

**LAMPIRAN PERATURAN MENTERI PERTANIAN**

**NOMOR : 43/Permentan/OT.140/6/2012**

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**JENIS-JENIS ORGANISME PENGGANGGU TUMBUHAN KARANTINA, UMBI LAPIS, PERLAKUAN DAN NEGARA ASAL**

**I. SERANGGA/INSECTS**

<b>NO.</b>	<b>JENIS OPTK</b>	<b>JENIS UMBI LAPIS</b>	<b>PERLAKUAN</b>	<b>NEGARA ASAL</b>
1.	<b><i>Eumerus tuberculatus</i></b> Rond.; Diptera: Syrphidae; <b>lesser bulb fly</b>	<i>Allium cepa</i> (bawang bombai/ <i>onion</i> ); <i>Allium ascalonicum</i> (bawang merah/ <i>shallot</i> ); <i>Crinum asiaticum</i> (bakung/ <i>Lily</i> ); <i>Allium sativum</i> (bawang putih/ <i>garlic</i> )	1. Fumigasi (CH <sub>3</sub> Br Murni): a. 40gr/M <sup>3</sup> /26°C-31°C/2 jam;atau b. 32gr/M <sup>3</sup> /32°C-35°C/2 jam ;atau c. 16gr/M <sup>3</sup> /26°C-31°C/2 jam;atau 2. Iradiasi : 70 gray	<b>Amerika</b> : USA
2.	<b><i>Frankliniella occidentalis</i></b> (Pergande); (= <i>Euthrips helianthi</i> = <i>Euthrips</i> <i>occidentalis</i> = <i>E. tritici</i> var. <i>californicus</i> = <i>Frankliniella</i> <i>californica</i> = <i>F. canadensis</i> = <i>F. chrysanthemi</i> = <i>F. claripennis</i> = <i>F. conspicua</i> = <i>F. dahliae</i> = <i>F. dianthi</i> = <i>F. nubila</i> = <i>F. occidentalis</i> f. <i>brunnescens</i> = <i>F. occidentalis</i> f. <i>dubia</i> = <i>F. syringae</i> = <i>F. tritici</i> <i>maculata</i> = <i>F. tritici</i> var. <i>moultoni</i> = <i>F. umbrosa</i> = <i>F. venusta</i> = <i>F. helianthi</i> = <i>F. moultoni</i> = <i>F. trehernei</i> ); Thysanoptera, Thripidae; <b>western flower thrips</b>	<i>Allium ascalonicum</i> (bawang merah/ <i>shallot</i> )	1. Fumigasi (CH <sub>3</sub> Br Murni) :40gr/M <sup>3</sup> /26°C-31°C/2 jam;atau 2. Iradiasi : 70 gray	<b>Afrika</b> : Kenya, Nigeria, South Africa, Swaziland, Zimbabwe <b>Asia</b> :India, Israel, Japan, Korea, Kuwait, Malaysia, Sri Lanka, Turkey <b>Amerika</b> : Argentina, Brazil, Canada, Chili, Columbia, Costa Rica, Dominica, Equador, Guatemala, Guyana, Martinique, Mexico, Peru, Puerto Rico, USA <b>Eropa</b> : Albania, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Lithuania, Macedonia, Malta, Netherland, Norway, Poland, Portugal, Roman, Federasi Rusia,

	<b>alfalfa thrips, flower thrips, western (USA) grass thrips</b>			Slovak, Slovenia, Spain, Swedia, Swiss, England <b>Oceania</b> : Australia, New Zealand
3.	<b>Graphognathus leucoloma</b> Boh.; (=Naupactus leucoloma = Pantomorus leucoloma); Coleoptera: Curculionidae; <b>white fringed weevil, whitefringed beetle</b>	<i>Allium ascalonicum</i> (bawang merah/ shallot)	1. Fumigasi (CH <sub>3</sub> Br Murni) : 40gr/M <sup>3</sup> /26°C-31°C/2 jam ;atau 2. Iradiasi : 70 gray	<b>Afrika</b> : South Africa <b>Amerika</b> : Argentina, Brazil, Chili, Peru, USA, Uruguay <b>Oceania</b> : Australia, New Zealand
4	<b>Delia antiqua</b> (Meign.); (=Anthomyia antique =A.ceparum =Chortophila antiqua <i>Delia cepetorum</i> =Hylemyia antiqua =H.ceparum =Leptohylemyia antique =Pegomyia ceparum =P.cepetorum =Phorbia ceparum <i>P.cepetorum</i> = <i>P.antiqua</i> ); Diptera: Anthomyiidae; <b>onion maggot, onion fly</b>	<i>Allium ascalonicum</i> (bawang merah/ Shallot), <i>Allium porrum</i> (bawang prei/ leek), <i>Allium sativum</i> (bawang putih/ garlic), <i>Allium</i> spp	1.Fumigasi (CH <sub>3</sub> Br Murni) : a. 40 gr/M <sup>3</sup> /26°C-31°C/2 jam;atau b. 32 gr/M <sup>3</sup> /32°C-35°C/2 jam ;atau c. 16 gr/M <sup>3</sup> /26°C-31°C/2 jam; atau 2.Iradiasi : 70 gray	<b>Afrika</b> : Egypt <b>Amerika</b> : Antigua-Barbados, Brazil, Canada, Columbia, Mexico, USA <b>Asia</b> : Armenia, China, Georgia, India, Iran, Iraq, Israel, Japan, Kazakhstan, Korea, Mongolia, Philippines, Turkey <b>Eropa</b> : Austria, Belgium, Bulgaria, Cyprus, Czech, Slovak, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Malta, Moldova, Netherland, Norway, Poland, Portugal, Roman, Federasi Rusia, Slovak, Spain, Swedia, Swiss, England, Yugoslavia
5	<b>Peridroma saucia</b> (Hubner); (=Agrotis angulifera =A.impacta =A.inermis =A.intecta =A.ortonii =A.saucia =Lycophotia margaritosa =L.ochronota =L.saucia =Noctua aequa =N.majuscula =N.margaritosa =N.saucia =Rhyacia margaritosa =R.saucia =Peridroma margaritosa); Lepidoptera: Noctuidae <b>variegated cutworm, pirly underwing moth</b>	<i>Allium ascalonicum</i> (bawang merah/ shallot)	1. Fumigasi (CH <sub>3</sub> Br Murni) : 40gr/M <sup>3</sup> /26°C-31°C/2 jam ;atau 2. Iradiasi : 70 gray	<b>Afrika</b> : Marocco, Tunisia <b>Amerika</b> : Argentina, Bermuda, Brazil, Chili, Columbia, Costa Rica, Guatemala, Jamaica, Mexico, Peru, Puerto Rico, USA, Uruguay, Venezuela <b>Asia</b> : Armenia, China, Israel, Japan, Sri Lanka, Syria, Turkey <b>Eropa</b> : Albania, Austria, Belgium, Bulgaria, Czech, Denmark, Faroes Island, Finland, Yugoslavia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherland,

				Norway, Poland, Portugal, Roman, Federasi Rusia, Slovak, Spain, Canary Island, Swedia, Swiss, England
6	<b>Zonocerus elegans</b> (Thunb.); (=Acrydium sanguinolentum =Gryllus elegans =Poekilocerus roseipennis); Orthoptera: Acrididae; <b>elegant grasshopper</b>	<i>Allium ascalonicum</i> (bawang merah/ shallot)	1. Fumigasi (CH <sub>3</sub> Br Murni) : 40 gr/M <sup>3</sup> /26°C-31°C/2 jam ;atau 2. Iradiasi : 70 gray	<b>Afrika</b> : Angola, Botswana, RD Kongo, Kongo, Lesotho, Madagaskar, Malawi, Mozambique, Namibia, Rwanda, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe
7	<b>Zonocerus variegatus</b> (L.); (=Acrydium sanguinolentum =Gryllus (Locusta) variegatus =G.laevis =G.opacus); Orthoptera: Acrididae; <b>variegated grass hopper</b>	<i>Allium ascalonicum</i> (bawang merah/ shallot)	1. Fumigasi (CH <sub>3</sub> Br Murni) : 40gr/M <sup>3</sup> /26°C-31°C/2 jam ;atau 2. Iradiasi: 70 gray	<b>Afrika</b> : Angola, Benin, Burkina Faso, Kamerun, Afrika Tengah, Chad, RD Kongo, Kongo, Ivory Coast, Gabon, Gambia, Ghana, Guinea-Bissau, Guinea, Kenya, Liberia, Malawi, Mali, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Togo

## II. NEMATODA/NEMATODES

NO.	JENIS OPTK	JENIS UMBI LAPIS	PERLAKUAN	NEGARA ASAL
1.	<b>Aphelenchoides fragariae</b> (Ritzema Bos) (Christie); (=Aphelenchoides olesistus =A.olesistus var. longicollis =A.pseudolesistus =Aphelenchus fragariae =A.olesistus =A.olesistus var. longicollis =A.pseudolesistus); Aphelenchoididae; <b>bud and leaf nematode</b>	<i>Allium ascalonicum</i> (bawang merah/ shallot), <i>Allium sativum</i> (bawang putih/ garlic)	1.Fumigasi (CH <sub>3</sub> Br Murni) : a. 40 gr/M <sup>3</sup> /26°C-31°C/2 jam;atau b. 32 gr/M <sup>3</sup> /32°C-35°C/2 jam ;atau c. 16 gr/M <sup>3</sup> /26°C-31°C/2 jam; atau 2.Iradiasi : 70 gray	<b>Amerika:</b> Canada, Mexico, USA <b>Eropa:</b> Belgium, England, Denmark, Germany, Hungary, Ireland, Italy, Latvia, Moldova, Portugal, Poland, Federasi Rusia, Spain, Swis, Swedia, Ukraina <b>Asia:</b> China, India, Israel, Korea Selatan, Kirgystan, Japan, Turkey <b>Oceania:</b> Australia, New Zealand, Papua New Guinea, Hawaii

2.	<b><i>Belonolaimus longicaudatus</i></b> Rau; Belonolaimidae; <b>sting nematode</b>	<i>Allium cepa</i> (bawang bombay/ onion)	1.Fumigasi (CH <sub>3</sub> Br Murni) : a. 40 gr/M <sup>3</sup> /26°C-31°C/2 jam;atau b. 32 gr/M <sup>3</sup> /32°C-35°C/2 jam ;atau c. 16 gr/M <sup>3</sup> /26°C-31°C/2 jam; atau 2.Iradiasi : 70 gray	<b>Amerika:</b> Bahama, Bermuda, Costa Rica, Mexico, Puerto rico, USA.
3.	<b><i>Ditylenchus destructor</i></b> Thorne; Anguinidae; <b>potato rot nematode, potato tuber nematode, potato eelworm</b>	<i>Allium ascalonicum</i> (bawang merah/ shallot), <i>Allium sativum</i> (bawang putih/ garlic)	1. Fumigasi (CH <sub>3</sub> Br Murni) : a. 40 gr/M <sup>3</sup> /26°C-31°C/2 jam;atau b. 32 gr/M <sup>3</sup> /32°C-35°C/2 jam ;atau c. 16 gr/M <sup>3</sup> /26°C-31°C/2 jam; atau 2.Iradiasi :70 gray	<b>Eropa:</b> Albania, Austria, Belarusia, Belgium, Netherland, Bulgaria, Czech, Estonia, Finland, France, Germany, Greece, Hungary, England, Ireland, Italy, Latvia, Lithuania, Luxembourg, Moldova, Norway, Poland, Roman, Federasi Rusia, Slovak, Spain, Swedia, Swis, Ukraina <b>Asia:</b> Azerbaijan, China, India, Iran, Japan, Kazakhstan, Korea Selatan, Kirgistan, Malaysia, Pakistan, Saudi Arabia, Tajikistan, Turkey, Uzbekistan <b>Afrika:</b> South Africa <b>Amerika:</b> Canada, Equador, Haiti, Mexico, Peru, USA <b>Oceania:</b> Australia, New Zealand
4.	<b><i>Longidorus elongatus</i></b> (de Man) Thorne & Swanger; (= <i>Dorylaimus elongatus</i> = <i>Dorylaimus tenuis</i> = <i>Longidorus menthasolanus</i> = <i>Longidorus monohystera</i> = <i>Trichodorus elongatus</i> ); Longidoridae; <b>needle nematode, tomato black ring eelworm</b>	<i>Allium</i> spp.,	1.Fumigasi (CH <sub>3</sub> Br Murni): a. 40 gr/M <sup>3</sup> /26°C-31°C/2 jam;atau b. 32 gr/M <sup>3</sup> /32°C-35°C/2 jam ;atau c. 16 gr/M <sup>3</sup> /26°C-	<b>Eropa:</b> Belgium, Bulgaria, Czech, Denmark, Estonia, England, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Moldova, Netherland, Norway, Poland, Portugal, Roman, Federasi Rusia, Slovak, Spain, Swedia, Swis, Ukraina, <b>Asia:</b> Georgia, India, Kazakhtan,

			31°C/2 jam; atau 2.Iradiasi: 70 gray	Pakistan, Tajikistan, Uzbekistan, Vietnam <b>Afrika:</b> South Africa <b>Amerika:</b> Canada, USA <b>Oceania:</b> New Zealand.
5.	<b>Meloidogyne exigua</b> Goeldi; (= <i>Heterodera exigua</i> ); Meloidogynidae; <b>coffee rootknot nematode, Brazilian pyroid coffee nematode, root-knot nematode</b>	<i>Allium ascalonicum</i> (bawang merah/ <i>shallot</i> )	1.Fumigasi (CH <sub>3</sub> Br Murni) : 40gr/M <sup>3</sup> /26°C- 31°C/2 jam ;atau 2.Iradiasi: 70 gray	<b>Amerika:</b> Bolivia, Brazil, Chili, Columbia, El Salvador, Dominica, Guatemala, Guadeloupe, Guyana, Honduras, Martinique, Nicaragua, Puerto Rico, Peru, Suriname, Trinidad, Venezuela.
3.	<b>Pratylenchus thornei</b> Sher. & Allen; Pratylenchidae; <b>Thorne's root lesion nematode</b>	<i>Allium ascalonicum</i> (bawang merah/ <i>shallot</i> )	1. Fumigasi (CH <sub>3</sub> Br Murni) : 40gr/M <sup>3</sup> /26°C- 31°C/2 jam ;atau 2. Iradiasi: 70 gray	<b>Eropa:</b> Belgium, Bulgaria, Croatia, Cyprus, Denmark, Yugoslavia, Germany, Greece, Italy, Netherland, Portugal, Federasi Rusia, Spain, England <b>Asia:</b> Afganistan, India, Iran, Israel, Japan, Jordan, Saudi Arabia, Siria, Turkey <b>Afrika:</b> Egypt, Libia, Malawi, Marocco <b>Amerika:</b> Argentina, Mexico, USA <b>Oceania:</b> Australia.

### III. CENDAWAN/FUNGAL

NO.	JENIS OPTK	JENIS UMBI LAPIS	PERLAKUAN	NEGARA ASAL
1.	<b>Cercospora duddiae</b> Welles; Anamorphic fungi; <b>leaf spot of onion and garlic, withertip of onion and garlic, leaf spot: garlic, leaf spot: onion</b>	<i>Allium ascalonicum</i> (bawang merah/ <i>shallot</i> ), <i>Allium shoенoprasum</i> (bawang daun/ <i>leeks, chives</i> )	1.Fumigasi (CH <sub>3</sub> Br Murni) : a. 40 gr/M <sup>3</sup> /26°C- 31°C/2 jam;atau b. 16 gr/M <sup>3</sup> /26°C- 31°C/2 jam; atau 2.Iradiasi : 70 gray	<b>Asia:</b> India <b>Amerika:</b> Barbados, Jamaica

### V. TUNGAU/MITES

NO.	JENIS OPTK	JENIS UMBI LAPIS	PERLAKUAN	NEGARA ASAL
1.	<b><i>Petrobia lateens</i> (Tetranychidae)</b> <b>Brown Wheat Mite</b>	<i>Allium sativum</i> (Bawang putih/ <i>garlic</i> ), <i>Allium cepa</i> (Bawang Bombay/ <i>onion</i> )	1. Fumigasi (CH <sub>3</sub> Br Murni) : a. 40 gr/M <sup>3</sup> /26°C-31°C/2 jam; atau b. 16 gr/M <sup>3</sup> /26°C-31°C/2 jam; atau 2. Iradiasi: 70 gray	<b>Eropa:</b> Austria, Denmark, France, Germany, Italy, Netherland, Portugal, Poland, Federasi Rusia, Spain <b>Asia:</b> China, India, Republic of Korea <b>Africa:</b> Egypt <b>America:</b> Canada, USA <b>Oceania:</b> Australia
2.	<b><i>Rhizoglyphus echinopus</i></b> <b>Bulb Mite</b>	<i>Alliums pp.</i>	1. Fumigasi (CH <sub>3</sub> Br Murni) : a. 40 gr/M <sup>3</sup> /26°C-31°C/2 jam; atau b. 32 gr/M <sup>3</sup> /32°C-35°C/2 jam ; atau c. 16 gr/M <sup>3</sup> /26°C-31°C/2 jam; atau 2. Iradiasi: 70 gray	<b>Eropa:</b> Former USSR, Hungary, Spain, <b>Asia:</b> Taiwan, Japan, Korea. <b>America:</b> USA (Texas) <b>Oceania:</b> New Zealand

MENTERI PERTANIAN,

SUSWONO