

NTCIR-19 DAGRI Task type (Pilot)

Data Analytics for aGRicultural Information (DAGRI)

Yasutomo Kimura, Hiroki Sakaji, Kazuma Kadowaki, Akio Kobayashi, Masahiro Otomo and Junichi Ishihara

Goal:

Transform complex data, such as diagrams and tables in **agricultural documents**, into machine-readable formats to advance AI technologies in agriculture.

Task:

Subtask 1: Conversion from PDF to CSV (PDF2CSV)

Subtask 2: Table-based Question Answering (TableQA)

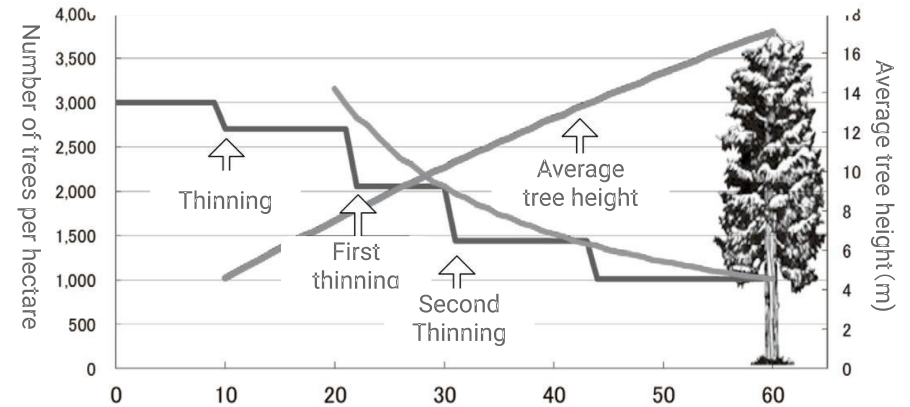
Subtask 3: Figures and Tables Question Answering (FiT-QA)

Impact:

Digitizing agricultural knowledge streamlines local information sharing and empowers the next generation of farmers.

An example of complicated figure
Nagasaki Prefecture Hinoki Artificial Timber Facility System

Based on the Tsushima Region Forest Plan, with a short cutting cycle of 60 years



Average tree height		5	8	10	13	15	17
Average diameter at breast height				14	18	22	24
形状比		71	73	71	72	68	71
見込み林齢		10	20	30	40	50	60
除間伐	回数	Thinning	First	Second	Third		
	林齢	10	22	31	44		
	間伐本数	300	648	616	431		
	間伐率	10%	24%	30%	30%		
	残存本数	2,700	2,052	1,436	1,005		
収量比数			0.51	0.52	0.53	0.65	
旧Ry			0.67	0.70	0.73	0.84	