**Information of Plants EarthChicken/NASA Hackathon 2019**

**1.相思樹(闊葉木) Taiwan Acasia, *Acacia confusa* (Hardwood)**

闊葉樹(HARDWOOD)為葉子寬闊的樹木組成的樹林，其特徵為樹木形狀較為低矮圓鈍。材質硬度較高，加工也較為費力耗時，商業價值較低。

適合生長地區於溫暖乾燥的緯度較低處，若於高緯度地區則分布於較低之海拔。相思樹因生長快速且固氮量多, 過去提供為重要的炭薪木材, 現更以固碳力被大為推薦.

Taiwan Acasia belongs to *Acasia* genus, which is a type of hardwood species with round evergreen leaves. Its tree shape is short and round. Due to its hard timber texture, it is less profitable with laborious process. It prefers to grow under warm and dry condition and also under low altitude of mountainous area. The *Acasia sp.* grows fast but with high carbon content that had been widely used for charcoal and now is deemed as one of the major species for carbon sequestration.

**2.肖楠(針葉樹)**

針葉樹(SOFT WOOD)其樹木樹葉大部分都是細細長長的針狀，樹木形狀較為瘦長拔高。木材商業價值高。在緯度較高的溼冷氣候生長得很好，若於低緯度地區則分布於較高之海拔。

Cedar is a type of softwood with needle leaves that can withstand water deficit under cold environment. Its tree shape is thin and tall with high timber texture. Of all the above quality mentioned above, cedar trees are valuable timber for architecture and furniture. It prefers to grow under cold and humid climate and can also survive in high altitude area of low latitude region.

**3.稻米**

是人類重要的[糧食](https://zh.wikipedia.org/wiki/%E7%B2%AE%E9%A3%9F)作物之一，耕種及食用的歷史相當悠久，為世界糧食作物總產量的第二位，現在全世界約有一半的人口以稻米為主食。高溫多雨的氣候條件將促使稻米的成長快速，如季風氣候是適合稻米的生長環境。現今世界上的主要稻米栽種區為[亞洲](https://zh.wikipedia.org/wiki/%E4%BA%9A%E6%B4%B2)、[歐洲](https://zh.wikipedia.org/wiki/%E6%AC%A7%E6%B4%B2)南部和熱帶[美洲](https://zh.wikipedia.org/wiki/%E7%BE%8E%E6%B4%B2)及[非洲](https://zh.wikipedia.org/wiki/%E9%9D%9E%E6%B4%B2)部分地區.

Rice is the most important staple food of the world. It has a long history in cultivation and food use. Its total amount of production is in the top two food sources of the world. Currently at least half of the world population relies on rice as their major food source. Rice grows under high temperature and high rainfall areas, of which monsoon influence is the most suitable weather system for rice. Nowadays rice fields can be found in Asia, south Europe, South America, and part of Africa.

**4.玉米**

玉米起緣於美洲大陸，隨著世界航海業發展逐漸傳播至各地。目前為世界上糧食作物產量之首。在亞洲多做為人類糧食，在北美洲和歐軸多作為牲畜飼料。  
玉米對自然條件需求小，能適應多數環境。現今在亞洲、北美洲、歐洲都有大量種植。

4. Maize

Maize was found in Americas, and then was distributed worldwide during the Age of discovery. It is now the top food source of the world. In Asia, maize is often consumed by human while in the north America, it is used as fodder. Maize is a very adaptive crop for it has low requirement for nutrients. Maize can be found in many places around world including Asia, North America, and Europe.

**5.麥**

小麥的為人類的主食之一，常被加工為麵粉及各類加工食品食用。

其種植條件較不嚴格，需水量不大、耐旱能力強。適合種植於溫帶地區。現今世界上的主要種植區為歐洲平原、北美大平原、南美阿根廷彭巴草原、部分東亞與南亞地區。

5. Wheat

Wheat is the major source of humankind: mostly made for flour and all kinds of processed food. It does not require high nutritious condition to grow and especially for water making it tolerance to drought. It is adaptive to temperate regions in which the major production areas are plains of Europe, big grassland of the north America, and Pampa of Argentina, part of East Asia, and South Asia.