

Trees in Germany damaged by cell tower radiation

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VIEW FROM THE SOUTHEAST

On 27 June 2008 dead branches were observed on the left side of the maple. Visual contact was given to phone mast Landsknechtstr. 23 (height 14-17 m, 6 sector antennas) in a distance of 142 m.

15/10/05

3380 $\mu\text{W}/\text{m}^2$

500 $\mu\text{W}/\text{m}^2$

View from the west

On 5 October 2015 parts of the left side had been cut off. In the middle the tree was transparent and brown. The right side had dense, green foliage. Measurements with the help of a telescopic rod.

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15/09/24

420 $\mu\text{W}/\text{m}^2$

3800 $\mu\text{W}/\text{m}^2$

15/10/09

354 m

On 24 September 2015 the right side was brown and had already lost leaves. . .

On 9 October 2015 the right side was leafless. The phone mast had now 18 sector antennas.

14

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12/04/25 12/04/25 12/04/25

30 $\mu\text{W}/\text{m}^2$ 910 $\mu\text{W}/\text{m}^2$

On 25 April 2012 the power flux density on the left side was in the range between 30 and 130 $\mu\text{W}/\text{m}^2$, on the right side between 360 and 1600 $\mu\text{W}/\text{m}^2$. The tree attenuates the radiation.

20

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Douglas fir, B22/Strullendorfer Straße (2007-2014)

24 07/07/24 09/02/19 356 m

View from the south to the Douglas fir and phone mast Gutenbergstr. 20. On 24 July 2007 an unusual distribution of damage was seen.

View from the southeast to the Douglas fir. The tree had lost its needles in the upper part and on the right side.

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phone mast Gutenbergstr. 20. On 24 July 2007 an unusual distribution of damage was seen.

The tree had lost its needles in the upper part and on the right side.



Increase of needle loss.

Heat, frost, drought, compaction and sealing of the soil, road salts, air and soil pollutants, diseases or pests cannot explain this "three-quarter-illness". RF-EMF from phone mast Gutenberstr. 20 (height 39- 46 m, 22 sector antennas) reach the Douglas fir. Measurements on 27 September 2015.

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Lime tree, Am Kranen (2006-2011)



View from the south

In Sept. 2006 a difference between left and right side was noticed. The right side was brown and partly leafless; the left side green with dense foliage

On 5 September 2007 the difference between left and right had increased.

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side was noticed. The right side was brown and partly leafless; the left side green with dense foliage

left and right had increased.

09/09/26



11/09/17



On 26 Sept. 2009 branches on the right were dead. On 17 Sept. 2011 dead parts had been cut off.
RF-EMF from phone mast Grüner Markt 23 (height 28- 35 m, 23 sector antennas) reach the tree.

23

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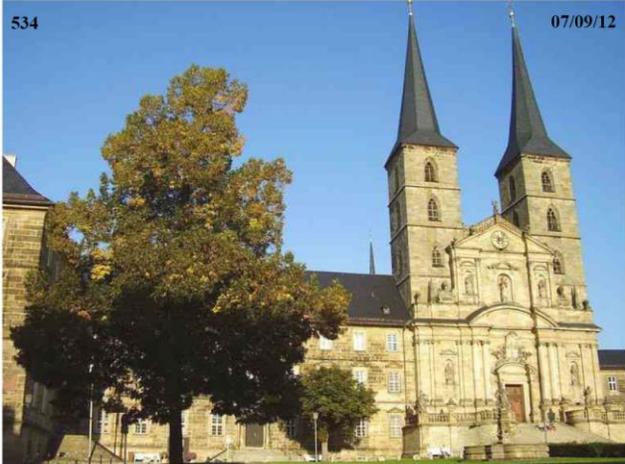
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Lime tree, Michelsberg Monastery (2007-2012)

534



07/09/12

View from the west

On 12 Sept. 2007 beginning crown transparency was seen. Some leaves turned yellow too early. A phone mast is situated in the roof of the former monastery. The RF-EMF hit the lime tree. The chestnut in the background, which is located in a radio shadow, is still green

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Gary

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12/08/19

On 19 August 2012 holes were noticed in the upper crown. The chestnut was healthy.

24

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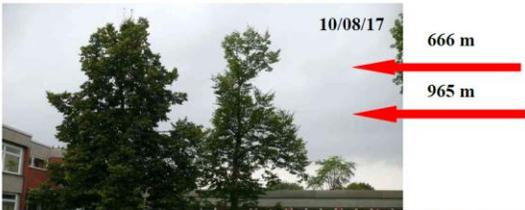
Lime trees, Heidelsteigschool (2009-2013)

355 09/06/22



View from the southeast

In June 2009 the difference between the two lime trees on a meadow was perplexing because they stood under largely identical site conditions.



10/08/17

666 m

965 m

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Gary



10/08/17

666 m

965 m

However, there is one difference: from the right RF-EMF from the phone masts Kantstr. 33 (height 43 m, 9 sector antennas) and An der Breitenau 2 (height 28 m, 21 sector antennas) reach the trees. A great amount of the electromagnetic waves is absorbed from the lime tree on the right and reflected, scattered or diffracted. Therefore the exposure of the lime tree on the left is much lower.



13/09/17

40 $\mu\text{W}/\text{m}^2$

170 $\mu\text{W}/\text{m}^2$

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13/09/17

40 $\mu\text{W}/\text{m}^2$

170 $\mu\text{W}/\text{m}^2$

On 17 Sept. 13 the lime tree on the right had already lost many leaves. Measurements on 1 Nov. 15.

45

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Birch trees on the bank of the river Regnitz (2009-2013)



231

09/09/16

217 m





Concert and Congress Hall of the „Bamberg Symphony Orchestra“ with phone mast

View from the southwest to the eastbank of Regnitz. Crown transparency at both birches. The upper half of the left birch had severe damage. From the left side (northwest) RF-EMF (main beams of two 130°- sector antennas) hit the left birch. Phone mast Concert and Congress Hall: height 25 m, 6 sector antennas.

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16/07/06

13/08/02



In August 2013 the left birch was felled. Crown transparency at the right birch. In 2014 the phone mast on the Concert hall had been enlarged to 21 sector antennas. In April 2016 it was shocking to see that more trees along the river had been cut down.

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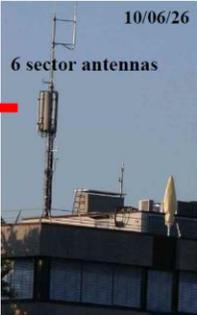
Locust trees, Don-Bosco-Straße (2010-2013)

164



10/10/06

280 m



10/06/26

6 sector antennas

In Oct. 2010 considerable difference between the two trees. Locust tree on the right leafless; visual contact to phone mast.



12/05/12



10/10/06

Phone mast Margaretendamm 28 (height 26 m, 6 sector antennas)

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Maple, Babenbergerring (2014-2016)

427



14/07/16

630 m



14/09/11

View from the southeast

In July 2014 the upper right section showed damage. In September 2014 many leaves had fallen.

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Maple, parking-lot at the railway station (2009-2013)



View from the east

On 27 July 2009 the difference between the two sides was striking. The leaves on the left side had brown margins, the leaves on the right side were green.