

Subject: RE: Humidity again
From: Inaki Garcia-De-Cortazar-Atauri <inaki.garciadecortazar@inra.fr>
Date: 9/8/16, 6:55 AM
To: Andrew Walker <awalker@ucdavis.edu>, Elizabeth Wolkovich <lizzie@oeb.harvard.edu>
CC: Amber Parker <Amber.Parker@lincoln.ac.nz>, Inaki Garcia de Cortazar Atauri <igarcia@avignon.inra.fr>, Nicole Merrill <merrill.n@husky.neu.edu>

Hi Lizzie,

I also prefer "a" option, maintaining soil moisture (as you propose).
For information, I just calculated average relative humidity values in Avignon for May–July period from 1990 until now, and humidity range is from 47.5 until 79.2 %
So I think it is better to maintain 47.5 (but not lower values).
All the best

Iñaki

Veillez noter ma nouvelle adresse inaki.garciadecortazar@inra.fr

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-----Message d'origine-----

De : Andrew Walker [<mailto:awalker@ucdavis.edu>]
Envoyé : jeudi 8 septembre 2016 01:20
À : Elizabeth Wolkovich <lizzie@oeb.harvard.edu>
Cc : Amber Parker <Amber.Parker@lincoln.ac.nz>; Inaki Garcia de Cortazar Atauri <igarcia@avignon.inra.fr>; Nicole Merrill <merrill.n@husky.neu.edu>
Objet : Re: Humidity again

Hi Lizzie – I 'd go for "a" and vary the temps. andy

| On Sep 7, 2016, at 3:30 PM, Elizabeth Wolkovich <lizzie@oeb.harvard.edu> wrote:

Hi all,

New issue! It looks like we may not be able to maintain 80% humidity above 37 C (our chambers say currently 'equipment was not designed for relative humidity above 47.5% at 37 C'). So, if you can please vote on the best alternative:

(a) Set all chambers to 47.5% humidity but keep the plants in nice moist soils

(b) Set all chambers to 80% ***when possible*** and 47.5% when not possible, and know that one chamber will spend a lot of time at the lower humidity. As a reminder here are the treatments:

– Mean of 20°C – 17/23°C

– Mean of 26°C – 23/29°C

– Mean of 30°C – 27/33°C

– Mean of 34°C – 31/37°C

– Mean of 37°C – 34/40°C

(c) Change the treatments so that the mean of 34 is the highest and we another value somewhere (between 20 and 26 or 30 to 34?).

I am currently thinking a or (preferred) b (despite reports I doubt plants respond phenologically to humidity when it's 47–80%) and I think grapes do not grow usually in such humid conditions anyway

'Best,
Lizzie

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