suited to their growth, as to that cf all other vegetation, will produce them in laws regulating the number of spores and the greatest abundance. This is not only their vitality. In the external air in true theoretically, but is capable of summer we have abundance of pollen and being proved. For instance, Pasteur has of spores, new or old, varying according shown by sowing sterilized solutions with to the degree of dampness or dryness of the dust of the air, that the air of the plains is more charged with spores than this, the pollen and new spores are rare is the air of high mountains. But this in houses and hospitals, although old method would only enable the number spores may be abundant. Again, in the and character of such as are capable of sewers, new spores are numerous while multiplying in the culture solution to be the old are rare, and pollen is wholly known: hence, as Miquel says, 'the only absent. The remarks here made conaccurate way of gaining an estimate is by counting them under the microscope; as far as we can judge from the nature of for, although by the latter method we this whole class of plants, and from anarun the risk of counting as germs, un-llogy, apply equally to those of Bacilus fruitful spores and those killed by age Malaria. The next point is that their and dying out, one does well not to forget number must vary with changing conthat a large number of the seeds of ditions. lichens, of algae and mushrooms, though being perfectly alive, never multiply in regulates the amount of bacteria that are wort, the juice of fruits and the broths carried into the air is seen in the facts where some moulds of the Mucedines and which repeat themselves again and again Mucorines disport and multiply them in Miquel's tables. A moist season folselves.' Following is Miquel's table on lowed by a dry one of sufficient extent to "Les Organismes Vivants de l'Atmos- allow of the drying out of such surfaces, phòre."

		Spores	Spores ef Cryptogamia.	nia.	;
				{	Mineral
		Young	Old.	Pollen,	Particles.
Ξ	. In Summer.	0			
=	Wet wenther.	Numerous	Raro.	Frequent.	Rare.
3	, Dry "	Rare,	F'requent,	Frequent.	Abundant.
Ξ	In Winter.		•	•	
z	" Wet weather.	Raro	Raro.	None.	Rare.
3	Dry "	Nono.	Frequent.	Very Rare, Abundant.	A bundant.
Ξ	. In Hospitals and				
	houses.	Very Bare. Frequent.	Frequent.	Very Rare.	Very Rare. Very abundan
Ξ	. In Sewers.	Numerous. Rare.	Rare.	None.	Rare and hor
					geneous.

i i

"We thus see that there are definite the atmosphere; while, as opposed to cerning the spores of Cryptogamia must,

"How delicate is the balance which always shows a proportionate increase in the bacteria of the air; but let the drought continue long enough to cause a drying out of the germs. by the absorption of their water by the air, and their amount proportionately decreases. It will readily be seen, however, that such surfaces as those along streams dammed back will always have a new germ producing surface, since no matter how long the drought continues there will always be the wholly dried surfaces and then every degree down to the surface covered with water. Hence it is that, on the assumption of the zymotic origin, of malaria, there will always be a never failing hatching place for its germs along such streams; and there, under such circumstances we would have an alteration of the effective germ-producing period noted by him as increasing after rain, but soon lowering with continued dry weather-and which his statistics shew to be the rule at Montsonris. Under such circumstances the lateral distribution of microbes from their source of origin will depend, (a) on the amount of their p oduction: (b) on the rapidity with which they are dried out in a fervid summer atmosphere; and (c) on the breadth and