

2020-REE-1901-F



United States Department of Agriculture

Research, Education, and Economics
Agricultural Research Service

(b) (6)

(b) (6)

2955 Hwy 130 East
Stuttgart, AR 72160

(b) (6)

(b) (6)

@ars.usda.gov

TO:

(b) (6)

FROM:

(b) (6)

DATE:

April 17, 2019

RE:

Adverse event report

In the early afternoon on April 9, 2019, (b) (6) noticed two (2) moribund fish near the shore of pond (b) (6) (0.1-acre pond) which is stocked with approximately 500 channel catfish (700 g average weight). He took a moribund fish to (b) (6) who (b)(5) - Deliberative

(b)(5) - Deliberative

(b)(5) - Deliberative

(b) (6) immediately contacted the PI (Carl Webster) and the fish were monitored.

Later that afternoon, dead fish appeared near the pond bank, as well as moribund fish, so (b)(5) -

(b)(5) - Deliberative

(b)(5) -

D lib

The next day (April 10th), it was decided to (b)(5) - Deliberative

(b)(5) - Deliberative

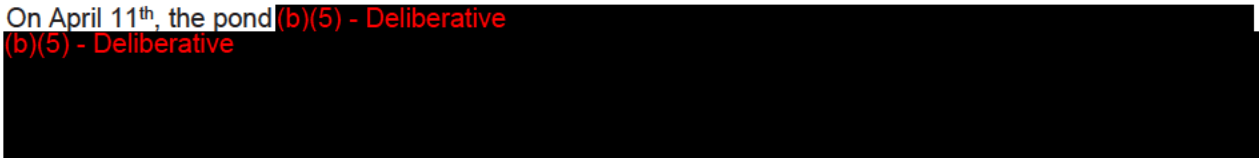
(b)(5) - Deliberative It was noted that the previous weekend, heavy rains (2.5" at SNARC's weather station, but up to 6.5" in the surrounding area) had fallen.

All dead fish from the pond bank were (b)(5) - Deliberative


(b)(5) - Deliberative The pond water level was dropped throughout the evening so that fish could be assessed the following morning so that live fish could be transferred to another pond, or if fish were deemed beyond saving, properly euthanized.

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On April 11th, the pond (b)(5) - Deliberative
(b)(5) - Deliberative



(b) (6), (b) (7)(C)



(b) (6)
(b) (6)



Harry K. Dupree Stuttgart National Aquaculture Research Center

(b) (6)

From: [REDACTED]
Sent: Wednesday, April 17, 2019 9:19 AM
To: (b) (6) - ARS
Cc: (b) (6) - ARS; (b) (6) - ARS
Subject: Incident Report
Attachments: SNARC CWebster adverse incident report-April 2019.pdf

Dear [REDACTED]

Per IACUC P&P attached please find a copy of the incident report that you prepared and submitted to me regarding the acute, unexplained mortality that occurred in pond [REDACTED]

Regards,

(b) (6)

(b) (6)

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<https://www.ars.usda.gov/southeast-area/stuttgart-ar/harry-k-dupree-stuttgart-national-aquaculture-research-cntr/>

Get more information: www.ars.usda.gov



(b) (6)

From: (b) (6) ARS
 Sent: Wednesday, May 29, 2019 7:30 AM
 To: (b) (6)
 Subject: rt 5/19/19

Good afternoon,

On Sunday morning (5/19/19), we received word that of our tanks, Tank Y3 (outside of the tank farm), was experiencing a sudden high number of white bass, *Morone chrysops*, mortalities that had clogged the drain and caused the tank to overflow. At that time, it appeared that we had lost approximately 80% of our initial stocking rate, a loss of 505 fish out of the 641 originally stocked. Many of the fish showed signs of hemorrhage around the fins, especially around the caudal fin/region, and some had light patches on the back of their head similar in appearance to saddleback but located posterior to the dorsal fin. (b)(5) - Deliberative

(b)(5) - Deliberative

(b)(5) - Deliberative

(b)(5) - Deliberative

He reported his finding to our

Attending Veterinarian, Dr. Pat Gaunt. Therefore, we are unfortunately (b)(5) - Deliberative

(b)(5) - Deliberative

Please let me

know if you have any additional questions.

Regards,

(b) (6)

USDA-ARS
 Harry K. Dupree Stuttgart National Aquaculture Research Center
 2955 Highway 130 E
 Almyra, AR 72003



United States Department of Agriculture
Research, Education, and Economics
Agricultural Research Service

30 May 2019

TO:

(b) (6)

FROM:

(b) (6)

(b) (6)

(b) (6)

SUBJECT: Tank Farm Tank Y3 White Bass Mortality Incident

Attached please find an incident report from Candis Ray reporting mortality of white bass being held in Tank Farm tank Y3. [REDACTED] examined the fish, reported his findings to our Attending Veterinarian, and (b)(5) - Deliberative

(b)(5) - Deliberative

Note that I was informed of the incident on Sunday 19 May 2019 but because of an intense ponds sampling schedule for an on-going research project, (b) (6) and I only now have had time to prepare the report.



United States Department of Agriculture

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June 3, 2019

TO:

(b) (6)

Harry K. Dupree Stuttgart National Aquaculture Research Center
2955 HWY 130 E
Stuttgart, AR 72160

(b) (6)

(b) (6)

FROM:

(b) (6)

Harry K. Dupree Stuttgart National Aquaculture Research Center
2955 HWY 130 E
Stuttgart, AR 72160

RE: Incident report, Animal Protocol Number: 2018-006

On May 31st, 2019 there was a mortality incident at the Tank Farm, where 85 white bass (*Morone chrysops*) were lost from Tank #L2 (2ft tanks; n~100 fish/tank; mean weight ~40g). On this date, my team, including myself (b)(5) - Deliberative

(b)(5) - Deliberative

Based on this evidence, and as of this report no further losses to that tank or any other tank at the Tank Farm under this protocol, I surmise two factors are the cause of this DO event:

(b)(5) - Deliberative

I will take the following corrective measures:

(b)(5) - Deliberative

(b)(5) - Deliberative

This correction will commence immediately.

(b)(5) - Deliberative

(b)(5) -

Deliberative

This correction will commence immediately.

Harry K. Dupree Stuttgart National Aquaculture Research Center
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Voice: 870-672-8278 • Fax: 870-673-7710 • Email (b) (6) y@ars.usda.gov



United States Department of Agriculture
Research, Education, and Economics
Agricultural Research Service

21 June 2019

TO:

(b) (6)

FROM:

(b) (6)

(b) (6)

SUBJECT: Protocol 2018-006 Incident

Attached please find an incident report dated 3 June 2019 from (b) (6) reporting mortality of white bass fingerlings being reared under Protocol 2018-006, Offseason spawning of white bass. This report was submitted to me on 3 June, but I submit it to you only now because I was busy in the lab all day on 3 and 4 June, and was on annual leave from 5-19 June.



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Research, Education, and Economics
Agricultural Research Service

June 21, 2019

(b) (6)

culture Research Center

Stuttgart, AR

RE: Striped bass incident on June 19, 2019

On June 19th, 2019 at 6:15am a few striped bass (*Morone saxatilis*) were noted around the perimeter of pond E2 (1 ac.) by a summer intern feeding ponds. The electric aerator was operating. The incumbent, (Support SY, Matt McEntire) was promptly notified. The dissolved oxygen (DO) was less than 2.0 mg/L according to measurements taken with a hand-held meter. (b)(5) - Deliberative

(b)(5) - Deliberative

Fish Health Specialist and Support SY, Bradley Farmer, offered his assistance in examining any of the fish in Pond E2 for disease; 11 fish were evident along the pond perimeter and removed at that time. However, it was concluded

(b)(5) - Deliberative

The following day, June 20, 2019, at 6:30am the summer intern again alerted the incumbent to the presence of dead fish around the perimeter of pond E2. A total of 537 dead striped bass (~25g/fish) (bloated day-old mortalities) were collected & counted, for a total mortality of 548 fish (11 the first day and 537 the second day) from this incident.

Based on the evidence, it appears that the deployed DO probe malfunctioned, producing readings that were higher than actual pond DO. Thus the paddlewheel aerator activated much later than it should have. This malfunction, in combination with a heavy algal bloom, were the main contributors to this low-DO mortality event.

The following corrective measures are being taken:

1. (b)(5) - Deliberative
2. (b)(5) - Deliberative

These correction measures (b)(5) - Deliberative

Regards,

(b) (6)

(b) (6)

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United States Department of Agriculture
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Agricultural Research Service

27 June 2019

TO:

(b) (6)

FROM:

(b) (6)

(b)(5) - Deliberative

SUBJECT: Pond E2 Incident

Attached please find an incident report from (b) (6) reporting mortality of 548 striped bass fingerlings (ca. 25 g/fish) in pond E2 on 19 June 2019. I was informed of the incident early on 20 Jun 2019. (b)(5) - Deliberative
(b)(5) - Deliberative



United States Department of Agriculture
Research, Education, and Economics
Agricultural Research Service

12 February 2020

TO: (b) (6)
(b) (6)

FROM: (b)(5) -
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SUBJECT: Tank Farm White Bass Mortality Incident Report

On 11 February 2020, tank R1 in Building 11 was fed in the morning. After feeding a small amount of uneaten feed clogged the drain screen, thus raising the water level. As the water level rose, the air pressure to tank R1 was reduced, resulting in insufficient aeration. With the post-feeding dissolved oxygen (DO) drop, and the low air pressure, the DO decreased to 2.84 mg/L. (b)(5) - Deliberative
(b)(5) - Deliberative
(b)(5) - Deliberative However, 30 minutes later all remaining fish in the tank had died.

Overall 255 juvenile white bass fish died with a total weight 4035.2 g (average weight 15.8 g). (b)(5)
(b)(5) - Deliberative

Corrective actions that were taken during this period:

- 1) (b)(5) - Deliberative
- 2)
- 3)

(b)(5) - Deliberative

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14 February 2020

TO:

(b) (6)

FROM:

(b) (6)

(b) (6)

SUBJECT: Tank Farm Incident

Attached please find the incident report I received from Matt Barnett on 12 February 2020 regarding white bass mortality at the tank farm (255 fish, 15.8 g/fish; protocol 2018-006.3) that occurred on 11 February. (b)(5) - Deliberative

(b)(5) - Deliberative

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