

### Appendix 3: SLN surveys in South America

Table 3.1 Silverleaf nightshade *Solanum elaeagnifolium* natural enemy survey locations in Argentina and Paraguay.

Location name	Country	Province	Cyotype	Latitude	Longitude	Date of first visit	Fruits	Flowers	Comments	Aceria	Gratiana	Corythaica passiflorae (Tingidae)	Coccidae?
Corrientes, Alta Gracia	Argentina	Corrientes		-27.506646	-58.810402	19/10/2017	yes	yes		0	0	1	0
Rio Quequén Salado	Argentina	Buenos Aires		-38.61093	-60.61853	2/01/2018	yes	yes		0	1	1	0
Sauce Grande	Argentina	Buenos Aires		-38.99249	-61.23811		yes	yes		1	1	1	0
Rt 3, km 581, Dorrego	Argentina	Buenos Aires		-38.71092	-61.14184	19/01/2018	yes	yes		0	1	1	0
Empalme R3 y 205, Cañuelas	Argentina	Buenos Aires		-35.023333	-58.724722	19/01/2018	yes	yes		1	0	1	0
Hurlingham	Argentina	Buenos Aires		-34.588056	-58.638056	27/01/2018	yes	yes		1	0	1	0
Chajarí, Estación de servicio La Nueva, sobre Rt 14	Argentina	Entre Ríos		-30.75633	-58.02014	23/01/2018	No	No		1	0	1	0
Rt 14 km 31	Argentina	Entre Ríos		-33.23964	-58.70457	23/01/2018	No	No		0	0	1	0
Rt12 km 160	Argentina	Entre Ríos		-33.49806	-58.80056	23/01/2018	yes	yes		1	0	0	0
Rt 14, km 30-31	Argentina	Entre Ríos		-33.23964	-58.70457	23/01/2018	yes	yes		1	0	1	0
Pa'i Puku, Rt Transchaco, km 160	Paraguay			-24.30389	-58.24888	7/02/2018	yes	yes		1	1	0	0
Monte Lindo, Tanschaco	Paraguay			-23.90143	-58.44626	7/02/2018	yes	yes		1	0	1	0
Dragones, Rt 81 km 1805, 23°13.964, W 63° 24.742	Argentina	Salta		-23.232733	-63.412367	12/02/2018	yes	yes		1	1	1	0
Pluma de Pato, Rt 81, 23° 22.380, W 63° 05.283	Argentina	Salta		-23.373	-63.08805	12/02/2018	yes	yes		0	1	1	0
Coronel Juan Sol , Rt 81 km 1726, S 23° 32.684, W 62° 42.700	Argentina	Salta		-23.544733	-62.711667	13/02/2018	yes	yes		0	1	1	0
Hurlingham, Remedios de Escalada y Vergara	Argentina	Buenos Aires		-34.58823	-58.63817	22/02/2018	yes	no	Al costado de vja de tren	0	0	1	0
Rt9	Argentina	Santiago del Estero		-29.35151	-63.78161	14/03/2018	yes	no		1	0	0	0
Ojo de Agua	Argentina	Santiago del Estero		-29.50164	-63.69657	14/03/2018	yes	no		1	0	1	0
Ciudad de Santiago del Estero	Argentina	Santiago del Estero		-27.7927	-64.26899	15/03/2018	yes	yes	parada de colectivos	1	0	1	0
La Banda, Frente entrada INTA textil	Argentina	Santiago del Estero		-27.75769	-64.25588	16/03/2018	yes	yes		1	0	1	0
Sierra de la Ventana, Balneario La Hoya	Argentina	Buenos Aires		-38.123698	-61.798325	21/03/2018	yes	yes		1	0	0	0
Sierra de la Ventana, Balneario Tr, s μlamos	Argentina	Buenos Aires		-38.119011	-61.796825	21/03/2018	yes	yes		1	1	1	0

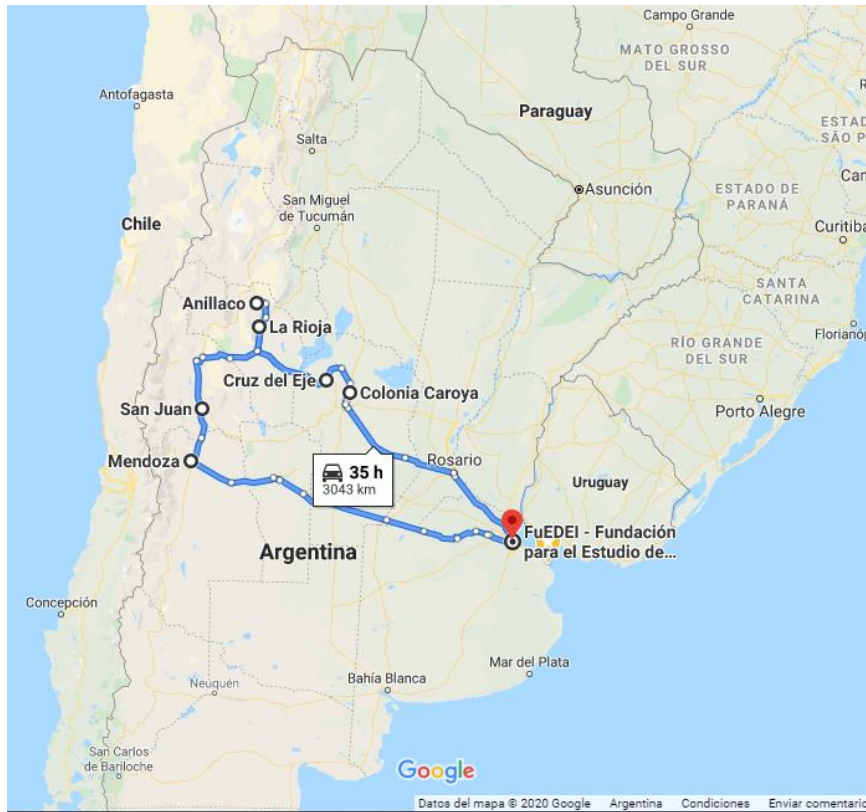
Sierra de la Ventana, calle lateral ruta, puente peatonal	Argentina	Buenos Aires		-38.123464	-61.80012	21/03/2018	yes	yes		1	1	1	0
Bahja Blanca, Cerzos	Argentina	Buenos Aires		-38.66598	-62.23415	21/03/2018	yes	yes		1	0	1	0
Rt 38 Villa del Soto	Argentina	Ccrdoba		-30.856369	-65.001253	17/05/2018	yes	yes		1	0	1	0
Chemical, frente a estaci3n de servicios Axi3n	Argentina	La Rioja		-30.351511	-66.311703	17/05/2018	yes	yes		1	0	1	0
Ciudad de La Rioja, UnLAR	Argentina	La Rioja		-29.42823	-66.86983	18/05/2018	yes	yes		1	0	1	0
Anillaco	Argentina	La Rioja		-28.8076	-66.92759	18/05/2018	yes	yes		1	0	1	0
San Juan, Rt 40 y calle 10	Argentina	San Juan		-31.652129	-68.539623	20/05/2018	yes	yes		1	0	1	0
Rt 7 km 1164	Argentina	Mendoza		-32.63365	-69.49455	23/05/2018	yes	yes		1	0	1	0
Rt 7, Desaguadero	Argentina	San Luis		-33.4121	-67.1214	25/05/2018	yes	yes		1	0	1	0
Luj n de Cuyo, Hotel de los Andes	Argentina	Mendoza		-33.05031	-68.87345	25/05/2018	yes	yes		1	0	0	1
Rt 52, Cerca de Las Heras	Argentina	Mendoza		-32.70795	-68.85662	25/05/2018	yes	yes		1	0	1	0
Rt 94, 4 km NO Vistaflares	Argentina	Mendoza		-33.61138	-69.17947	26/05/2018	yes	yes		0	0	0	0
Rt 92, la Consulta	Argentina	Mendoza		-33.74038	-69.11048	26/05/2018	yes	yes		0	0	1	0
Rt 40, Pareditas	Argentina	Mendoza		-33.92752	-69.0823	27/05/2018	yes	yes		1	0	1	0
San Rafael, Museo Historia Natural	Argentina	Mendoza		-34.64573	-68.3759	27/05/2018	yes	yes		1	0	1	0
Rt 144, Camino al Nihuil, Fabrica de Aceite de Oliva	Argentina	Mendoza		-34.64373	-68.47695	28/05/2018	yes	yes		1	1	1	0
Rt 173 2 Km NO de Nihuil, Ca3on del Atuel	Argentina	Mendoza		-35.0029	-68.64518	28/05/2018	yes	yes		1	0	1	0
Santa Isabel	Argentina	La Pampa		-36.23813	-66.94227	29/05/2018	yes	yes		1	0	0	0
25 de Mayo	Argentina	La Pampa		-37.76718	-67.72732	30/05/2018	yes	yes		1	0	1	0
Rt 22, oeste de Cutral-C3	Argentina	Rio Negro		-38.93945	-69.30322	31/05/2018	yes	yes		0	0	0	0
Chichinales	Argentina	Rio Negro		-39.11337	-66.93483	1/06/2018	yes	yes		1	0	0	0
Darwin, este	Argentina	Rio Negro		-39.22553	-65.71292	2/06/2018	yes	yes		1	0	0	0
Darwin, pueblo	Argentina	Rio Negro		-39.20255	-65.74141	2/06/2018	yes	yes		1	0	0	0
Rt 2, Entre Lamarque y San Antonio Oeste	Argentina	Rio Negro		-40.4112	-65.02731	3/06/2018	yes	yes		1	1	1	0
General Conesa	Argentina	Rio Negro		-40.10203	-64.50683	4/06/2018	yes	yes		1	1	0	0
Rt 3 km 916, S entrada Jos, B. Casas	Argentina	Buenos Aires		-40.46778	-62.80024	5/06/2018	yes	yes		1	0	0	0
Stroeder	Argentina	Buenos Aires		-40.17538	-62.62154	5/06/2018	yes	yes		1	0	0	0
Merlo	Argentina	San Luis		-32.346633	-65.019493	14/05/2018	yes	yes		1	0	1	0

Lavalle	Argentina	Santiago del Estero		-28.187422	-65.101604	20/12/2019	yes	yes	Collection for rearing	1	0	1	0
Lavalle	Argentina	Santiago del Estero		-28.187422	-65.101604	11/01/2020	yes	yes	Collection for rearing	1	0	1	1
1 de Mayo Department. FC 879	Argentina	Chaco	2x	-	-57.9835				Chiarini et al 2018				
Pueyrredon Department, El Chorrillo Locality. NI 1276	Argentina	San Luis	4x	-32.995	-65.9955				Chiarini et al 2018				
Pichi Mahuida Department, RN 22. NI 154	Argentina	Rio Negro	4x	-	-				Chiarini et al 2018				
General Gemes Department, Rosario de la Frontera Locality. LG 214	Argentina	Salta	6x	-	-				Chiarini et al 2018				
9 de Julio Department, RN 95. FC 917	Argentina	Sant Fe	6x	-	-60.997				Chiarini et al 2018				
Ojo de Agua Department, Villa Ojo de Agua Locality. AH 25089	Argentina	Santiago del Estero	6x	-	-				Chiarini et al 2018				
Capital Department. FC 1028	Argentina	Cordoba	6x	-	-				Chiarini et al 2018				
Calamuchita Department, RP 5. EM 180	Argentina	Cordoba	6x	-30.9845	-63.991				Chiarini et al 2018				
Junjn Department, Merlo Locality. RJ 39	Argentina	San Luis	6x	-	-64.9995				Chiarini et al 2018				
Patixio Department, RN 81. FC 892	Argentina	Formosa	2x	-24.9955	-				Chiarini et al 2018				
Copiapc Province, Paipote Locality. AC 369	Chile	Atacama Region	2x	-	-				Chiarini et al 2018				
La Banda Department, INTA. NI 144	Argentina	Santiago del Estero	2x	-26.987	-				Chiarini et al 2018				
Cruz del Eje Department, RN 38. MS 3	Argentina	Cordoba	2x	-29.374	-				Chiarini et al 2018				
Lavalle Department, Telteca, Provincial Reserve. NI 1453	Argentina	Mendoza	2x	-31.9935	-67.9995				Chiarini et al 2018				
Confluencia Department. GB 76	Argentina	Rio Negro	2x	-37.9845	-				Chiarini et al 2018				
Minas Department. GB 2010	Argentina	Cordoba	2x	-30.0135	-				Chiarini et al 2018				
Lihuel Calel Department	Argentina	La Pampa	2x	-38	-				Chiarini et al 2018				
Tornquist Department, Sierra de La Ventana Locality. GB 2308	Argentina	Buenos Aires	2x	-38.2	-				Chiarini et al 2018				
Zapala Department, San Antonio Locality. JC 1804	Argentina	Neuquen	4x	-	-				Chiarini et al 2018				
Villarino Department, GB 2321	Argentina	Buenos Aires	4x	-	-				Chiarini et al 2018				

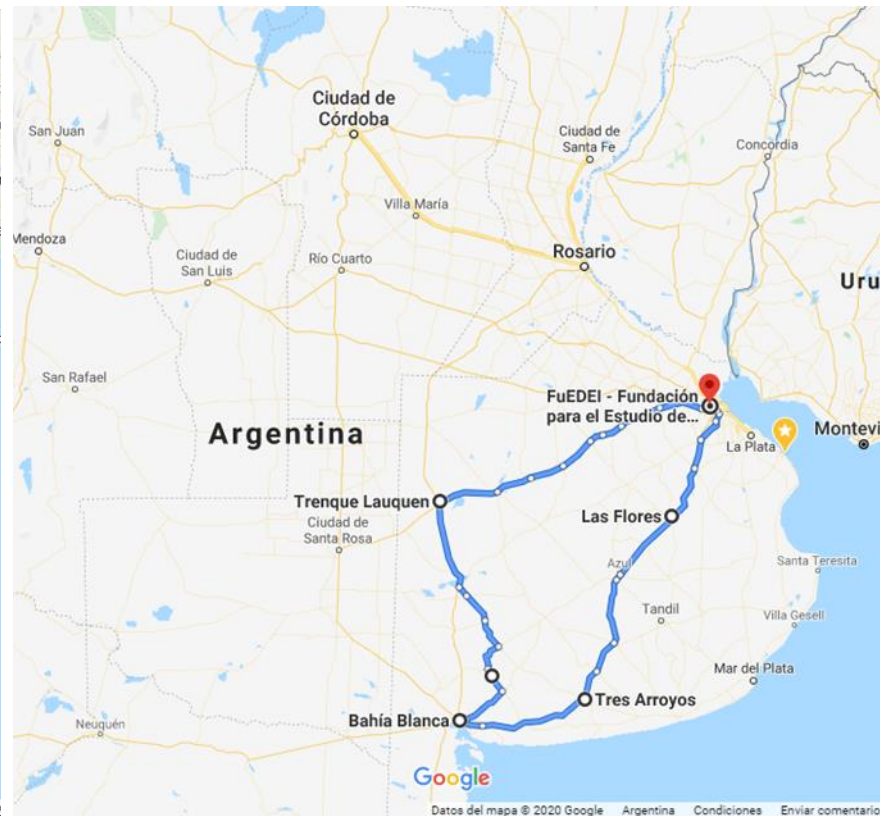
Aceria = *Aceria* sp. nov.; Gratiana = *Gratiana* cf. *lutescens*

**Table 3.2 Silverleaf nightshade natural enemies recovered from FuEDEI surveys**

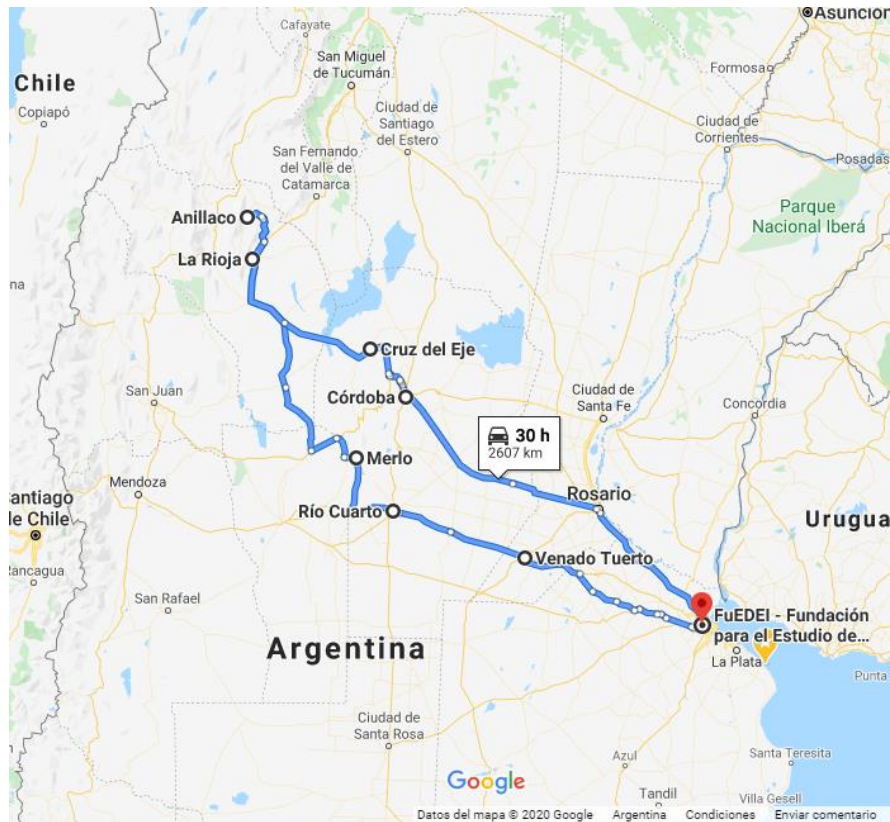
Natural Enemy	Guild	Damage	Province
<b>Coccidae</b>	Sap feeder	Not visible	Santiago del Estero, Central Paraguay
<b>Pseudococcidae</b>	Sap Feeder	Not visible	Mendoza
<b>Aphids</b>	Sap feeder	Not visible	Mendoza, San Juan, La Rioja, Buenos Aires
<b>Cicadeliidae</b>	Sap feeder	Not visible	
<b>Empoasca</b>	Sap feeder	Visible	
<b>Membracidae</b>	Sap feeder	Not visible	
<b>Miridae?</b>	Sap feeder/fruits	visible	San Luis
<b>Tingidae</b>	Sap feeder	Visible	All sites
<b>Eriophyidae 1, Aceria?</b>	Leaf galler	Galls	Santiago del Estero
<b>Eriophyidae 2</b>	Leaf galler	Galls	Santiago del Estero, La Rioja, Córdoba, Mendoza, San Juan
<b>Chrysomelidae, Gratiana</b>	Leaf feeder	Visible,	Buenos Aires, Entre Ríos, Santiago del Estero, central Paraguay
<b>Chrysomelidae, Diabrotica</b>	Leaf feeder		Buenos Aires
<b>Lepidoptera</b>	Leaf tying	Not visible	Buenos Aires, Salta, La Rioja
<b>Lepidoptera, Gelechidae?</b>	Leaf miner		Buenos Aires
<b>Agromyzidae</b>	Leaf miner		Buenos Aires
<b>Nematode</b>	Leaf galler	Noticeable	Salta
<b>Fungi?</b>	Spots on fruits		Buenos Aires, Mendoza, San Juan



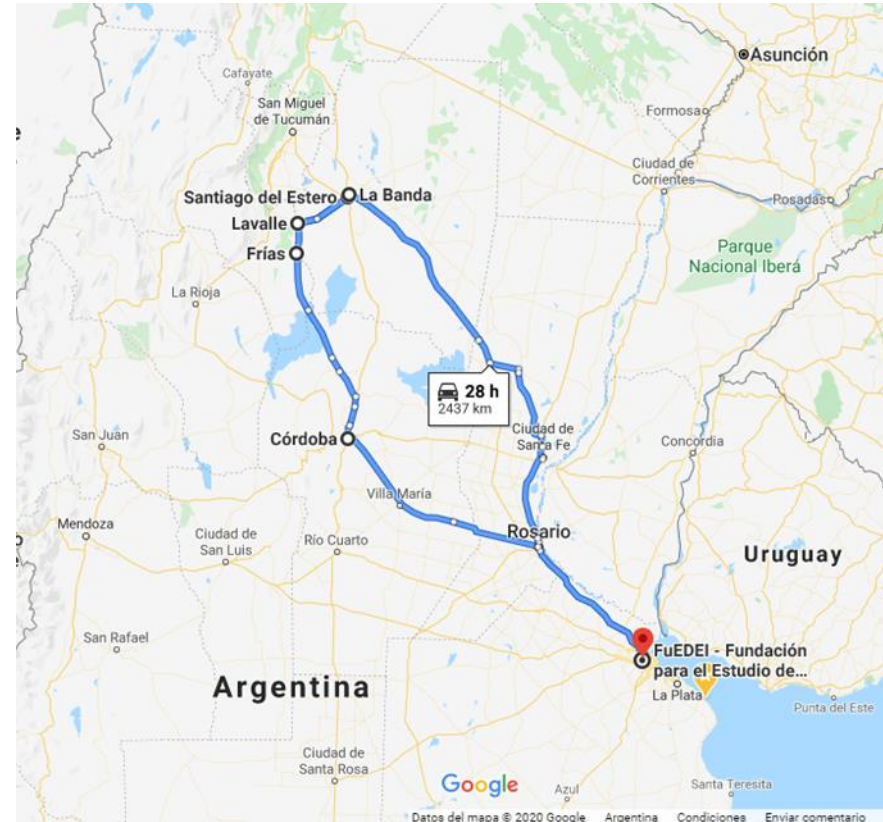
a. October 2018, November 2019. La Rioja and surrounding areas  
Blanca



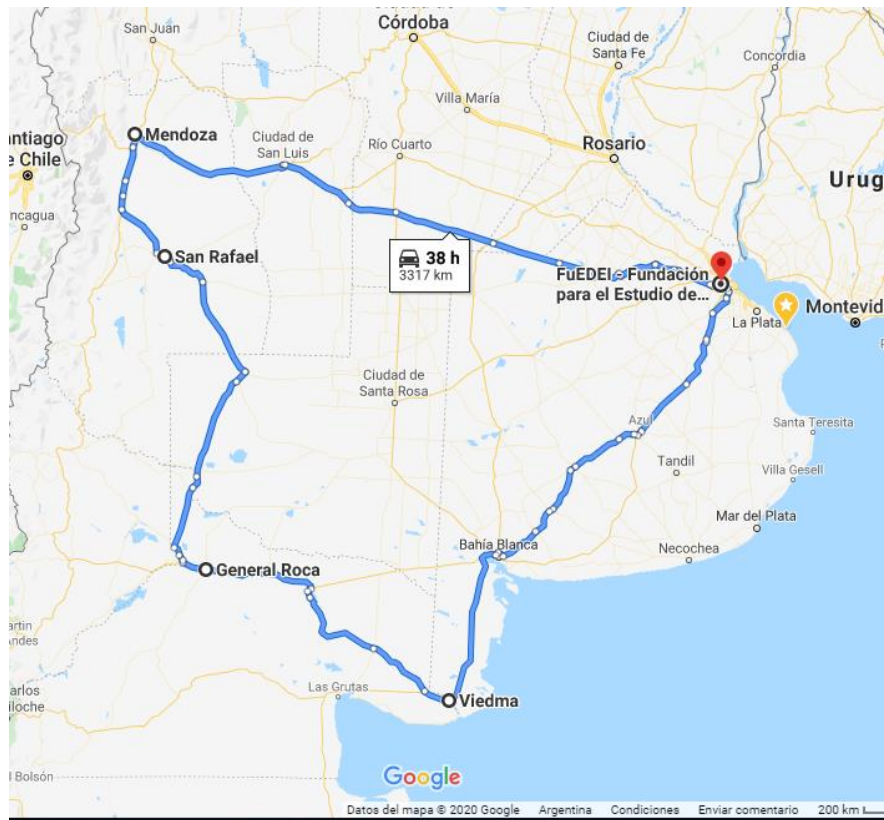
b. January 2018, March 2018, January 2019, March and April 2019. Bahía  
Blanca



c. October 2019, Merlo (San Luis) and La Rioja, surveys for *Aceria* and rust



d. November 2019, December 2019, January 2020. Trips to collect plant and *Aceria* from La Banda and Lavalle



e. May 2019. Mendoza and southern areas

Figure 3.1 a-e, Silverleaf nightshade natural enemy survey routes in Argentina and Paraguay