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| **Table S1.** Pearson correlation coefficient matrix of variables used in the full model for 2005 JE incidence  |
|  | ***JE*** | **May*-t*** | **Apr*-p*** | ***Irrigated*** | ***Pig-human*** | ***Deciduous*** | ***Grasslands*** | ***Croplands*** |
| ***JE*** | 1 | - | - | - | - | - | - | - |
| **May*-t*** | .730\*\* | 1 | - | - | - | - | - | - |
| **Apr*-p*** | -.434\*\* | -.151 | 1 | - | - | - | - | - |
| ***Irrigated*** | .681\*\* | .802\*\* | -.100 | 1 | - | - | - | - |
| ***Pig-human*** | -.212 | -.083 | .349\*\* | -.079 | 1 | - | - | - |
| ***Deciduous*** | .442\*\* | .568\*\* | -.127 | .582\*\* | .236\* | 1 | - | - |
| ***Grasslands*** | -.640\*\* | -.842\*\* | -.055 | -.721\*\* | .021 | -.407\*\* | 1 | - |
| ***Croplands*** | .609\*\* | .681\*\* | -.414\*\* | .736\*\* | -.332\*\* | .449\*\* | -.442\*\* | 1 |
| \*\*Correlation is significant at the 0.01 level (2-tailed), \*Correlation is significant at the 0.05 level (2-tailed)*JE* =JE incidence,  *t* = mean temperature, *p* = mean precipitation, *Irrigated* = natural log of percentage of irrigated land per district, *Pig-human* = pig-to-human ratio, *Deciduous =* naturallog of percentage deciduous tree cover per district, *Grassland* = natural log of percentage grassland cover per district, *Cropland* = natural log of percentage cropland cover per district†2005 district-level JE incidence was smoothed using Spatial empirical Bayes smoothing and transformed by taking negative reciprocal |