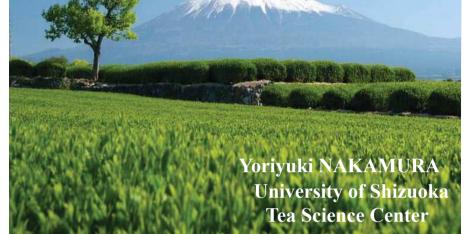
**Excellent Character of Japanese Green Tea and Advanced Production Technology in Japan** 





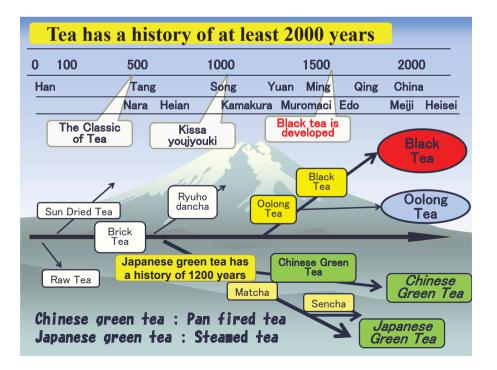
## **Characteristics of Tea**

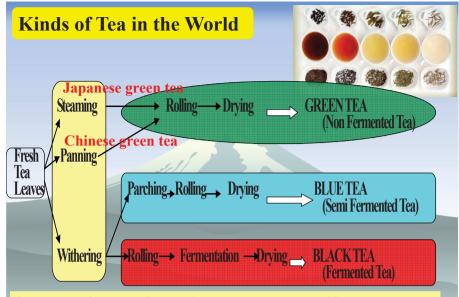


## Tea have different chemical components from other plants

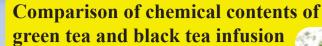
- ☆ Caffeine
- ☆ Catechins of Gallate type
- ☆ Theanine (Free Amino Acid)
- **Others**(Fluorine, Aluminum etc.)







On the base of method of processing Japanese system classifies tea to three groups, however Chinese tea is basically divided into six groups: Green tea, Yellow tea. Dark tea. White tea. Blue tea. Black tea



The chemical contents of green tea and black tea infusion (Dry weight %)

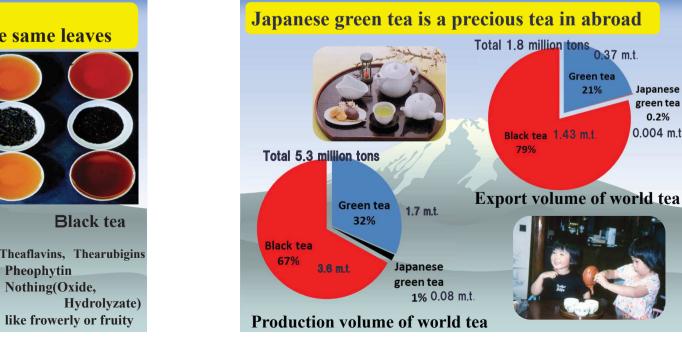


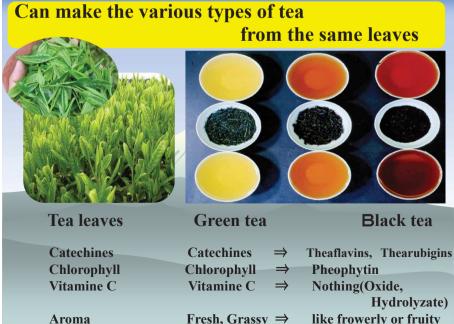
	Green tea	Black tea
Total Catechin	30-42	3-10
Theaflavin	0	2-6
Polyphenol	2	3
Flavonol	8	24
Theanine	3	3
Organic Acids	2	2
Caffeine	3-6	3-6
Vitamine C	4	0



Japanese

green tea 0.2% 0.004 m.t.





## **Different Kinds of Japanese Green Tea**





#### Sencha

This is the most popular type of tea in Japan.

#### Gyokuro

This is the finest tea in Japan, and its taste is a tender sweet astringency and special flavor.

#### Tencha

This is ground in a stone mortar into Matcha (Powdered Tea) and used in a tea ceremony.

## **Excellent character of Japanese green tea**

- **1.** Have a long history **6.** Steaming method
- 2. Culturally rich
  - 7. Tea look a needle
- 3. Superior cultivar 8. Color is green
- 4. Beautiful tea field 9. Umami is strong
- 5. High technology 10. Greenish aroma
- **11. Vitamin C content is high etc.**

The taste differs depending on how it is made

### **Different Kinds of Japanese Green Tea**

enmaicha

encha





#### Bancha

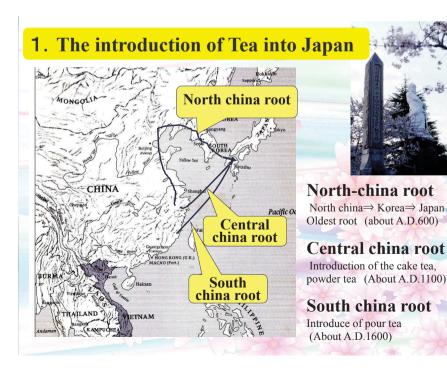
This is lower grade of tea, made from mature leaves and stalks.

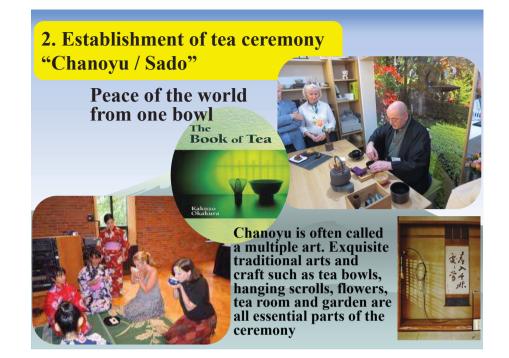
#### Hojicha

This is lower grade tea, made from Bancha by roasting at about 200°C for a few minutes.

#### Genmaicha

This is Bancha, in which poprice and Genmai are added, having good flavor.





# **3.Breeding and spreading cultivar suitable for** Japanese green tea **Superior cultivar**

Seedling tea field





Cutting propagation and clonal tea field

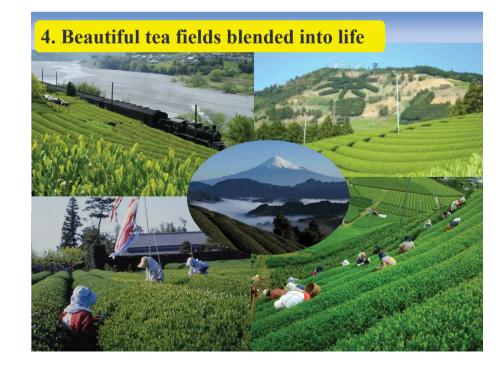
## Sprits of "Chanoyu / Sado"

In chanoyu, through exchanges of hospitality and appreciation, the host and guests can share a quite, heartwarming, peaceful time and reach a state of spiritual enlightenment so called Wa-Kei-Sei-Jyaku.





Wa-Kei-Sei-Jyaku (和敬清寂) "Wa" : open each other's heart. "Kei" : respect each other. "Sei" : purify your surrounding and your spirit. "Jyaku": maintain a spirit of quietness







### **Rail-tracking and riding-type plucking machine**



Rale-tracking plucking machine



Harvest bag Type



Harvest small bag Type



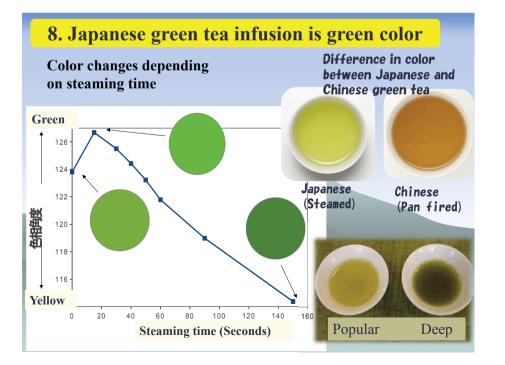
**Riding Container Type** 

## 6. The only steaming process in the world

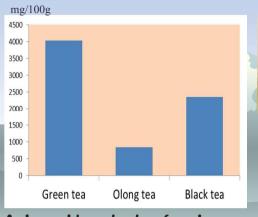
The oxidizing enzymes contained in the fresh leaves are stopped by the steam-heat. By steaming the leaves it becomes the aroma and taste exceptional to Japanese tea.







## 9. Japanese green tea has a high amino acid and a low catechin content



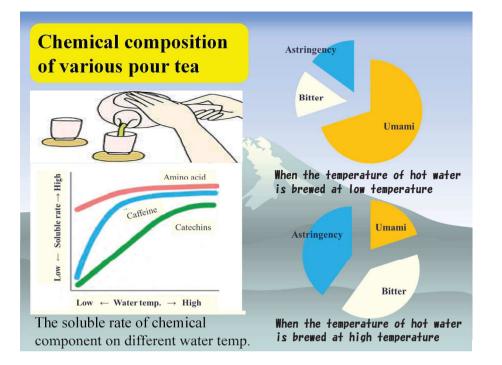
Amino acid contents of various kinds of tea

6	2 mg	it's
	ZA	

Catechins contents of various kinds of tea

Chinese type	13~17%
Hybrid	16~23%
Assam type	25~30%



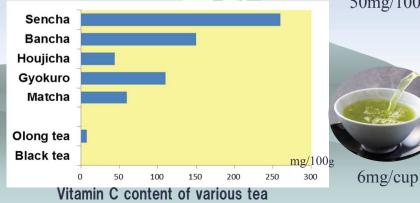




## **11. Japanese green tea contains a high amount of vitamin C**

The level of vitamin C which has been shown to prevent scurvy and the common cold, is decreased during the fermentation stage.





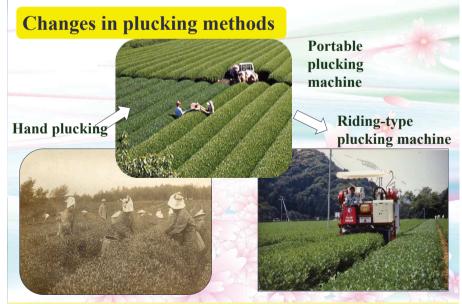


Foods in Genaral	ods in Genaral Any food labeled as a nutritional supplement, a health support, or a nutrient controlling food fails under the category			
	Foods for Specified Health Uses	(individual approval system)	Nutrient contents labelling, Health claims labelling,	
Foods with Health Claims	Food with Nutrient Function Claims	(standard regulation system)	Nutrient contents labelling, Nutrient claims labelling	
	Foods with Function Claims	(individual approval system)	Function claims labelling	
Drug		(including quasi-drugs)	Reality and Annual Annua	









Plucking changed from hand plucking to transportable plucking machines and then to riding-type plucking machines, and plucking efficiency improved remarkably.

## **Plucking Methods of New Shoots**

1 201	
The man	
- Carlo - Carlo	

Plucking efficiency			
Methods	The amount of new shoots per day per person		
Hand plucking	10	$\sim$	$15~\mathrm{kg}$
Hand-shear plucking	100	$\sim$	200
Mechanical plucking			
Portable machine for two persons	700	$\sim$	1,000
Riding machine	4,000	$\sim$	5,000
Self-rail-tracking machine	2,000	$\sim$	3,000

Hand plucking



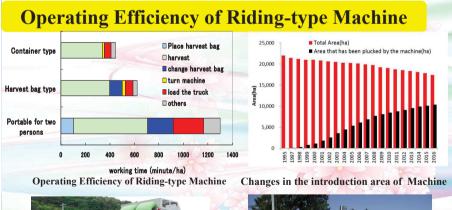
Hand-shear plucking





Portable machine for two persons

n Riding-type plucking machine





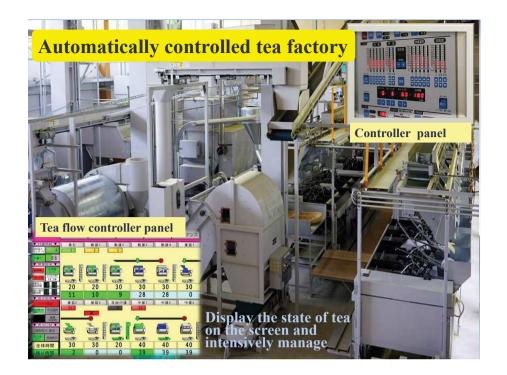
Harvest bag Type

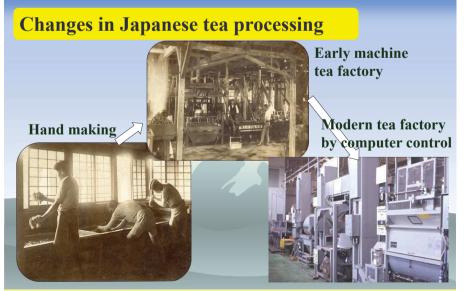


Portable pruning machine

Riding pruning machine







Manufacturing has been mechanized from hand making, and recentry by technologically innovating to automation with sensor and computer control, we have established Japan's unique production processing

## **Making Process of Japanese Green Tea**







Cooperative tea factory

Primary drying tea roller Secondary drying tea roller







Tea steaming machine

Tea roller

Finally drying tea roller

