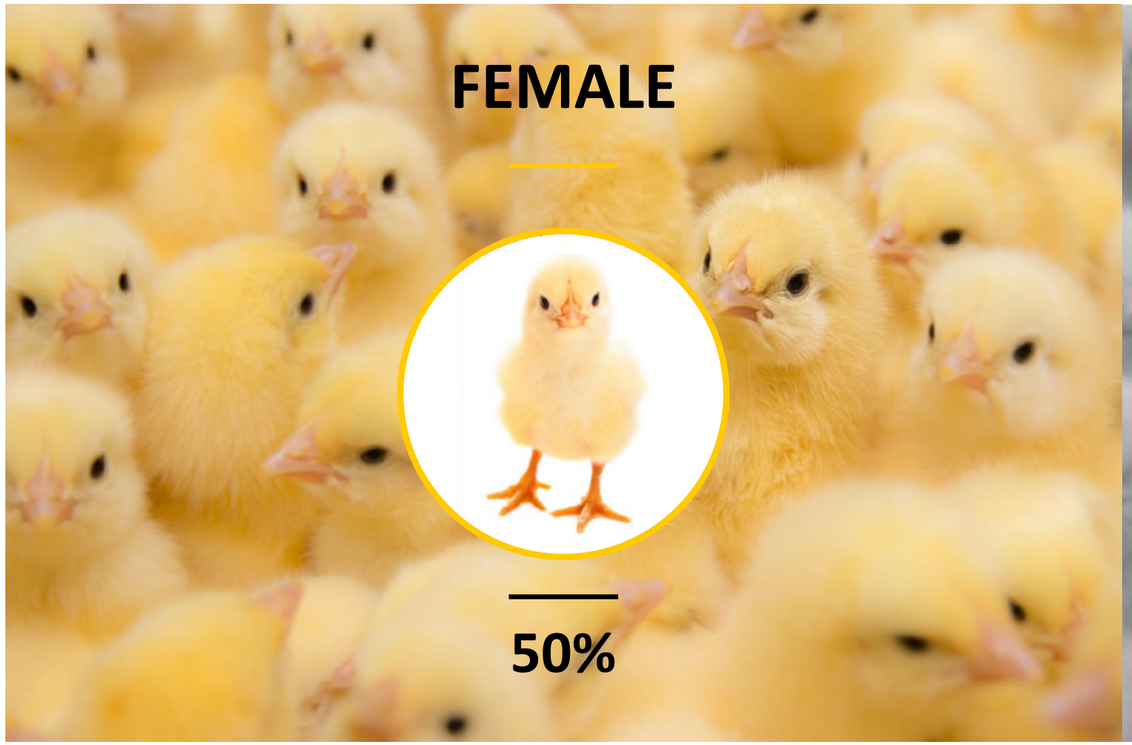
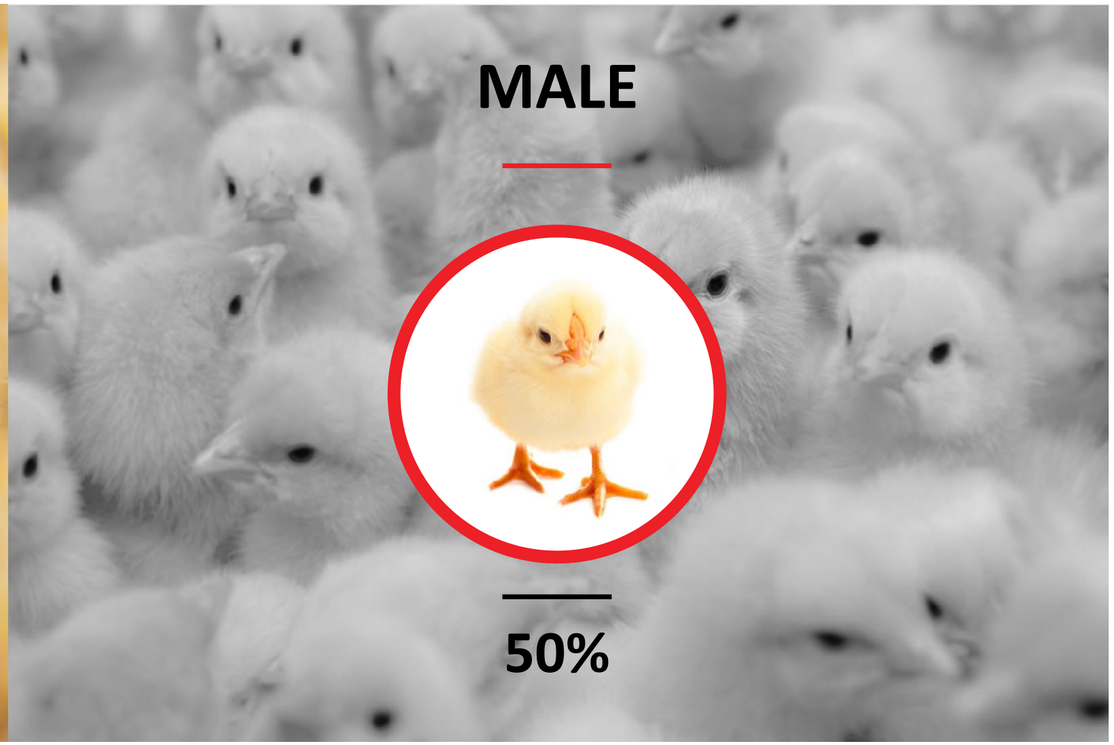
SOOS

EGG SEX REVERSAL

SOOS TECHNOLOGY INTRODUCTION

SAVING MALE CHICKS!





- Sent for growing and laying
- Lays 280-300 eggs/year

- Sent to extermination
- Can’t lay eggs

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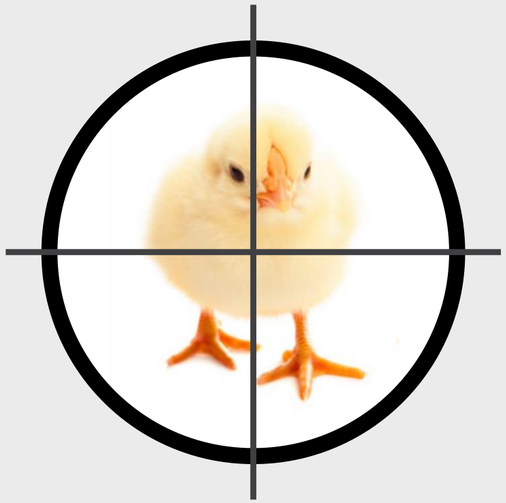
GLOBAL IMPLICATIONS



7.5 Billion
males exterminated

Regulatory pressure prohibiting male culling in EU starting 2022

50% capacity loss ($220B Market)

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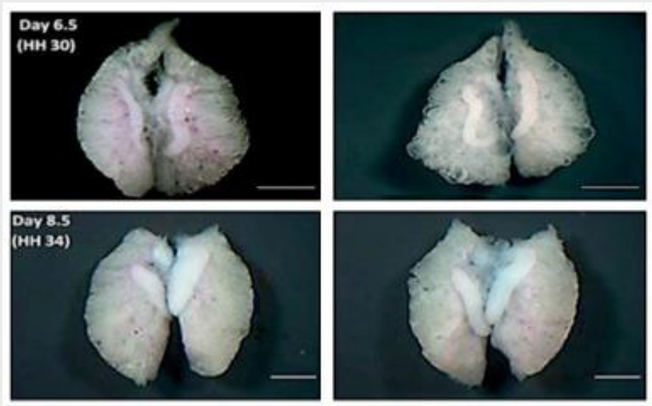
SEX DETERMINATION IN BIRDS

- Common in nature
- 17 genes directly affect sexual development in avian embryos
- **Technology reassigns males to function as females and lay eggs**

Phenotypical sex determination

Ovary Testicles



Z W
FEMALE

Z Z
MALE

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THIS IS HOW WE SCALE IT UP

Producing more females with the same resources

Our Solution Includes:

Sound Vibration

Humidity

Temperature

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SMART TRAY & DATA COLLECTION SYSTEM

- Smart trays contain the core control and transmission technology and a sensor system to collect incubation data at scale
- Our smart tray allows frictionless installation in customer site, without affecting the standard incubation process
- Each tray contains 30 sensors sampling signal data every minute, and moving it to our cloud Soository system

Egg trolley with the company’s trays @ Amadori Italy

Smart tray prototype system loaded with eggs

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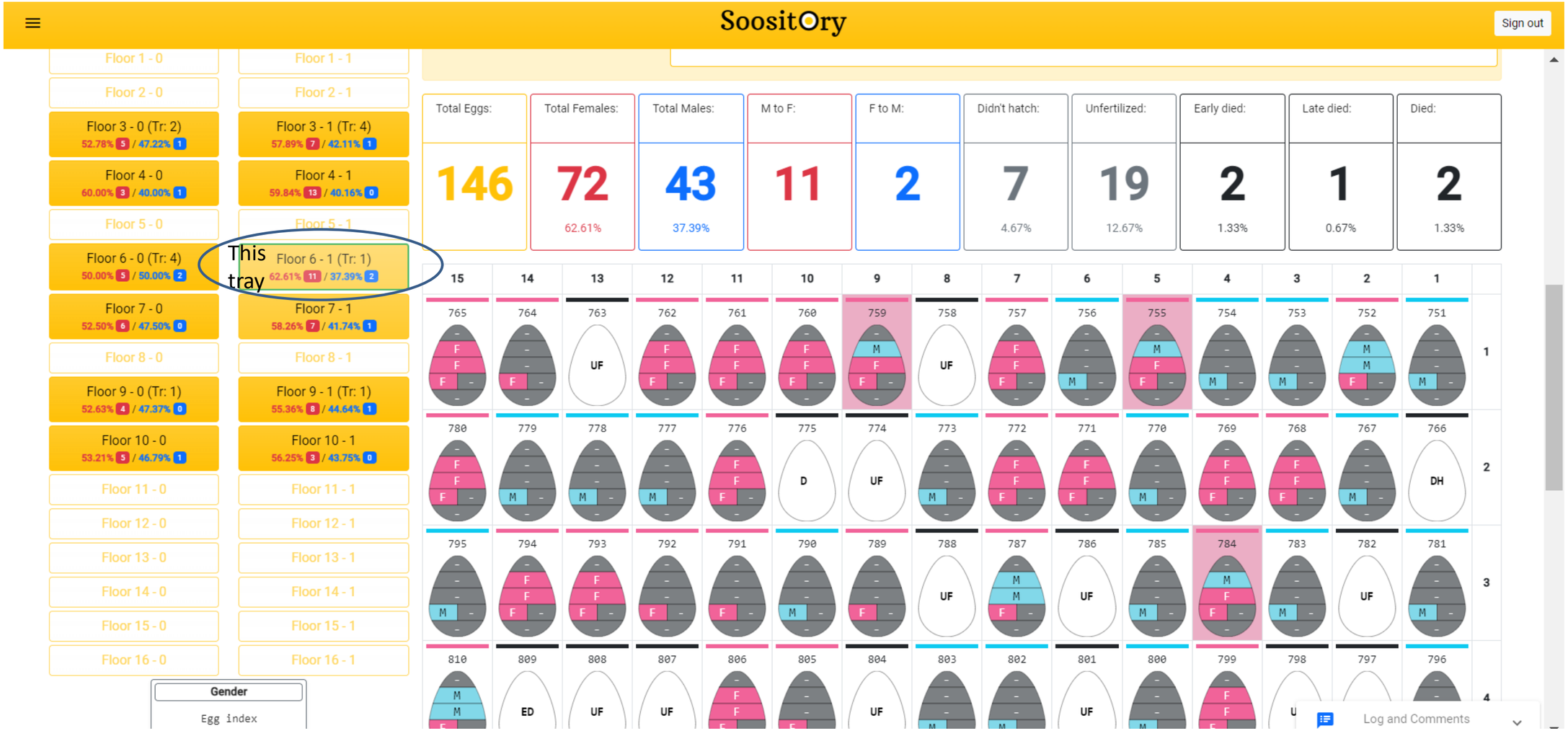
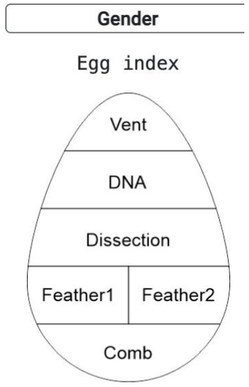
SOOSITORY SOFTWARE PLATFORM





Layout Legend

There are 5 egg sections for 5 types of classification: Male/Female/Unknown

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CLIENT BENEFIT

Increase profit margin from 20% to 46%

Hatchery of 10M eggs (4M females)

% female	**50%**	**60%**	**70%**	**80%**
Revenue	$6.2m	$6.2m	$6.2m	$6.2m
Cost	**$4.9m**	**$4.2m**	**$3.7m**	**$3.4m**
(% Margin)	(20%)	(32%)	(40%)	(46%)

Repeatedly Achieved

Achieved in lab incubators

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EXPERIMENTAL TRACTION

DISSECTED SEXUALLY REVERSED FEMALE EXAMPLE FROM APRIL ‘21 EXPERIMENT

Feather: Female

Vent: Female

DNA: Male (tested 3 times)

COMB: Female

Dissection: Female

Female age: 120 days

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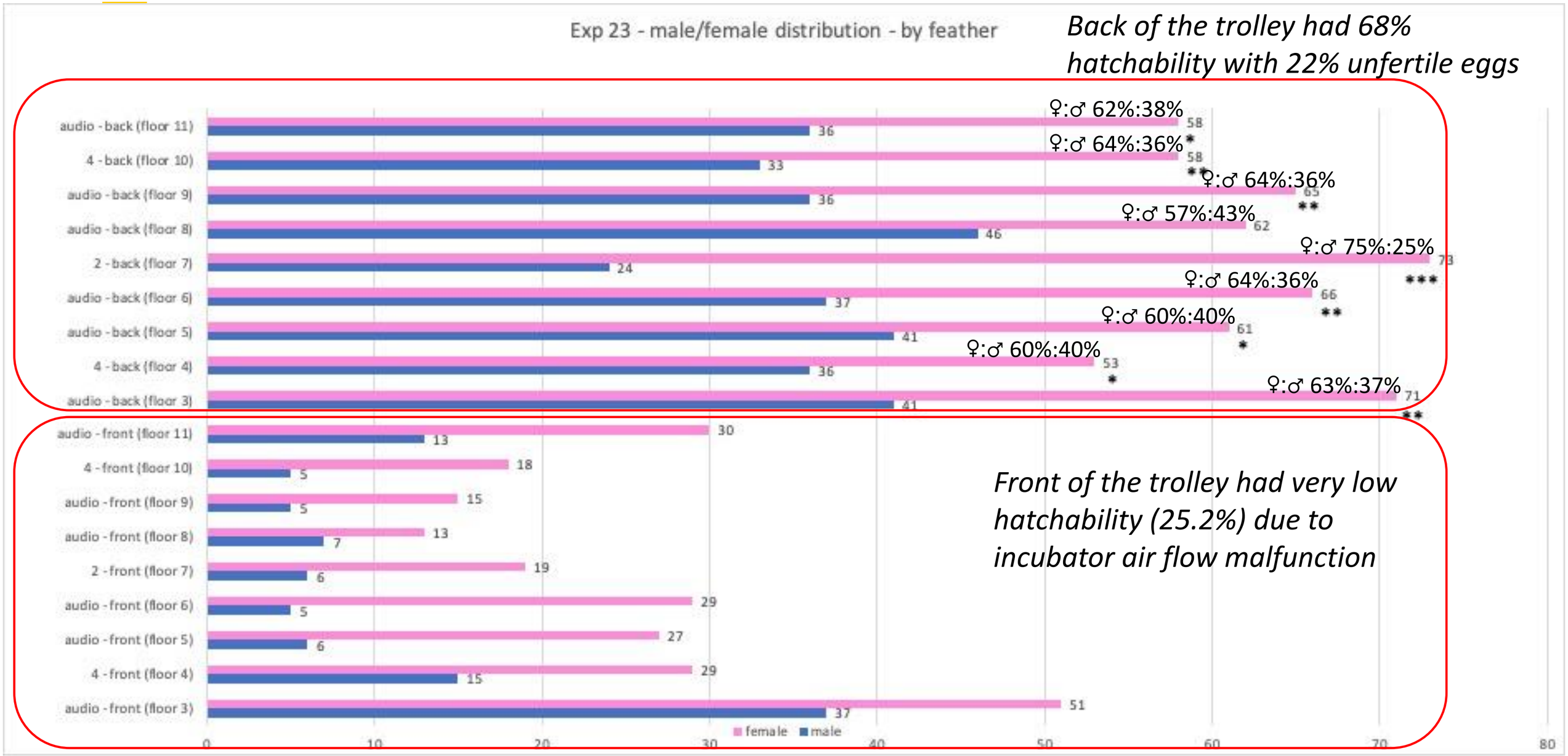
EXPERIMENTAL TRACTION DURING 2022

Location: Israel; Live chicks 1,227 (Female 65%, hatchability:46%, with UF 24%)

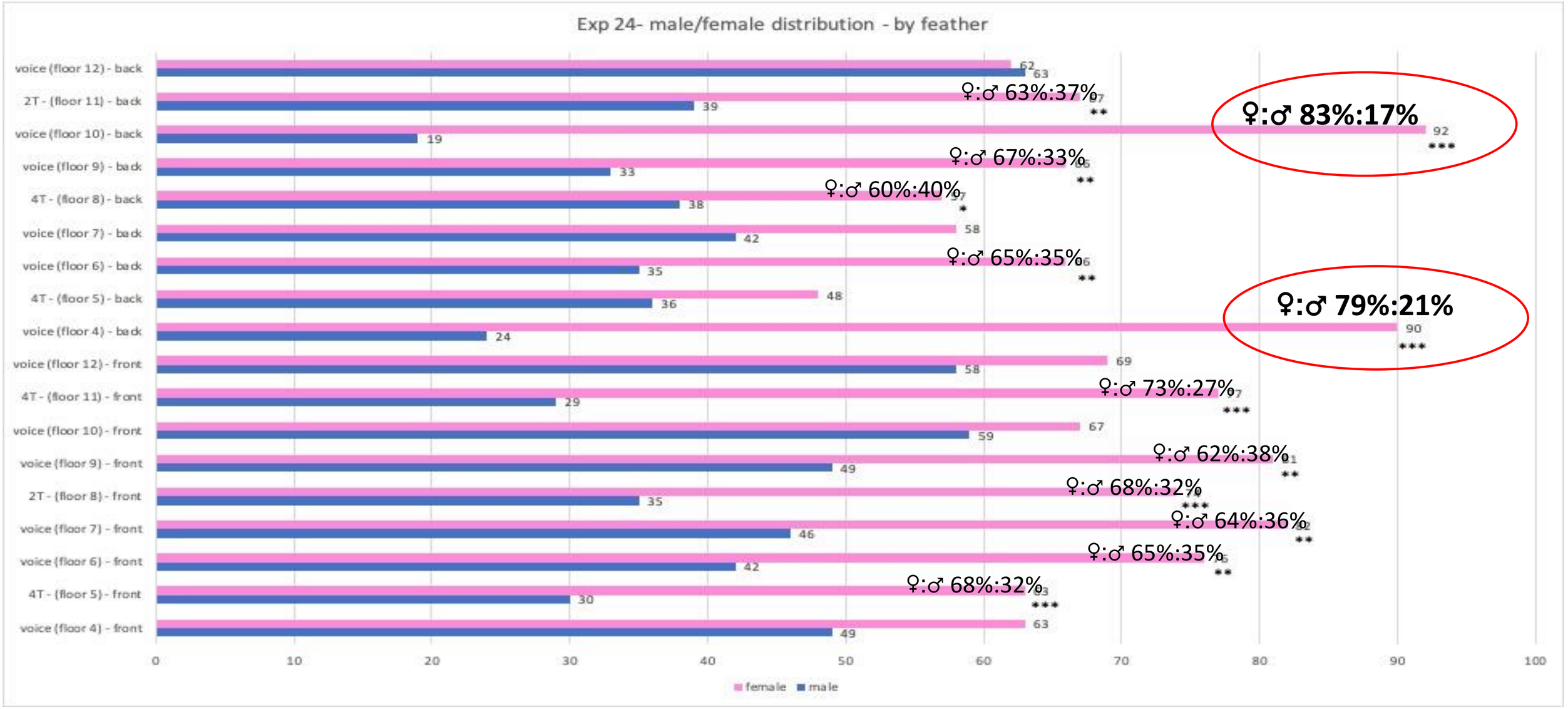


Back of the trolley had 68% hatchability with 22% unfertile eggs

Front of the trolley had very low hatchability (25.2%) due to incubator air flow malfunction

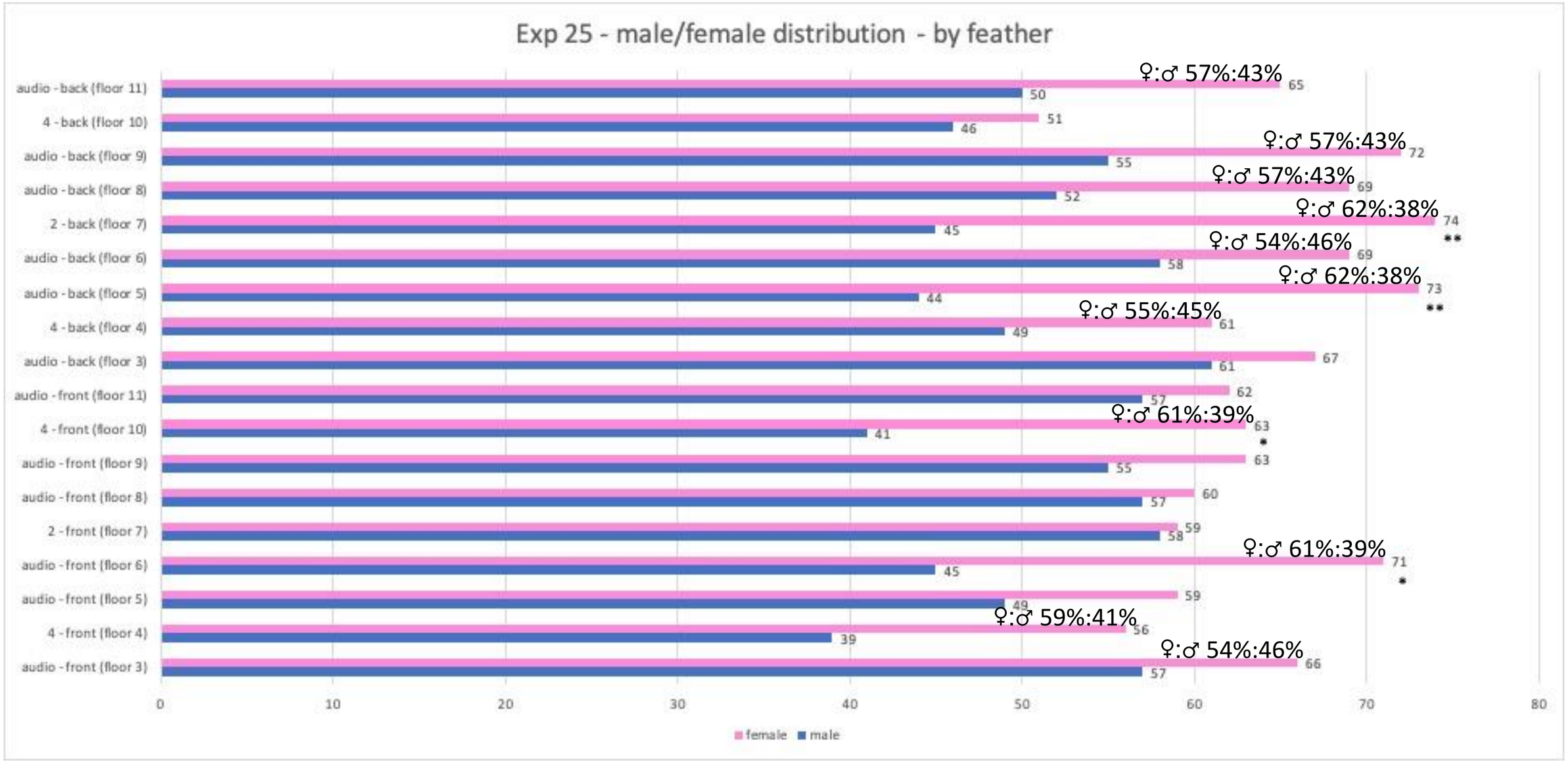
EXPERIMENTAL TRACTION DURING 2022

Location: Israel; Live chicks 1,984 (Female 63%, hatchability 75%)



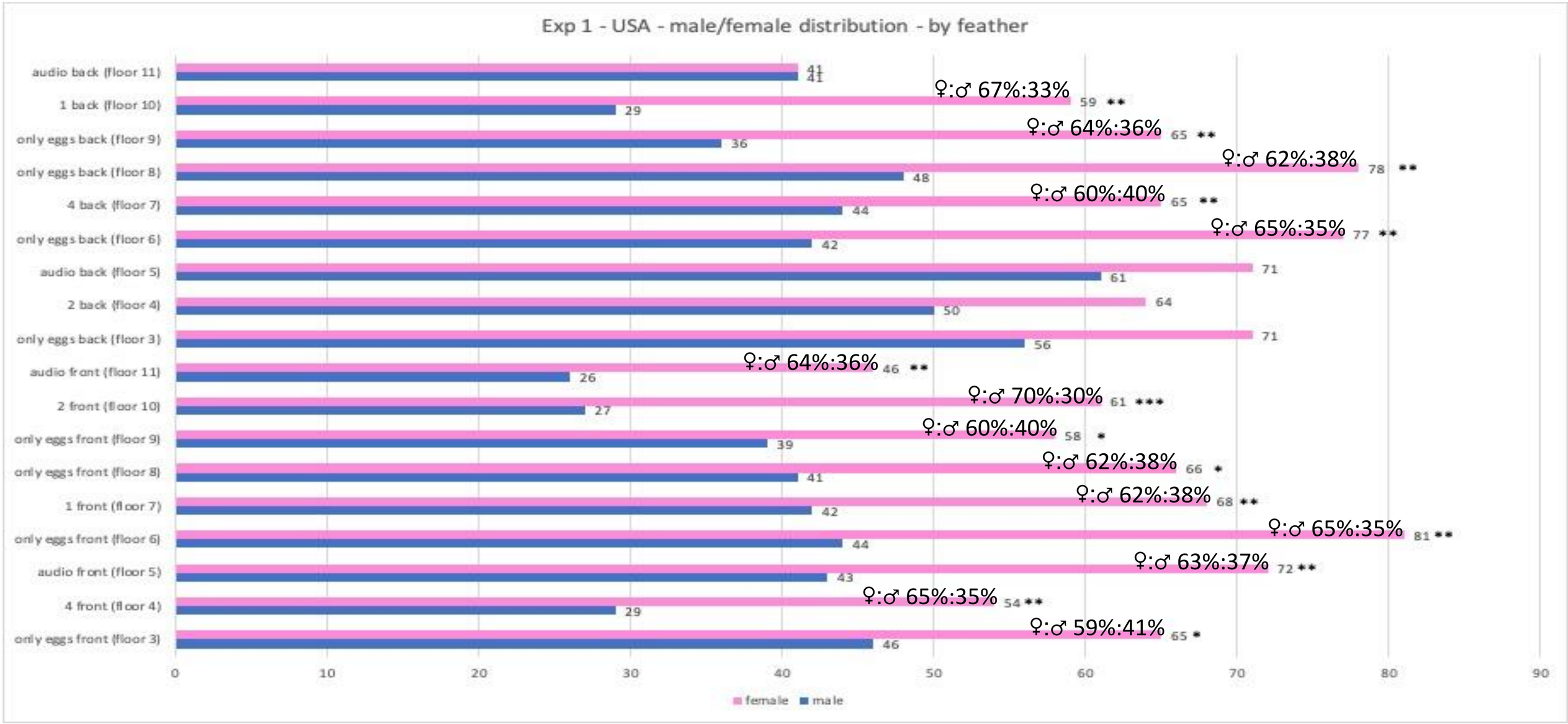
EXPERIMENTAL TRACTION DURING 2022

Location: Israel; Live chicks 2,078 (Female 56%, Hatchability 79%)

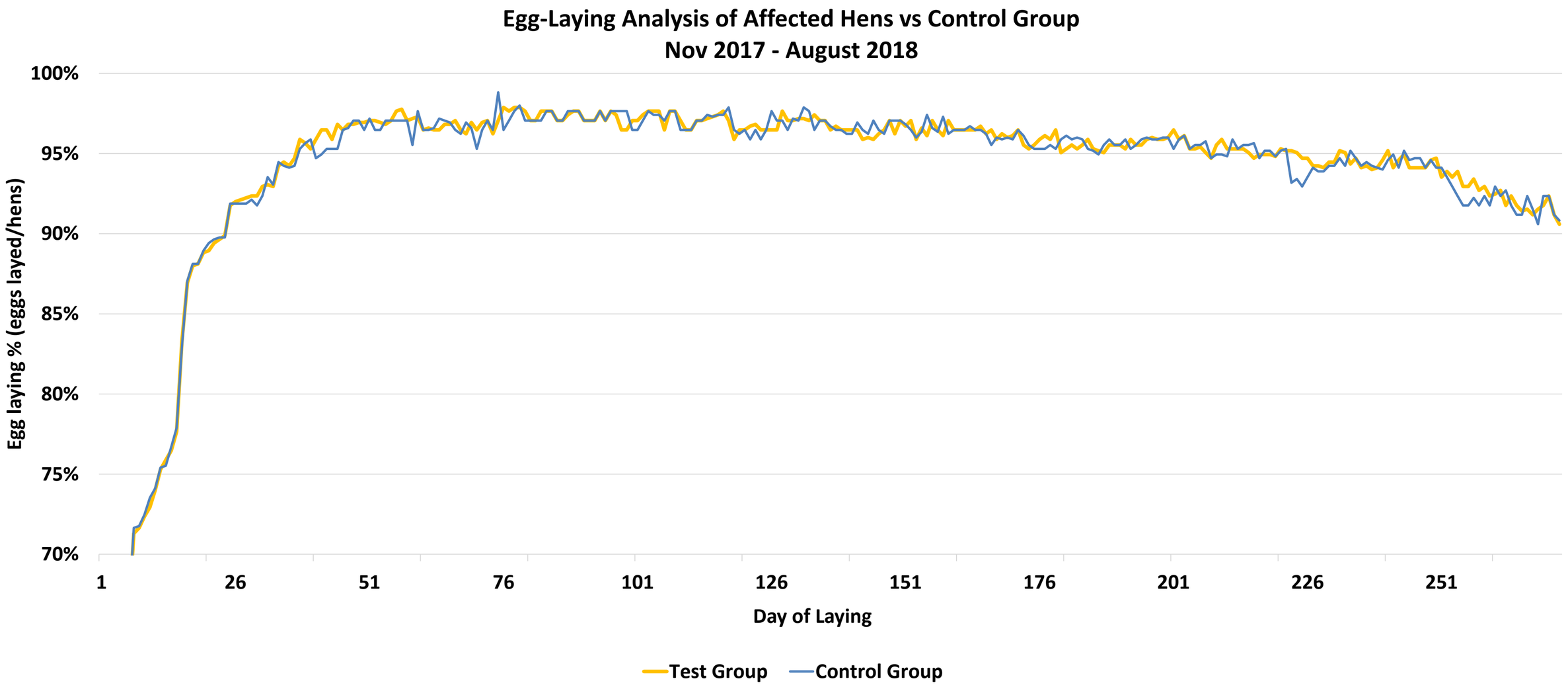


EXPERIMENTAL TRACTION DURING 2022

Location: USA; Live chicks 1,910 (Female 61%, Hatchability 73% vs. control w/ 72%)



GROWING EXPERIMENT RESULTS



Identical laying performance between test group (n=850) and control group (n=20,000)

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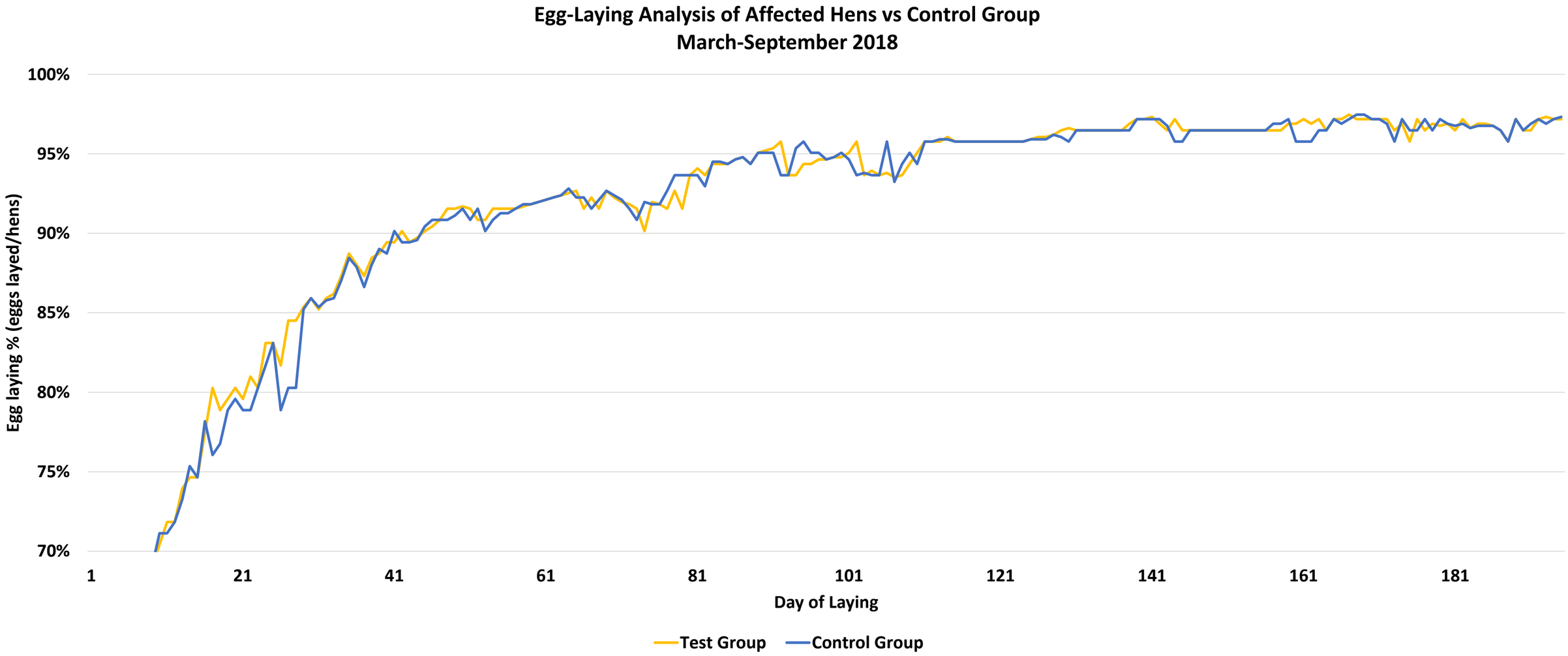
GROWING EXPERIMENT RESULTS



Identical laying performance between test group (n=710) and control group (n=20,000)

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PILOT OVERVIEW

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WHAT IT LOOKS LIKE

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PILOT OVERVIEW AND PROJECT DESCRIPTION

Stage	Deliverable	Estimated timeline
Incubators manufacturing	Order & manufacture 2 (Two) 4,800-eggs and 2 (two) 9,600-eggs incubators with SOOS specifications (EMKA)	2 months
Incubator Delivery	From machine vendor Site to Pilot Partner's selected site (EMKA)	1-2 weeks
Incubator installation	• Incubator space specification definition (SOOS) • Basic Installation (EMKA) • Smart tray and voice sensor trays manufacturing & onsite installation (SOOS) • Site preparation & set-up team (Pilot Partner)	1 month
Calibration and dry run	Incubator dry-run and smart tray testing to ensure all systems are functional	1 week
Hatching cycles	• 6 hatching cycles in single-stage incubation: 2,400-4,800 eggs in each cycle • Data collection: Sexing (Vent, Feather), DNA, dissection as needed, birds tagging	6 months
Pullet growing stage	1-2 growing cycles of 1,500-2,000 females until sexual maturity and egg-laying. Data collection in pullet stage will be around: Mortality, diseases, weight	4 months

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THANK YOU!