American Vanguard

Providing the Means to Safe, Efficient & Abundant Agriculture Worldwide



Safe Harbor Statement

This presentation contains, in addition to historical information, forward-looking statements. Such statements are based on management's current expectations and are subject to a number of uncertainties and risks that could cause actual results to differ materially from those described in the forward-looking statements. Factors that may cause such a difference include, but are not limited to, those described in the Company's Annual Report, on Form 10-K, and in other SEC filings.



American Vanguard Overview

- Traded on NYSE:AVD - Founded in 1969...currently 550 employees
- Fully integrated operation - excluding basic R&D
- Business Model: Acquire, develop, manufacture and market a diverse group of specialty agricultural products

Mission: Enhance agricultural productivity and safeguard public health worldwide

- Growth Focus:
 - Acquire/license proven, branded, niche application products
 - Reinvent core products by identifying new opportunities
 - License new, active ingredients and product technologies
 - Fully exploit significant domestic manufacturing capabilities



Proven Acquisition & Licensing Experience

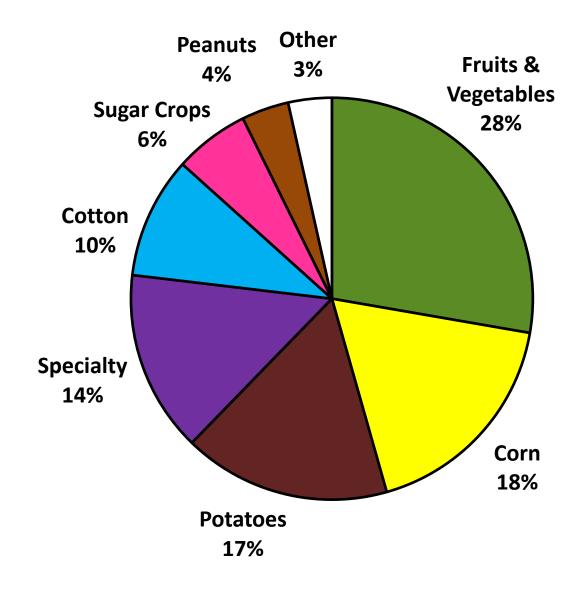
Phosdrin Mevinphos (DuPont) 1989	SmartBox System (Dupont) 2000	Ambush 25WP Permethrin (Syngenta) 2002	Thimet Phorate (BASF) 2005	E-Z Load System (UAP) 2007	Mocap Nemacur Aztec (bag) (Bayer) 2010	Hyvar (DuPont) 2015 Scepter (BASF)
Fruitone NAA (Rhone Poulenc) 1991	Fortress Chorethoxyfos (DuPont) 2000	Deadline Metaldehyde (Pace) 2003 Evital	Impact Topramezone (BASF) 2005	Terraclor PCNB (Chemtura) 2007	Tribufos International (Bayer) 2011	2015 Acropolis (Oxon Italia S.p.A.) 2017
Dibrom (ex-US) (Chevron) 1991	Dacthal DCPA (Zeneca) 2000	Norflurazon (Syngenta) 2003	Counter Terbufos (BASF) 2006	Hannibal Plant (BASF) 2007	Bti Briquets (Summit) 2012	Paraquat Abamectin Chlorthalonil (Adama) 2017
Bidrin Dicrotophos (DuPont) 1993	Aztec (ATB) (Bayer) 2000	DDVP (Novartis AH) 2003 Hivol	Lorsban (Dow) 2006 Ambush, Prelude	Marsing Plant (Bayer) 2008	TyraTech Venture (Envance Technologies) 2013	GESAPAX BRAVO (Syngenta) 2017
Vapam Metam Sodium (<mark>Zeneca</mark>) 1996	Axis Plant (DuPont) 2001	2,4-D (Pace) 2003 Force Tefluthrin	Permethrin (Syngenta) 2006	Orthene Acephate (Valent) 2008	Nemacur (Adama) 2015	AgriCenter 2017 OHP 2017
Dibrom Naled (US) (<mark>Valent</mark>) 1998	Folex Tribufos (Aventis) 2002	(Syngenta) 2004 Avenge Difenzoquat (BASF)	Lock 'N Load System (BASF) 2006	Def (Bayer) 2010	Krovar (DuPont) 2015	Bromacil (Bayer) 2018

1989 2018

2005



AMVAC Diversified Participation



2017 Revenue \$355 Million

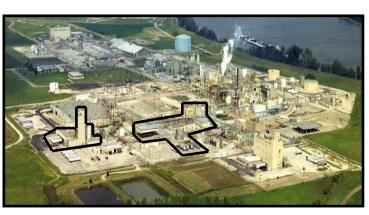
2018 Revenue \$450-460 Million



AMVAC United States Manufacturing Sites



Los Angeles, CA



Hannibal, MO

Axis, AL

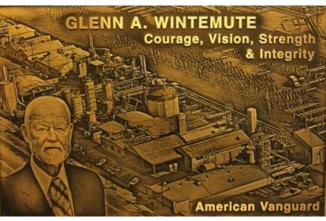


Marsing, ID



Technology Innovation







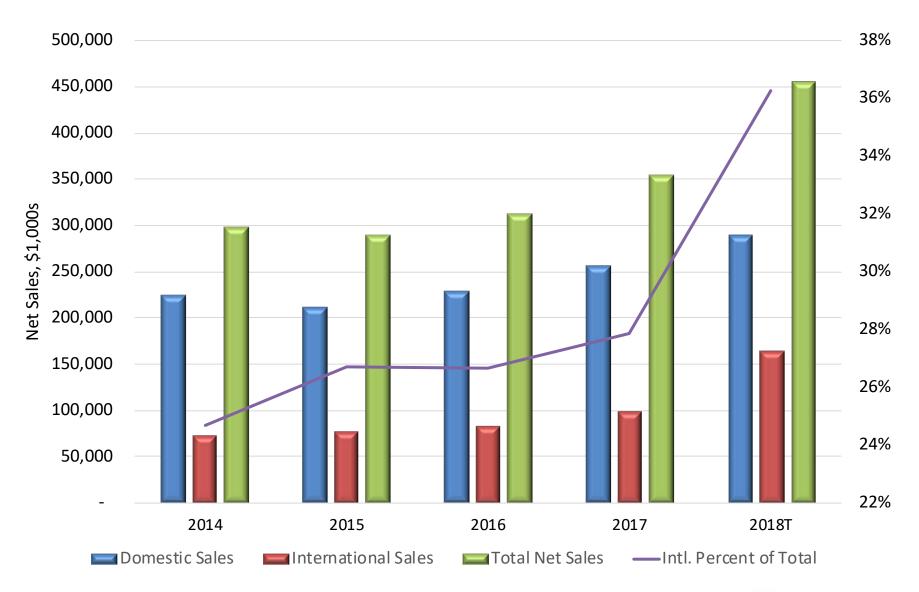




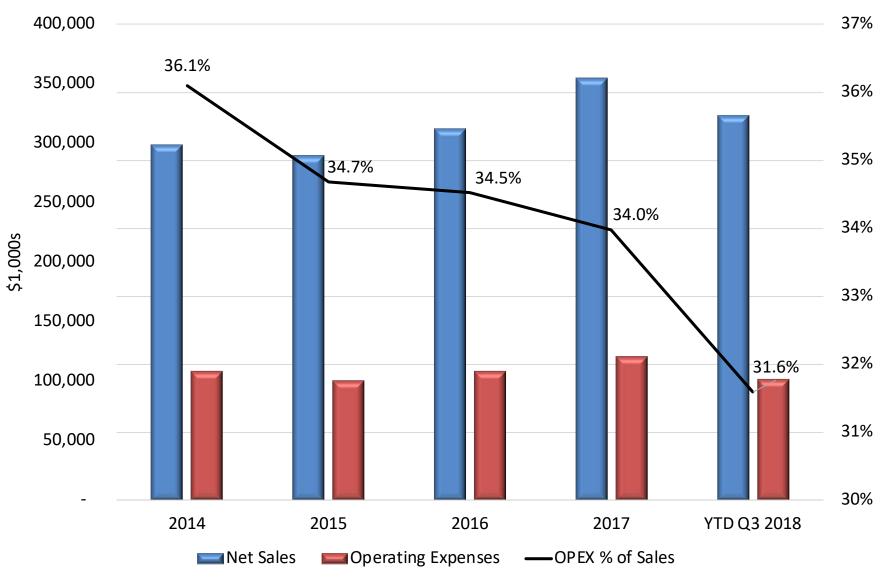




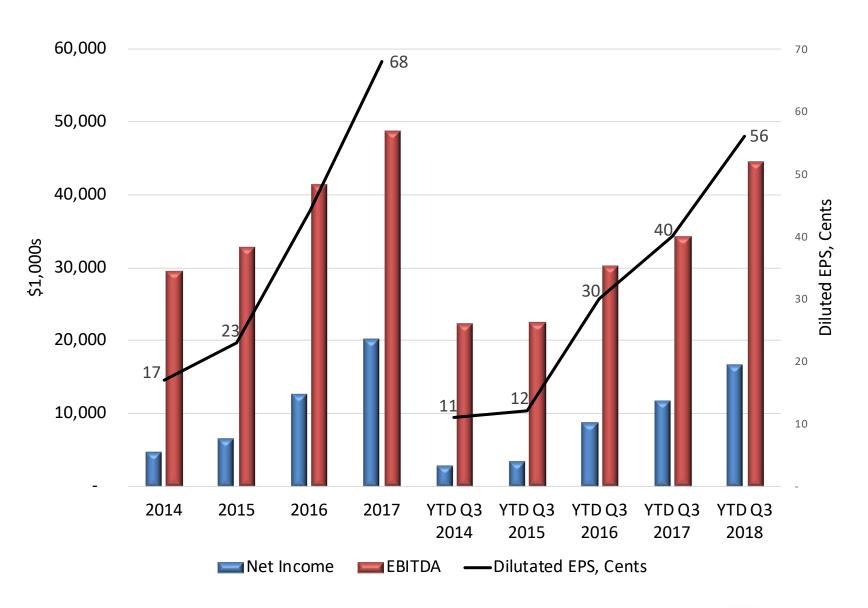
Net Sales – Dom. vs Intl.



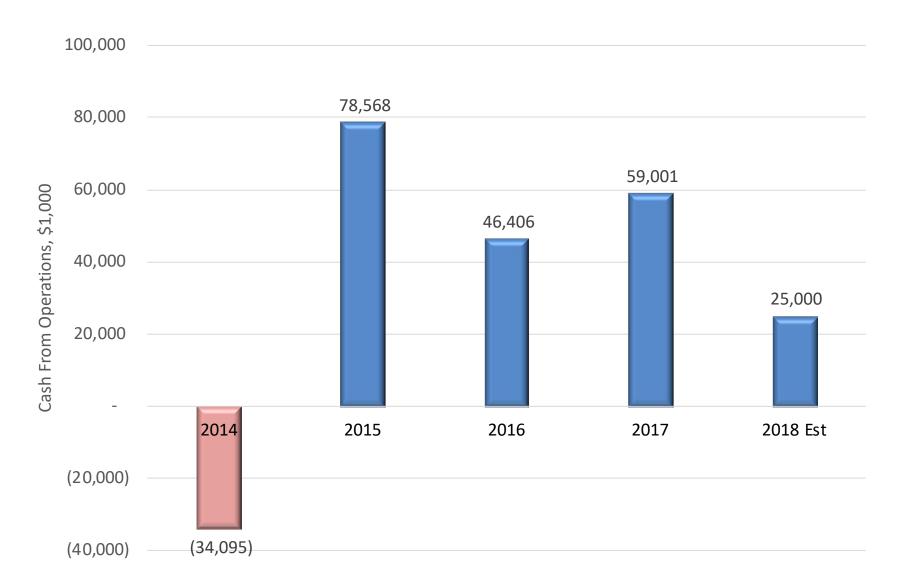
Operating Expense Performance



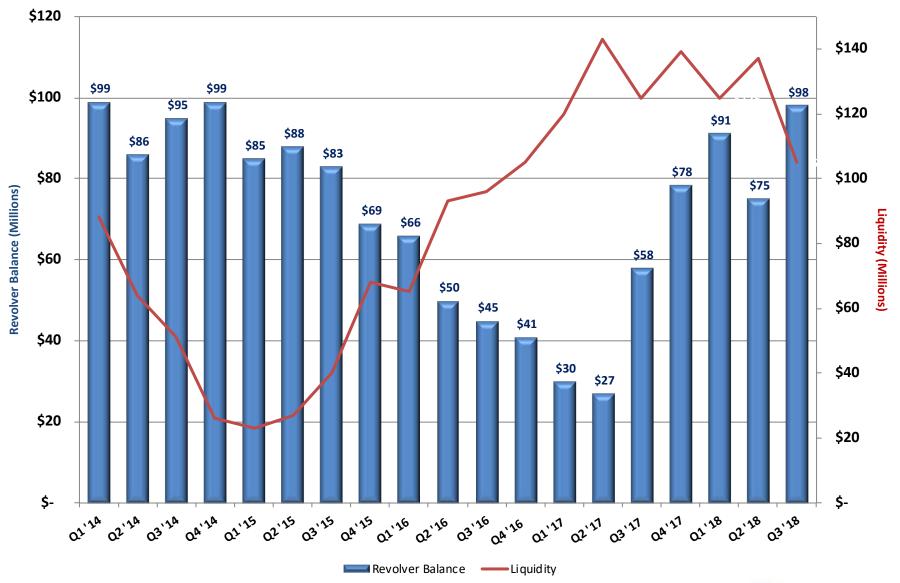
Income Performance



Cash Performance

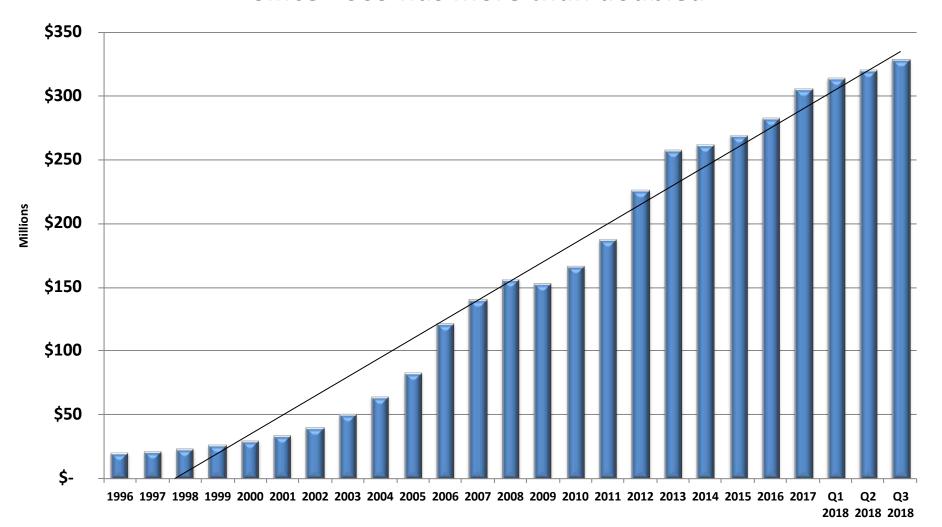


Debt Level & Liquidity

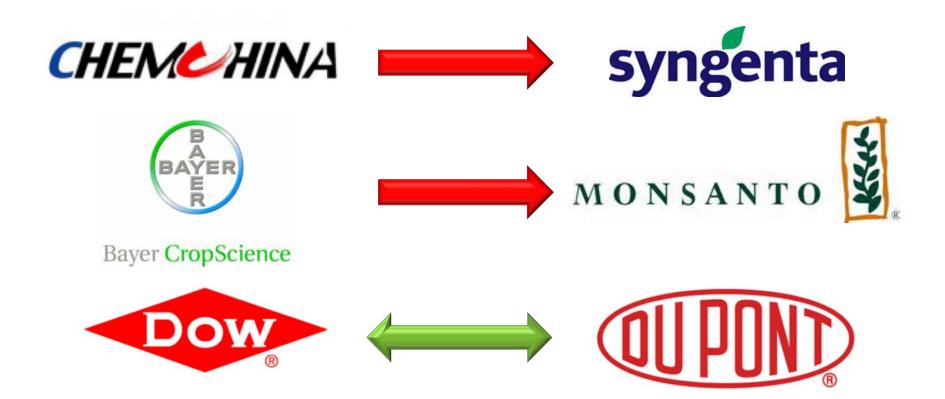


Shareholder Equity Growth

Since 2009 has more than doubled



Industry Consolidation = Opportunity



2017 AMVAC Key Acquisitions

HISTORIC REVENUE

US Ag Herbicide, Insecticide, Fungicide (ADAMA) \$30

\$30MM

- Parazone 35 (Paraquat)
- Abba Ultra (Abamectin)
- Equus 720 SST (Chlorothalonil)

Mexico Portfolio of Niche Products (Syngenta) \$10MM

LATAM Acquire Regional Distributor (AgriCenter) \$60MM

US Acquire Non-Crop Company (OHP) \$20MM

Sub-Total \$120MM

Grupo AGRICenter



Market Access Platform

- Currently Operates in 7 Countries
- Annual Sales \$50-\$60 Million
- Gross Profit Margin 25+%
- Product Mix
 - Insecticides ≈ 25%
 - Fungicides ≈ 30%
 - Herbicides ≈ 20%
 - Nutrients & Other ≈ 25%
- Proven Customer Focused Consulting Services Identify Problems and Provide Customized Solutions
- Greenplants Unique Plant Nutrient & Micronutrient Formulations
- Distributor for Leading High-performance Biologicals Supplier
- 115 Highly-Qualified Personnel

Acquisition triples our current Latin American presence and give AMVAC a significant share of the LATAM regional market



OHP

Horticulture Focus

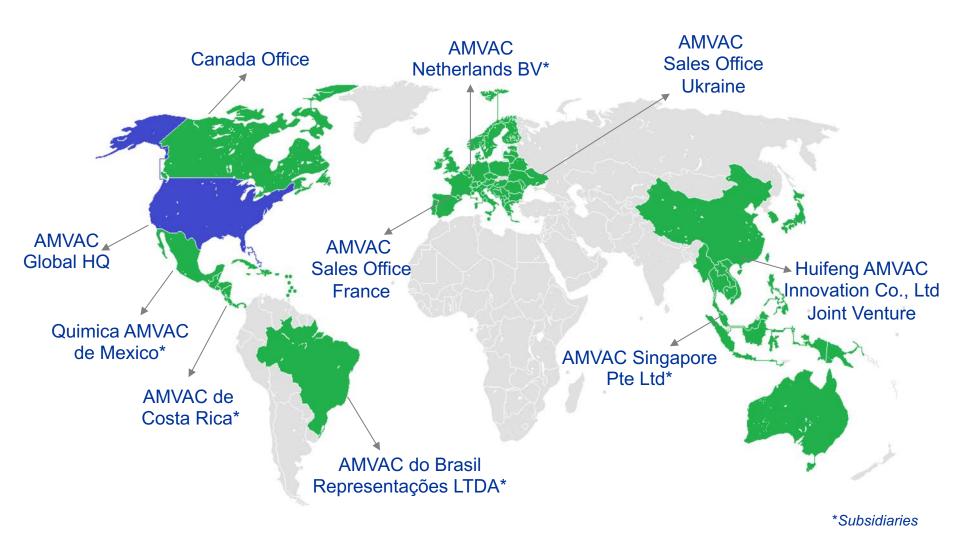
- Greenhouse & Nursery Applications
- Annual Sales \$20-\$25 Million
- Gross Profit Margins ≈ 40%
- Business Model: License, Develop, Register, Market, Sell and Service Products for Horticulture Applications in the United States
- 17 Very Experienced Personnel

Acquisition increases AMVAC's non-crop business by ≈ 40% adding horticulture segment to existing leading positions in mosquito control, commercial and consumer pest control, and turf & golf course maintenance





AMVAC Global Operations



SmartBox®



The most advanced granule application system available

Patented, closed-container transfer and application system for pesticides

► The <u>sealed transfer-container</u> is returnable and refillable.

► The <u>on-planter base-container</u> contains a locking valve system which enables contact-free product transfer

► The <u>electronic meter</u> replaces the conventional mechanical meter for accurate product dispensing

All three components work together with a cab mounted computer to create the <u>SmartBox System</u>





MUCH Better Accuracy than Mechanical In-cab Monitor & Controls







Smart Integrated Multi-Product Prescription Application System

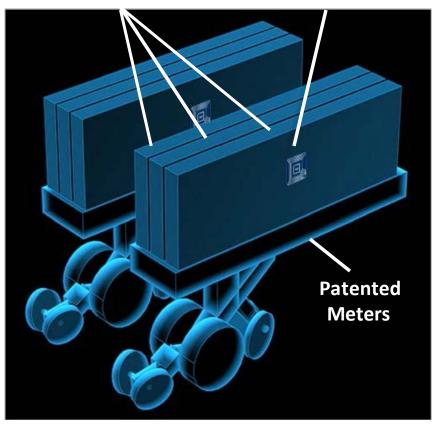
3 Product Per Row

RFID-tagged SmartCartridges™

- One system for Insecticides, fungicides, nutritionals & biologicals
- Dry and/or liquid products applied simultaneously
- RFID SmartCartidge packaging Application Accuracy (+/- 1%) at Very Low rates

Value Proposition

- License equipment manufacturer
- Support retail distribution
- Supply Crop Protection Produce Cartridges

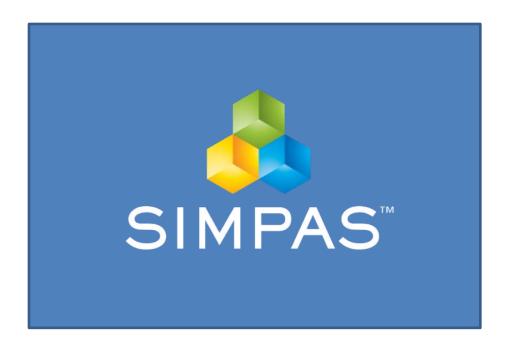








SIMPAS Technology



System Overview

<u>High Resolution Seed Placement</u>

<u>Detailed Description Farm Progress Interview</u>





Market Opportunities



Crops

All row crops

- Corn
- Soybeans
- Cotton
- Potatoes
- Sugar beets
- Peanuts
- Sugarcane
- etc.

Geographies

Eastern Europe

US
 Brazil/Argentina
 China

Large farms, technology adopters

- UK, EU

 Heavily regulated

 Canada
- Australia

SIMPAS Global Market Access

North America

- Yield Benefit
- Input Cost Reduction
- SMARTBox Base Business



Regulatory Mandates



South America

- Large Acreage Growers
- Technology Adopters

Asia/Pacific

- Seeking Yield Improvement
- Environmental Mandates
- Technology Adopters





SIMPAS: Collaboration Partners



SIMPLOT Grower Solutions

- Leading full-service agronomic input supplier
- SmartFarm® data analysis system
- Focus on "soil health" and soil selective treatments to maximize grower ROI and environmental stewardship

TRIMBLE Ag Solution Services

- Superior geo-positioning capabilities / guidance systems
- Controller is compatible with all equipment brands
- Farm management services data collection and analysis
- Vantage Distribution / Retail Network experts in Precision AG Equipment Systems commercialization plan, system installation and servicing (global)



Guidance 2018 Full-Year

Revenue: \$450 - \$460 Million

► Gross Margin: 38% - 40% (Subject to quarterly mix)

Operating Expenses: \$150 (approximately)

Tax Rate: 25% - 27% (estimated for all jurisdictions)

AMVAC Take Away Message

Solid Base Business

Niche market positions; solid Balance Sheet

Product Portfolio Expansion

Acquisition; licensing; internal development; partnership/collaborations

Increasing Market Access

Domestic programs; international alliances

Technology Innovation

Chemical products; biological products; precision-ag equipment systems

Organizational Excellence

Manufacturing; financial discipline; managerial expertise



American Vanguard Corporation: Market Valuation

Market Data	5/5/2006	10/2/2012	11/8/18
Stock Price	\$37.00/share	\$36.74/share	≈\$17.24/share
Shares Outstanding	27.0MM	28.9MM	30.1MM
Market Valuation	\$1.00B	\$1.06B	≈\$519MM
AV/D Faveius a Danaut	2/24/2006	0/20/2012	44/0/2040
AVD Earnings Report	3/31/2006	9/30/2012	11/8/2018
Assets	\$213MM	\$398MM	\$590MM
Debt	\$54MM	\$54MM	\$97MM
Liabilities	\$107MM	\$182MM	\$261MM
Shareholders Equity	\$107MM	\$215MM	\$329MM

