

Grade B eggs are allowed some stains, but no Dirt.



STAINED SHELL EGGS

There are three stain densities to consider in grading eggs:

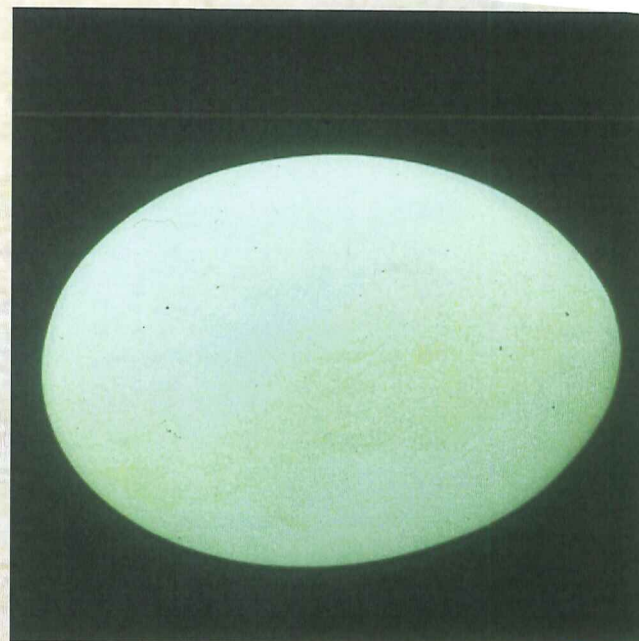
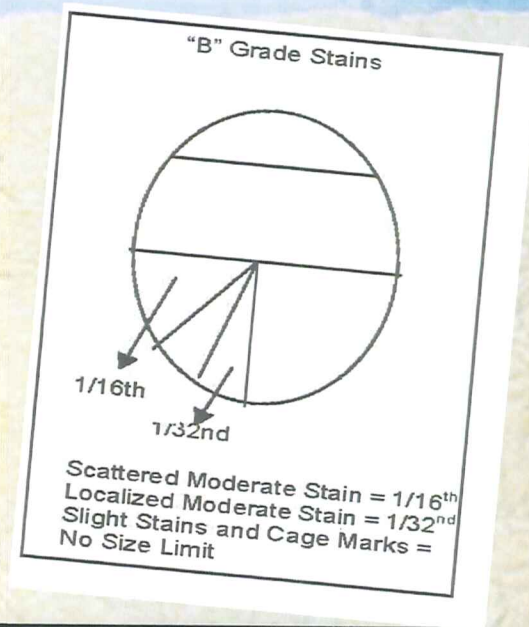
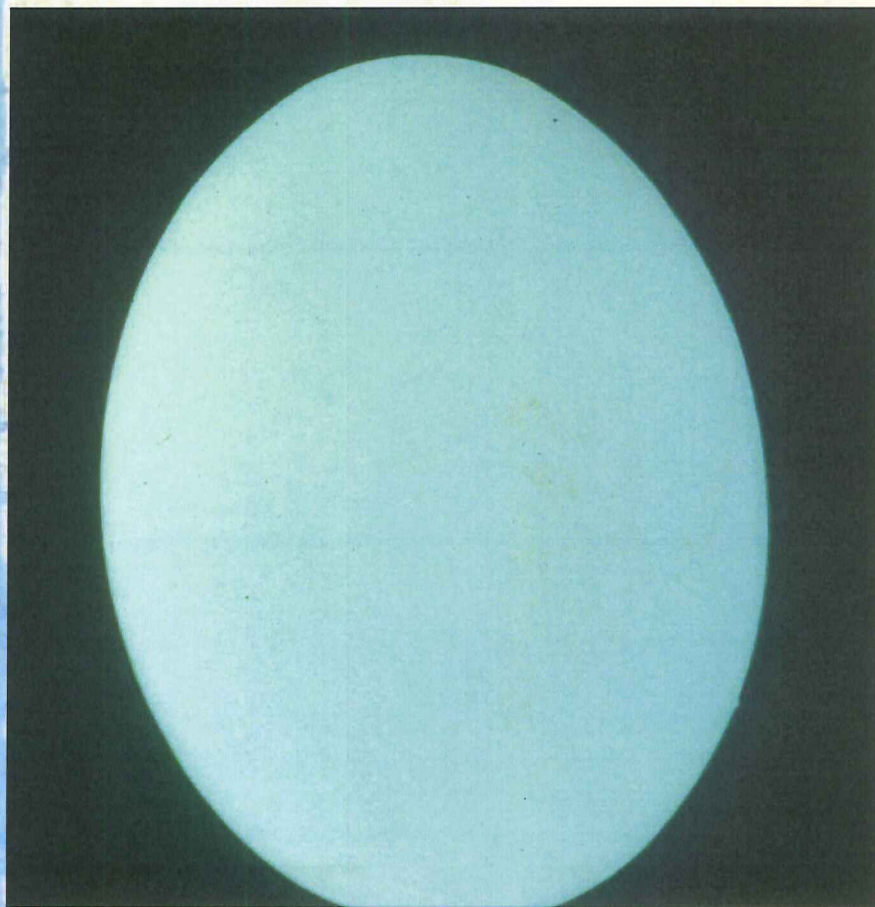
Slight Moderate Prominent.

Slight stains and cage marks are considered Grade B, except when they apply to the definition of clean.





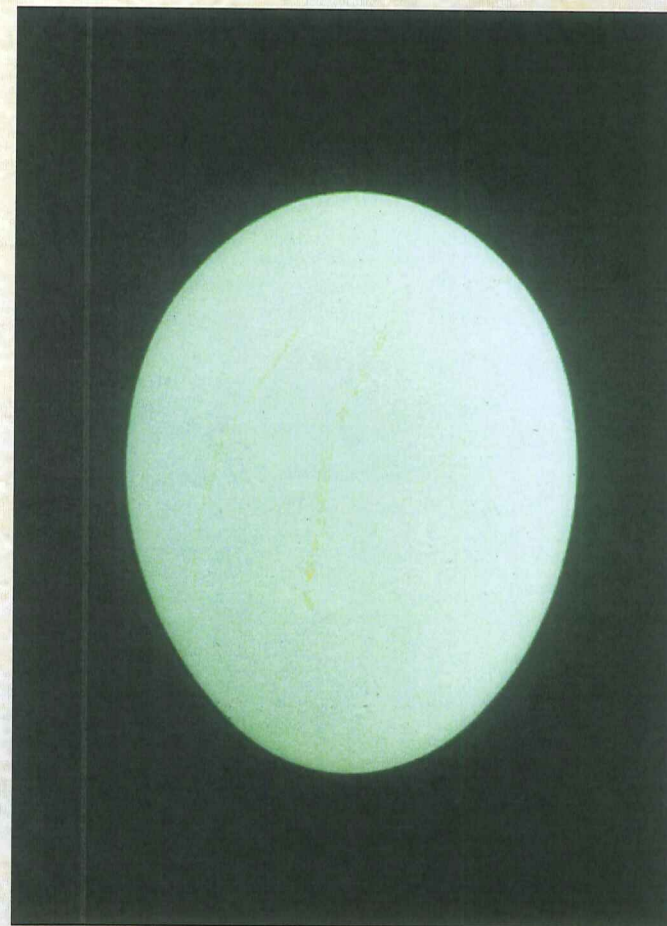
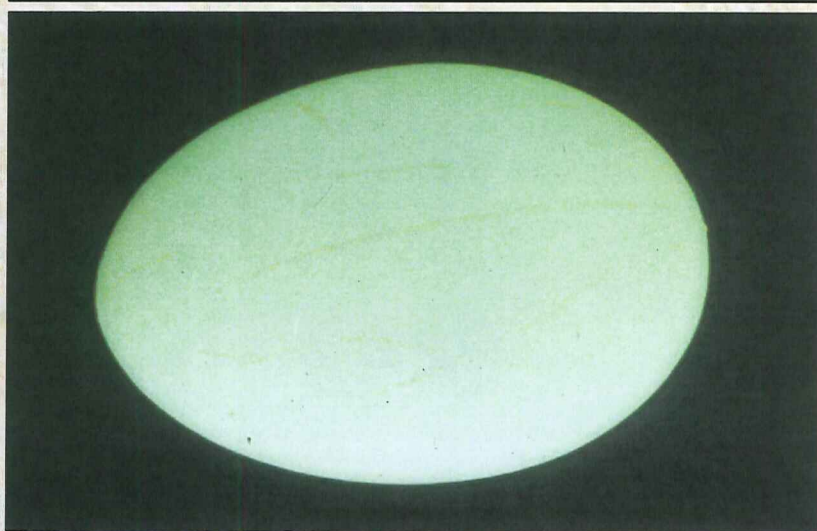
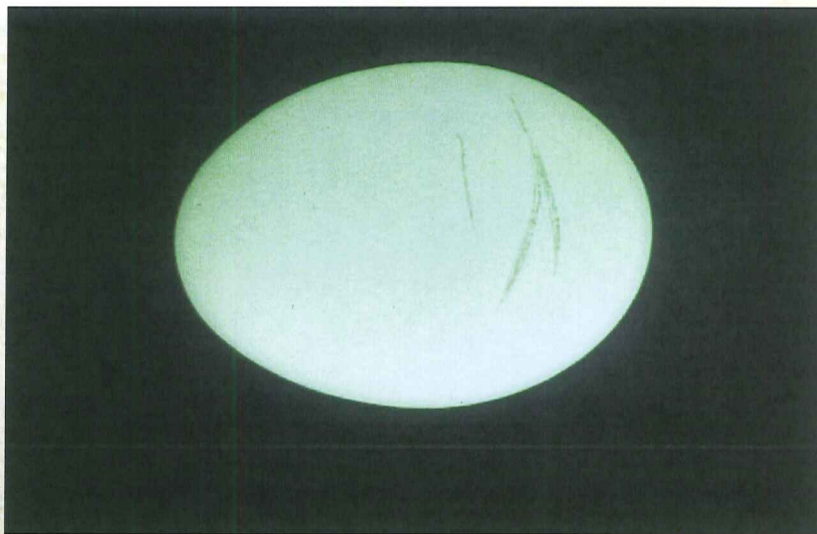
Slight Stain



Grade B



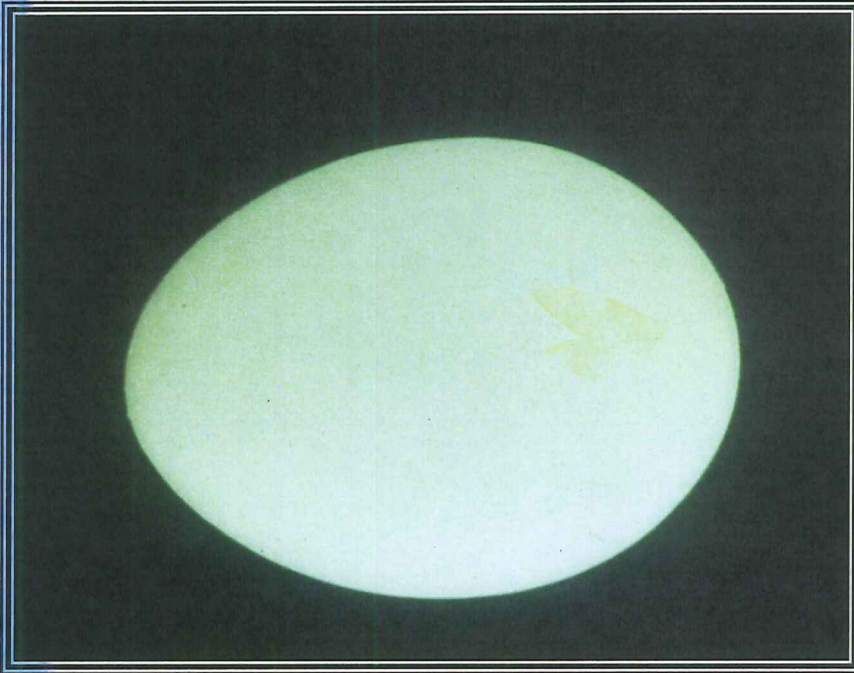
CAGE MARKS



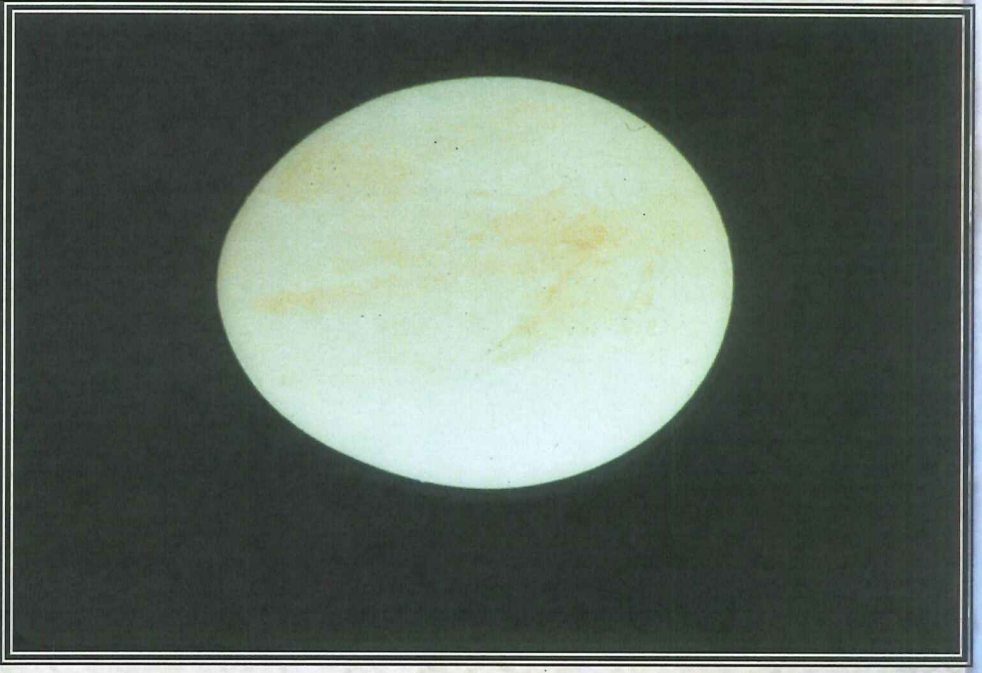
Grade B



Moderate Stain



Grade B



Dirty



Prominent Stains



Dirty

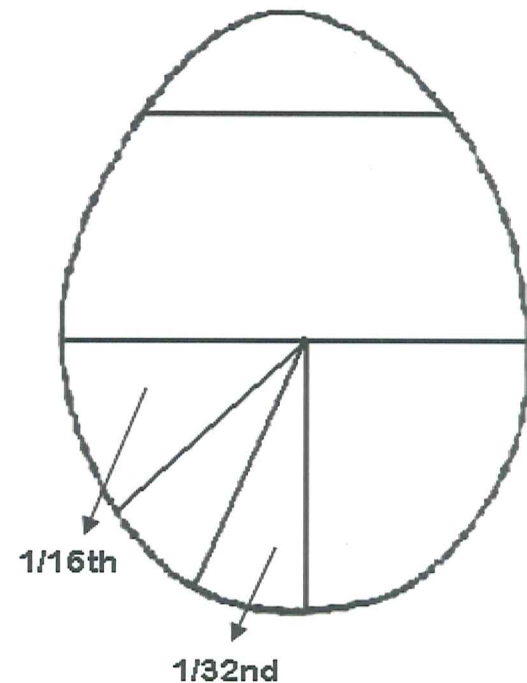




STAINED SHELL EGGS

Moderate stains are acceptable as Grade B if they are limited to a specific dimension on the shell area no longer than $\frac{1}{16}$ th of the shell surface. A localized moderate stain, confined to $\frac{1}{32}$ nd of the area of the egg surface is also a Grade B.

"B" Grade Stains



Scattered Moderate Stain = $\frac{1}{16}$ th
Localized Moderate Stain = $\frac{1}{32}$ nd
Slight Stains and Cage Mark =
No Size Limit

Shell Eggs Size Requirements



<u>Size or Weight class</u>	<u>Ounces</u>	<u>Grams</u>
Jumbo	2 5/12	68.51
Extra Large	2 1/6	61.42
Large	1 11/12	54.34
Medium	1 2/3	47.25
Small	1 5/12	40.16
Pee Wee	No Minimum	

**UNDERWEIGHT TOLERANCE –
4% of the next lower size.**



Marking Requirements





Marking Requirements

Identity – Eggs

Responsibility - Name, Address,
Zip Code

Quantity – 1 dozen, 15, dozen, 30
dozen

“Keep Refrigerated”

(Safe Handling Instructions)

Size and Grade (min. height ¼ inch)

Sell by Date

Julian Date (pack date)

Plant of Origin code number

AA XL,
Incorrect...

Grade AA
Extra Large,
Correct!!



**Large- Grade AA
Keep Refrigerated
Eggs 1 Dozen
Uncle Dan's Egg Farm
Half Moon Bay CA 94720**

**Sell by June 30 or 6-30
151
P1234, CA1234, 06-1234**

All required markings shall be conspicuous and legible



Marking Requirements



AA XL,
Incorrect...

Grade AA
Extra Large,
Correct!!

 **EGGS** 
FOR SALE
FARM FRESH

\$1.60 per dozen
Grade AA
Extra Large

Any advertisement, sign or placard which indicates the price of eggs for sale, must also use the full designation of size and grade.
CCR 1354. (b)

Julian Calendar

Julian Calendar (Perpetual)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	1	32	60	91	121	152	182	213	244	274	305	335	1
2	2	33	61	92	122	153	183	214	245	275	306	336	2
3	3	34	62	93	123	154	184	215	246	276	307	337	3
4	4	35	63	94	124	155	185	216	247	277	308	338	4
5	5	36	64	95	125	156	186	217	248	278	309	339	5
6	6	37	65	96	126	157	187	218	249	279	310	340	6
7	7	38	66	97	127	158	188	219	250	280	311	341	7
8	8	39	67	98	128	159	189	220	251	281	312	342	8
9	9	40	68	99	129	160	190	221	252	282	313	343	9
10	10	41	69	100	130	161	191	222	253	283	314	344	10
11	11	42	70	101	131	162	192	223	254	284	315	345	11
12	12	43	71	102	132	163	193	224	255	285	316	346	12
13	13	44	72	103	133	164	194	225	256	286	317	347	13
14	14	45	73	104	134	165	195	226	257	287	318	348	14
15	15	46	74	105	135	166	196	227	258	288	319	349	15
16	16	47	75	106	136	167	197	228	259	289	320	350	16
17	17	48	76	107	137	168	198	229	260	290	321	351	17
18	18	49	77	108	138	169	199	230	261	291	322	352	18
19	19	50	78	109	139	170	200	231	262	292	323	353	19
20	20	51	79	110	140	171	201	232	263	293	324	354	20
21	21	52	80	111	141	172	202	233	264	294	325	355	21
22	22	53	81	112	142	173	203	234	265	295	326	356	22
23	23	54	82	113	143	174	204	235	266	296	327	357	23
24	24	55	83	114	144	175	205	236	267	297	328	358	24
25	25	56	84	115	145	176	206	237	268	298	329	359	25
26	26	57	85	116	146	177	207	238	269	299	330	360	26
27	27	58	86	117	147	178	208	239	270	300	331	361	27
28	28	59	87	118	148	179	209	240	271	301	332	362	28
29	29		88	119	149	180	210	241	272	302	333	363	29
30	30		89	120	150	181	211	242	273	303	334	364	30
31	31		90		151		212	243		304		365	31
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day

Julian Date Matrix (Leap Year)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	1	32	61	92	122	153	183	214	245	275	306	336	1
2	2	33	62	93	123	154	184	215	246	276	307	337	2
3	3	34	63	94	124	155	185	216	247	277	308	338	3
4	4	35	64	95	125	156	186	217	248	278	309	339	4
5	5	36	65	96	126	157	187	218	249	279	310	340	5
6	6	37	66	97	127	158	188	219	250	280	311	341	6
7	7	38	67	98	128	159	189	220	251	281	312	342	7
8	8	39	68	99	129	160	190	221	252	282	313	343	8
9	9	40	69	100	130	161	191	222	253	283	314	344	9
10	10	41	70	101	131	162	192	223	254	284	315	345	10
11	11	42	71	102	132	163	193	224	255	285	316	346	11
12	12	43	72	103	133	164	194	225	256	286	317	347	12
13	13	44	73	104	134	165	195	226	257	287	318	348	13
14	14	45	74	105	135	166	196	227	258	288	319	349	14
15	15	46	75	106	136	167	197	228	259	289	320	350	15
16	16	47	76	107	137	168	198	229	260	290	321	351	16
17	17	48	77	108	138	169	199	230	261	291	322	352	17
18	18	49	78	109	139	170	200	231	262	292	323	353	18
19	19	50	79	110	140	171	201	232	263	293	324	354	19
20	20	51	80	111	141	172	202	233	264	294	325	355	20
21	21	52	81	112	142	173	203	234	265	295	326	356	21
22	22	53	82	113	143	174	204	235	266	296	327	357	22
23	23	54	83	114	144	175	205	236	267	297	328	358	23
24	24	55	84	115	145	176	206	237	268	298	329	359	24
25	25	56	85	116	146	177	207	238	269	299	330	360	25
26	26	57	86	117	147	178	208	239	270	300	331	361	26
27	27	58	87	118	148	179	209	240	271	301	332	362	27
28	28	59	88	119	149	180	210	241	272	302	333	363	28
29	29	60	89	120	150	181	211	242	273	303	334	364	29
30	30		90	121	151	182	212	243	274	304	335	365	30
31	31		91		152		213	244		305		366	31
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day

Example Plant Number, Pack Date, and Sell By Date



Refrigeration Requirements



- FAC 27643: Eggs will be stored, held or transported at an ambient temperature of 45 degrees Fahrenheit or below
- Transport vehicle refrigeration units must deliver air at 45 degrees Fahrenheit or below
- **Refrigeration at retail locations and farmers markets are regulated by the appropriate county environmental health department**



Transport Refrigeration

Don't be this guy!

Shell Egg Noncompliance

State of California
Department of Food and Agriculture
Egg Quality Control
51-003A (01-08)

☐ Production ☐ Wholesale ☐ Retail

County _____ No. 00001

Date _____ Time _____ ☐ AM ☐ PM

1. TO: _____
Person in Possession or Owner

Address: _____

2. _____
Other Financially Interested Party or Shipper

Address: _____

You are hereby notified that the following described product fails to conform with the provisions of the Food and Agricultural Code or the California Code of Regulations.

☐ Shell Eggs ☐ Other _____ Dozens / Quantity _____

Identification Marks _____

Located At/On: ☐ Cooler ☐ Truck/Trailer License # _____ ☐ Other _____

☐ NOTICE OF NONCOMPLIANCE: Section Violated ☐ 27631 ☐ Other _____
☐ DISPOSAL ORDER: Section Violated ☐ 27595

VIOLATION: ☐ Having in Possession ☐ Offering for Sale ☐ Transporting

NOTICE: (1) The above described lot, including the containers thereof, is a public nuisance. It is unlawful to remove the lot from its present location except under the written permission of an authorized enforcing officer. Unless such lot held by the enforcing officer is reconditioned or otherwise brought into compliance by not later than (Date) _____ day _____ mo _____ yr. (Time) _____ am/pm or written consent to destroy or otherwise dispose of said lot shall have been given to the enforcing officer by the persons served with notice of noncompliance, the commodity or commodities are subject to the order of any court of competent jurisdiction to destroy such lot or otherwise abate the nuisance.

Enforcing Officer _____
Signature _____

Address or Phone Number _____

You are hereby notified that the above described lot shall be delivered only to the person and at the destination stated below, and shall not be disposed of except to unload and store at destination, until released in writing by an enforcing officer at destination. No other disposition is permitted unless first authorized in writing by an enforcing officer.

I hereby agree to bring into compliance by:

☐ Marking Property ☐ Reconditioning ☐ Transport Lot To: _____

For: ☐ Reinspection ☐ Release ☐ Final Disposition ☐ Other _____

Report To: County Agricultural Commissioners Office of _____

Signed _____

Shell Egg Hold Card - Back of N/C

DEPARTMENT OF FOOD AND AGRICULTURE
EGG QUALITY CONTROL PROGRAM

HOLD

NONCOMPLIANCE WARNING TAG

The load or lot described hereon, including containers, fails to comply with provisions of Food and Agricultural Code, and is a public nuisance. Until properly reconditioned or otherwise brought into compliance, the transportation or sale of such lot is illegal. All persons are hereby warned not to sell or transport said lot, remove or dispose of any part of the load or lot described hereon, or to remove this Noncompliance Warning Tag without first obtaining specific instructions from the proper enforcing officer. Violation of the terms of this Noncompliance Warning Tag is punishable by a maximum fine of \$3,000 or 6 months in jail or both.

PRODUCTS DESCRIBED ON REVERSE SIDE RECEIVED AND DISPOSED AS DIRECTED

INSPECTOR _____ COUNTY _____

DISPOSITION OR PERMISSION TO MOVE _____

INSPECTOR SIGNATURE _____

LOT SIZE: ☐ DZ ☐ WB ☐ CT

100 EGGS SAMPLED

DEFECTS _____

INSPECTED BY AND
RETURN TO COUNTY



Shell Egg Handler Registration Requirements

Who should register with CDFA, Egg Safety & Quality Management?

*Any person engaged in California as an egg producer or egg handler.
Any out of state egg handler or egg producer selling eggs into California.*

Does an egg producer that has someone else pack his eggs have to register with ESQM?

YES

How about an egg broker selling eggs on behalf of someone else in California?

YES

Does a person selling a small amount of eggs at a local farmers market have to register with ESQM?

YES

The Food and Agricultural Code only allows a registration exemption for a retailer who does not handle eggs in any other capacity, except as a retailer.



Shell Egg Handler Registration Information

How does someone
register with CDFA,
ESQM?
By completing a
registration application

The egg handler registration form may be
obtained by visiting the ESQM website:
<http://www.cdfa.ca.gov/ahfss/mpes/esqm.html>

The certificate of registration is non-transferable.
Once the application is process, the applicant will
be issued an egg handler registration number.

**Anyone doing business in California as an
egg handler must have a
CALIFORNIA REGISTRATION NUMBER**

Unregistered egg
handlers are usually
found at:
*Certified Farmers Markets,
swap meets and small
producers selling from
premises.*

QUESTIONS?



Shell Egg Program Contact Information

Program Supervisor

Tony Herrera (916) 900-5060

Northern District Supervisor

Jenna Celigija (916) 216-8621 Office (916) 900-5057

Central District Supervisor

John Ramos (661) 670-0372

Southern District Supervisor

Bill Rohner (619) 481-0247

- **CDFA Website**
- **Food and Ag Code**
- **CA Code Regs**

www.cdfa.ca.gov/ahfss/mpes

www.leginfo.ca.gov

www.calregs.com

Thanks For Attending

