


Research

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Field of specialization and Research Interest	Specialization: Economic Entomology(Pest Management) Research Interest: Insect and mite pest management in vegetable crops under protected environment using biorationals and bioagents
Educational Qualifications	Ph.D. (Entomology)
Employment Record along with Professional Experience	
Principal Scientist	August 18,2009 to continuing
Senior Scientist	August 18,2009 to August 17, 2009
Scientist	August 18,1994, 1995 to August 17, 2003
Professional Experience	30 years (Teaching, Research, Extension and Teaching)
Research Projects handled	9 (as Principal Investigator) 10 (as Co-Principal Investigator)
Research Publications <i>(Best five publications during last five years)</i>	Total Publications in peer reviewed journals: 80 <ol style="list-style-type: none"> <li>1.Sharma, S.D. 2022. Management of brinjal shoot and fruit borer <i>Leucinodes orbonalis</i> with chemicals and crude plant extracts. <i>Indian Journal of Plant Protection</i> 49(2):101-106. (NAAS rating : <b>5.07</b>).</li> <li>2.Sharma, S.D. 2022. Comparative efficacy of different insecticides, biopesticides and plant extracts against the cutworms. <i>Indian Journal of Plant Protection</i>. 50(4):127-130.(NAAS rating : <b>5.07</b>).</li> <li>3.Sharma, S.D. and Sidhu K S. 2020. Effect of sowing date and seed rate on the incidence of cutworms <i>Agrotis spp</i> in maize. <i>Indian Journal of Entomology</i> 82(4):697-699 (NAAS rating : <b>5.89</b>).</li> <li>4.Sharma, S.D. 2018. Invasion of leaf miner <i>Tuta absoluta</i> Meyrich on tomato in Kullu valley of Himachal Pradesh. <i>Indian Journal of Plant Protection</i>. 46(2-4):229-231.(NAAS rating <b>5.07</b>).</li> <li>5.Sharma, S.D. and Lal, R. 2019. Bioefficacy and economics of readymade mixed formulation and conventional insecticides against red pumpkin beetle and fruit fly infesting cucumber (<i>Cucumis sativus</i>) in Kullu Valley of Himachal Pradesh. <i>Journal of Entomological Research</i> 42(1):45-49. (NAAS rating : <b>5.89</b>).</li> </ol>
Books Published	Booklets published =3 Book Chapters=5
Conference/Symposium papers	40
Farmers outreach/ including popular articles	Number of trainings organized: 25 Popular articles/ Pamphlets: 180 Success stories =6
Students guided as major adviser	M.Sc.: 4; continuing:4 Ph.D.: Nil; continuing: 2
Awards/Fellowships (Best three)	➤ Bestowed upon with an <b>Excellent work award (a memento and certificate)</b> for the excellent work under project on “Popularization, promotion and validation of IPM technology in vegetables with emphasis on biopesticides, plant extracts,

	<p>pheromone traps and bioagents' which was concluded at HAREC, Bajaura. The project was sanctioned by the NABARD and the award was conferred on February 8, 2023. The award was given by the Chief Secretary, Govt. of HP.</p> <ul style="list-style-type: none"> <li>➤ Awarded the Fellowship of Plant Protection Society of India, Hyderabad on March 2018.</li> <li>➤ Received certificate of appreciation from NIT, Hamirpur (H.P.) for presenting a paper on “ Impact of climate change on cropping pattern and insect pests” on June 5, 2015 in International Workshop on Mitigating Climate change impacts held at NIT, Hamirpur.</li> <li>➤ Got the certificate of Excellence in Reviewing the papers of Indian Journal of Plant Protection, Indian Journal of Entomology and Current Agricultural Research Journal.</li> </ul>
Miscellaneous achievements/activities	<p><b>New Insects identified = 3</b></p> <p><b>a) In Research</b></p> <ul style="list-style-type: none"> <li>➤ Worked on high value cash crops like kalazira, saffron and rajmash and reported the incidence of insect pests in these crops for the first time. Among the insect pests attacking kalazira, gram pod borer has been found to be the most serious with 30-40% infestation.</li> <li>➤ <b>In rajmash, leaf eating weevil <i>Strophosomoides kumaoensis</i></b> was identified and reported as a serious pest in Sangla valley for the first time from India with 20-30 per cent seedling mortality. This insect was reported on rajmash for the first time from India and management practices for its control were also suggested.</li> <li>➤ <b>Bean bug <i>Chauliops nigrescens</i></b> was also identified and reported on rajmash for the first time from Sangla.</li> <li>➤ <b>New evidence</b> ; New evidence of pseudo scorpion <i>Ellingsenius indicus</i> Chamberlin predated upon Indian honey bee <i>Apis cerana</i> and causing huge bee mortality in Kullu district was reported and published for the first time.</li> <li>➤ <b>Biopesticide efficacy:</b>In view of the safety to the human health and ecology, biopesticides like neem and plant extracts like extract prepared from 5 plant species and used as 5% ( bhang, karvi, walnut, kaner &amp; darek) were found to be effective with 13.6 and 19.2 % leaf miner infestation after 10 days of their 2<sup>nd</sup> spray with significantly higher yields.</li> <li>➤ A new insect identified as green gram weevil, <i>Pachytychius mungonis</i> was found damaging the pods of black gram, cowpea and green gram in Kullu valley of Himachal Pradesh was reported from India as the pest of these crops for the first time.</li> <li>➤ Reported the new insect pinworm or leaf miner <i>Tuta absoluta</i> attacking tomato for the first time from Kullu valley during 2017.</li> <li>➤ <b>.Evaluation of new molecule:</b> i)A new molecule Combi DT (deltamethrin+ triazophos) @ 1ml/l was tested and found effective against insect pests of cucumber in Kullu valley of Himachal Pradesh.</li> <li>➤ Another molecule , Polytrin C 44 % ( a mixture of profenophos(40%) and cypermethrin (4%) was tested against shoot and fruit borer of brinjal and found effective.</li> </ul> <p><b>In Extension</b></p> <ul style="list-style-type: none"> <li>➤ Organized a Farmer field School during 2006-2007 at Haat village of Kullu district.</li> <li>➤ Organized 20 one day field trainings under two NABARD projects. Also organized 3 Institutional trainings under these projects.</li> <li>➤ Laid out 70 demonstrations of cabbage, cauliflower, tomato, pea, brinjal and garlic in Kullu, Naggar and Banjar blocks under two NABARD projects.</li> </ul>

