

#### Adaptation of vegetable farmers to climate change in the Parisian region: a participatory approach using climate data Climate change is challenging vegetable production

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# Adaptation of vegetable farmers to climate change in the Parisian region: a

participatory approach using climate data

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Online survey

(on-going)



## Climate change is challenging vegetable production

But complex and many factors; need to integrate farmers' perspective at the farming system level to support adaptation

### A multi-step approach involving stakeholders

CLIMALEG Adaptation des productions légumières au changement climatique •

2 workshops with experts and agricultural institutions (7)

What climate factors are

relevant to assess vegetable

vulnerability?

What climate data needed to support adaptation?

Synthetic climate data for vegetable farmers

What future priorities for adaptation?

Specific future programm on water

Climate Main Climate vulnerable factor relevant indicator crops Higher \* Maximum Overall temperatures summer tunnel daily crops such as temperature values from tomatoes, cucumbers, une to aubergines. September; Number of days per month with temperatures > 30°C All frosty \* Days with Late frost minimal vegetables at

the seedling

especially when May.

stage (5, 7

leaves),

trying to

• • •

advance them.

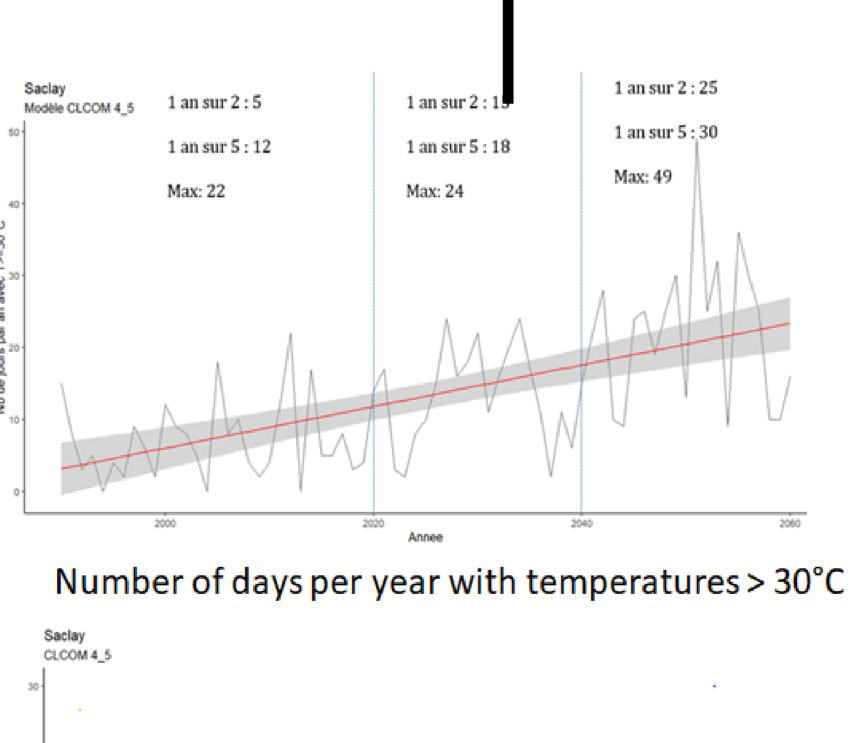
temperatures <

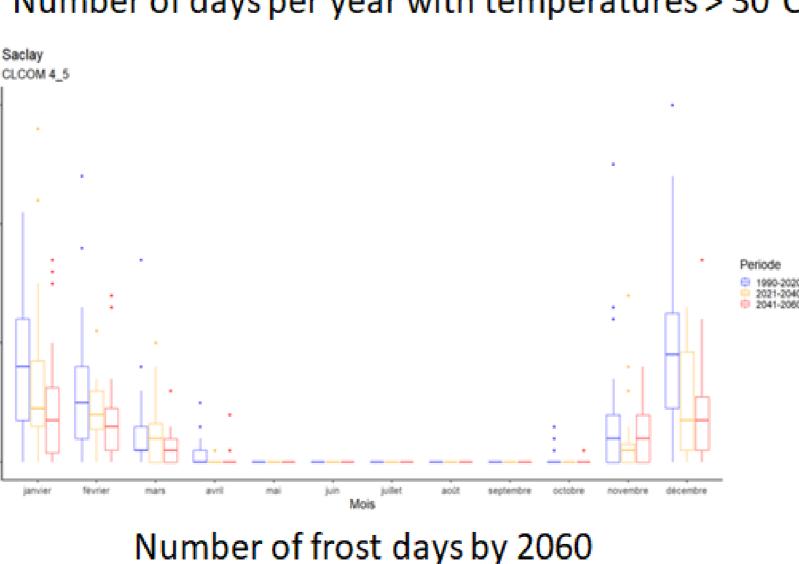
from March to

-2°C or 0°C

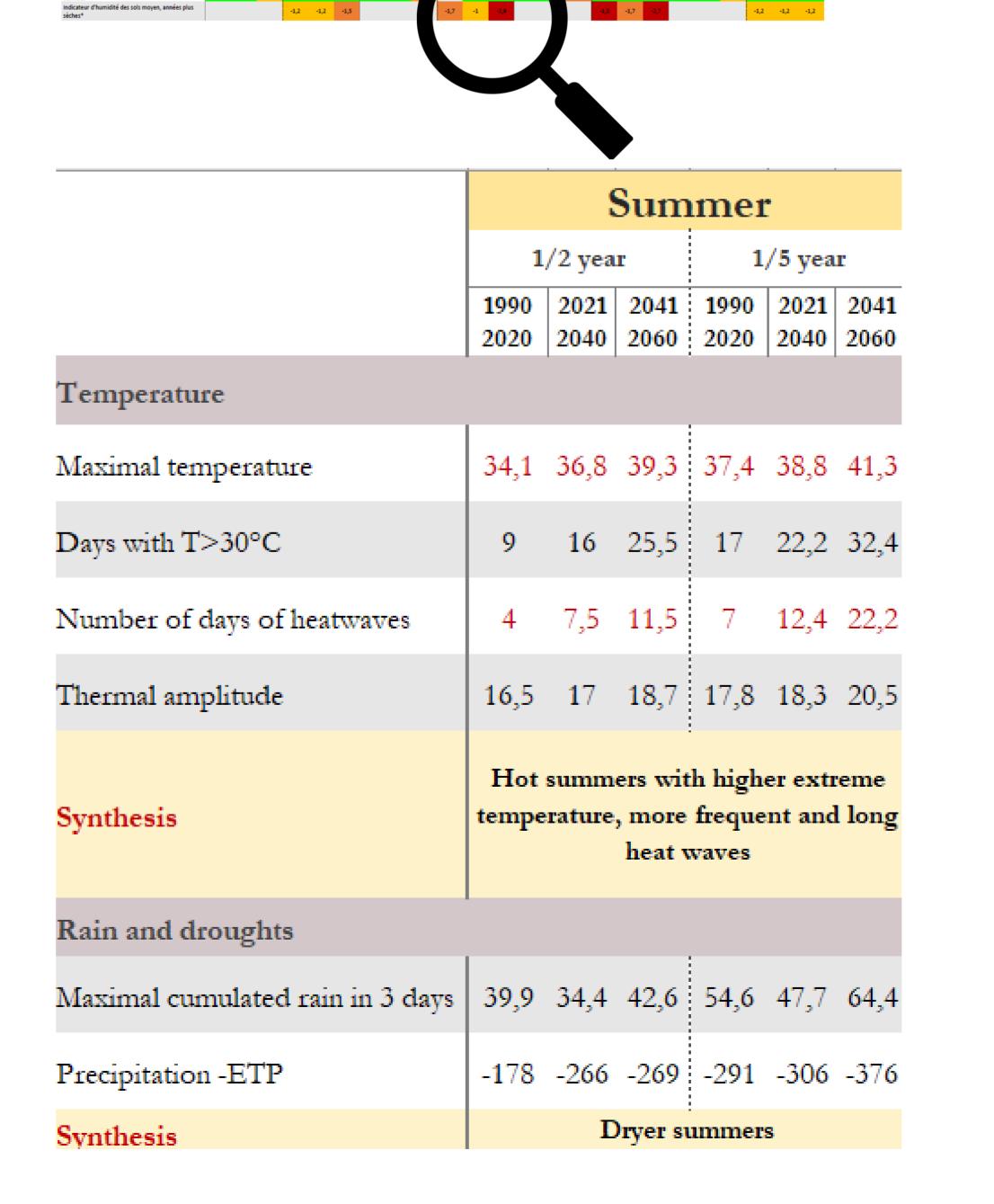
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Tab. 1 Example of some of climate factors affecting the main crops (in total 11 climate factors, around 20 indicators) 3 workshops with local farmers (23)





Presenting climate simulations (8\*8 km; CLMcom model; scenario 4.5)



.Fig 1 Zoom on the synthetic table with climate data for farmers. In total 17 indicators.

## Climate data needed by vegetable farmers to adapt strategies

- Multifactorial (T, Rain, wind...)
- Seasonal scale (winter, spring, summer, autumn)
- Risk (1 year out of 2, 5)
- Different time horizons (near and far future)

### Debates raised by farmers

Toward an increase use of protected tunnels and technology (cost, energy, plastic, inequality to access) or low-cost agroecological practices

Pressure on vegetable farmers to be more efficient in water use but politicial priority should be given to horticulture (sharing resources)

If change in crops and crop planning, consumers have to change eating habits