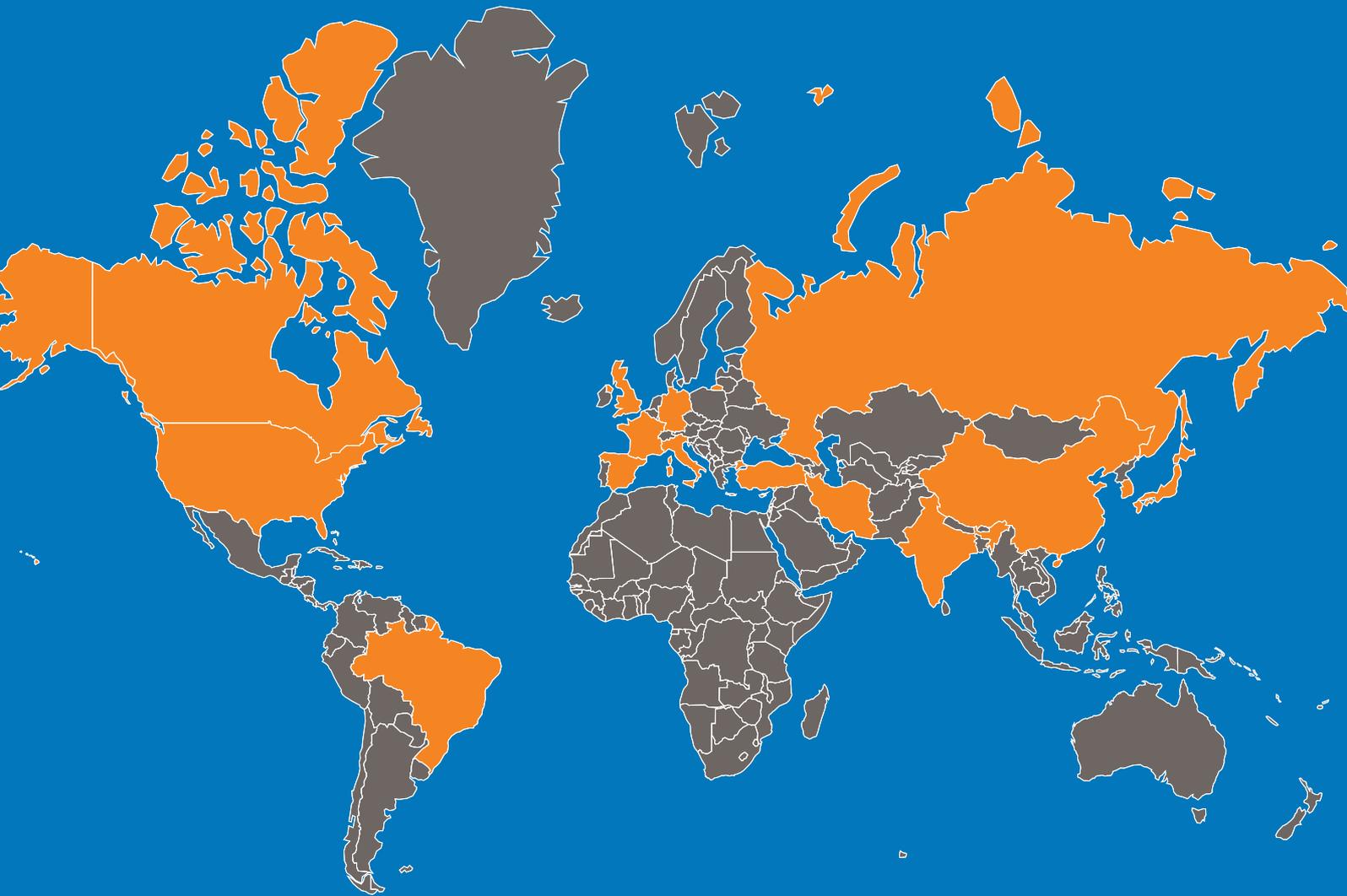


COVID-19 Impact survey #8

Reporting period June 1st - 15th



Agrievolution Alliance COVID-19 Global Impact Survey

- Survey participants are the listed Agrievolution Alliance member associations whose responses reflect their knowledge of what is occurring within their own countries and what their agriculture equipment manufacturing member companies are experiencing.
- This survey will be conducted on a bi-weekly basis for as long it remains relevant and participation continues, with the first survey results published March 27, 2020.
- While the goal is to receive consistent responses from all Alliance members every two weeks, some Alliance members may not respond and therefore their country will not be included in the results.

Agrievolution Alliance Members



	ABIMAQ Brazilian Association of Industrial Machinery and Equipment
	AEA Agricultural Engineers Association
	AEM Association of Equipment Manufacturers
	ANSEMAT Association for Agricultural, Forestry and Landscaping Machinery
	ATMAK Tractor, Combine, Machinery and Agricultural Equipment Manufacturers Association
	AXEMA Association for Industrial Agricultural Equipment
	CAMDA China Agricultural Machinery Distribution Association
	CEMA European Agricultural Machinery Association
	FEDERUNACOMA Italian Farm Machinery Manufacturers Association
	FICCI Federation of Indian Chambers of Commerce and Industry
	JAMMA Japan Agricultural Machinery Manufacturer's Association
	KAMICO Korean Agricultural Machinery Industry Cooperative
	ROSSPETSMAH Russian Association of Specialized Machinery and Equipment Manufacturers
	TARMAKBIR Turkish Association of Agricultural Machinery & Equipment Manufacturers
	VDMA German Agricultural Machinery Association

OVERVIEW

June, 23rd 2020

Most members of the Agrievolution Alliance members are reporting positive trends in their regions regarding the impact of Covid-19. These positive trends seem to be fueled by most manufacturing facilities now being open and having readily available parts and components. However, delivery times of parts and components may be lengthened depending on the region. Ultimately, plants being back online has also resulted in positive trends in employment levels. We are also seeing positive outlooks in financial expectations by alliance members for the next 30 days.

However, concerns still exist due to Covid-19 and vary widely among Agrievolution members. A common theme is the negative economic impact due to lack of credit, farmers reluctance to make equipment purchases, reductions in cash flow, spare parts availability, and some difficulties with domestic and international logistics due to travel sanctions. Other concerns suggest limits in opening of accommodations and food infrastructure reducing the ability to transact business and visit farmers directly. Shortages in available manpower and health and safety of employees is also cited as a concern.

In summary, although certainly concerns still exist members of the Agrievolution Alliance are reporting positive trends compared to previous reporting periods. We continue to be cautiously optimistic seeing the current trends as the industry works to get fully back online by implementing some process changes to mitigate some of the impact of Covid-19

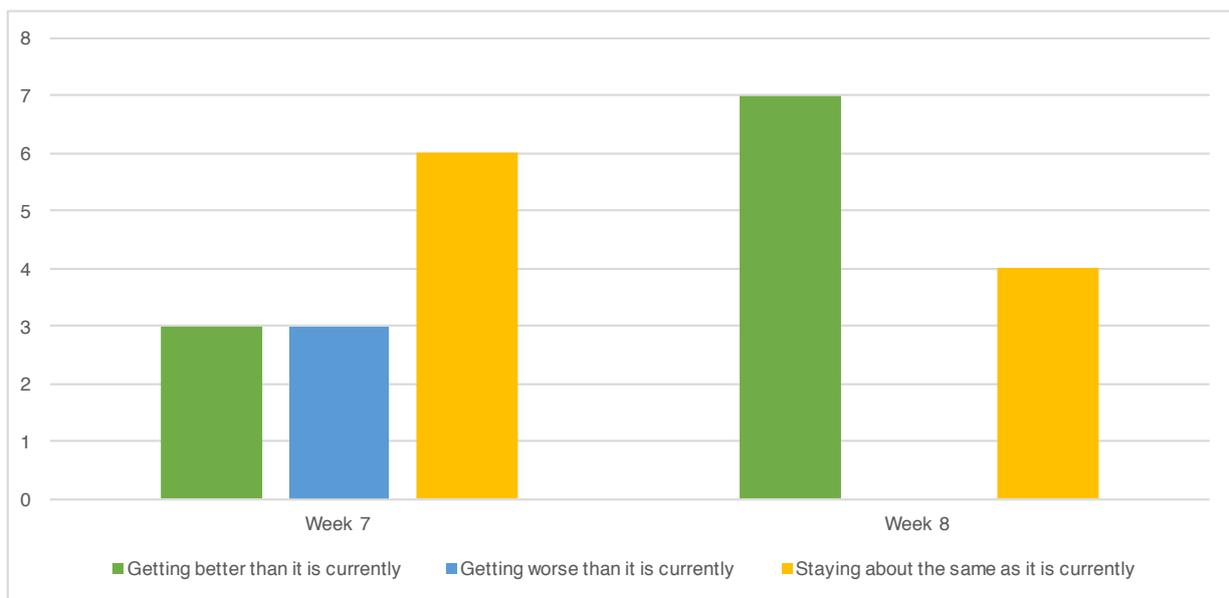
Charlie O'Brien

Agrievolution Secretary General

Q1

Over the next 30 days what is the perception of your member companies regarding the financial outlook for business in the agricultural equipment manufacturing sector?

A positive development is noted with results from the week of June 15th indicating seven of the eleven reporting regions perceive the financial outlook for the next 30 days will get better. This is a significant change from the previous reporting period from the week of June 1st where only three regions reported expectations that the financial situation would get better. Most regions previously reported that the situation would be staying the same or getting worse. Additionally, another positive sign is that no region reported an expectation that the financial situation would get worse in the next 30 days.



Country	Week 7	Week 8
Brazil	GW	GB
China	TS	GB
France	TS	GB
Germany		
India	GB	GB
Italy	GW	TS
Japan	TS	TS
Russia	TS	TS
South Korea	GW	
Spain	GB	GB
Turkey	GB	GB
United Kingdom	TS	GB
USA	TS	TS

GB = Getting better than it is currently

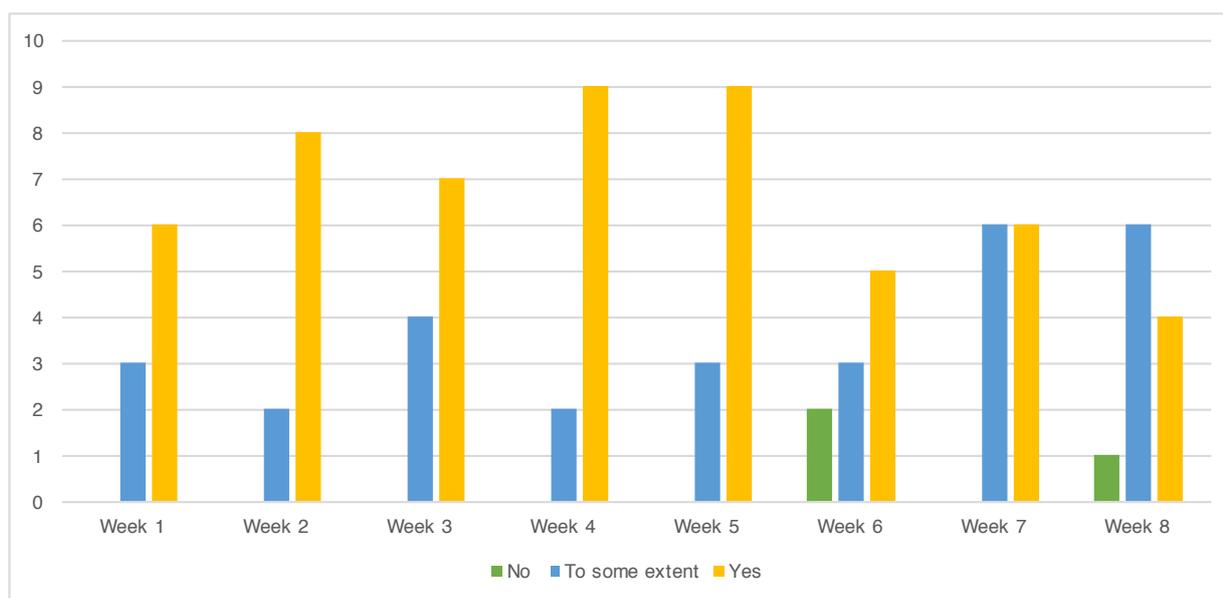
GW = Getting worse than it is currently

TS = Staying about the same as it is currently

Q2

Has international travel for people been banned at this point?

Only the United Kingdom has changed its international travel policy in the past two weeks now allowing traveling abroad. Any travelers arriving in the UK will be asked to self-isolate for 14 days upon arrival. All other reporting countries continue to report international travel restrictions.



Country	Week 4	Week 5	Week 6	Week 7	Week 8
Brazil	YES	YES	TSE	TSE	TSE
China		TSE		TSE	TSE
France	YES	YES		YES	YES
Germany					
India	YES	YES	YES	YES	YES
Italy	YES	YES	YES	TSE	TSE
Japan	YES	YES	NO	YES	YES
Russia	YES	YES	NO	YES	YES
South Korea	YES	YES	TSE	TSE	
Spain	YES	YES	YES	TSE	TSE
Turkey	YES	YES	YES	YES	TSE
United Kingdom	TSE	TSE	NO	TSE	NO
USA	TSE	TSE	TSE	YES	TSE

TSE = To some extent

Q3

What is the one biggest concern relative to agricultural equipment manufacturing being raised today by members of your association because of the COVID-19 pandemic?

Concerns due to Covid-19 vary widely among Agrievolution members with most reporting negative repercussions created by the virus. A common theme is the negative economic impact due to lack of credit, farmers reluctance to make equipment purchases, reductions in cash flow, spare parts availability, and some difficulties with domestic and international logistics due to travel sanctions. Other concerns suggest limits in opening of accommodations and food infrastructure reducing the ability to transact business and visit farmers directly. Shortages in available manpower and health and safety of employees is also cited as a concern.

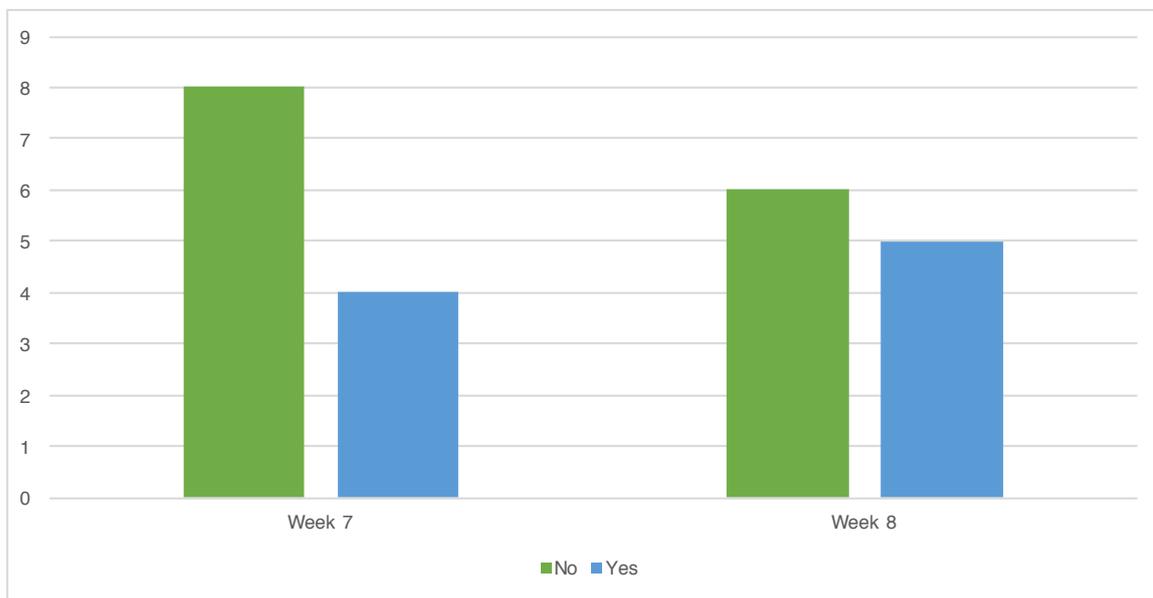
Country	Week 8
Brazil	Lack of credit but yesterday the resources for this harvest were released
China	Spare parts supply
France	Reopening hotels and restaurants to visit farmers
Germany	
India	Manpower availability / Supply chain maintenance
Italy	Reduction cash flow
Japan	Farmers' willingness to consume is low
Russia	There are no acute problems associated with Covid 19. We can indicate some difficulties with domestic and international logistics.
South Korea	
Spain	2020 general economic outlook and potential double-hit scenario
Turkey	Employee health
United Kingdom	Opening up of accommodation and food infrastructure
USA	Health & safety of employees



Q4

Is the agricultural equipment manufacturing sector receiving any government financial support during the COVID-19 pandemic?

Brazil has now joined Italy, Russia, the United Kingdom, and USA in receiving government financial support to offset some of the negative financial impact of Covid-19.

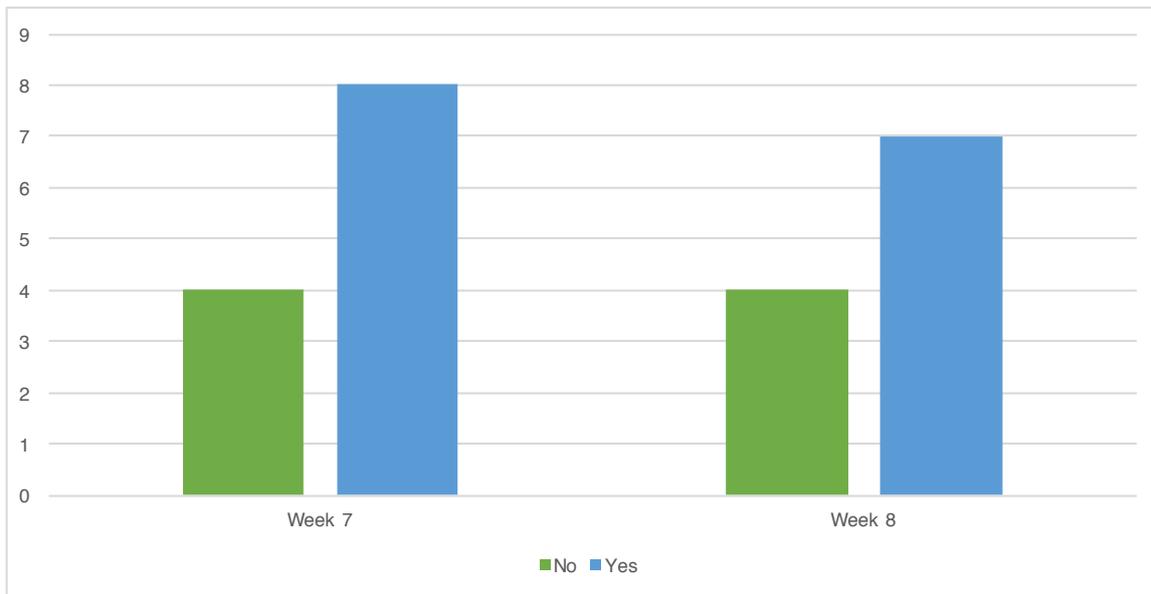


Country	Week 7	Week 8
Brazil	NO	YES
China	NO	NO
France	NO	NO
Germany		
India	NO	NO
Italy	YES	YES
Japan	NO	NO
Russia	YES	YES
South Korea	NO	
Spain	NO	NO
Turkey	NO	NO
United Kingdom	YES	YES
USA	YES	YES

Q5

Is the agricultural equipment manufacturing sector receiving any administrative or similar support that loosens restrictions or policies during the COVID-19 pandemic?

Italy has now joined Brazil, China, India, Russia, Spain, and the United States in receiving some administrative or similar support that loosens restriction or policies that will help facilitate business transactions. France, Japan, Turkey, and the United Kingdom do not currently have any changes in their policies in place.

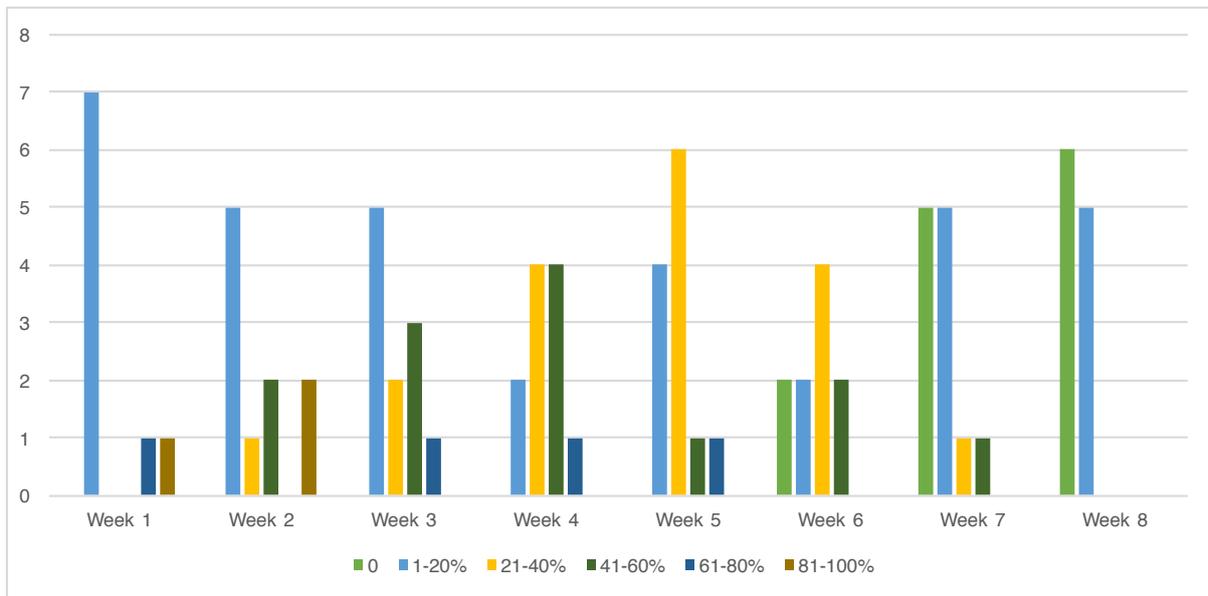


Country	Week 7	Week 8
Brazil	YES	YES
China	YES	YES
France	NO	NO
Germany		
India	YES	YES
Italy	NO	YES
Japan	NO	NO
Russia	YES	YES
South Korea	YES	
Spain	YES	YES
Turkey	NO	NO
United Kingdom	YES	NO
USA	YES	YES

Q6

What percent of manufacturing facilities are closed in your country as a result of the COVID-19?

A major shift continues to take place over the past two weeks as more and more manufacturing facilities come back online. Six of the eleven reporting regions now report all manufacturing facilities are open and running. Brazil, China, France, the United Kingdom, and the United States still report 1-20% facilities still closed. China is the only country reporting an increase in closures over the past two weeks where previously they had reported all facilities were open. China now reports 1-20% facilities are currently closed likely due to seeing some resurgence of the virus in the region.



Country	Week 4	Week 5	Week 6	Week 7	Week 8
Brazil	41-60%	21-40%	41-60%	41-60%	1-20%
China		1-20%		0%	1-20%
France	21-40%	21-40%		1-20%	1-20%
Germany					
India	61-80%	61-80%	21-40%	21-40%	0%
Italy	41-60%	1-20%	1-20%	0%	0%
Japan	41-60%	41-60%	41-60%	1-20%	0%
Russia	21-40%	21-40%	0%	0%	0%
South Korea	21-40%	21-40%	21-40%	1-20%	
Spain	1-20%	1-20%	0%	0%	0%
Turkey	1-20%	1-20%	1-20%	0%	0%
United Kingdom	41-60%	21-40%	21-40%	1-20%	1-20%
USA	21-40%	21-40%	21-40%	1-20%	1-20%

Q7

Which statement below best describes the current situation relating to any disruption in the agriculture equipment manufacturing supply chain with parts and components?

In alignment with the positive trends indicated regarding plants coming back online we see comparable results with the supply chain for parts and components also coming online. No regions are reporting that suppliers are not able to fill orders. Italy, Japan are now reporting no disruptions in the supply chain where previously some disruptions were noted. Seven regions still report some disruptions especially with timing of deliveries being extended.



Country	Week 4	Week 5	Week 6	Week 7	Week 8
Brazil	NA	NA	NA	NA	SD
China		SD		NA	SD
France	SD			SD	SD
Germany					
India	SD	SD	SD	SD	SD
Italy	NA	SD	SD	SD	ND
Japan	SD	NA	NA	SD	ND
Russia	SD	SD	SD	SD	SD
South Korea	SD	SD	SD	SD	
Spain	SD	SD	SD	ND	ND
Turkey	SD	SD	SD		ND
United Kingdom	ND	SD	ND	ND	SD
USA	SD	SD	SD	SD	SD

ND = No disruption

SD = Companies are seeing some disruption in getting parts and components

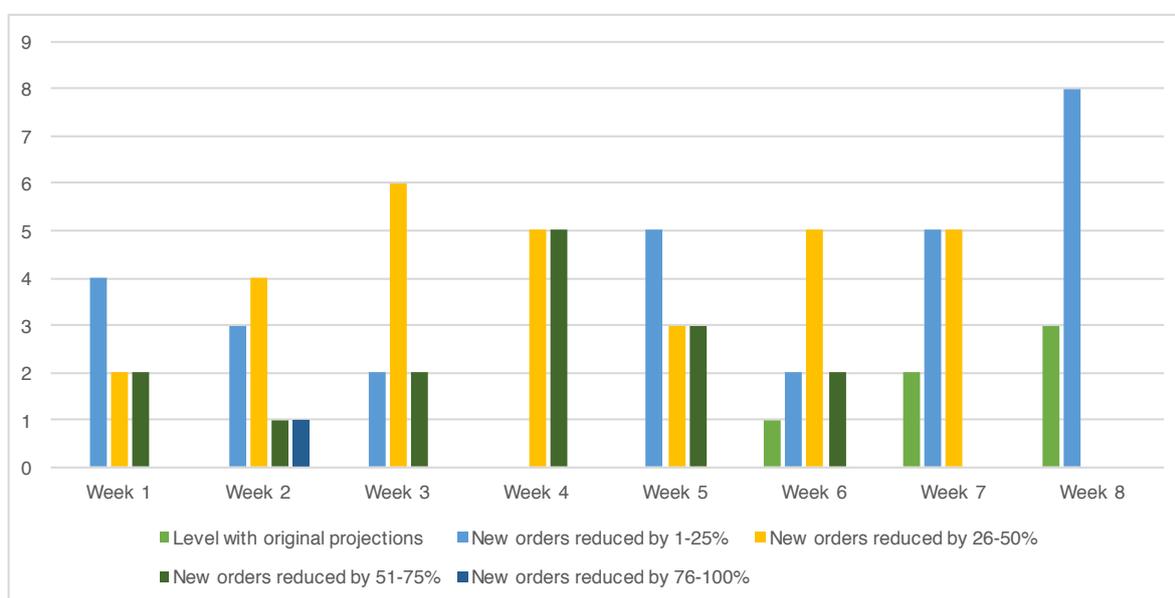
NA = Companies are seeing many suppliers not able to fill orders

SH = There are no supply orders being filled at this time as factories are shut down

Q8

What is the economic impact on new orders being taken for agriculture equipment whole goods?

Eight reporting regions now report new orders being reduced by only 1-25%. This is considerably better compared to previous reporting periods where in some cases new orders were projected to be down by at least 51% or more. India and Russia report new order are level with original projections and Turkey reports that new orders are much better then before the epidemic.



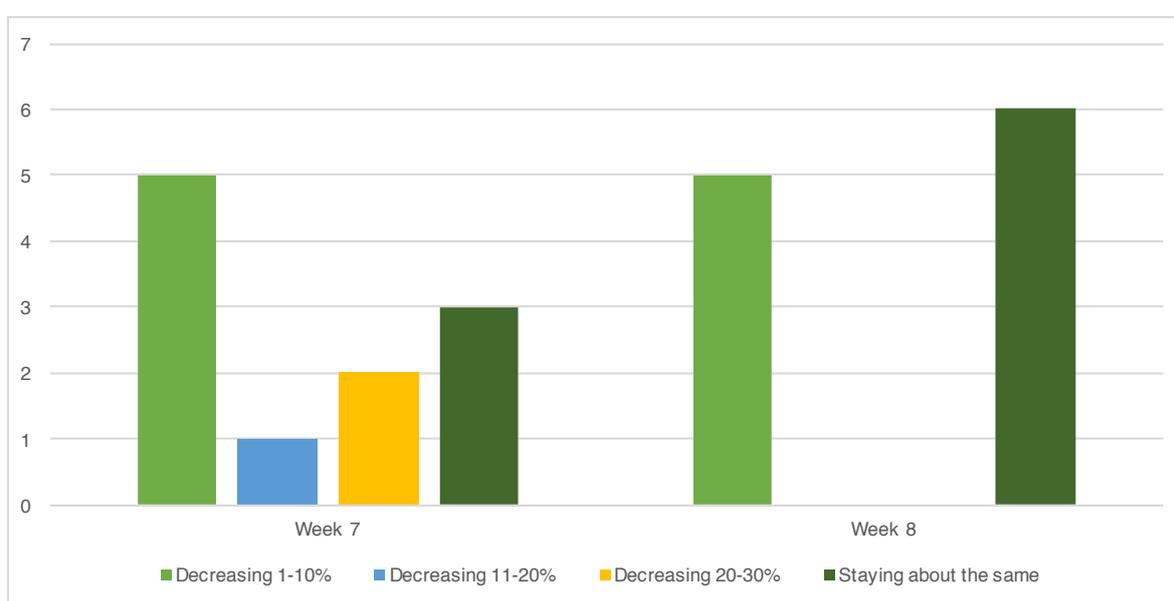
Country	Week 4	Week 5	Week 6	Week 7	Week 8
Brazil	↓ [26-50%]	↓ [51-75%]	↓ [51-75%]	↓ [26-50%]	↓ [1-25%]
China		↓ [1-25%]		↓ [1-25%]	↓ [1-25%]
France	↓ [51-75%]			↓ [1-25%]	↓ [1-25%]
Germany					
India	↓ [51-75%]	↓ [51-75%]	↓ [26-50%]	↓ [26-50%]	L
Italy	↓ [26-50%]	↓ [1-25%]	↓ [26-50%]	↓ [1-25%]	↓ [1-25%]
Japan	↓ [51-75%]	↓ [51-75%]	↓ [51-75%]	↓ [26-50%]	↓ [1-25%]
Russia		↓ [1-25%]	L	L	L
South Korea	↓ [26-50%]	↓ [1-25%]	↓ [1-25%]	↓ [26-50%]	
Spain	↓ [51-75%]	↓ [26-50%]	↓ [26-50%]	↓ [26-50%]	↓ [1-25%]
Turkey	↓ [51-75%]	↓ [26-50%]	↓ [26-50%]	↓ [51-75%]	L
United Kingdom	↓ [26-50%]	↓ [1-25%]	↓ [1-25%]	↓ [1-25%]	↓ [1-25%]
USA	↓ [26-50%]	↓ [26-50%]	↓ [26-50%]	↓ [1-25%]	↓ [1-25%]

L = Level with original projections prior to the onset of Covid 19 in our country

Q9

What is the impact on employment at member companies because of COVID-19?

Employment levels are also showing positive trends. Only five regions are showing employment levels down slightly between 1-10%. All other regions are reporting employment levels remaining about the same. This is a significant uptick in employment levels when compared to the last reporting period just two weeks previous where only Italy, Japan, and Russia reported little change in employment levels.



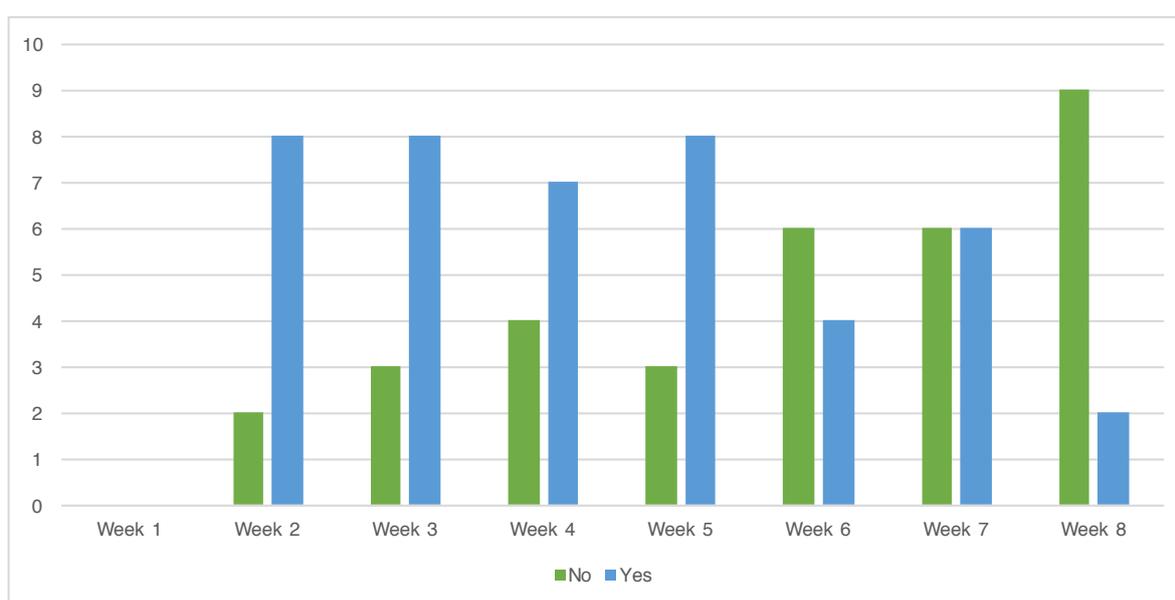
Country	Week 7	Week 8
Brazil	↓ [20-30%]	↓ [1-10%]
China	↓ [1-10%]	↓ [1-10%]
France	Unknown	TS
Germany		
India	↓ [1-10%]	↓ [1-10%]
Italy	TS	TS
Japan	TS	TS
Russia	TS	↓ [1-10%]
South Korea	↓ [20-30%]	
Spain	↓ [11-20%]	↓ [1-10%]
Turkey	↓ [1-10%]	TS
United Kingdom	↓ [1-10%]	TS
USA	↓ [1-10%]	TS

TS = Staying about the same

Q10

Are your members experiencing issues with the transport of parts or equipment due to the closing of borders?

Currently only two regions, Brazil and Japan are reporting any issues with transport of parts or equipment due to border closings. All other regions are now reporting no issues. This is a steady positive trend since the Agrievolution surveys began where almost all regions were reporting issues due to border closings.



Country	Week 4	Week 5	Week 6	Week 7	Week 8
Brazil	YES	YES	YES	YES	YES
China		YES		NO	NO
France	NO			YES	NO
Germany					
India	YES	YES	YES	YES	NO
Italy	NO	NO	NO	NO	NO
Japan	YES	YES	YES	YES	YES
Russia	YES	YES	NO	NO	NO
South Korea	YES	YES	NO	YES	
Spain	NO	NO	NO	NO	NO
Turkey	YES	YES	NO	NO	NO
United Kingdom	NO	NO	NO	NO	NO
USA	YES	YES	YES	YES	NO



www.agrievolution.com

AgrievolutionAlliance@aem.org

PHONE NUMBER: +1 (414) 298-4174