



# China Covid-19 Update

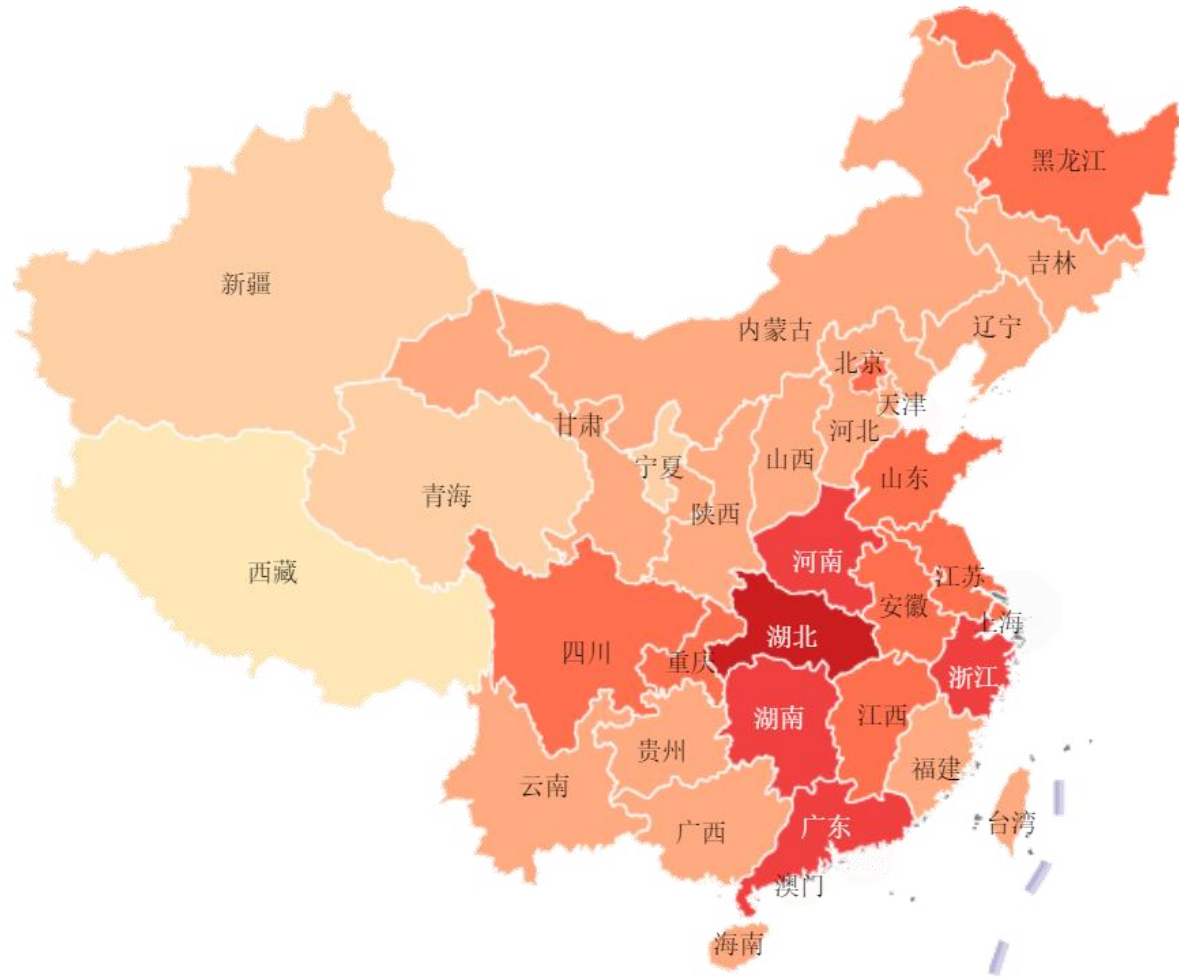
May 7th, 2020  
ASTA Annual Conference  
Regional Update

---

Mike Liu  
President, China Spice Association  
Chairman, BC Foods

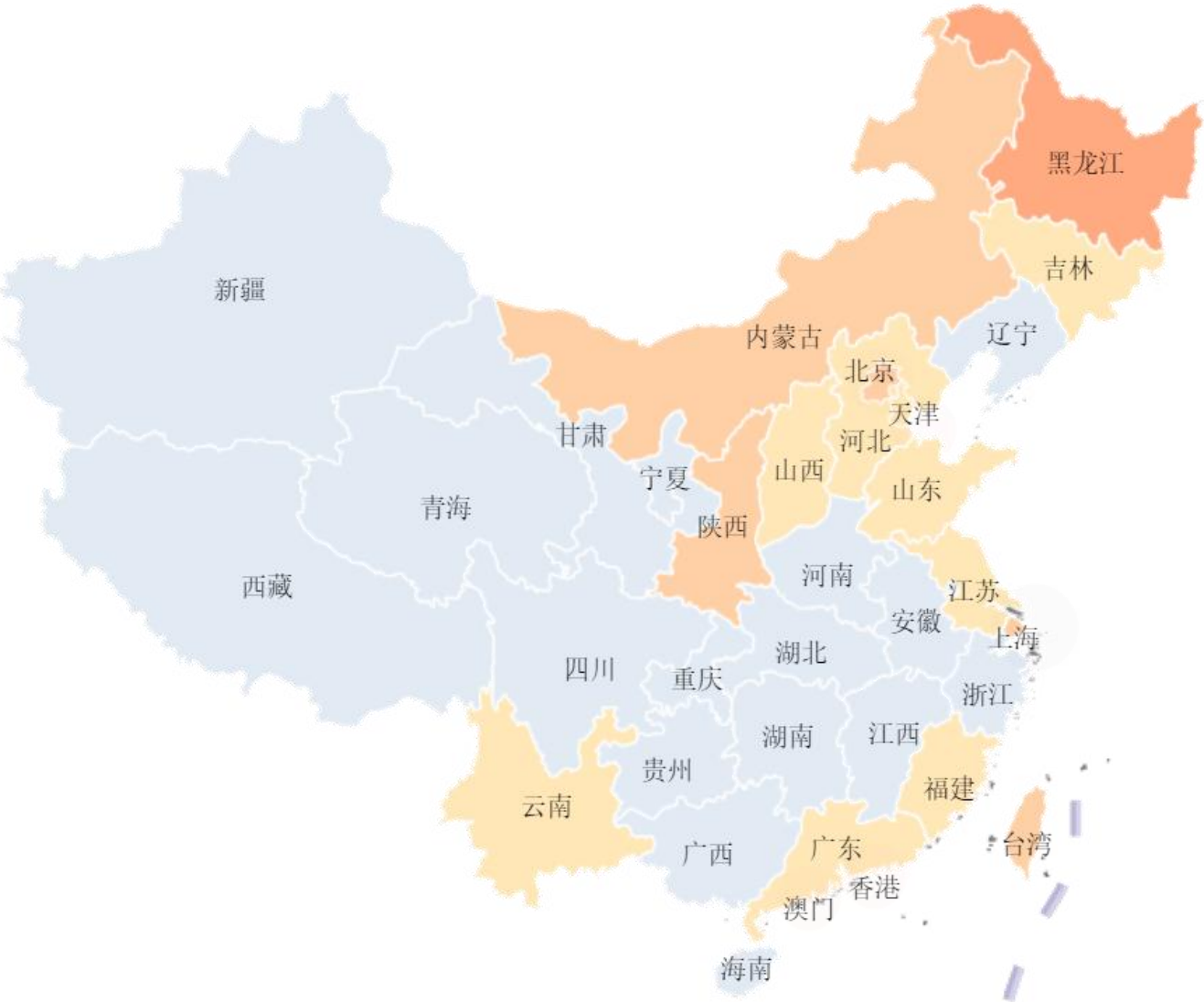


# China Covid-19 Update - Summaries

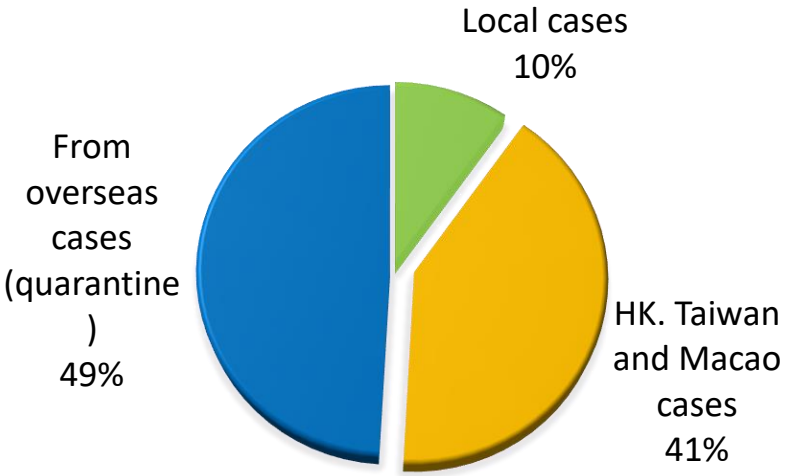


- ❖ First Covid-19 positive:
  - With symptom: Dec. 8<sup>th</sup>, 2019
  - Confirmed Covid-19: Dec. 12, 2019
- ❖ Wuhan city lockdown:
  - Population: 11 million
  - Lockdown date: Jan. 23, 2020
  - Confirmed cases on Jan. 22, 2020:
    - China:
      - Confirmed cases: 557
      - Death: 17
    - Wuhan:
      - Confirmed cases: 444
      - Death: 17
- ❖ Total China:
  - Confirmed cases: 88,409
  - Death: 4,643

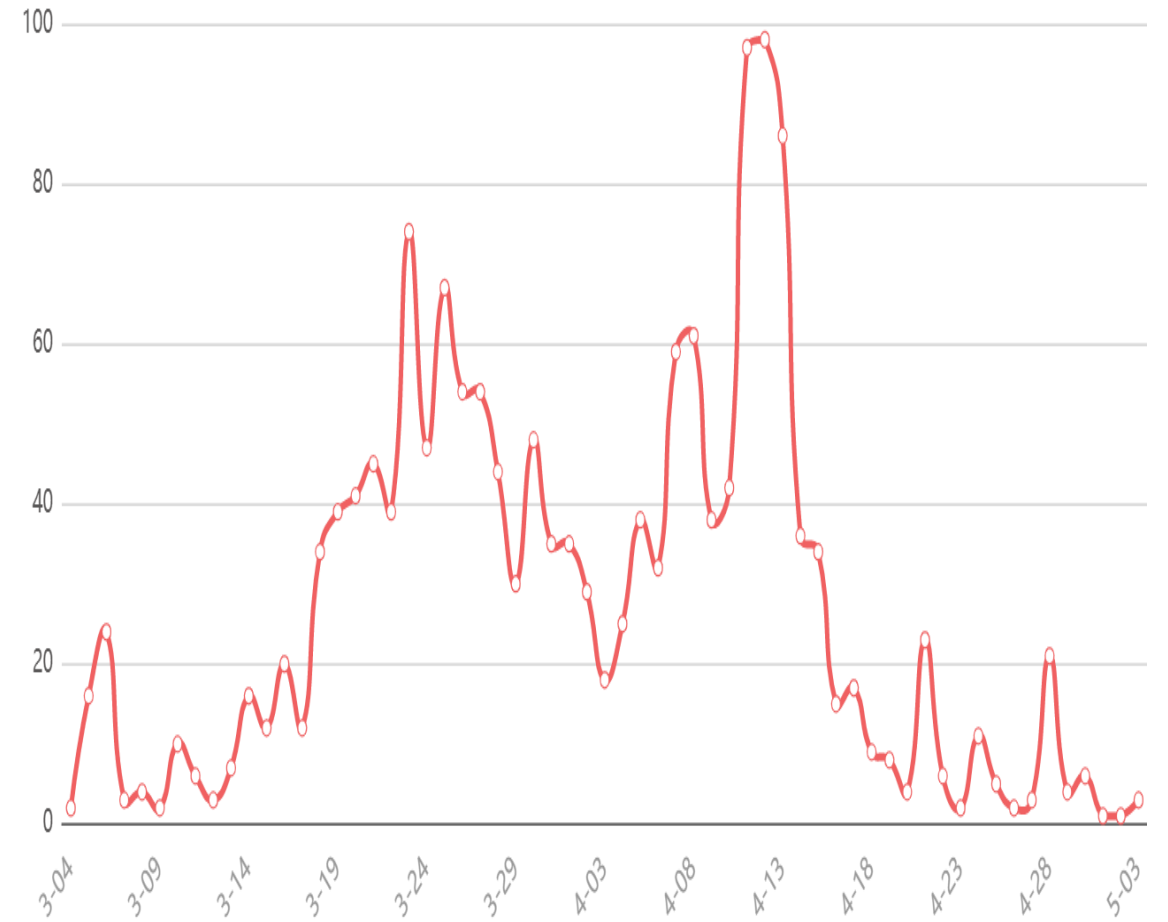
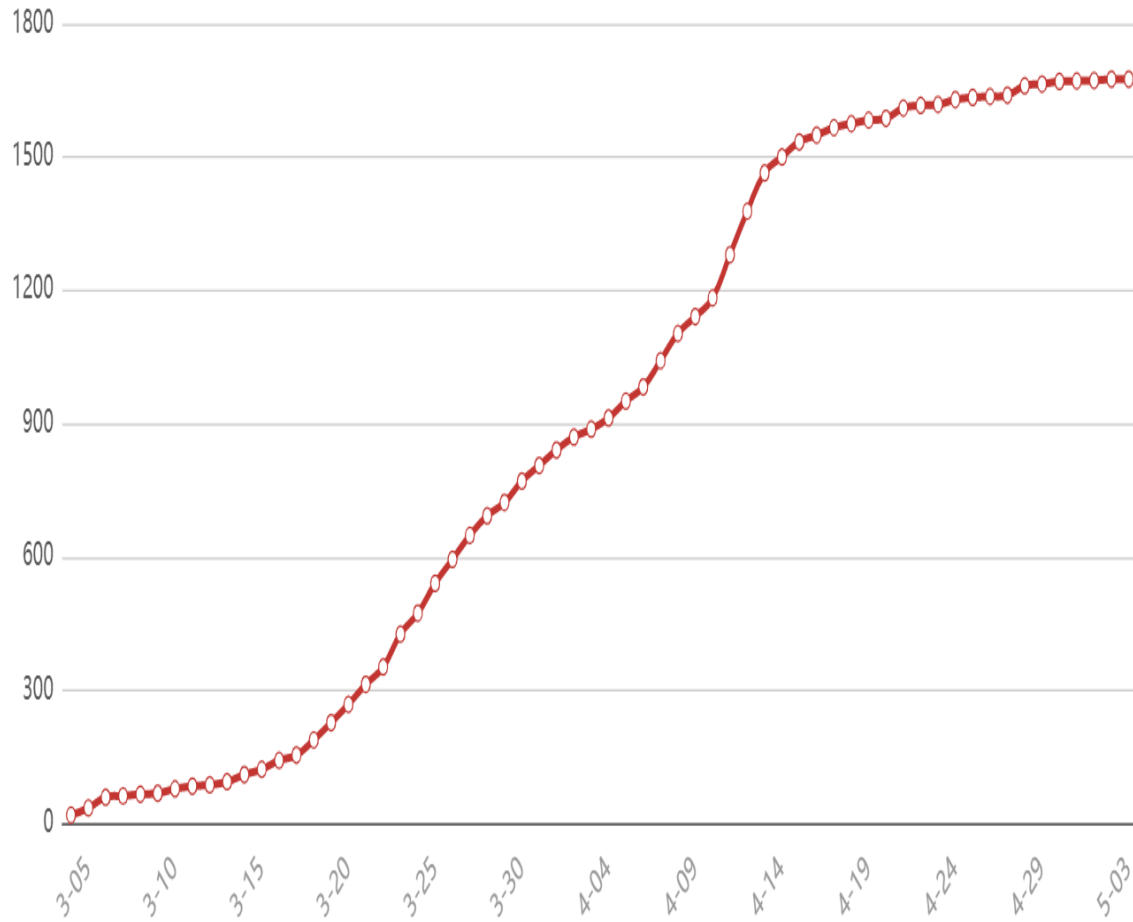
# China Covid-19 Update - Current



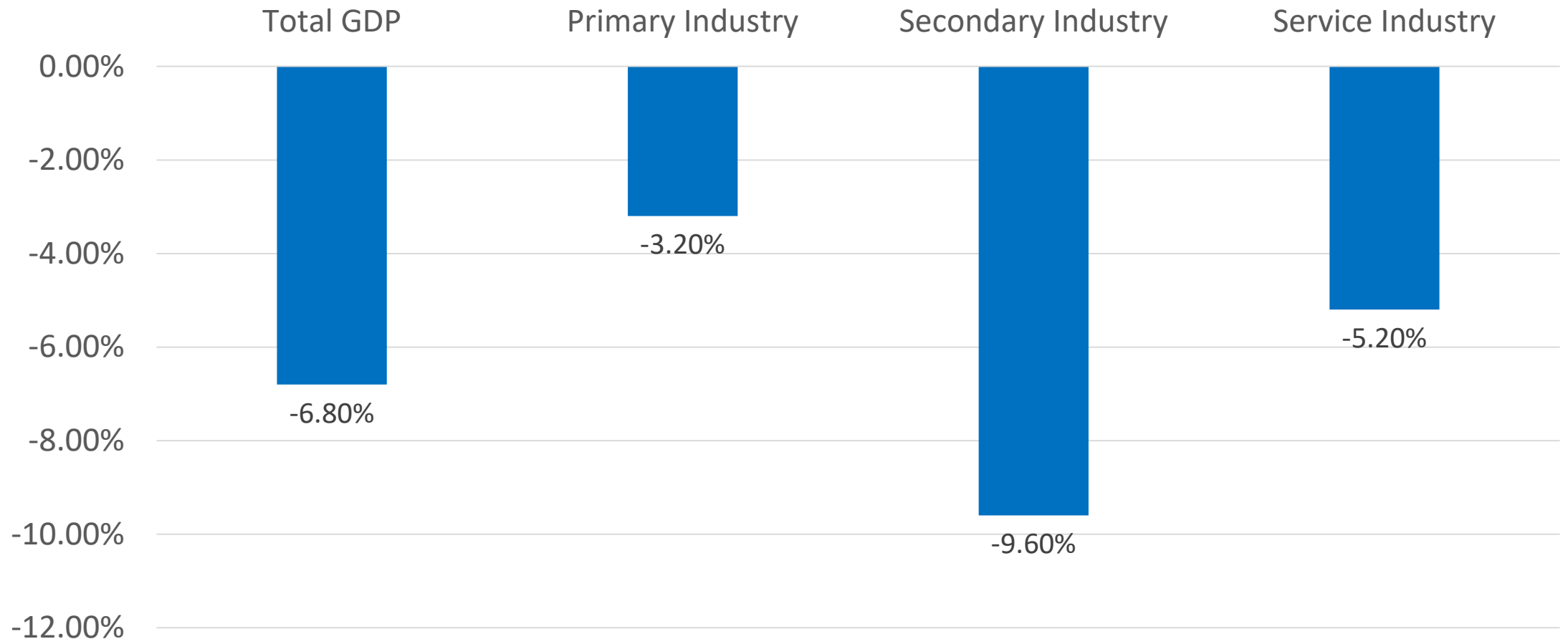
- 1. Total Cities reported confirmed cases: 338
- 2. Cities without confirmed cases: 324
- 3. Cities with confirmed cases: 14
- 4. Total confirmed cases, including Hong Kong, Macao and Taiwan: 495
- 5. Mainland China: 292



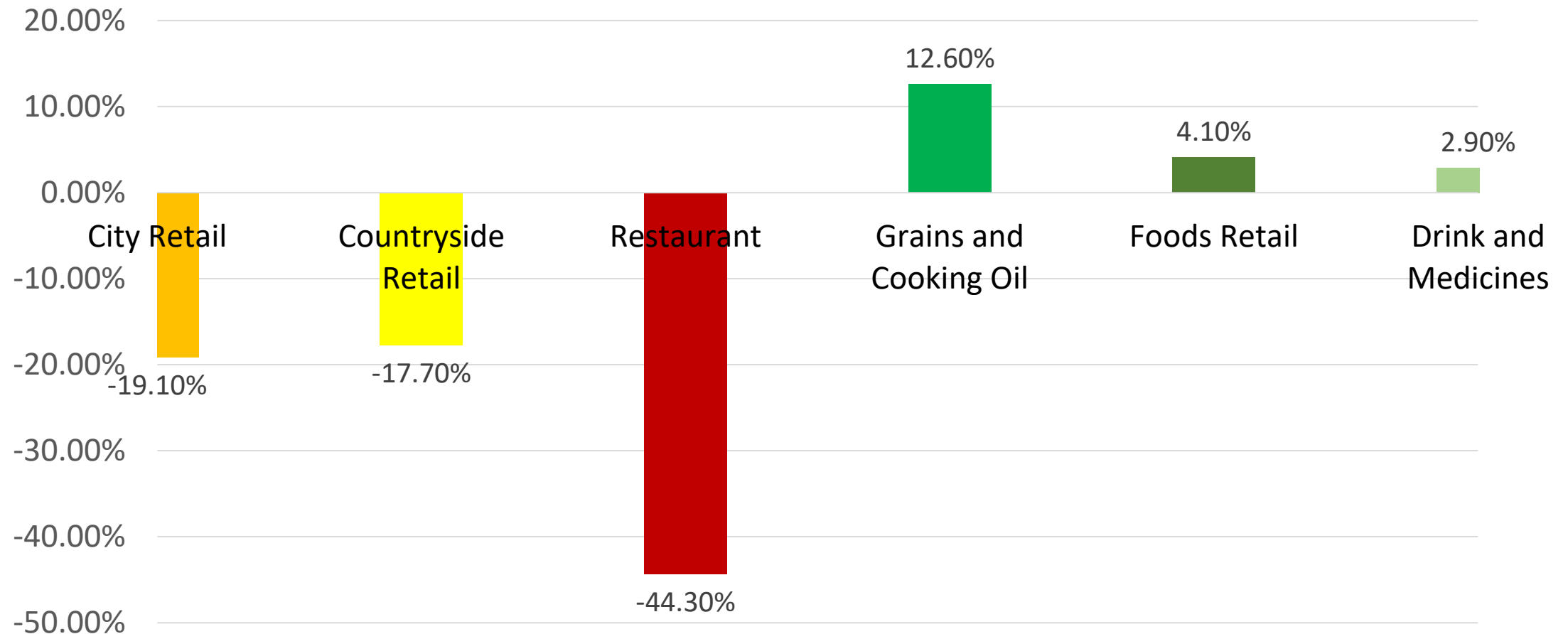
# China Covid-19 Update-Confirmed cases from overseas



# 2020 Q1 China total GDP and by Sectors



# 2020 Q1 China Major Consumptions



## 2020年一季度A股各行业净利润增速



数据来源: Wind



# 2020 Q1 China Major Sectors

# Covid-19 Personal Health Code

Personal National Standards for Covid-19 Personal Health Code:

1. Recommended Model:  
GB/T 38961-2020
2. Standard Template:  
GB/T 38962-2020
3. Information sharing:  
GB/T 38963-2020

## 杭州健康码



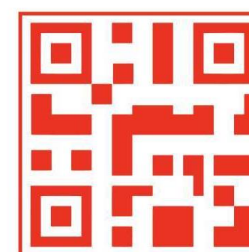
【绿码】

凭码通行



【黄码】

实施7天内隔离，连续  
(不超过)7天健康打卡正常  
转为绿码



【红码】

实施14天隔离，连续14天  
健康打卡正常转为绿码

防控疫情

人人有责



# Covid-19: China International Travel Health Self-Report Card

- After April 22, all passengers are required to register on WeChat or Alipay or other system for 14 consecutive personal health inspection and report card
- After arrive China, all passengers will be isolated in specific hotels for 14 days quarantine and Covid-19 testing



防疫健康码国际版

众志成城 抗击疫情

已购回国机票的中国籍旅客  
必须按要求填报信息

进入

北美票帝



www.chinaconsulatesf.org

简体中文 ENGLISH

中华人民共和国驻旧金山总领事馆  
CONSULATE-GENERAL OF THE PEOPLE'S REPUBLIC OF CHINA IN SAN FRANCISCO

首页 > 重要通知

提醒已购回国机票中国公民及时填报防疫健康信息  
2020/04/07

根据《中国民用航空局、中华人民共和国海关总署关于中国籍旅客乘坐航班回国前填报防疫健康信息的公告》，自北京时间4月8日起，在美已购买回国机票的中国公民在登机前必须提前通过防疫健康码国际版微信小程序，逐日填报个人资料、健康状况、近期出行情况等信息。从4月8日至4月22日为过渡期。过渡期内乘机的，应于4月8日起连续逐日填报。过渡期后乘机的，应于登机前第14天起连续逐日填报。

中国驻旧金山总领馆特此提醒美西地区中国公民：“防疫健康码国际版”每次填报后24小时内有效。已购回国机票人员务必按照公告要求每24小时内至少填报一次相关信息（多填不限，每填报一次，有效期将顺延至填报后的24小时），否则将导致健康码失效及连续填报中断。如出现失效情况，无法补填，只能从再次开始填报时间起重新计算连续填报天数。连续填报天数不足或健康状况异常将无法登机，虚假填报需承担相应法律责任。

“防疫健康码国际版”微信小程序二维码见文末。如有问题可拨打外交部全球领事保护与服务应急热线（+86-10-12308）咨询。

中国驻旧金山总领馆将全力以赴为领区中国公民提供帮助。





China Food Ingredients Plant Covid-19 Outbreak management & communication control



## May 1<sup>st</sup> Holiday China Traffic & Tourists



## Emergence of genomic diversity and recurrent mutations in SARS-CoV-2

[Lucyvan Dorp<sup>a</sup>](#), [Mislav Acman<sup>a1</sup>](#)

[Damien Richard<sup>bc</sup>](#), [Liam P.Shaw<sup>da</sup>](#) [Charlotte](#)

[E.Ford<sup>a</sup>](#) [Louise Ormond<sup>a</sup>](#) [Christopher J.Owen<sup>a</sup>](#)

[Juanita Pang<sup>ae</sup>](#) [Cedric C.S.Tan<sup>a</sup>](#) [Florencia](#)

[A.T.Boshier<sup>e</sup>](#) [Arturo Torres Ortiz<sup>af</sup>](#)

[FrançoisBalloux<sup>a</sup>](#)

- UCL Genetics Institute, University College London, London WC1E 6BT, UK a
- Cirad, UMR PVBMT, F-97410, St Pierre, Réunion, France • b
- Université de la Réunion, UMR PVBMT, F-97490, St Denis, Réunion, France • c
- Nuffield Department of Medicine, John Radcliffe Hospital, University of Oxford, Oxford OX3 9DU, UK • d
- Division of Infection and Immunity, University College London, London WC1E 6BT, UK • e
- Department of Infectious Disease, Imperial College, London W2 1NY, UK • f

## Highlights

- Phylogenetic estimates support that the COVID-2 pandemic started sometimes around 6 October 2019–11 December 2019, which corresponds to the time of the host-jump into humans.
- The diversity of SARS-CoV-2 strains in many countries recapitulates its full global diversity, consistent with multiple introductions of the virus to regions throughout the world seeding local transmission events.
- 198 sites in the SARS-CoV-2 genome appear to have already undergone recurrent, independent mutations based on a large-scale analysis of public genome assemblies.
- Detected recurrent mutations may indicate ongoing adaptation of SARS-CoV-2 to its novel human host.
- Monitoring the build-up and patterns of genetic diversity in SARS-CoV-2 has potential to inform targets for drug and vaccine development.

# Israel and Netherland studied claim progress in Covid-19 antibody trial

Nature Communications, May 4<sup>th</sup>, 2020

Separate studies in Israel and the [Netherlands](#) claim to have created antibodies that can block the coronavirus infection, a potential future treatment touted as a game-changer until a vaccine becomes available.

Scientists at Utrecht University, Erasmus Medical Center and the global biopharmaceutical company, Harbour BioMed (HBM), described it as “an initial step towards developing a fully human antibody to treat or prevent” Covid-19.

# An artificial intelligence system reveals liquiritin inhibits SARSCoV-2 by mimicking type I interferon

Jie Zhu<sup>1\*</sup>, Yong-Qiang Deng<sup>2\*</sup>, Xin Wang<sup>1\*</sup>,  
Xiao-Feng Li<sup>2\*</sup>, Na-Na Zhang<sup>2</sup>, Zurui Liu<sup>3</sup>,  
Bowen Zhang<sup>1</sup>, Cheng-Feng Qin<sup>2,#</sup>,  
Zhengwei Xie<sup>1</sup>,

# 1: Peking University, Beijing, China

#2: Academy of Military Medical Sciences,  
Beijing, China

# 3: Gigaceuticals Co. Ltd., Beijing, China

## Abstract

We employed transcriptional analysis to uncover potential antiviral drugs from natural products or FDA approved drugs. We found [liquiritin](#) [significantly inhibit replication](#) of SARS-CoV-2 in Vero E6 cells with EC50 = 2.39  $\mu$ M. Mechanistically, we found liquiritin exerts anti-viral function by mimicking type I interferon. Upregulated genes induced by liquiritin are enriched in GO categories including type I interferon signaling pathway, negative regulation of viral genome replication and etc. In toxicity experiment, no death was observed when treated at dose of 300 mg/kg for a week in ICR mice. All the organ indexes but liver and serum biochemical indexes were normal after treatment. Liquiritin is abundant in licorice tablet (~0.2% by mass), a traditional Chinese medicine. Together, we recommend liquiritin as a competitive candidate for treating COVID-19. We also expect liquiritin to have a broad and potent antiviral function to other viral pathogens, like HBV, HIV and etc.





# China Spice Industry Update

May 7th, 2020  
2020 ASTA Online Annual Conference

---

Mike Liu  
President, China Spice Association  
Chairman, BC Foods



# Contents

- **China Spice Production & Consumption**
- **China Spice Import and Export**
- **China Spice Industry Update**
  - China National Standards
  - Enforcing legal Import
- **Global Spice Trade Alliance**





# China Spice Wholesale Market

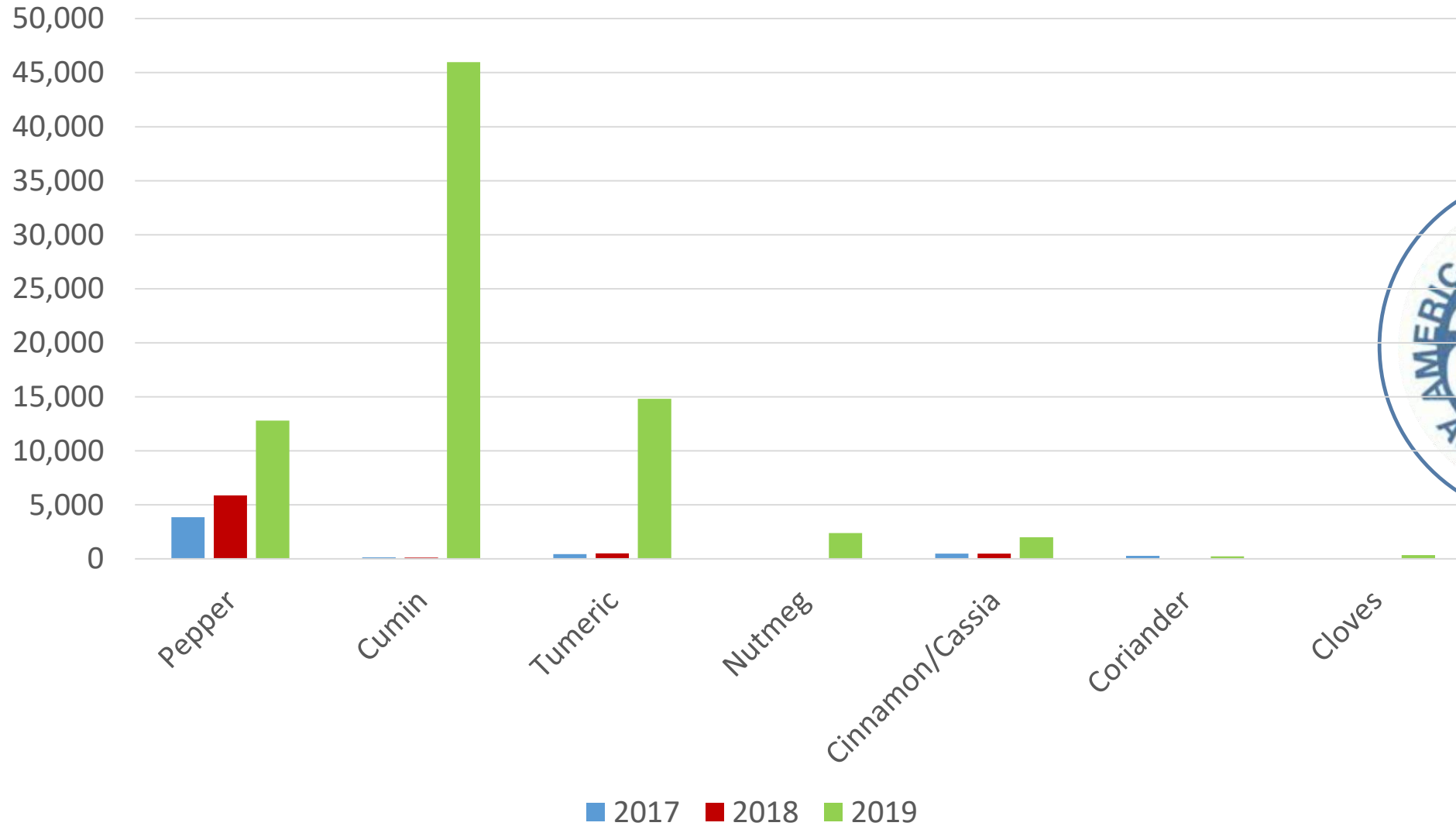


# China Spice Production Region

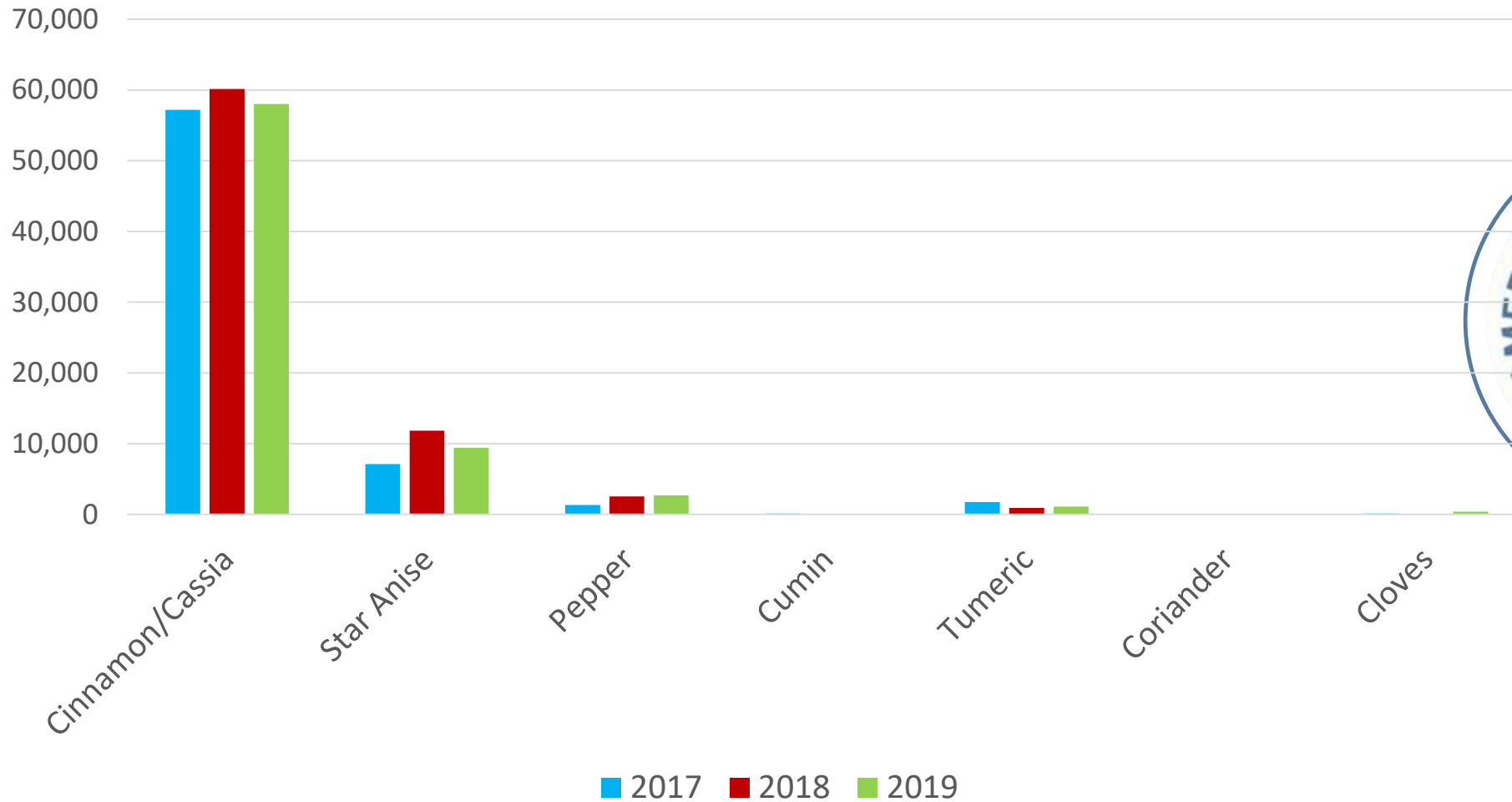


1. Xinjiang: Chili, Paprika, Cumin, Onion
2. Gansu: Chili, Paprika, Cumin, Onion
3. Guanxi: Star Anise, Cassia
4. Shaanxi: Chili and Sichuan Pepper
5. Sichuan: Chili and Sichuan Pepper
6. Hainan: White Pepper
7. Shandong: Garlic, Onion, Chili

# China Major Spices Imports Volume (MT) - Official Custom



# China Major Spices Exports Volume (MT) - Official Custom





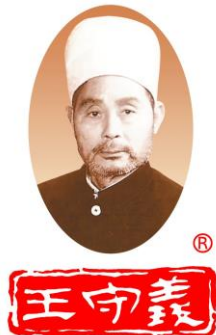
## China Spice Industry Update

Spice Market,  
Food safety standards,  
Enforcement of import regulations,  
Agriculture Technology

---



China  
Leading  
Seasonings  
& Sauce  
Brands



# China Institutional Food Services Brands

多品类食材采购平台	中式正餐连锁企业	中式快餐连锁企业	西式快餐连锁企业	火锅类连锁企业
<p>团餐类 连锁企业</p>			<p>餐饮O2O及外卖平台</p>	

China  
Leading  
Meat  
Processing  
Brands





# China Food Safety Standards

---

Maximum levels of contaminants in food

GB2762-2017

---

Maximum residue limits of pesticides in food

GB 2763-2019

---

Maximum levels of mycotoxins in food

GB 2762-2017



# China Food Safety Standards (cont.)

GB 2763-2019: New national standard for pesticide MRL's implemented on Feb. 15, 2020

- 318 pages, covering 467 pesticide residues with MRL's listed for all food and food ingredients
- Different crops have different MRL standards due to "Daily Intake" and agriculture practices

Spice Crop	Total pesticide type of MRL testing required
Chili Pepper	70
Cumin	39
Bell Pepper	11
Cinnamon	33
Onion	26
Garlic	30
Black and White pepper	40



# China Food Safety Standards (cont.)

GB 2763-2019: Black & White Pepper: 40 strict pesticide MRL requirements - other pesticides are prohibited

List	Pesticides Name	MRL (PPM)	List	Pesticides Name	MRL (PPM)
1	abamectin	0.05	21	bifenthrin	0.03
2	propineb	0.1	22	hydrogenphosphide	0.01
3	profenofos	0.07	23	endosulfan	5
4	amobam	0.1	24	permethrin	0.05
5	metiram	0.1	25	cypermethrin and beta G cypermethrin	0.1
6	mancozeb	0.1	26	malathion	1
7	zineb	0.1	27	prochlorazandprochlor az G manganese chloride complex	10
8	dichlorvos	0.1	28	methomyl	0.07
9	carbosulfan	0.07	29	fenvalerate and esfenvalerate	0.03
10	chlorpyrifos	1	30	triazophos	0.07
11	carbendazim	0.1	31	fenitrothion	1
12	diazinon	0.1	32	oxamyl	0.07
13	phosalone	2	33	aldicarb	0.07
14	cyfluthrinandbeta - cyfluthrin	0.03	34	quintozene	0.02
15	thiram	0.1	35	deltamethrin	0.03
16	ziram	0.1	36	omethoate	0.01
17	phorate	0.1	37	disulfoton	0.05
18	pirimiphos G methyl	0.5	38	ethion	5
19	methiocarb	0.07	39	vinclozolin	0.05
20	dimethoate	0.5	40	acephate	0.2



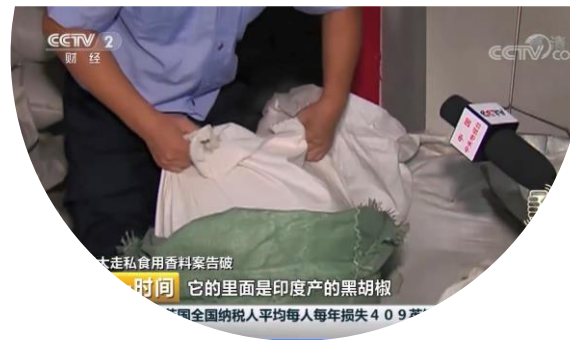
# China Customs Import Regulations - Imports Duty

Product	Origin Country	China Import Duty (%), Based on CIF Cost	VAT (%), After Duty is Paid
Spices	Vietnam	5	9
	Malaysia	5	9
	Indonesia	5	9
	India	20	9
	Brazil	20	9



# China Customs Import Regulations - Enforcement

- Govt. is cracking down on illegal border trade thru Vietnam for spices
- Approval of legal spice imports are now country specific and with use designation for either culinary or medicinal use



两亿，35吨！北京海关破获走私调料大案，小小调料暗藏暴利！



提起海关，可能大家并不了解，觉得他们只是简单的把守在边境、机场等地点。其实海关每年都要破获很多走私大案，也是一个不折不扣的执法机关。而近些年来，农产品走私案件高发多发，这种关系老百姓日常生活的农产品一旦脱离了国家的控制，会直接损害国家利益和广大农民经济利益，威胁我国农业生产保障体系，还侵害经济秩序，偷逃国家应缴税款。而北京是华北地区最重要的农产品终端市场和集散中心，所以北京海关也屡屡有一些大动作！



Beijing: Spices Illegal Import valued at RMB 200M (\$28.6M)

南宁海关查获3个走私干辣椒团伙 律师称印度产干辣椒关税率为10%



转自：海关法律事务评论

2019-03-26

昨日，南宁海关通报称，南宁海关缉私局近日打掉3个专门从事干辣椒走私团伙，涉案干辣椒等农副产品约1万吨，案值共计1亿多元。3月20日，南宁海关缉私局在地方公安机关的大力支持配合下，共出动警力110余名，分成13个行动小组，分别在南宁、凭祥、柳州、玉林等地同步开展集中抓捕行动，一举打掉3个干辣椒走私团伙，10名犯罪嫌疑人全部到案。现场查获干辣椒约6吨以及账本等书证物证一批。该案涉嫌走私原产于印度等地干辣椒等农副产品约1万吨，案值1亿多元，涉嫌偷逃税款2500万元。

Nanning: Indian chili valued at RMB 100M (\$14.3M)





## Increased Mechanization Planting

Onion planting with precision seeding machine in Gansu, China





# Increased Mechanization Harvesting

Onion planting with precision seeding machine in Gansu, China



# Drone Technology

Drones are ubiquitous and are being used in multiple ways including for crop monitoring and for pesticide and fertilizer applications. This is a tremendous savings for farms with limited manpower.





# 5G Technology and Mobile Applications

Intelligent Ag APP  
phone interface



Provides  
access to  
weather  
data, MRL  
levels, crop  
status etc.  
in real time

00262	山东百佳食品有限公司-2	2019-09-21 13:32	23.00	60.10	45670.00	1.20	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 13:31	23.10	60.10	45670.00	1.40	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 13:27	22.80	60.10	45410.00	0.20	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 13:23	22.50	60.10	45150.00	3.10	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 13:19	23.10	60.20	45150.00	1.00	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 13:16	22.80	60.20	44900.00	2.10	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 13:15	22.80	60.20	44900.00	2.40	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 13:11	23.20	60.30	44640.00	2.60	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 13:07	22.90	60.20	44380.00	2.10	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 13:03	23.30	60.30	44120.00	1.70	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 12:59	23.90	60.40	43860.00	0.40	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 12:56	22.70	60.20	43610.00	0.30	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 12:51	22.50	60.20	43350.00	1.80	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 12:45	22.70	60.30	43090.00	0.00	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 12:41	22.70	60.30	42570.00	1.50	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 12:40	22.90	60.30	42570.00	2.00	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 12:37	23.30	60.40	42310.00	1.30	0.00	0.00
00262	山东百佳食品有限公司-2	2019-09-21 12:36	23.00	60.40	42310.00	0.90	0.00	0.00

# 5G Technology and Mobile Applications (cont.)



Irrigation control



Pest management model



Intelligent Ag APP  
Irrigation / Pump Control



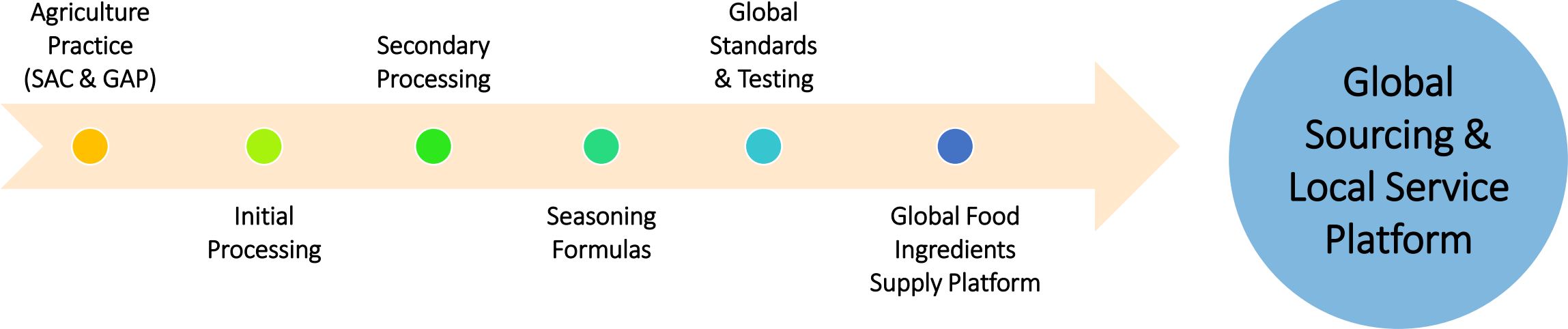


# Global Spice Trade Alliance Partnership

---

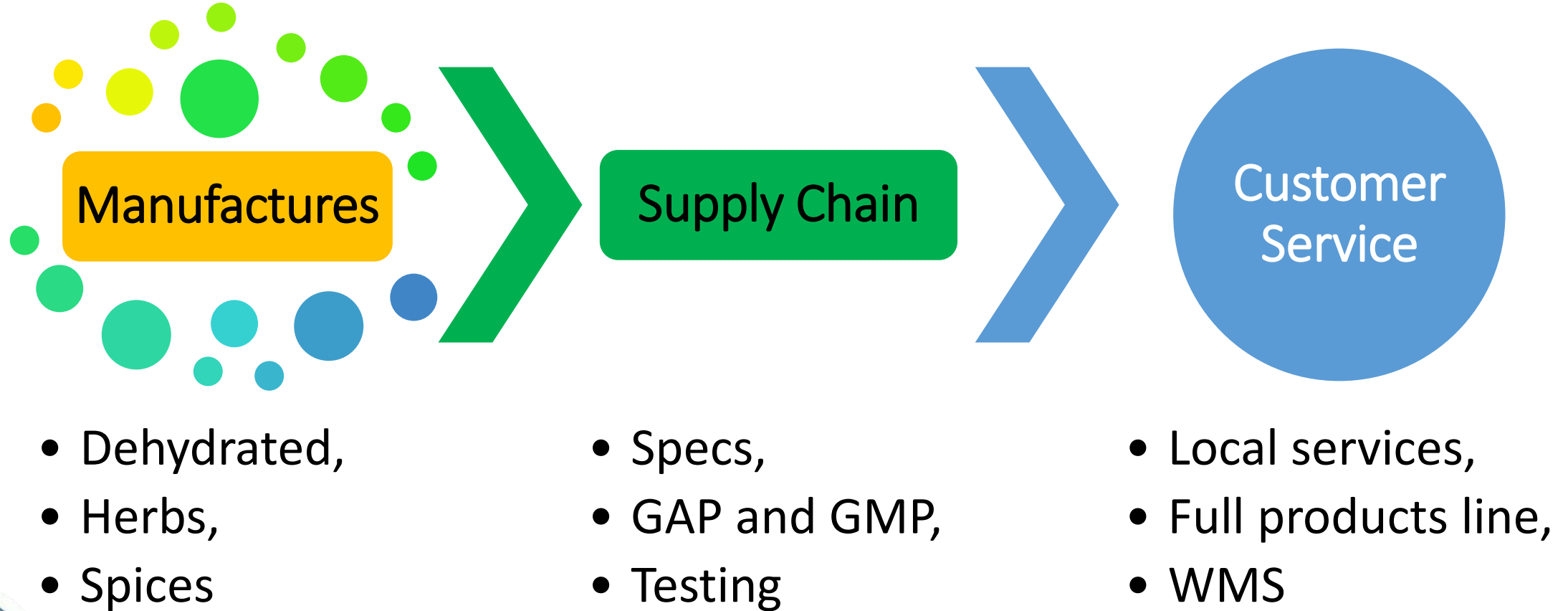


# Global Food Ingredients Business Trends: Global Sourcing & Local Services



# Global Food Ingredients Business Trends (cont.):

**ABC** (**Alliance** of **Better Choice** global food ingredients supplies)



# Harmonized National Standards

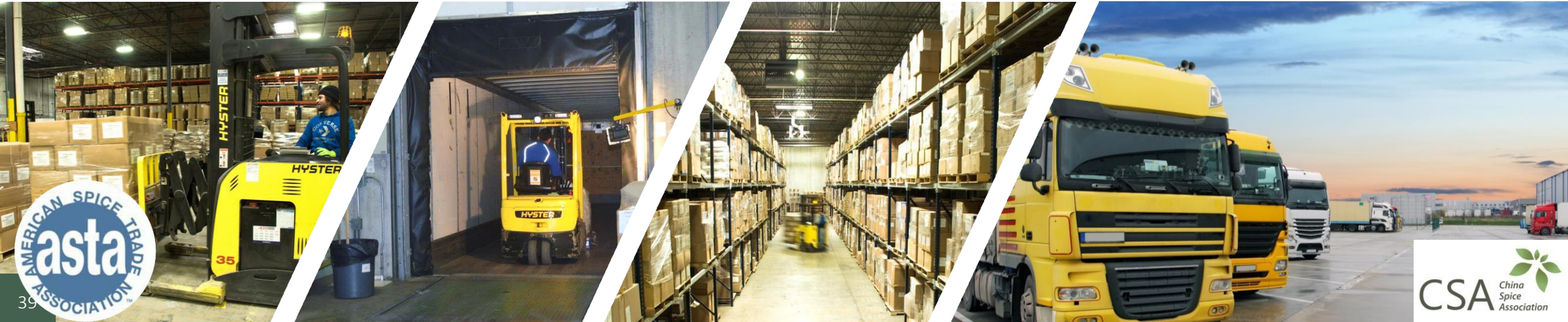
English Name	Current Official Standard			CSA Plan	CSA Annual Plan
	ISO	ASTA Monograph	China GB/T		
Paprika	ISO7540:2006	Yes	N/A	New	2020
Sichuan Pepper	N/A	N/A	GBT30391-2013	New	2021
Dehydrated Onion	ISO5559:1995	Yes	GB8860-1988 (Abolish)	New	2021
Dehydrated Garlic	ISO5560:1997	Yes	GB8861-1988 (Abolish)	New	2020
Dehydrated Ginger	ISO1003:2008	Yes	N/A	New	2020
Fennel	ISO7927:1987	Yes	N/A	New	2020
Cinnamon	ISO6539:2014	Yes	N/A	New	2020
Star Anise	ISO11178:1995	N/A	GBT7652-2016	Revise	2020
Cassia	ISO6538:1997	N/A	GBT30381-2013	Revise	2020
Chili	ISO972:1997	Yes	GBT30382-2013	Revise	2020
Black Pepper	ISO959-1:1998	Yes	GBT7901-2018	Revise	2020
White Pepper	ISO959-2:1998	Yes	GBT7900-2018	Revise	2020
Clove	ISO2254:2004	N/A	GBT22300-2008	Revise	2020
Cumin	ISO6465:2009	Yes	GBT22267-2017	Revise	2020
Coriander Seed	ISO2255:1996	N/A	GBT22306-2008	Revise	2021
Bay leaf	ISO6576:2004	N/A	GBT30387-2013	Revise	2021
Nutmeg	ISO6577:2002	Yes	GBT32727-2016	Revise	2021
Cardamom: Whole capsules	ISO882-1:1993	N/A	GBT22305.1-2008	Revise	2021
Cardamom: Seeds	ISO882-2:1993	N/A	GBT22305.1-2008	Revise	2021
Large Cardamom	ISO10622:1997	N/A	GBT30379-2013	Revise	2021
Turmeric	ISO5562:1983	Yes	GB1886.60-2015	Revise	2021
Oregano	ISO7925:1999	Yes	GBT22302-2008	Revise	2021
Basil	ISO11163:1995	Yes	GBT22304-2008	Revise	2021
Sage	ISO1165:1995	N/A	GBT32729-2006	Revise	2021



# Global Spice Trade Alliance Local Services

- Professional warehousing food ingredients from around the world
- An uncompromised commitment to quality and accuracy
  - Inbound Inspections
  - Allergen control program
  - Top tier pest control
- Customer convenience using real time information
  - Electronic order receipts notification
  - Order monitoring through portal
  - Inventory status

- Product inspections
- Magnet and metal detection
- Micro reduction
- Blending
- Local logistic services
- Additional services available upon request



Thank You

---

We Look Forward to Cooperating  
Together

[mike.liu@bcfoods.com](mailto:mike.liu@bcfoods.com)

BCFoods

[BCFoods.com](http://BCFoods.com)

