

Table 2: Recommended Insecticides For BPH Control Along With Relevant Details (Krishnaiah et al. 2004; 2008)

| Insecticide | Dosage of formulation /Acre | Group | Effecti-veness duration | Remarks |
|---------------------|-----------------------------|-------------------------|-----------------------------|--|
| Buprofezin SC | 25%350ml | Chitin insect regulator | inhibitor,14-20 days growth | Insects have to molt for increasing in size. This acts by contact only on nymphs at molting time. Inhibits egg laying by adults. There is no resistance reported to this insecticide in BPH in Asian countries till date. |
| Imidacloprid 200 SL | 60-70ml | Neonicotinoid | 12-15 days | Systemic insecticide. Resistance in pests including BPH and WBPH is wide spread for this insecticide in India and other tropical rice growing countries including China. |
| Thiamethoxam WG | 2530-60g | Neonicotinoid | 14-16 days | Systemic insecticide. Resistance to this insecticide is already present in BPH in India and other tropical rice growing countries including China. |
| Acetamiprid 20 SP | 40-60 ml | Neonicotinoid | 10-12 days | Systemic insecticide. Popular to a limited extent in tropical rice growing countries including China and India . |
| Thiacloprid 22 SC | 250 ml | Neonicotinoid | 10-12 days | Systemic insecticide. Popular to a limited extent in tropical rice growing countries including China and India . |
| Ehiprole 5SC | 300-400ml | Phenyl-pyrazole | 10-12 days | Slow initial action. But has good persistence.Effective against insects with neonicotinoid resistance. Moderately popular in tropical rice growing countries including China and India. |
| Fipronil 5SC | 300-400ml | Phenyl-pyrazole | 10-12 days | Slow initial action. But has good persistence. Effective against insects with neonicotinoidresistance.Popular to a limited extent in tropical rice growing countries including China and India. |
| Ethofenprox 10 EC | 400ml | Ether derivative | 12-14 days | Safe to natural enemies and human beings. Works through contact action.Effective against insects with neonicotinoid resistance. Popular to very limited extent in tropical rice growing countries including China and India, mainly due to high cost and poor availability. |
| Acephate 75 SP | 500-600g | Organophosphate | 7-10days | Relatively safe to natural enemies.Popular in many of the tropical rice growing countries including China and India mainly due to low cost, effectiveness against other pests like stem borer and leaf folder. Easy availability. Effective against BPH with neonicotinoid resistance. |
| Monocrotophos WSC | 36400ml | Organophosphate | 7 days | Toxic to humans and natural enemies. It was Popular in many of the tropical rice growing countries including China and India during 1980's and 1990's. This was mainly due to low cost, effectiveness against other pests like stem borer and leaf folder. Effective against insects with neonicotinoidresistance.But recently banned in some countries. |
| BPMC | 400-500ml | Carbamate | 5 days | Has ovicidal action and also systemic action. It was |

| | | | | |
|----------------------------|--------|-----------|------------|---|
| (fenbucarb)50 EC | | | | popular in some countries during 1980's and 1990's. After 1998 when neonicotinoids became available it's use is drastically reduced in all countries. Effective against insects with neonicotinoid resistance. |
| MIPC (isoprocarb)50 WP | 500g | Carbamate | 10 days | Has systemic action.Effective against insects with neonicotinoid resistance. It was popular in some countries during 1980's and 1990's. After 1998 when neonicotinoids became available it's use is drastically reduced in all countries. |
| Carbaryl 50 WP | 750 g | Carbamate | 5-7 days | Contact and systemic action.Moderately effective. It was popular in some countries during 1970's and 1980's. After more effective insecticides became available it's use is drastically reduced in all countries. |
| Carbosulfan 25 EC | 750 ml | Carbamate | 10-12 days | Works through contact and systemic action. After neonicotinoids became popular it's use is drastically reduced in many countries. Still it is used in some countries. Effective against insects with neonicotinoid resistance. |
