

Apéndice D. Tabla de datos de resultados en el experimento de evaluación

inst_id	m	n	alpha	a	seed_inst	xi	exact_o bj	exact_t ime_s	exact_s tatus	exact_mi pgap	ga_seeds	ga_ob j_avg	ga_obj _std	ga_obj_ best	ga_time_ avg_s	ga_time_to_ best_avg_s	gap_avg_v s_opt_%	gap_best_vs _opt_%	best_kno wn_obj	gap_avg_vs_bes tknown_%	gap_best_vs_be stknown_%	ga_runs_json	time_limit _sec	gurobi_ seed	tam_pob	n_genera ciones	prob_cru ce	prob_mu tar	tam_t orneo	elitismo	usar_local _search
I-001	5	30	5	3	202500	90	65.10	0.19	OPTIMA	0	11,22,33,44,55	74.80	0.00	74.80	0.35	0.04	14.90	14.90	65.10	14.90	14.90	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-002	5	30	10	3	202501	45	42.50	0.14	OPTIMA	0	11,22,33,44,55	74.20	2.68	73.00	0.42	0.09	74.59	71.76	42.50	74.59	71.76	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-003	5	30	40	3	202502	11	15.20	0.09	OPTIMA	0	11,22,33,44,55	66.30	0.00	66.30	0.60	0.21	336.18	336.18	15.20	336.18	336.18	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-004	5	30	5	7	202503	90	93.70	0.07	OPTIMA	0	11,22,33,44,55	98.22	2.53	93.70	0.52	0.12	4.82	0.00	93.70	4.82	0.00	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-005	5	30	10	7	202504	45	62.50	0.09	OPTIMA	0	11,22,33,44,55	82.30	0.00	82.30	0.43	0.08	31.68	31.68	62.50	31.68	31.68	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-006	5	30	40	7	202505	11	56.80	0.15	OPTIMA	0	11,22,33,44,55	81.90	1.91	78.50	0.68	0.28	44.19	38.20	56.80	44.19	38.20	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-007	5	30	5	15	202506	90	101.60	0.14	OPTIMA	0	11,22,33,44,55	#####	3.18	103.20	1.36	0.84	3.78	1.57	101.60	3.78	1.57	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-008	5	30	10	15	202507	45	101.00	0.08	OPTIMA	0	11,22,33,44,55	#####	4.21	101.00	1.15	0.65	2.16	0.00	101.00	2.16	0.00	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-009	5	30	40	15	202508	15	161.60	0.06	OPTIMA	0	11,22,33,44,55	#####	0.33	167.60	1.14	0.48	3.94	3.71	161.60	3.94	3.71	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-010	5	30	5	30	202509	90	190.70	0.10	OPTIMA	0	11,22,33,44,55	#####	6.63	204.40	2.00	1.23	10.78	7.18	190.70	10.78	7.18	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-011	5	30	10	30	202510	45	205.60	0.06	OPTIMA	0	11,22,33,44,55	#####	6.08	205.60	2.28	1.47	1.54	0.00	205.60	1.54	0.00	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-012	5	30	40	30	202511	30	197.90	0.06	OPTIMA	0	11,22,33,44,55	#####	0.16	206.50	1.75	0.93	4.44	4.35	197.90	4.44	4.35	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-013	5	60	5	3	202512	180	85.80	0.19	OPTIMA	0	11,22,33,44,55	#####	0.00	132.60	0.32	0.02	54.55	54.55	85.80	54.55	54.55	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-014	5	60	10	3	202513	90	60.50	0.23	OPTIMA	0	11,22,33,44,55	#####	2.38	128.60	0.50	0.18	114.45	112.56	60.50	114.45	112.56	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-015	5	60	40	3	202514	22	37.30	0.26	OPTIMA	0	11,22,33,44,55	#####	0.07	126.30	0.53	0.17	244.88	238.61	37.30	244.88	238.61	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-016	5	60	5	7	202515	180	159.50	0.14	OPTIMA	0	11,22,33,44,55	#####	0.13	159.50	0.68	0.29	0.04	0.00	159.50	0.04	0.00	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-017	5	60	10	7	202516	90	111.30	0.43	OPTIMA	0	11,22,33,44,55	#####	3.22	146.20	0.78	0.38	33.55	31.36	111.30	33.55	31.36	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-018	5	60	40	7	202517	22	186.30	0.12	OPTIMA	0	11,22,33,44,55	#####	0.00	186.30	0.71	0.23	0.00	0.00	186.30	0.00	0.00	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-019	5	60	5	15	202518	180	272.90	0.12	OPTIMA	0	11,22,33,44,55	#####	1.89	288.20	1.10	0.47	6.11	5.61	272.90	6.11	5.61	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-020	5	60	10	15	202519	90	196.00	0.10	OPTIMA	0	11,22,33,44,55	#####	0.00	198.30	0.88	0.32	1.17	1.17	196.00	1.17	1.17	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-021	5	60	40	15	202520	22	185.40	0.17	OPTIMA	0	11,22,33,44,55	#####	0.00	185.40	1.27	0.69	0.00	0.00	185.40	0.00	0.00	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-022	5	60	5	30	202521	180	231.00	0.13	OPTIMA	0	11,22,33,44,55	#####	20.98	282.00	2.22	1.43	29.03	22.08	231.00	29.03	22.08	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-023	5	60	10	30	202522	90	209.70	0.15	OPTIMA	0	11,22,33,44,55	#####	20.05	257.60	2.70	1.93	30.00	22.84	209.70	30.00	22.84	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-024	5	60	40	30	202523	30	358.30	0.19	OPTIMA	0	11,22,33,44,55	#####	8.83	382.80	3.15	2.27	8.69	6.84	358.30	8.69	6.84	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-025	5	180	5	3	202524	540	108.50	0.31	OPTIMA	0	11,22,33,44,55	#####	2.74	366.90	0.31	0.02	240.00	238.16	108.50	240.00	238.16	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-026	5	180	10	3	202525	270	183.20	0.30	OPTIMA	0	11,22,33,44,55	#####	0.00	380.60	0.36	0.03	107.75	107.75	183.20	107.75	107.75	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-027	5	180	40	3	202526	67	13.00	0.42	OPTIMA	0	11,22,33,44,55	#####	0.00	365.00	0.43	0.06	2707.69	2707.69	13.00	2707.69	2707.69	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-028	5	180	5	7	202527	540	176.70	0.43	OPTIMA	0	11,22,33,44,55	#####	8.88	370.50	0.44	0.11	114.91	109.68	176.70	114.91	109.68	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-029	5	180	10	7	202528	270	472.80	0.35	OPTIMA	0	11,22,33,44,55	#####	52.16	475.40	0.76	0.25	5.52	0.55	472.80	5.52	0.55	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-030	5	180	40	7	202529	67	75.50	0.61	OPTIMA	0	11,22,33,44,55	#####	4.92	383.00	0.68	0.24	412.16	407.28	75.50	412.16	407.28	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-031	5	180	5	15	202530	540	325.10	1.51	OPTIMA	0	11,22,33,44,55	#####	16.19	390.70	1.00	0.50	29.09	20.18	325.10	29.09	20.18	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-032	5	180	10	15	202531	270	359.40	2.57	OPTIMA	0	11,22,33,44,55	#####	56.16	411.10	1.54	0.97	24.95	14.39	359.40	24.95	14.39	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-033	5	180	40	15	202532	67	493.20	0.63	OPTIMA	0	11,22,33,44,55	#####	69.62	502.40	1.71	1.08	21.70	1.87	493.20	21.70	1.87	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-034	5	180	5	30	202533	540	555.40	0.50	OPTIMA	0	11,22,33,44,55	#####	17.45	711.10	2.95	2.11	33.65	28.03	555.40	33.65	28.03	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-035	5	180	10	30	202534	270	427.20	0.50	OPTIMA	0	11,22,33,44,55	#####	70.52	428.40	2.93	2.18	17.43	0.28	427.20	17.43	0.28	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-036	5	180	40	30	202535	67	500.10	0.95	OPTIMA	0	11,22,33,44,55	#####	39.55	534.80	2.79	2.00	14.93	6.94	500.10	14.93	6.94	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-037	25	30	5	3	202536	450	77.80	0.27	OPTIMA	0	11,22,33,44,55	#####	4.74	104.60	0.49	0.08	45.35	34.45	77.80	45.35	34.45	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-038	25	30	10	3	202537	225	144.80	0.20	OPTIMA	0	11,22,33,44,55	#####	0.16	175.50	0.73	0.21	21.28	21.20	144.80	21.28	21.20	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-039	25	30	40	3	202538	56	13.50	0.26	OPTIMA	0	11,22,33,44,55	69.60	5.37	66.00	0.77	0.34	415.56	388.89	13.50	415.56	388.89	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-040	25	30	5	7	202539	450	189.20	0.56	OPTIMA	0	11,22,33,44,55	#####	17.18	211.60	1.82	1.04	27.95	11.84	189.20	27.95	11.84	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-041	25	30	10	7	202540	225	89.50	0.29	OPTIMA	0	11,22,33,44,55	#####	17.70	89.50	1.01	0.36	19.98	0.00	89.50	19.98	0.00	["seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-042	25	30	40	7	202541	56	102.50	2.12	OPTIMA	0	11,22,33,44,55	#####	16.07	140.50	2.33	1.67															

I-061	25	180	5	3	202560	###	106.80	1.55	OPTIMA	0	11,22,33,44,55	#####	0.00	365.90	0.33		0.05	242.60	242.60	106.80		242.60	242.60	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-062	25	180	10	3	202561	###	210.60	2.13	OPTIMA	0	11,22,33,44,55	#####	26.91	387.40	0.62		0.18	96.73	83.95	210.60		96.73	83.95	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-063	25	180	40	3	202562	337	74.80	2.50	OPTIMA	0	11,22,33,44,55	#####	12.72	403.90	1.05		0.51	460.53	439.97	74.80		460.53	439.97	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-064	25	180	5	7	202563	###	509.00	1.82	OPTIMA	0	11,22,33,44,55	#####	18.45	509.00	1.03		0.40	3.10	0.00	509.00		3.10	0.00	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-065	25	180	10	7	202564	###	440.60	4.58	OPTIMA	0	11,22,33,44,55	#####	13.53	559.40	1.31		0.61	29.33	26.96	440.60		29.33	26.96	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-066	25	180	40	7	202565	337	88.40	2.24	OPTIMA	0	11,22,33,44,55	#####	22.87	401.30	1.45		0.88	378.73	353.96	88.40		378.73	353.96	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-067	25	180	5	15	202566	###	898.80	1.63	OPTIMA	0	11,22,33,44,55	#####	67.49	940.40	2.57		1.55	17.81	4.63	898.80		17.81	4.63	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-068	25	180	10	15	202567	###	497.20	3.18	OPTIMA	0	11,22,33,44,55	#####	110.59	514.40	4.28		3.57	42.35	3.46	497.20		42.35	3.46	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-069	25	180	40	15	202568	337	231.90	17.15	OPTIMA	0	11,22,33,44,55	#####	57.76	507.80	3.55		2.64	146.28	118.97	231.90		146.28	118.97	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-070	25	180	5	30	202569	###	1102.70	2.57	OPTIMA	0	11,22,33,44,55	#####	76.07	1363.90	6.12		5.21	32.43	23.69	1102.70		32.43	23.69	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-071	25	180	10	30	202570	###	994.30	2.60	OPTIMA	0	11,22,33,44,55	#####	104.28	1207.90	6.79		5.61	34.19	21.48	994.30		34.19	21.48	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-072	25	180	40	30	202571	337	527.60	57.29	OPTIMA	0	11,22,33,44,55	#####	86.76	776.90	8.23		7.67	66.88	47.25	527.60		66.88	47.25	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-073	100	30	5	3	202572	###	219.10	0.95	OPTIMA	0	11,22,33,44,55	#####	31.35	219.10	0.95		0.14	25.60	0.00	219.10		25.60	0.00	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-074	100	30	10	3	202573	900	137.90	2.96	OPTIMA	0	11,22,33,44,55	#####	0.00	137.90	0.90		0.15	0.00	0.00	137.90		0.00	0.00	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-075	100	30	40	3	202574	225	72.60	2.81	OPTIMA	0	11,22,33,44,55	#####	34.31	78.60	1.13		0.49	47.52	8.26	72.60		47.52	8.26	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-076	100	30	5	7	202575	###	316.50	3.26	OPTIMA	0	11,22,33,44,55	#####	15.15	337.80	2.59		1.47	13.53	6.73	316.50		13.53	6.73	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-077	100	30	10	7	202576	900	241.40	2.03	OPTIMA	0	11,22,33,44,55	#####	117.62	275.20	4.91		3.33	100.04	14.00	241.40		100.04	14.00	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-078	100	30	40	7	202577	225	139.30	6.27	OPTIMA	0	11,22,33,44,55	#####	35.41	227.10	3.27		2.14	97.88	63.03	139.30		97.88	63.03	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-079	100	30	5	15	202578	###	357.50	1.00	OPTIMA	0	11,22,33,44,55	#####	23.50	538.10	4.09		2.11	59.35	50.52	357.50		59.35	50.52	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-080	100	30	10	15	202579	900	245.20	2.35	OPTIMA	0	11,22,33,44,55	#####	57.96	535.00	9.18		7.34	139.55	118.19	245.20		139.55	118.19	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-081	100	30	40	15	202580	225	206.50	1.22	OPTIMA	0	11,22,33,44,55	#####	68.03	523.00	9.50		7.92	197.67	153.27	206.50		197.67	153.27	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-082	100	30	5	30	202581	###	808.90	1.70	OPTIMA	0	11,22,33,44,55	#####	10.38	828.40	8.16		5.42	3.58	2.41	808.90		3.58	2.41	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-083	100	30	10	30	202582	900	631.40	9.18	OPTIMA	0	11,22,33,44,55	#####	37.36	777.60	15.31		14.53	31.22	23.15	631.40		31.22	23.15	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-084	100	30	40	30	202583	225	410.60	9.31	OPTIMA	0	11,22,33,44,55	#####	67.94	651.70	13.99		12.53	75.74	58.72	410.60		75.74	58.72	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-085	100	60	5	3	202584	###	340.50	2.18	OPTIMA	0	11,22,33,44,55	#####	0.00	426.20	1.25		0.14	25.17	25.17	340.50		25.17	25.17	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-086	100	60	10	3	202585	###	390.20	4.15	OPTIMA	0	11,22,33,44,55	#####	0.00	406.90	1.51		0.38	4.28	4.28	390.20		4.28	4.28	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-087	100	60	40	3	202586	450	89.90	4.98	OPTIMA	0	11,22,33,44,55	#####	12.62	205.30	1.71		0.79	139.84	128.36	89.90		139.84	128.36	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-088	100	60	5	7	202587	###	522.40	1.94	OPTIMA	0	11,22,33,44,55	#####	30.63	566.40	2.88		1.36	18.65	8.42	522.40		18.65	8.42	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-089	100	60	10	7	202588	###	284.40	5.23	OPTIMA	0	11,22,33,44,55	#####	70.09	337.00	3.65		2.52	57.29	18.50	284.40		57.29	18.50	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-090	100	60	40	7	202589	450	114.30	9.13	OPTIMA	0	11,22,33,44,55	#####	112.21	206.10	3.22		2.20	189.05	80.31	114.30		189.05	80.31	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-091	100	60	5	15	202590	###	729.80	8.69	OPTIMA	0	11,22,33,44,55	#####	32.10	794.40	6.08		4.06	13.75	8.85	729.80		13.75	8.85	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-092	100	60	10	15	202591	###	500.70	10.47	OPTIMA	0	11,22,33,44,55	#####	60.56	536.80	4.13		2.49	24.53	7.21	500.70		24.53	7.21	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-093	100	60	40	15	202592	450	371.50	3.48	OPTIMA	0	11,22,33,44,55	#####	70.00	598.50	7.31		5.55	74.97	61.10	371.50		74.97	61.10	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-094	100	60	5	30	202593	###	1051.00	11.97	OPTIMA	0	11,22,33,44,55	#####	52.22	1210.20	12.09		8.84	21.26	15.15	1051.00		21.26	15.15	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-095	100	60	10	30	202594	###	979.00	19.46	OPTIMA	0	11,22,33,44,55	#####	42.22	1046.50	14.25		12.25	10.45	6.89	979.00		10.45	6.89	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-096	100	60	40	30	202595	450	401.90	70.90	OPTIMA	0	11,22,33,44,55	#####	54.60	792.50	14.90		14.07	120.36	97.19	401.90		120.36	97.19	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-097	100	180	5	3	202596	###	1293.40	12.91	OPTIMA	0	11,22,33,44,55	#####	0.00	1717.10	3.18		0.33	32.76	32.76	1293.40		32.76	32.76	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-098	100	180	10	3	202597	###	238.50	7.94	OPTIMA	0	11,22,33,44,55	#####	29.38	467.60	0.93		0.20	101.57	96.06	238.50		101.57	96.06	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-099	100	180	40	3	202598	###	60.90	9.06	OPTIMA	0	11,22,33,44,55	#####	17.65	372.60	0.96		0.42	539.51	511.82	60.90		539.51	511.82	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-100	100	180	5	7	202599	###	710.70	26.19	OPTIMA	0	11,22,33,44,55	#####	95.04	716.40	2.17		0.70	14.12	0.80	710.70		14.12	0.80	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-101	100	180	10	7	202600	###	887.90	9.96	OPTIMA	0	11,22,33,44,55	#####	8.50	948.60	3.99		2.22	7.81	6.84	887.90		7.81	6.84	[[{"seed_GA": 11,	1800	123	150	500	0.7	0.2	5	0.05	True
I-102	100	180	40	7	202601	###	214.60	39.69	OPTIMA																								