



Express PRA for Lyctus africanus

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- Initiation: Interception of wooden packaging material by the plant protection service of the Federal State Brandenburg

Initiation for the revision: Application on the update of the risk analysis by the plant protection service of the Federal State Brandenburg

Express Pest Risk analysis	Lyctus africanus Lesne 1907		
Phytosanitary risk for Germany	high 🗌	medium 🗌	low 🛛
Phytosanitary risk for EU-Member States	high 🗌	medium 🗌	low 🛛
Certainty of the assessment	high 🛛	medium 🗌	low 🗌
Conclusion	does not occur far, it is not liste 2019/2072 nor Lyctus africanu and wood. Due to inappro- lack of host pla assumed that L outdoors. The of States cannot to low. Eventually (tropical greent infested woode unlikely. Thus, Lyctus at quarantine pes 2016/2031 doe the infested mat risk for tropical other hand to g	as infests various tropical priate climatic conditions ints in Germany and Cen africanus is not capable establishment in south Eu be totally ruled out but the totally ruled out but the the establishment in pro- nouses) would be possible in packaging to plants un fricanus is not classified a t and Article 29 of the Re- s not apply. The destruct interial is recommended in greenhouses one the on uarantee that infested im to finished products (inter-	ely not in the EU. So es of Regulation <i>(EU)</i> and subtropical trees and very likely the tral Europe, it is e to establish uropean Member e risk is assessed as otected cultivation le. The transfer from der glass seems very as a potential <i>egulation (EU)</i> tion or disinfection of n order to exclude a e hand and on the aported sawn wood is
Preconditions for Express-PRA fulfilled?		t, is not listed, so far, it is ed by the reporting plant	

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Taxonomy, common name, synonyms	Coleoptera, Lyctidae, Lyctinae, Lyctini, <i>Lyctus, Lyctus africanus</i> Lesne 1907 HICKIN (1960) published an identification key for different <i>Lyctus</i> -species (adult animals). SITTICHAYA <i>et al.</i> (2009) prepared a short key for Bostrichidae on rubber trees that contains <i>L. africanus</i> , too.
Does a relevant earlier PRA exist?	No
Distribution and biology	Africa (origin), India, Madagascar, Philippines (BEESON & BATHIA, 1936); Thailand (SITTICHAYA <i>et al.</i> , 2009); FAUNA EUROPAEA lists the Middle East, the afro-tropical region, North Africa and furthermore Belgium, Germany, Italy, Spain, and the Netherlands as distribution area. However, EPPO PQR (2014) does not confirm the findings in Europe. Egypt, Sudan and Great Britain are listed there. However, a request in Great Britain (MACLEOD, DEFRA, pers. comment) showed that the FERA- database lists the beetle as "absent from UK".
	Presumably, the assumed detections for Germany and Central Europe are based on publications that analysed the findings in the frame of interceptions in import controls or detections on imported wood. Often, these were titled as "introduction" and thus, are deceptive. GEIS (2002) reports under the title "Splintholz-[] käfer nach Mitteleuropa [] eingeschleppt" ["[] powder post []beetle introduced to Central Europe"] of detections of <i>L. africanus</i> in Germany in musical instruments, pallets, carvings, door frames, roots for ornamental purposes etc., but at the same time he describes that an establishment is not possible in the "moderate European broads", due to the climatic conditions. He reports on detections in UK, IT, BE, DE (Saxony, Berlin, Hamburg, Schleswig Holstein, North Rhine Westphalia, Hesse, Baden- Württemberg, Bavaria), CH.
Are host plants present in the PRA-area? If so, which?	The powder post beetle is polyphagous. Most of the host plants listed in BEESON & BATHIA (1936) are tropical plants. Out of the listed plants in the genera <i>Bambusa, Euphorbia</i> and <i>Quercus</i> are present in Germany. No species are cited for these genera. EPPO PQR (2014) only shows woody plants as host plants. GEIS (2002) describes that in addition to many hardwoods and types of bamboo various starch plants may also be infested in dry state.
	In Israel, mainly stored Abachi-wood was infested (90% of all infested wood species). Furthermore, infestations were found

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	on <i>Pycnathus angolensis</i> , <i>Shorea</i> spp., <i>Canarium</i> <i>schweinfurthii</i> and <i>Aucoumea klaineana</i> . The beetle was found in damaged but living plants of <i>Acacia albida</i> and <i>Moringa peregrina</i> , as well as <i>Prunus armeniaca</i> , <i>Bambusa</i> <i>vulgaris</i> , <i>Delonix regia</i> , <i>Eucalyptus gomphocephala</i> and <i>Grevillea robusta</i> (HALPERIN & GEIS, 1999).	
Transfer pest from consignment →host plant	Most likely, only a local transfer to stored woods is possible in Germany and Europe. However, the beetle needs tropical temperatures and thus, this seems very unlikely. No transfer to living trees is expected.	
Is a vector/further plant needed for host alternation? Which? Distribution?	No	
Climate in distribution area comparable to PRA-area?	In Germany: no. It is a tropical to subtropical species (Israel). In Europe: possibly, in South Europe (beetle is established in North Africa and Israel).	
If no, are host plants present in protected cultivation?	In tropical greenhouses.	
Damage to be expected in the PRA area?	No, not on plants because an establishment seems very unlikely due to the climate conditions and the lack of host plants.	
	Damage might occur when storing infested (tropical) wood together with untreated wood but the temperatures are probably not sufficient for this either.	
	In general, the beetle may cause severe damage because it bores into wooden material. In case of massive infestation, the wood can get powdery to a depth of several centimetres ("powder post beetle"). Damage caused by <i>Lyctus</i> beetles mainly becomes visible when infested wood is used in constructions, e.g. door frames. The infestation becomes visible only after extreme processing of the wood by the beetles.	
Is an infestation easy to eradicate?	Yes, in case of an infestation, stored wood could be destroyed. A distribution seems rather unlikely so that the destruction would be small-scale.	
Remarks	-	

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