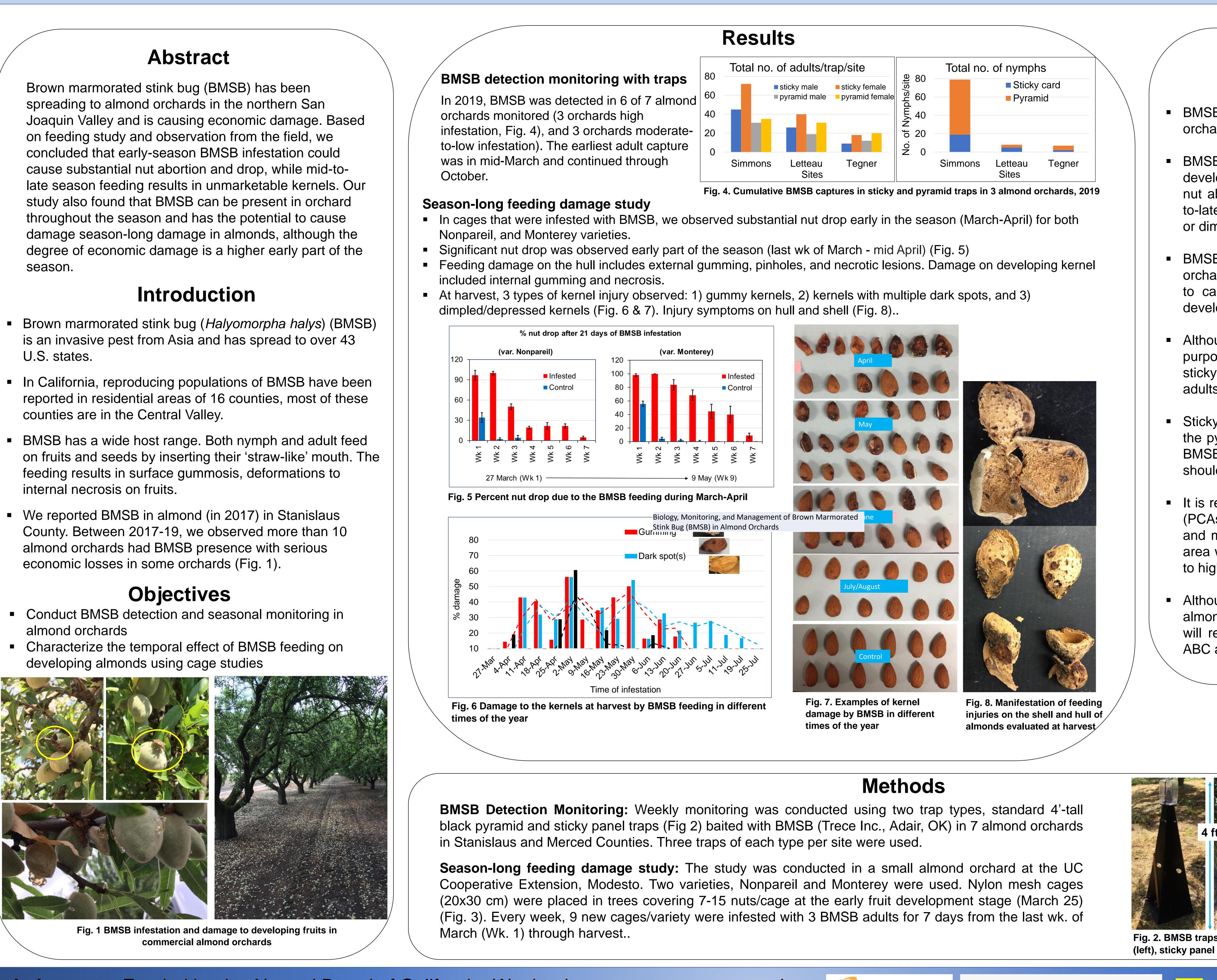




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Fig. 2. BMSB traps: Black pyramid





### Conclusions

BMSB has been causing damage to commercial almond orchards in upper San Joaquin Valley since 2017.

BMSB are capable to do damage to all stages of the fruit development in almonds. Early-season feeding causes nut abortion, resulting in substantial nut drop, while midto-late season infestations result in gummy, darken-spot or dimpled kernels.

BMSB has started causing damage in commercial almond orchards in upper San Joaquin Valley. BMSB are capable to cause some degree of injuries in all stages of nut development in almonds.

Although we are using two trap types for research purpose, based on previous year's studies, we found that sticky panel trap is equally effective in detecting BMSB adults compared to pyramid trap.

Sticky trap is much more user-friendly and cheaper than the pyramid trap, and we recommend the sticky trap with BMSB lure for growers and PCAs for monitoring which should start in mid-March.

It is recommended that growers and pest control advisers (PCAs) pay close attention to BMSB activities in orchards and monitor BMSB population at least in orchards in the area with high risks (i.e. area with known infestation, near to highways; near to other hosts (e.g. tree of heaven).

Although no variety is immune to BMSB attack, some almond varieties are more susceptible than others. We will report the result of our varietal comparison study in ABC annual report.





Fig. 3 BMSB temporal feeding study set up showing caged fruits with BMSB inside

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