

Table 1. Effect of treatment and breed on egg yolk color scores.

Breed ¹	Treatment ²	Yolk Color Score ³	SEM ⁴	Number of Observations
EEH	COM	3.444 ^a	0.615	9
CMH	COM	6.667 ^b	1.066	3
EEH	PAST	8.667 ^b	0.774	6
EEH	PEP	7.600 ^b	0.584	10
CMH	PEP	7.200 ^b	0.826	5

¹Breed: Cuckoo Maran Hens (CMH) and Easter Egger Hybrids (EEH).

²Treatments: COM, hens raised in a commercial style environment with 12-14 hours of light per day and no access to pasture; PAST, hens raised in a pasture system with no additional light source and access to pasture during the day; and PEP, hens raised with an additional light source, totaling 12-14 hours of light per day with access to pasture during daylight hours.

³Yolk Color Score: 1 = most pale yellow, 10 = darkest, golden orange.

⁴SEM = Standard error of the mean.

^{ab}Means within a column without a common superscript differ ($P < 0.05$).

Table 2. Effect of treatment and breed on albumen height.

Breed ¹	Treatment ²	Albumen Height, mm	SEM ³	Number of Observations
EEH	COM	2.944	0.531	9
CMH	COM	3.167	0.871	3
EEH	PAST	3.167	0.616	6
EEH	PEP	4.58	0.477	10
CMH	PEP	3.36	0.680	5

¹Breed: Cuckoo Maran Hens (CMH) and Easter Egger Hybrids (EEH).

²Treatments: COM, hens raised in a commercial style environment with 12-14 hours of light per day and no access to pasture; PAST, hens raised in a pasture system with no additional light source and access to pasture during the day; and PEP, hens raised with an additional light source, totaling 12-14 hours of light per day with access to pasture during daylight hours.

³SEM = Standard error of the mean.

Table 3. Effect of treatment and breed on egg weight.

Breed ¹	Treatment ²	Mean Egg Weight Estimate ³ g'	SEM ³	Number of Observations
EEH	COM	52.533 ^a	1.306	9
CMH	COM	55.67 ^a	2.263	3
EEH	PAST	51.600	1.60	6
EEH	PEP	59.54 ^b	1.240	10
CMH	PEP	57.64 ^b	1.753	5

¹Breed: Cuckoo Maran Hens (CMH) and Easter Egger Hybrids (EEH).

²Treatments: COM, hens raised in a commercial style environment with 12-14 hours of light per day and no access to pasture; PAST, hens raised in a pasture system with no additional light source and access to pasture during the day; and PEP, hens raised with an additional light source, totaling 12-14 hours of light per day with access to pasture during daylight hours.

³SEM = Standard error of the mean.

^{ab}Means within a column without a common superscript differ ($P < 0.05$).

Table 4. Effect of treatment on egg weight.

Treatment ¹	Mean Egg Weight, g \pm SEM ²	Number of Observations
PEP	58.59 \pm 1.073 ^a	15
COM	54.10 \pm 1.306 ^b	12
PAST	Non Estimate	6

¹Treatments: COM, hens raised in a commercial style environment with 12-14 hours of light per day and no access to pasture; PAST, hens raised in a pasture system with no additional light source and access to pasture during the day; and PEP, hens raised with an additional light source, totaling 12-14 hours of light per day with access to pasture during daylight hours.

²SEM = Standard error of the mean.

^{ab}Means within a column without a common superscript differ ($P < 0.05$).

Table 5. Effect of treatment and breed on Haugh unit

Breed ¹	Treatment ²	Mean Haugh Unit Estimate ³	SEM ⁴	Number of Observations
EEH	COM	48.600	5.354	9
CMH	COM	49.867	9.274	3
EEH	PAST	51.767	6.558	6
EEH	PEP	60.620	5.080	10
CMH	PEP	51.300	7.184	5

¹Breed: Cuckoo Maran Hens (CMH) and Easter Egger Hybrids (EEH).

²Treatments: COM, hens raised in a commercial style environment with 12-14 hours of light per day and no access to pasture; PAST, hens raised in a pasture system with no additional light source and access to pasture during the day; and PEP, hens raised with an additional light source, totaling 12-14 hours of light per day with access to pasture during daylight hours.

³Haugh units range from a score of 1=poor quality to 130=AA quality and are a calculation based on observed albumen height and egg weight.

⁴SEM = Standard error of the mean.

Table 6. Effect of week and treatment on egg deposition rate

Week	Treatment ¹			SEM ²
	COM	PAST	PEP	
1	12	1	2	2.008
2	18 ^a	3 ^b	6 ^b	2.008
3	7	3	13	2.008
4	10 ^{ab}	5 ^b	21 ^a	2.008
5	3	0	9	2.008
6	4	1	10	2.008
7	9	5	1	2.008
8	8	5	1	2.008

¹Treatments: COM, hens raised in a commercial style environment with 12-14 hours of light per day and no access to pasture; PAST, hens raised in a pasture system with no additional light source and access to pasture during the day; and PEP, hens raised with an additional light source, totaling 12-14 hours of light per day with access to pasture during daylight hours.

²SEM = Standard error of the mean.

^{ab}Means within a row without a common superscript differ ($P < 0.05$).