



# Bureau for Resilience, Environment, and Food Security

## INITIAL ENVIRONMENTAL EXAMINATION AMENDMENT

### PROJECT/ACTIVITY DATA

<b>Project/Activity Name:</b>	Feed the Future Innovation Lab for Horticulture
<b>Geographic Location:</b>	West Africa - Ghana, Mali, Nigeria, Guinea Bissau, Niger
<b>Amendment (Yes/No), if Yes indicate # (1, 2...):</b>	Yes - Amendment 7
<b>Implementation Start/End Dates (FY or M/D/Y):</b>	10/1/2021 – 09/30/2026
<b>Specify Amended End Date:</b>	September 30th, 2026
<b>Solicitation/Contract/Award Number:</b>	7200AA21LE00003
<b>Implementing Partner(s):</b>	University of California, Davis
<b>REFS Tracking ID:</b>	REFS-24-09-003
<b>Tracking ID of related IEEs:</b>	<a href="#">BFS-20-03-002</a> , <a href="#">RFS-23-09-004</a>
<b>Tracking ID of Other, Related Analyses:</b>	None

### ORGANIZATIONAL/ADMINISTRATIVE DATA

<b>REFS Implementing Office:</b>	REFS Center for Agriculture-Led Growth (CA)
<b>Other Involved Operating Units:</b>	USAID/Ghana, /Mali, /Nigeria, /Guinea Bissau, /Niger
<b>Prepared by:</b>	Daniel Bailey, Archie Jarman
<b>Date Prepared:</b>	8/19/2024

### ENVIRONMENTAL COMPLIANCE REVIEW DATA

<b>Analysis Type:</b>	Initial Environmental Examination (IEE) Amendment
<b>Environmental Determination:</b>	Categorical Exclusion; Negative Determination with Conditions
<b>IEE Expiration Date:</b>	September 30th, 2026
<b>Climate Risk Management Analysis:</b>	2 low / 2 medium risks identified and addressed

**PROJECT/ACTIVITY SUMMARY**

This amendment amends Amendment #1 for the sub-activity "Feed the Future Innovation Lab for Horticulture 2", West Africa Regional IEE. The purpose of this amendment is to allow the use of specific fertilizers and pesticides in the table below by the project Implementing Partner. Additionally, this Amendment adds the country of Niger to the West Africa Regional IEE portfolio. Any pesticide use in Niger will be covered under the [Resilience and Economic Growth in the Sahel – Enhanced Resilience \(REGIS-ER\) PERSUAP](#).

For Niger, activities include establishing field trials that are primarily for capacity strengthening purposes to demonstrate practices such as intercropping, use of drip irrigation, conservation agriculture, along with others. Project teams will be responsible for these field sites. Additionally, a demonstration area displaying low-cost production and postharvest management technologies will be established. Selected technologies on display will be suitable for the unique environment (including available materials) for Niger. A social network analysis will be conducted to understand the network of stakeholders in horticulture value chains, gather market information, and learn about challenges in horticulture value chains. Low-cost postharvest and irrigation innovations will be scaled to producers in combination with capacity strengthening activities. Across the project, several capacity strengthening activities will occur, including for awardees and non-awardees of a small innovation competition held to promote entrepreneurship and for effective seed storage at the micro-level. Institutional capacity strengthening through collaborations with organizations already engaged in horticulture in Niger will occur.

All other information, environmental determinations, and terms described in the original IEE and amendments remain in effect and must be followed by the Implementing Partner.

**CLIMATE RISK MANAGEMENT**

No new climate risk determination is identified, and the Climate Risk Screening table in RFS-23-09-004 is still valid. This amendment covers the addition of fertilizer and pesticide use at the test locations and with a limited number of farmers participating in the research.

**IMPLEMENTATION**

In accordance with 22CFR216 and Agency policy, the conditions and requirements of this document become mandatory upon approval. This includes the relevant limitations, conditions and requirements enumerated in this document as well as any BEO Specified Conditions of Approval.

Approval:	clear	9/5/2024
	Jennifer Tikka, REFS Center for Agriculture-Led Growth Director	Date
Clearance:	clear	8/30/2024
	Daniel Bailey, A/COR	Date
Clearance:	clear	9/4/2024
	Faith Bartz Tarr, REFS/CA, Climate Integration Lead	Date
Concurrence:		
	William Thomas, REFS Bureau Environmental Officer	Date

Table 1. List of Requested Fertilizers in this Amendment

<b>Product Name/Type</b>	<b>Organic or Inorganic</b>	<b>Application</b>
NPK 15:10:5+15S	Inorganic	The inorganic material will be applied during the preparation of the culture bed. It can be placed in a narrow trench in the center of the bed and then covered with soil or applied at the rootzone. The soil preparation is done manually using a hoe.
Urea	Inorganic	The inorganic material will be applied during the preparation of the culture bed. It can be placed in a narrow trench in the center of the bed and then covered with soil or applied at the rootzone. The soil preparation is done manually using a hoe.
Processed poultry litter	Organic	The organic material will be applied during the preparation of the culture bed. It is placed in a narrow trench in the center of the bed and then covered with soil. The soil preparation is done manually using a hoe.
Compost	Organic	The organic material will be applied during the preparation of the culture bed. It is placed in a narrow trench in the center of the bed and then covered with soil. The soil preparation is done manually using a hoe.
Poultry litter + lime	Organic	The organic material will be applied during the preparation of the culture bed. It is placed in a narrow trench in the center of the bed and then covered with soil. The soil preparation is done manually using a hoe.
Vermicompost Organic	Organic	The organic material will be applied during the preparation of the culture bed. It is placed in a narrow trench in the center of the bed and then covered with soil. The soil preparation is done manually using a hoe.
Composted poultry litter	Organic	The organic material will be applied during the preparation of the culture bed. It is placed in a narrow trench in the center of the bed and then covered with soil. The soil preparation is done manually using a hoe.

Table 2. List of Requested Pesticides in this Amendment

<b>Active Ingredient</b>	<b>Pesticide Type</b>	<b>PERSUAP Title</b>	<b>EPA Reg Number</b>	<b>Country</b>
Artisanal neem	Pesticide	<a href="#">Programmatic PERSUAP Nigeria</a>	n/a	Nigeria