

# Smart Innovation for a Better World

2025  
AMERICAN VANGUARD  
SUSTAINABILITY REPORT



# 2025 AMERICAN VANGUARD™ Sustainability Report



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# Corporate Sustainability Strategy



American Vanguard Corporation (NYSE:AVD) is a diversified specialty and agricultural products company that develops, manufactures and markets solutions for crop protection and nutrition, turf and ornamentals management, and commercial and consumer pest control. We are known in the trade under the name of our principal operating subsidiary AMVAC Chemical Corporation (or, simply, AMVAC™).

We are committed to environmental and social responsibility throughout our global organization. We strive to improve the well-being of our employees and those in our communities, while safely and responsibly operating our business with a sense of mindfulness – toward the climate, toward the environment and toward the good of humans and other species.

We continue to develop our diversified platform of biorational and specialty nutrition GreenSolutions™ products, like AMVAC Greenplants™ micronutrients, which help plants absorb nutrients more efficiently, save water, and reduce equipment use (please see our website: <https://www.american-vanguard.com/strategic-areas/greensolutions>).

Our investments in Digital Agriculture solutions and technologies enable growers to leverage their data to apply products more precisely resulting in energy and cost efficiencies, with minimal waste and improved worker safety.

Additionally, American Vanguard™ is dedicated to environmental stewardship, and we annually provide updated metrics on our greenhouse gas emissions, total energy use, water consumptions, and waste generation. We have retained a globally-recognized third-party audit firm to give limited assurance to the data supporting certain of these metrics under ISAE 3000.

## COMPANY PROFILE

Our strategy rests on four pillars– i) Proven Chemistries, which are the Core business, through innovation of time-proven conventional products; ii) Precision Agriculture innovation, including SmartBox+™ precision application and Ultimus™ measure/ record/ verify technologies; iii) GreenSolutions™, our global platform of over 120 biorational products including fertilizers, microbials, specialty nutritionals, and non-conventional products; and iv) Solutions Provider, relying on a unique and solutions-focused R&D organization in the areas of technology, innovation and sustainability for plant and soil health.

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**\$547** million 2024 Net Sales

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**755** employees as of 12.31.2024

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Operations in **19** Countries

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## REGIONAL OFFICES

LATAM, Mexico, Brazil, Australia

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## RESEARCH AND DEVELOPMENT FACILITIES

Commerce, CA, USA; Morrisville, NC, USA; San Carlos, Costa Rica

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**1,000+** Product Registrations In **56** Nations

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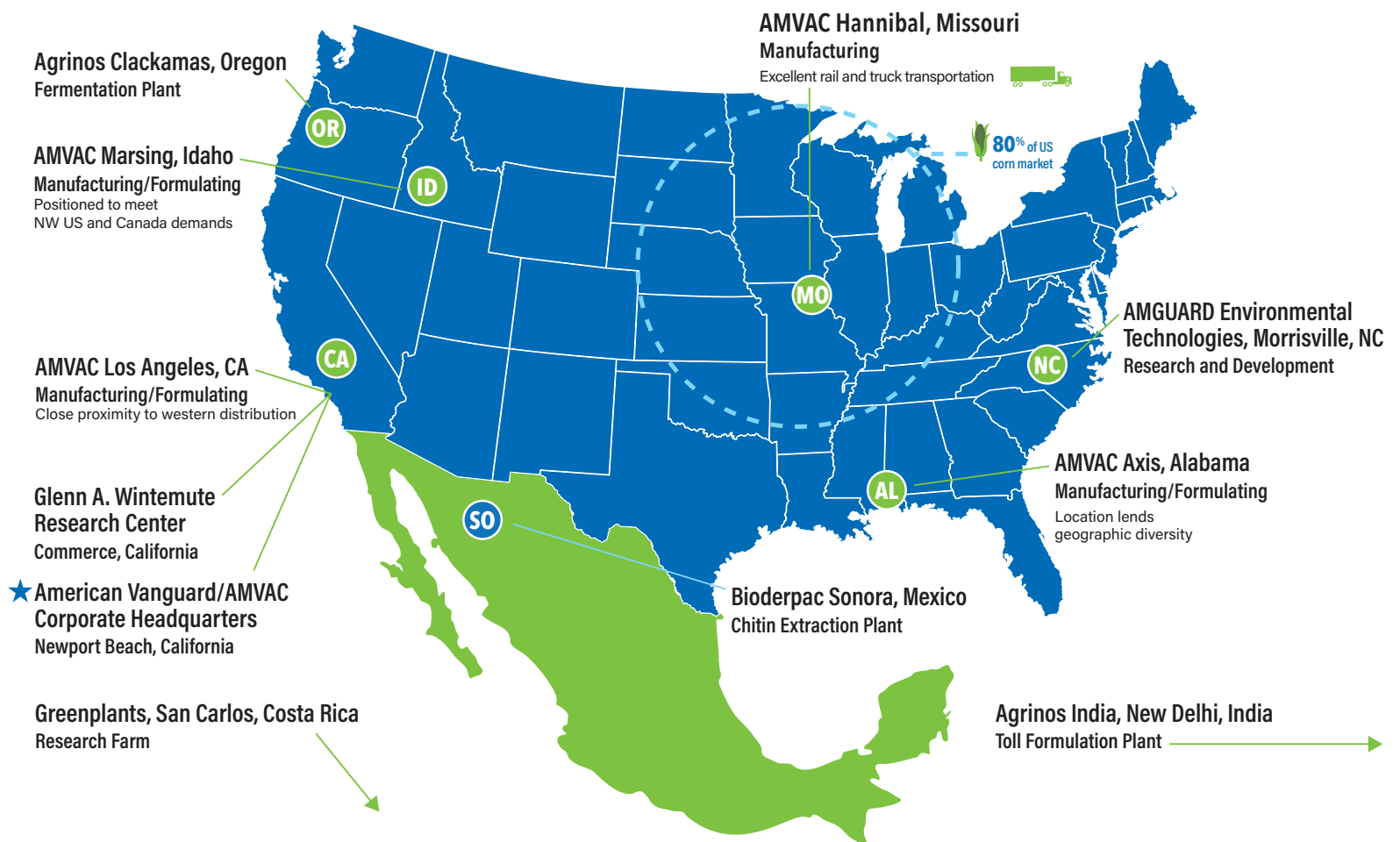
**120+** Key Biorational Products

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# Strategic Presence to Serve our Global Customers

AMVAC operates six manufacturing and formulation facilities in North America and one toll formulation plant in India, focusing on safe and efficient production. Additionally, we own and operate two Research & Development laboratories in the U.S. and a research farm in Costa Rica. We source raw materials both domestically and internationally, and have strengthened our supply chain by qualifying additional raw material sources

to reduce single-source risk. We closely manage logistics and transportation to ensure safe and cost-efficient handling. We maintain long-standing relationships with our supply partners, conduct quality assurance reviews, and ensure all suppliers adhere to the quality, security, and legal standards of our Supplier Code of Conduct (see, <https://www.american-vanguard.com/esg>), under the ESG tab).





# Vision Mission Values

At American Vanguard—along with our operating companies AMVAC and AMGWARD™—we are driven by a shared purpose: to be the trusted provider of proven agricultural and environmental solutions. We believe growth begins with people—our most valuable asset—and we are committed to creating a culture where innovation thrives and opportunity is cultivated.

We don't just protect crops—we cultivate careers. Whether through AMVAC's focus on crop protection and GreenSolutions™ or AMGWARD's commitment to specialty markets, our employees

are at the heart of everything we do. We invest in the safety, well-being, skill development, and advancement of our employees, because we know that empowered people drive performance.

Our stated mission is to “Create value through unwavering customer focus, collaborative innovation, and responsible stewardship.” Guided by these principles, we act with integrity, foster the well-being of employees and communities, and deliver high quality products and services that make a difference.

## VISION

The trusted provider of proven agricultural and environmental solutions.

## MISSION

Create value through unwavering customer focus, collaborative innovation, and responsible stewardship.

## VALUES

### PEOPLE

Focus on safety and well-being of our people, partners, and community.

### CHARACTER

Act with integrity and keep our promises.

### PERFORMANCE

Drive results through teamwork.

### INNOVATION

Provide unique and novel solutions for our partners.

### CUSTOMER FOCUS

Deliver high-quality products and services to elevate the customer experience.





# SAFETY:

PROTECTING EMPLOYEES,  
COMMUNITIES, AND THE ENVIRONMENT





At American Vanguard, we continue to prioritize a Safety-First culture by focusing on the most critical risks in our operations. In 2024, we launched our “Life Saving Rules” campaign — a foundational program to identify, communicate, and manage the most serious risks across our manufacturing sites. This initiative is designed to ensure that every employee, contractor, and visitor understands:

- The most dangerous risks in the workplace
- The controls in place to manage those risks
- How we verify that those controls are effective

By starting with the core principles of risk control and communication, we are building a common language of safety across our global operations. As the program matures, the Environment, Health & Safety (EHS) team continues to expand and refine the Life Saving Rules by developing clear, measurable controls and increasing awareness at all levels of the organization.

To support this, we also rolled out a new EHS reporting system company-wide in 2024. This tool enhances our ability to report and track EHS incidents, near misses, and hazards. It provides a transparent and standardized way for all employees to raise concerns and ensures each report receives proper investigation and follow-up. This centralized

reporting tool also allows easier sharing of lessons learned among production and safety teams and among company sites.

We also began implementing the SafeStart™ system in early 2025 to introduce a different way of managing human factors, such as rushing, complacency, frustration, and fatigue, to reduce risk and improve safety and performance.

The goal is continuous improvement—driving down the severity and frequency of incidents and reinforcing our commitment to a proactive EHS culture.





# Employee Safety and Health

AMVAC'S proactive and robust process safety programs play a central role in safeguarding our employees, our communities, and the environment.

In parallel with these efforts, we began developing a more robust Environmental Management System (EMS) in 2024. This system provides a structured approach to compliance, risk management, and continual improvement. Moving forward, all manufacturing sites will be audited against the EMS to ensure we are:

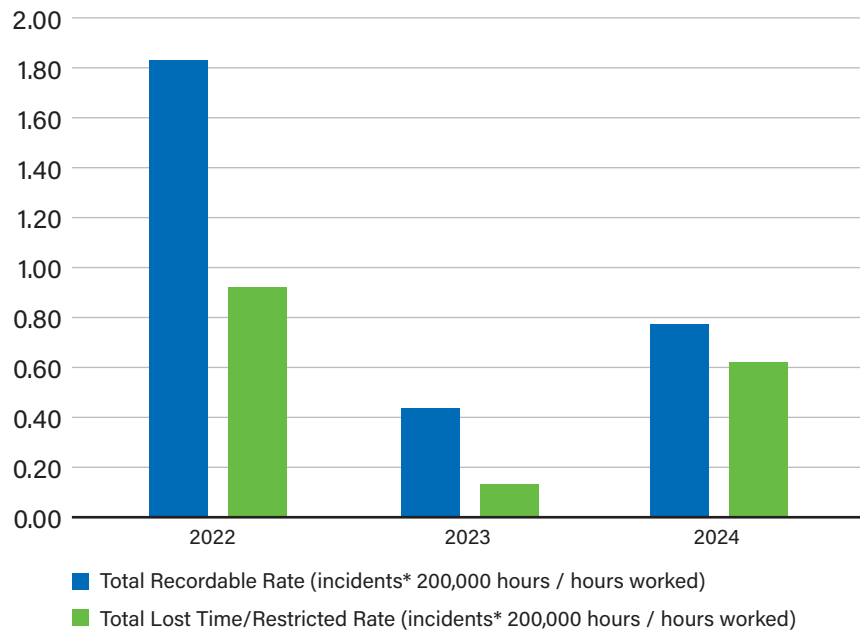
- Protecting the environment
- Safeguarding our communities
- Maintaining our license to operate

Together, these efforts mark a significant evolution in how we approach safety, environmental stewardship, and sustainability. They reflect our unwavering belief that protecting people, communities, and the environment is not just a legal obligation — it is a core value that defines who we are as a company.



## Recordable Occupational Incident Rates

| GRI Indicator | SASB Reference |
|---------------|----------------|
| 403-9         | RT-CH-320a.1   |



*\*Directly supervised contractors are included in incidents; however, hours worked by contractors are not included.*



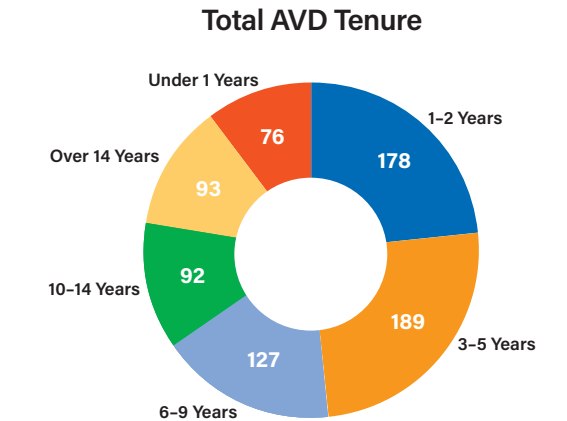
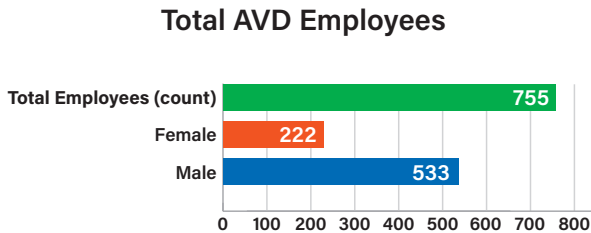
# Making a Difference

American Vanguard is a destination for highly qualified employees who are drawn to a workplace where they can make a difference. By rewarding achievement and giving our employees a voice, we attract a diverse array of employees who want to make a difference in their careers, in the company and in the communities that we serve. And fostering a performance-driven culture has empowered the Company to optimize retention, even amidst the challenges of a competitive employment market.

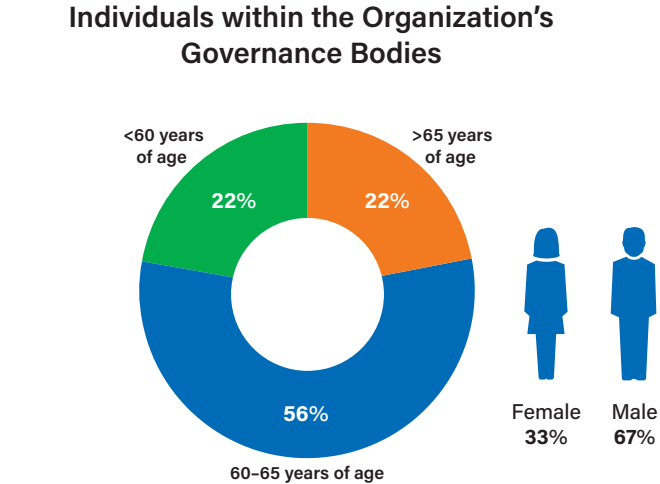
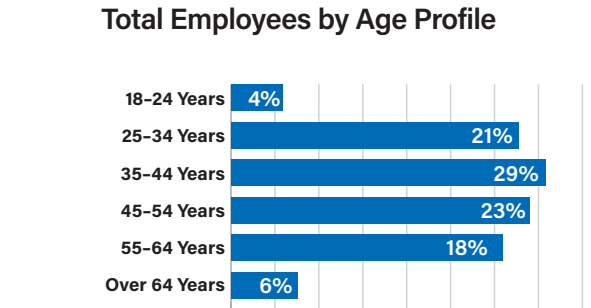
We believe that, beyond being essential to our operations, our people have inestimable worth independent of our business. As outlined in our Human Rights Policy (see, [www.american-vanguard.com](https://www.american-vanguard.com) under the ESG tab: <https://www.american-vanguard.com/esg>), we believe that it is fundamental to our corporate responsibility that we recognize, respect and nurture the freedom and dignity of all persons. Accordingly, we have insinuated that belief throughout the fabric of our operations in our approach toward our employees.



## AVD GOVERNANCE AND WORKPLACE (as of 12/31/24)



| GRI Indicator | SASB Reference |
|---------------|----------------|
| 405-1         | N/A            |







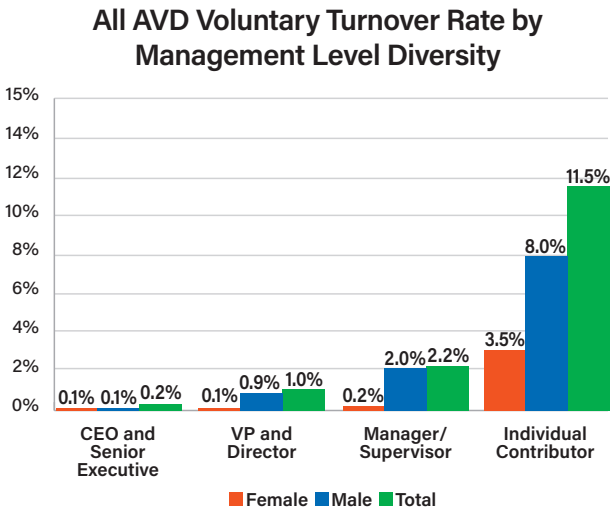
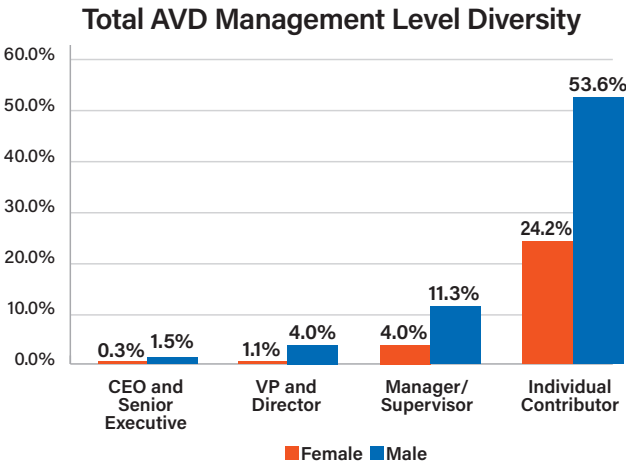
Our management style is to solicit ideas from employees, involve them in implementation and give them recognition for ideas that succeed. For example, personnel from virtually any department (be it sales, technology, product development or otherwise) can submit ideas to our stage gate process for consideration and potential funding. This process continues to be a source of new product ideas that has enabled us to launch several new formulations and other solutions on

an annual basis. Similarly, our Beekeeper platform is a company-only social media channel on which employees anywhere in the world can report on their accomplishments, commendations of others and local developments.

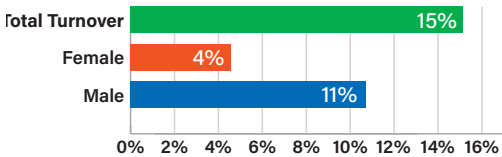
These ideas flow from a diverse and engaged workforce, from our Board of Directors and including all levels of employees. For transparency, we are providing additional details and metrics in the Governance and Workplace charts in this section. Three of nine members (33%) of our board of directors are female and two of nine (22%) are from underrepresented groups (Latinx). Based upon the Company's most current EEO-1 ("Equal Employment Opportunity") Report, representation of African Americans in our domestic workforce exceeds the prevalence of that group in the national population, while representation of Hispanic personnel is slightly below the national average.

| GRI Indicator | SASB Reference |
|---------------|----------------|
| 405-1         | N/A            |

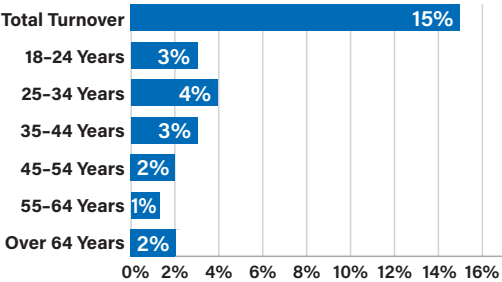
AVD GOVERNANCE AND WORKPLACE (as of 12/31/24), continued



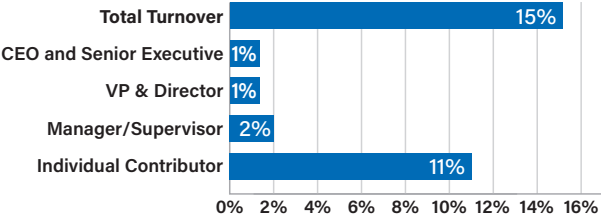
All AVD Voluntary Turnover Rate (Percentage)



All AVD Voluntary Turnover Rate by Age Profile (Percentage)



All AVD Voluntary Turnover Rate by Management Level





# Together for a Sustainable Future



Recreational hike in Tenorio Volcano National Park, promoting an active-sport lifestyle, organized by the sports and recreation committee, Costa Rica.

In this section we feature the strong people-centric culture within our SACC business, that is the regional footprint extending from the Southern cone to the Andean region, Central American and the Caribbean. We believe that sustainability is not just a goal, it is a way of living and working. In every corner of our region, our employees are driving positive change: for themselves, their communities, and the planet.



Our Panamanian colleagues celebrating Mother's Day.



Observing the 2024 pineapple crop at the Frugalp Estate.



Recreational walk in Ciudad Esmeralda (San Carlos) promoting unity and teamwork.



Employees participate in occupational health tests in Punto Verde, Ecuador.



Team Building Event, Ecuador.



Team Gathering in Honduras

We care for those who care for our future. We promote social connection and healthy lifestyles through physical activity, team building events, health days, and wellness spaces.



## Connected through Celebration

We value our roots, traditions, and achievements. Celebrations unite us and strengthen our sense of belonging.

In First Quarter 2025, we celebrated the 10th anniversary of AMVAC's opening in Honduras and is now one of the leading companies in the region. Tomás Sánchez, Manager, AMVAC Honduras, gives credit to AMVAC Honduras' high-quality technical team members who are making a difference in servicing our customers with innovative products in the plant protection and nutrition niches to offer solutions in all segments.

We are a company with soul, with a team that transcends borders to build a sustainable legacy. We thank each of our employees for being part of this story.



*In Panama, we recognized and honored colleague Everson Torres for his first 5 years in the company, August 1, 2024.*



*For Halloween, AMVAC Costa Rica employees come to work in costumes, which gives the employees a space for imagination, humor, and a bit of fun.*



*AMVAC Costa Rica employees celebrating together in a space for recreation and leisure. Fostering the creation of bonds and unity among collaborators from different departments.*



*Honduras Team celebrating 10th anniversary of AMVAC Honduras.*



# AMVAC's SmartBox+™

## Proven to be the Standard in Closed Delivery Systems

AMVAC's SmartBox+™ application system utilizes the efficiency and accuracy of precision application to protect growers and the environment.

Our SmartBox+™ application system has proven to be the standard in closed delivery systems for over 20 years. The system has been refined and improved to utilize patented state-of-the-art technology to ensure accurate product application, thus minimizing overapplication to protect the environment while maximizing efficiency.

Agronomists develop pressure-specific prescriptions using a variety of factors (e.g., soil sampling, historical yield data, elevation, etc.) that are uploaded directly into the ISO-based



SmartBox+ control display. Once uploaded, the system takes care of the rest, automatically dispensing the prescribed rate at geo-specific locations in each field.

The system's accurate speed inputs from GPS or radar combined with state-of-the-art flow metering and flow-sensing functions result in a precise, consistent, and uniform application to ensure products are applied exactly where needed and in the exact amount prescribed.

### Adoption of Technology Innovation in Agriculture

Wide-scale adoption of application technology is critical to sustain a safe, affordable, and abundant food supply. SmartBox+ system's many user-friendly features enable such wide adoption by growers, both in the U.S. and globally, to reap the environmental, safety, and efficacy benefits of the system:



- An intuitive interface and touchscreen display provides growers with more options and control while offering for quick adoption
- Standard ISO connections and USB port allow for easy data transfer
- As-applied mapping improves record-keeping in real time, displaying application rates and acres treated



### Protects Workers and the Environment

The closed delivery system enhances worker safety by eliminating the need to open, empty, and dispose of bags of product, thus minimizing the potential for incidental exposure or skin contact. The closed containers also greatly reduces the potential for accidental releases of product throughout the transport and delivery chain.

### SmartBox+ Reduces Waste

Minimize misapplication and waste of product by real-time, row-by-row monitoring for flow blockages and positive end-row shutoff

SmartBoxes are re-filled by AMVAC and avoid disposal of single-use containers

SmartBoxes are delivered without packing materials, further reducing waste



## American Vanguard Product Stewardship in Action



*Pedro Tobar and team in Guatemala, Eastern zone, with grower and supplier partners.*

As part of American Vanguard product stewardship activities, our Commercial and Product Development Teams meet with growers and applicators throughout the year and throughout the world. From educating and training growers on proper application techniques, to field visits during the growing season, our technical experts strive to ensure safe, effective, and sustainable product use.

### **Focus on SACC (Southern Cone, Andean, Central America, Caribbean)**

Our SACC Team (Southern Cone, Andean, Central America, Caribbean) values meeting customers and growers in the field and throughout this diverse region which grows pineapple, coffee, melons, bananas and more.

Our team in Guatemala, Eastern zone, met with the technical team from a melon exporter and our supplier partners to visit field trials for a new fungicide for melons.

### **Fertigation project with coffee grower/exporter**

Costa Rica April 2024 – January 2025

A major coffee grower exports its coffee directly, so cup quality is highly relevant to its final product. With AMVAC's advice on fertigation management

using products from our AMGREEN™ portfolio, a cup quality score of 85 was achieved on that plot, the farm's highest score for the 2024–2025 harvest. This technique utilizes fertilizers dissolved in water using drip irrigation, which makes the use of both water and nutrients more efficient. The success of excellent cup quality along with sustainable use of water and fertilizers is allowing us to launch a fertigation management plan with a global coffee retailer.





## Launch of ASPEN™ Fungicide for Coffee, Honduras

AMVAC recently launched ASPEN fungicide for coffee in Honduras. For successful stewardship of this product, AMVAC Honduras conducted ASPEN fungicide training in the central region of Honduras, in partnership with our strategic distributor. More than 80 coffee growers from the region attended to learn about the safe use, proper application, and efficacy of this product. Specifically, Luis Colindres, AMVAC Sales Advisor, Central Zone, Honduras, discussed the most important disease in the region, called ROYA, affecting coffee crops, and the benefits of using ASPEN to control this disease.



German Alfaro, Director GreenPlants

## Biostimulation Training for Sugarcane Cultivation, Honduras

During first quarter 2025, AMVAC Greenplants™ held joint training sessions with the largest sugarcane growers in Honduras at the Honduran Agricultural Research Foundation, La Lima, Cortes. German Alfaro, Director, AMVAC Greenplants, introduced new biostimulation techniques in sugar cultivation, using our Greenplants products and other lines. Technicians from the country's main sugar mills participated, representing 80% of planted acres in Honduras.

## We continue to exceed expectations on our path toward more sustainable agriculture!

Thanks to our efforts in collecting empty containers and educating about Good Agricultural Practices in Costa Rica, in 2024 we were recognized by the Chamber of Agricultural Inputs and the Limpiemos Nuestros Campos (Let's Clean Our



Luis Colindres, Sales Advisor, Central Zone, Honduras

Fields) Foundation through their CuidAgro social responsibility program.

As part of this program, participating agrochemical companies work with our customers to promote and encourage the recycling of containers, thereby keeping them out of landfills and general trash.

AMVAC Costa Rica is one of the participating companies, and we utilize our third-party transportation service to assist in the collection of containers that are part of the program. At our facility in Muelle, San Carlos, we further support the program by providing a secure space that the program can use as collection center, where they receive our security services as well. Containers are then transported to the recycling center where they are triple rinsed before being recycled.

Participating companies receive a certification demonstrating the amount of containers collected by the program throughout the year. In 2024, over 273 tons of triple-washed empty containers of pesticide products was recovered from Costa Rican fields.





# Environmental Stewardship

American Vanguard is committed to be a part of the global solution to reduce the overall impact on the environment through our focused improvement efforts that minimize energy consumption, greenhouse gas emissions, waste generation, and water consumption at our manufacturing and laboratory facilities. Future updates will include targets and goals to track our progress in this improvement effort.

## Scope of This Report

The scope of this 2025 report covers January 1, 2024 to December 31, 2024. To determine the boundary of the report, an annual survey of site managers at each American Vanguard location is completed to verify the nature and extent of each sites' operations. As such, the scope of this report consists of our six manufacturing sites, two U.S. Research and Development laboratories, research farm in Costa Rica, and tolling operation in India — all of which American Vanguard operationally controls — as well as two leased warehouses in Alabama, U.S. where American Vanguard is the sole occupant. Process emissions at our manufacturing sites are calculated per local regulatory agency reporting requirements and criteria and are provided in the 2025 Performance Table. Our manufacturing processes do not directly produce greenhouse gas (GHG) emissions, other than those emissions related to energy consumption and are included in our Scope 1 and Scope 2 reporting. Excluded from the 2025 report are our office space impacts as these are estimated to have minimal impact on our overall footprint. Changes to the 2025 report include additional disclosures of process safety and transportation incident metrics, and future reporting will incorporate the results of an in-process effort to conduct a thorough Materiality Assessment to drive our efforts in the areas deemed most important to both external and internal stakeholders.

## External Data Assurance

The scope of this assurance includes Energy and Energy Intensity, Scope 1 and Scope 2 Emissions and Intensity, as well as Safety Incidents and Fatalities and Total Recordable Injury Rate and Total Lost Time/Restricted Rate.



American Vanguard's GHG emissions are calculated according to the Greenhouse Gas Protocol. Following Scope 1 guidance for Direct Emissions, we use emission factors such as the Intergovernmental Panel on Climate Change (IPCC) 2006 Guidelines for National Greenhouse Gas Inventories and the U.S. Environmental Protection Agency (EPA) Fugitive Emissions Guidance. For Scope 2 emissions (Indirect Emissions), we follow accepted factors such as the EPA's 2024 eGrid Subregion emission factors and steam factors, and report location-based emissions data in this report, which follow methodologies provided in the Scope 2 guidance of the GHG Protocol. Our reporting is structured to follow the guidance provided by the Global Reporting Initiative (GRI) standards and Sustainability Accounting Standards Board® (SASB) guidance for the Chemical Industry. We also use the global warming potentials provided in the IPCC's Fifth Assessment Report, where available.

American Vanguard retained Environmental Resources Management (ERM CVS) to provide limited assurance for the 2024 environmental data presented in this report. ERM CVS assessed whether the 2024 information and data for specified indicators are fairly presented in accordance with the reporting criteria. ERM CVS conducted three virtual site visits, as well as a thorough review of supporting data systems. Additional documentation to support corporate claims and operational data was provided to ERM CVS as needed. For more information on the assurance standards used, the level of assurance obtained, and the assurance process, please see the ERM CVS Assurance Statement at the end of this report, which details the scope, activities and conclusions of their engagement. This assessment provides a solid foundation for us to establish and measure progress on future aggressive goals for our organization. Local Sustainability Teams will drive projects to meet these goals and will be overseen by our Corporate Sustainability Steering Team which reports to the ESG Liaison to the Board of Directors.

American Vanguard is committed to being a part of the global solution to reduce the overall impact on the environment through our efforts that minimize energy consumption, greenhouse gas emissions, waste generation, and water consumption at our manufacturing and laboratory facilities.

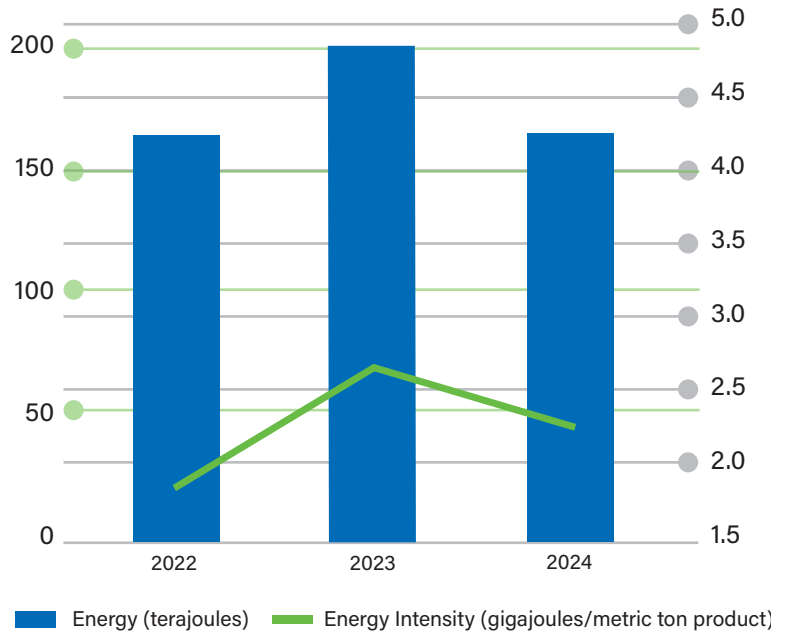


## Energy

The energy we consume for our production, formulating, and laboratories is comprised of: electricity; purchased steam and cooling water; and natural gas and other fuels (such as diesel, gasoline, and propane). Planned production campaigns of intermediates which are relatively lower energy users coupled with planned lower production volumes to allow utilization of existing inventory are reflected in the lower energy consumption as well as lower energy intensity in 2024. In addition, a capital project to upgrade and replace a main chiller unit resulted in over 3,000 pounds less of refrigerant recharge in 2024, as well as a 40,000 gallon reduction in diesel required for the generator to run the backup unit. Energy Intensity is calculated using ton of finished product ready for sale as managed in American Vanguard's inventory management software.

| GRI Indicator | SASB Reference |
|---------------|----------------|
| 302-1,3       | RT-CH-130a.1   |

**Total Energy Consumption (terajoules)**

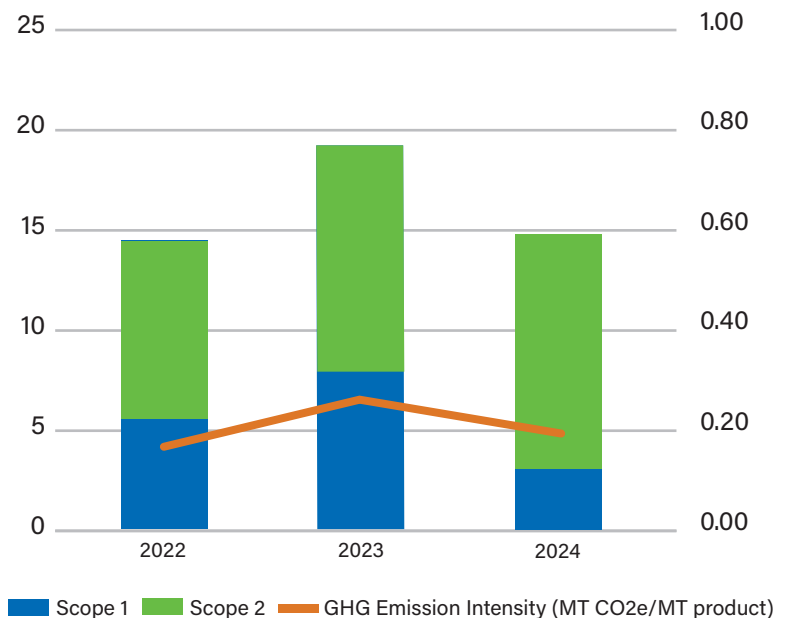


## Greenhouse Gas Emissions

Our greenhouse gas emission inventory includes both Scope 1 (from direct combustion and refrigerants) as well as Scope 2 (from indirect sources such as electricity and purchased cooling water and steam). A substantial reduction to Scope 1 emissions is attributed to the reduction of refrigerants in 2024. In addition, and paralleling the Energy and Energy Intensity trend in 2023, overall GHG Emissions and Intensity were lower in 2024 versus 2023. GHG Emission Intensity is calculated using ton of finished product ready for sale as managed in American Vanguard's inventory management software.

| GRI Indicator | SASB Reference |
|---------------|----------------|
| 305-1,2,4     | RT-CH-110a.1   |

**GHG Emissions (thousand metric tons CO<sub>2</sub>e)**





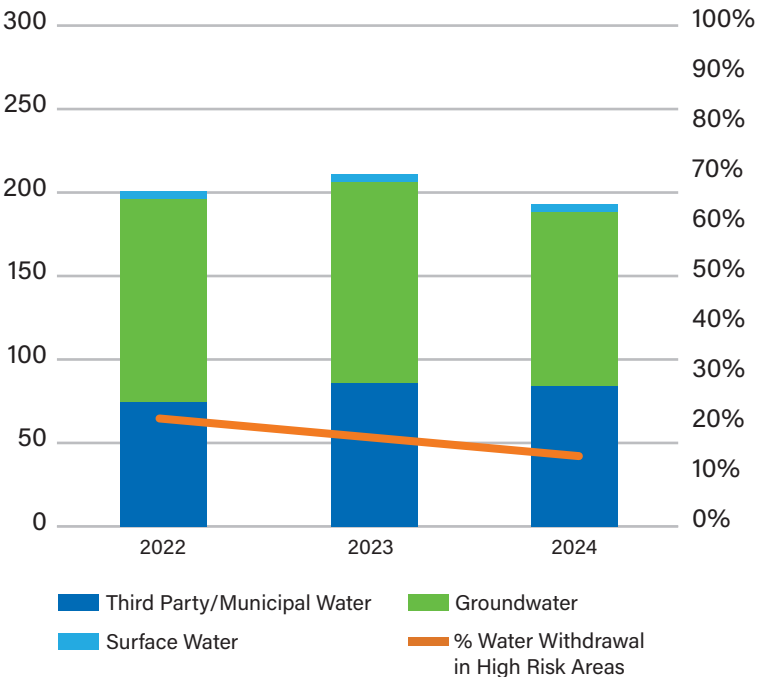
## Water

While some of these data are currently estimated, efforts are underway to install meters where possible to provide the usage detail for identifying and prioritizing specific opportunities for future reductions in overall water withdrawal and consumption.

Additionally, we conducted a thorough water risk assessment of all manufacturing and laboratory sites in 2022 using the Aqueduct Water Risk Atlas tool. Two areas were identified as high risk, and we have prioritized these locations as focus areas for American Vanguard. For example, being well aware of the water stress in their region, one of these two sites (located in Los Angeles, CA) had already begun an initiative to reduce water use in 2021. The team developed and implemented a stormwater capture plan to maximize the amount of rainwater that can be captured and used within the facility. The plan included modifications to install additional filtration systems and equipment to efficiently capture the rainwater and enable transfer of the water to processing areas. The rainwater replaces the amount of municipal water that was used in production. The facility layout is designed to capture an estimated 57,800 gallons per rain event.

| GRI Indicator | SASB Reference |
|---------------|----------------|
| 303-1,3,4,5   | RT-CH-140a.1   |

Water Withdrawal by Source (thousand cubic meters)

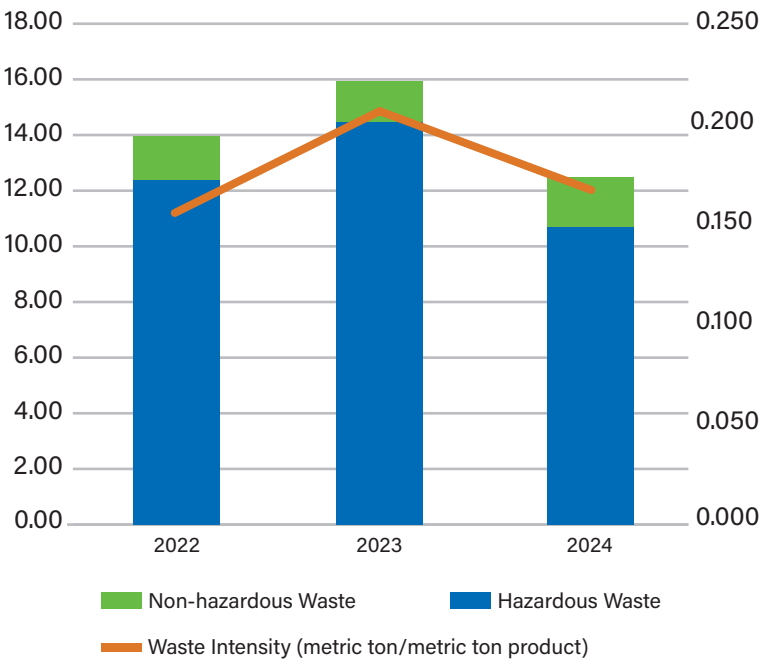


| GRI Indicator | SASB Reference |
|---------------|----------------|
| 306-3,4       | RT-CH-150a.1   |

## Waste

This graph depicts a summary of our total waste accounting classified as Hazardous and Non-hazardous along with the resulting Waste Intensity. We are capturing these data across all our manufacturing and laboratory operations, research farm, tolling operations and warehouses, and as shown here, have experienced an decrease in total waste generated as well as waste intensity in 2024 as compared to 2023.

Total Waste (thousand metric tons)



## American Vanguard 2025 Performance Table

★ 2024 Verified by ERM CVS Limited Assurance

| Environmental                                                                                       |             |             |             | GRI Indicator | SASB Reference |
|-----------------------------------------------------------------------------------------------------|-------------|-------------|-------------|---------------|----------------|
| <b>Total Energy Consumption</b> ★                                                                   | <b>2022</b> | <b>2023</b> | <b>2024</b> |               |                |
| Total Energy (terajoules) ★                                                                         | 166.1       | 202.8       | 166.9       | 302-1         | RT-CH-130a.1   |
| Energy Intensity (gigajoules/metric ton product) ★                                                  | 1.8         | 2.6         | 2.2         | 302-3         |                |
| <b>GHG Emissions - Scope 1 and 2</b>                                                                | <b>2022</b> | <b>2023</b> | <b>2024</b> |               |                |
| Total Scope 1 (thousand metric tons CO <sub>2</sub> e) ★                                            | 5.6         | 7.7         | 3.1         | 305-1         | RT-CH-110a.1   |
| Total Scope 2 (thousand metric tons CO <sub>2</sub> e) ★                                            | 9.0         | 11.4        | 11.6        | 305-2         |                |
| Total Emissions - Scope 1 + Scope 2 (thousand metric tons CO <sub>2</sub> e) ★                      | 14.6        | 19.2        | 14.8        |               |                |
| GHG Intensity (Total metric ton CO <sub>2</sub> e/ metric ton product) ★                            | 0.16        | 0.25        | 0.19        | 305-4         |                |
| <b>Other Emissions (metric tons)</b>                                                                | <b>2022</b> | <b>2023</b> | <b>2024</b> |               |                |
| Volatile Organic Compounds VOCs (metric tons) <sub>1</sub>                                          | 0.5         | 0.4         | .03         | 305-7         | RT-CH-120a.1   |
| NO <sub>x</sub> (metric tons)                                                                       | 11.2        | 10.8        | 7.3         | 305-7         | RT-CH-120a.1   |
| SO <sub>x</sub> (metric tons)                                                                       | 2.7         | 0.7         | 0.5         | 305-7         | RT-CH-120a.1   |
| TRI Releases (metric tons)                                                                          | 6.9         | 6.3         | 5.0         | 305-7         | RT-CH-120a.1   |
| Other Regulated Emissions - CO (metric tons) <sub>1</sub>                                           | 2.7         | 3.0         | 1.9         | 305-7         | RT-CH-120a.1   |
| Other Regulated Emissions - PM (metric tons) <sub>1</sub>                                           | 10.5        | 7.7         | 6.2         | 305-7         | RT-CH-120a.1   |
| TOTAL - ALL OTHER EMISSIONS (metric tons)                                                           | 34.5        | 28.9        | 21.2        | 305-7         | RT-CH-120a.1   |
| <b>Water Withdrawal</b>                                                                             | <b>2022</b> | <b>2023</b> | <b>2024</b> |               |                |
| Total Water Withdrawal (thousand cubic meters)                                                      | 201.0       | 207.0       | 192.1       | 303-3         | RT-CH-140a.1   |
| <i>Third Party Water Withdrawal (thousand cubic meters)</i>                                         | 69.9        | 90.7        | 87.4        | 303-3         |                |
| <i>Groundwater Withdrawal (thousand cubic meters)</i>                                               | 124.0       | 108.8       | 97.6        | 303-3         |                |
| <i>Surface Water Withdrawal (thousand cubic meters)</i>                                             | 7.2         | 7.5         | 7.1         | 303-3         |                |
| Total Water Withdrawal in Regions with High or Extremely High Water Stress (thousand cubic meters)  | 43.9        | 38.1        | 28.2        | 303-1         |                |
| Total Water Discharge (thousand cubic meters)                                                       | 59.7        | 81.0        | 78.8        | 303-4         |                |
| Total Water Consumption (thousand cubic meters)                                                     | 141.3       | 126.0       | 113.3       | 303-5         | RT-CH-140a.1   |
| Total Water Consumption in Regions with High or Extremely High Water Stress (thousand cubic meters) | 25.9        | 18.5        | 18.6        | 303-1         | RT-CH-140a.1   |
| Total Water Consumption Intensity (cubic meters/metric ton product)                                 | 1.6         | 1.6         | 1.5         |               |                |
| <b>Waste</b>                                                                                        | <b>2022</b> | <b>2023</b> | <b>2024</b> |               |                |
| Hazardous Waste Total (thousand metric tons)                                                        | 12.40       | 14.62       | 10.74       | 306-3         | RT-CH-150a.1   |
| <i>Hazardous Waste Directed to Disposal (thousand metric tons)</i>                                  | 12.40       | 14.62       | 10.74       |               |                |
| <i>Hazardous Waste Diverted from Disposal (thousand metric tons)</i>                                | 0.002       | 0.000       | 0.000       |               |                |
| Total of Non-Hazardous Waste (thousand metric tons)                                                 | 1.62        | 1.43        | 1.99        | 306-3         |                |
| <i>Non-Hazardous Waste Directed to Disposal (thousand metric tons)</i>                              | 1.50        | 1.31        | 1.87        | 306-3         |                |
| <i>Non-Hazardous Waste Diverted from Disposal (thousand metric tons)</i>                            | 0.12        | 0.12        | 0.12        |               |                |
| Total Waste Intensity (metric tons/metric ton product)                                              | 0.15        | 0.21        | 0.17        | 306-4         |                |

<sub>1</sub>All emissions are calculated per local regulatory agency reporting criteria



## American Vanguard 2025 Performance Table

★ 2024 Verified by ERM CVS Limited Assurance

| Risk Management & Compliance                                                            | 2022  | 2023  | 2024  | GRI Indicator | SASB Reference |                |
|-----------------------------------------------------------------------------------------|-------|-------|-------|---------------|----------------|----------------|
| Environmental Safety & Health Training Hours (count)                                    | 2,757 | 3,397 | 5,554 |               |                |                |
| Number of Notices of Violation (NOVs) and Notices to Comply (NTCs) (count) <sub>2</sub> | 0     | 1     | 1     |               |                |                |
| Total Quantity of Fines and Penalties (kUS\$) <sub>3</sub>                              | 0     | 3     | 406.5 | 307-1         |                |                |
| Number of Reportable Spills as defined by CERCLA (count)                                | 0     | 0     | 0     |               |                |                |
| Process Safety Incidents Count (PSIC)                                                   |       |       | 0     |               | RT-CH-540.a.1  |                |
| Process Safety Total Incident Rate (PSTIR)                                              |       |       | 0     |               | RT-CH-540.a.1  |                |
| Process Safety Incident Severity Rate (PSISR)                                           |       |       | 0     |               | RT-CH-540.a.1  |                |
| Number of Reportable Transport Incidents                                                |       |       | 0     |               | RT-CH-540.a.2  |                |
| Safety                                                                                  | 2022  | 2023  | 2024  | GRI Indicator | SASB Reference | OSHA Reference |
| Total Number of Fatalities <sub>4</sub> ★                                               | 0     | 0     | 0     | 403-9         | RT-CH-320.a.1  | 29CFR1904.29   |
| Total Recordable Rate (incidents* 200,000 hours/hours worked) <sub>4</sub> ★            | 1.84  | 0.43  | 0.77  | 403-9         | RT-CH-320.a.1  | 29CFR1904.29   |
| Total Lost Time/Restricted Rate (incidents* 200,000 hours/hours worked) <sub>4</sub> ★  | 0.92  | 0.14  | 0.62  |               |                | 29CFR1904.29   |
| Diversity                                                                               | 2022  | 2023  | 2024  |               |                |                |
| Women by Management Level                                                               |       |       |       |               |                |                |
| CEO and Senior Executive                                                                |       |       | 0.3%  |               |                |                |
| VP and Director                                                                         |       |       | 1.1%  |               |                |                |
| Manager / Supervisor                                                                    |       |       | 4.0%  |               |                |                |
| Individual Contributor                                                                  |       |       | 24.2% |               |                |                |
| Permanent Employee Age Profile                                                          |       |       |       |               |                |                |
| 18-24 Years                                                                             |       |       | 4%    |               |                |                |
| 25-34 Years                                                                             |       |       | 21%   |               |                |                |
| 35-44 Years                                                                             |       |       | 29%   |               |                |                |
| 45-54 Years                                                                             |       |       | 23%   |               |                |                |
| 55-64 Years                                                                             |       |       | 18%   |               |                |                |
| Over 64 Years                                                                           |       |       | 6%    |               |                |                |
| Compliance Reporting Rate (Reports per 100 employees)                                   |       |       | 0.57  |               |                |                |

<sub>2</sub>Issued by environmental agencies.

<sub>3</sub>Fines and Penalties assessed by environmental agencies.

<sub>4</sub>Directly supervised contractors are included in incidents; however, hours worked by contractors are not included.

<sub>5</sub>OSHA forms for recording work related injuries and illnesses; calculating injury and illness incidence rates.

Assurance Statement



Independent Limited Assurance Report

ERM Certification & Verification Services Incorporated ("ERM CVS") was engaged by AMVAC Chemical Corporation ("AMVAC") to provide limited assurance in relation to the selected information set out below and presented in the 2025 American Vanguard Sustainability Report (the "Report").

ENGAGEMENT SUMMARY

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Scope of our assurance engagement</b>         | <p>Whether the following Selected Information for 2024, as indicated on p.17-18 are fairly presented in the Report, in all material respects, in accordance with the reporting criteria.</p> <p>Our assurance engagement does not extend to information in respect of earlier periods or to any other information included in the Report.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Selected Information</b>                      | <p><u>GHG Emissions</u></p> <ul style="list-style-type: none"><li>• Total Scope 1 GHG emissions (thousand metric tons CO<sub>2</sub>e)</li><li>• Total Scope 2 GHG emissions (thousand metric tons CO<sub>2</sub>e) (location-based)</li><li>• Total GHG Emissions – Scope 1 + Scope 2 (location-based) (thousand metric tons CO<sub>2</sub>e)</li><li>• GHG Intensity (total metric ton CO<sub>2</sub>e/metric ton product)*</li></ul> <p><u>Total Energy Consumption</u></p> <ul style="list-style-type: none"><li>• Total Energy (terajoules)</li><li>• Energy Intensity (gigajoules/metric ton product)*</li></ul> <p><u>Safety</u></p> <ul style="list-style-type: none"><li>• Total Number of Fatalities (count)</li><li>• Total Recordable Rate (incidents*200,000 hours/ manhours worked)</li><li>• Total Lost Time/ Restricted Rate (incidents*200,000 hours/ manhours worked)</li></ul> <p>*Note: For all intensity metrics that relate to production, ERM CVS has placed reliance on AMVAC's financial reporting production figures.</p> |
| <b>Reporting period</b>                          | 1 January 2024 – 31 December 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Reporting criteria</b>                        | <ul style="list-style-type: none"><li>• WRI/WBCSD GHG Protocol</li><li>• OSHA's Injury and Illness Recordkeeping and Reporting Requirements</li><li>• AMVAC's Basis of Reporting as indicated on p.14 of the Report</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Assurance standard and level of assurance</b> | <p>We performed a limited assurance engagement, in accordance with the International Standard on Assurance Engagements ISAE 3000 (Revised) 'Assurance Engagements other than Audits or Reviews of Historical Financial Information'.</p> <p>The procedures performed in a limited assurance engagement vary in nature and timing from and are less in extent than for a reasonable assurance engagement and consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Respective responsibilities</b>               | <p>AMVAC is responsible for preparing the Report and for the collection and presentation of the information within it, and for the designing, implementing and maintaining of internal controls relevant to the preparation and presentation of the Report.</p> <p>ERM CVS' responsibility is to provide a conclusion to AMVAC on the agreed scope based on our engagement terms with AMVAC, the assurance activities performed and exercising our professional judgement.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



# Assurance Statement

## OUR CONCLUSION

Based on our activities, as described on the next page, nothing has come to our attention to indicate that the Selected Information for 2024 is not fairly presented in the Report, in all material respects, in accordance with the reporting criteria.

## OUR ASSURANCE ACTIVITIES

Considering the level of assurance and our assessment of the risk of material misstatement of the Selected Information a multi-disciplinary team of sustainability and assurance specialists performed a range of procedures that included, but was not restricted to, the following:

- Evaluating the appropriateness of the reporting criteria for the Selected Information;
- Interviewing management representatives responsible for managing the Selected Information;
- Interviewing relevant staff to understand and evaluate the management systems and processes (including internal review and control processes) used for collecting and reporting the Selected Information;
- Reviewing of a sample of qualitative and quantitative evidence supporting the Selected Information at a corporate level;
- Performing an analytical review of the year-end data submitted by all locations included in the consolidated 2024 group data for the Selected Information which included testing the completeness and mathematical accuracy of conversions and calculations, and consolidation in line with the stated reporting boundary;
- Conducting 2 virtual visits to AMVAC's production sites in Axis, AL (USA) and Costa Rica to review source data and local reporting systems and controls;
- Evaluating the conversion factors, emission factors and assumptions used;
- Reviewing the presentation of information relevant to the assurance scope in the Report to ensure consistency with our findings.



22 September, 2025  
Malvern, PA

ERM Certification & Verification Services Incorporated  
[www.ermcvs.com](http://www.ermcvs.com) | [post@ermcvs.com](mailto:post@ermcvs.com)

## THE LIMITATIONS OF OUR ENGAGEMENT

The reliability of the Selected Information is subject to inherent uncertainties, given the available methods for determining, calculating or estimating the underlying information. It is important to understand our assurance conclusions in this context.

## OUR INDEPENDENCE, INTEGRITY AND QUALITY CONTROL

ERM CVS is an independent certification and verification body accredited by UKAS to ISO 17021:2015. Accordingly, we maintain a comprehensive system of quality control, including documented policies and procedures regarding compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements. Our quality management system is at least as demanding as the relevant sections of ISQM-1 and ISQM-2 (2022).

ERM CVS applies a Code of Conduct and related policies to ensure that its employees maintain integrity, objectivity, professional competence and high ethical standards in their work. Our processes are designed and implemented to ensure that the work we undertake is objective, impartial and free from bias and conflict of interest. Our certified management system covers independence and ethical requirements that are at least as demanding as the relevant sections of the IESBA Code relating to assurance engagements.

ERM CVS has extensive experience in conducting assurance on environmental, social, ethical and health and safety information, systems and processes, and provides no consultancy related services to AMVAC in any respect.

# About this Report



## DIRECTORS

|                                     |                                |
|-------------------------------------|--------------------------------|
| <b>Scott D. Baskin</b>              | Lead Director, Elected in 2014 |
| <b>Emer Gunter</b>                  | Elected in 2019                |
| <b>Marisol Angelini</b>             | Elected in 2021                |
| <b>Mark R. Bassett</b>              | Elected in 2022                |
| <b>Patrick E. Gottschalk</b>        | Elected in 2022                |
| <b>Keith M. Rosenbloom</b>          | Elected in 2022                |
| <b>Steven D. Macicek</b>            | Elected in 2024                |
| <b>Carmen Tiu</b>                   | Elected in 2024                |
| <b>Douglas A. ("Dak") Kaye, III</b> | Elected in 2025                |

## OFFICERS

### AMERICAN VANGUARD CORPORATION

|                                     |                                               |
|-------------------------------------|-----------------------------------------------|
| <b>Douglas A. ("Dak") Kaye, III</b> | Chief Executive Officer                       |
| <b>David T. Johnson</b>             | Chief Financial Officer                       |
| <b>Timothy J. Donnelly</b>          | Chief Legal Officer/General Counsel/Secretary |
| <b>Shirin Khosravi</b>              | Chief Human Resources Officer                 |

### AMVAC CHEMICAL CORPORATION

|                           |                                        |
|---------------------------|----------------------------------------|
| <b>Mike DiPaola</b>       | Senior VP, Strategy, Marketing and R&D |
| <b>Nolteanous Gilliam</b> | Senior VP, Manufacturing               |
| <b>Jared Straley</b>      | Senior VP, Operations and Supply Chain |
| <b>Mason Bennett</b>      | VP, North American Crop                |

### AMGUARD

|                         |                     |
|-------------------------|---------------------|
| <b>Shayne Wetherall</b> | President, Non-Crop |
|-------------------------|---------------------|

### INTERNATIONAL

|                            |                                         |
|----------------------------|-----------------------------------------|
| <b>Peter Eilers</b>        | Managing Director, AMVAC Netherlands BV |
| <b>Gerardo Jose Suarez</b> | President, LATAM                        |
| <b>Stuart A. Lumber</b>    | President, Australia/New Zealand        |

## CORPORATE SUSTAINABILITY REPORT ARCHITECTS

|                        |          |
|------------------------|----------|
| <b>Kelly Willmott</b>  | Editor   |
| <b>Teresa Fritzler</b> | Designer |

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