

Supporting Documentation for California Air Resource Board's Miscellaneous Process
Methodology 7.4, Agricultural Land Preparation

**Crop Profile Assignment and Land Preparation (LP) Emission Factor
by California Department of Food and Agriculture (CDFA) Commodity Code**

CDFA Commodity Code	CDFA Crop Name	ARB Crop Profile	LP Emission Factor (lbs PM10/acre/year)
101999	WHEAT ALL	Wheat	3.70
104999	RYE GRAIN	Wheat	3.70
106199	RICE MILLING	Rice	6.32
106269	FIELD CROP BY-PRODUCTS	Cotton	8.90
108999	FOOD GRAINS MISC.	Corn	6.90
111559	CORN WHITE	Corn	6.90
111991	CORN GRAIN	Corn	6.90
111992	CORN SILAGE	Corn	6.90
112999	OATS GRAIN	Wheat	3.70
113994	BARLEY MALTING	Wheat	3.70
113995	BARLEY FEED	Wheat	3.70
113999	BARLEY UNSPECIFIED	Wheat	3.70
114991	SORGHUM GRAIN	Wheat	3.70
115991	TRITICALE	Wheat	3.70
121219	COTTON LINT UPLAND	Cotton	8.90
121229	COTTON LINT PIMA	Cotton	8.90
121299	COTTON LINT UNSPECIFIED	Cotton	8.90
132999	SUGAR BEETS	Sugar Beets	22.80
151999	COTTONSEED	Cotton	8.90
153999	PEANUTS ALL	Safflower	4.50
158269	SAFFLOWER	Safflower	4.50
158316	SUNFLOWER SEED PLANTING	Corn	6.90
158319	SUNFLOWER SEED	Corn	6.90
158499	JOJOBA	Melon	5.70
161131	BEANS LIMA LG. DRY	DryBeans	7.70
161132	BEANS LIMA BABY DRY	DryBeans	7.70
161199	BEANS LIMA UNSPECIFIED	DryBeans	7.70
161717	BEANS KIDNEY RED	DryBeans	7.70
161721	BEANS PINK	DryBeans	7.70
161741	BEANS BLACKEYE (PEAS)	DryBeans	7.70
161742	BEANS GARBANZO	Garbanzo	7.70
162399	BEANS FAVA	DryBeans	7.70
163999	PEAS DRY EDIBLE	DryBeans	7.70
169999	BEANS DRY EDIBLE UNSPEC.	DryBeans	7.70
171019	WHEAT SEED	Wheat	3.70
171049	RYE SEED	Wheat	3.70
171069	RICE SEED	Rice	6.32
171129	OATS SEED	Wheat	3.70
171139	BARLEY SEED	Wheat	3.70
171519	COTTON SEED PLANTING	Cotton	8.90
171582	SAFFLOWER SEED PLANTING	Safflower	4.50
171619	BEANS SEED	DryBeans	7.70
171639	PEAS SEED	DryBeans	7.70
171949	FIELD CROPS SEED MISC.	Corn	6.90
171959	SEED VEG & VINECROP	Vegetables	8.50
172119	SEED ALFALFA	Alfalfa	4.00
172289	SEED CLOVER UNSPECIFIED	Alfalfa	4.00
173079	SEED BERMUDA GRASS	Alfalfa	4.00
173669	SEED SUDAN GRASS	Alfalfa	4.00
173999	SEED GRASS UNSPECIFIED	Alfalfa	4.00
178999	SEED OTHER (NO FLOWERS)	Alfalfa	4.00

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181999	HAY ALFALFA	Alfalfa	4.00
188499	HAY GRAIN	Alfalfa	4.00
188799	HAY WILD	Alfalfa	4.00
188899	HAY SUDAN	Alfalfa	4.00
188999	HAY OTHER UNSPECIFIED	Alfalfa	4.00
194599	PASTURE IRRIGATED	No Land Prep.	0.00
194699	PASTURE RANGE	No Land Prep.	0.00
194799	PASTURE FORAGE MISC.	No Land Prep.	0.00
195199	SILAGE	Wheat	3.70
195299	HAY GREEN CHOP	Alfalfa	4.00
195399	STRAW	Alfalfa	4.00
198199	RICE WILD	Rice	6.32
198999	FIELD CROPS UNSPECIFIED	Corn	6.90
201119	ORANGES NAVEL	Citrus	0.07
201519	ORANGES VALENCIA	Citrus	0.07
201999	ORANGES UNSPECIFIED	Citrus	0.07
202999	GRAPEFRUIT ALL	Citrus	0.07
203999	TANGERINES & MANDARINS	Citrus	0.07
204999	LEMONS ALL	Citrus	0.07
205999	LIMES ALL	Citrus	0.07
206999	TANGELOS	Citrus	0.07
207999	KUMQUATS	Citrus	0.07
208059	CITRUS BY-PRODUCTS MISC.	Citrus	0.07
209999	CITRUS UNSPECIFIED	Citrus	0.07
211999	APPLES ALL	Citrus	0.07
212199	PEACHES FREESTONE	Citrus	0.07
212399	PEACHES CLINGSTONE	Citrus	0.07
212999	PEACHES UNSPECIFIED	Citrus	0.07
213199	CHERRIES SWEET	Citrus	0.07
214199	PEARS BARTLETT	Citrus	0.07
214899	PEARS ASIAN	Citrus	0.07
214999	PEARS UNSPECIFIED	Citrus	0.07
215199	PLUMS	Citrus	0.07
215399	PLUMCOTS	Citrus	0.07
215999	PLUMS DRIED	Citrus	0.07
216199	GRAPES TABLE	Grapes-Table	0.83
216299	GRAPES WINE	Grapes-Wine	1.50
216399	GRAPES RAISIN	Grapes-Raisin	2.60
216999	GRAPES UNSPECIFIED	Grapes-Wine	1.50
217999	APRICOTS ALL	Citrus	0.07
218199	NECTARINES	Citrus	0.07
218299	PERSIMMONS	Citrus	0.07
218499	QUINCE	Citrus	0.07
218399	POMEGRANATES	Citrus	0.07
218839	CHERIMOYAS	Citrus	0.07
218889	BIOMASS ORCHARD	Almonds	3.13
218899	FRUITS & NUTS UNSPECIFIED	Citrus	0.07
221999	AVOCADOS ALL	Citrus	0.07
224999	DATES	Citrus	0.07
225999	FIGS DRIED	Citrus	0.07

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226999	OLIVES	Citrus	0.07
228019	GUAVAS	Citrus	0.07
229999	KIWIFRUIT	Citrus	0.07
230639	BERRIES BLACKBERRIES	Grapes-Table	0.83
230869	BERRIES BOYSENBERRIES	Grapes-Table	0.83
234799	BERRIES LOGANBERRIES	Grapes-Table	0.83
236199	BERRIES RASPBERRIES	Grapes-Table	0.83
237199	BERRIES STRAWBERRIES F MKT	Melon	5.70
237299	BERRIES STRAWBERRIES PROC.	Melon	5.70
237999	BERRIES STRAWBERRIES UNSPEC	Melon	5.70
238199	BERRIES BLUEBERRIES	Grapes-Table	0.83
239999	BERRIES BUSHBERRIES UNSPEC.	Grapes-Table	0.83
261999	ALMONDS ALL	Almonds	3.13
263999	WALNUTS ENGLISH	Almonds	3.13
264999	PECANS	Almonds	3.13
265999	WALNUTS BLACK	Almonds	3.13
266999	CHESTNUTS	Almonds	3.13
267999	MACADAMIA NUTS	Almonds	3.13
268079	PISTACHIOS	Almonds	3.13
268099	ALMOND HULLS	Almonds	3.13
301999	ARTICHOKES	Melon	5.70
302199	ASPARAGUS FRESH MARKET	Melon	5.70
302299	ASPARAGUS PROCESSING	Melon	5.70
302999	ASPARAGUS UNSPECIFIED	Melon	5.70
303999	BEANS LIMA GREEN	DryBeans	7.70
304199	BEANS SNAP FRESH MARKET	DryBeans	7.70
304299	BEANS SNAP PROCESSING	DryBeans	7.70
304399	BEANS FRESH UNSPECIFIED	DryBeans	7.70
304999	BEANS SNAP UNSPECIFIED	DryBeans	7.70
305999	BEETS GARDEN	Sugar Beets	22.80
306999	RAPPINI	Sugar Beets	22.80
307189	BROCCOLI FOOD SERVICE	Vegetables	8.50
307199	BROCCOLI FRESH MARKET	Vegetables	8.50
307299	BROCCOLI PROCESSING	Vegetables	8.50
307919	BROCCOLI UNSPECIFIED	Vegetables	8.50
308999	BRUSSELS SPROUTS	Melon	5.70
309999	CABBAGE CH. & SPECIALTY	Lettuce	12.75
310999	CABBAGE HEAD	Lettuce	12.75
313189	CARROTS FOOD SERVICE	Sugar Beets	22.80
313199	CARROTS FRESH MARKET	Sugar Beets	22.80
313299	CARROTS PROCESSING	Sugar Beets	22.80
313999	CARROTS UNSPECIFIED	Sugar Beets	22.80
314189	CAULIFLOWER FOOD SERVICE	Vegetables	8.50
314199	CAULIFLOWER FRESH MARKET	Vegetables	8.50
314299	CAULIFLOWER PROCESSING	Vegetables	8.50
314999	CAULIFLOWER UNSPECIFIED	Vegetables	8.50
316189	CELERY FOOD SERVICE	Lettuce	12.75
316199	CELERY FRESH MARKET	Lettuce	12.75
316299	CELERY PROCESSING	Lettuce	12.75
316999	CELERY UNSPECIFIED	Lettuce	12.75

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318999	RADICCHIO	Lettuce	12.75
320999	CHIVES	Lettuce	12.75
322999	COLLARD GREENS	Lettuce	12.75
323999	CORN SWEET ALL	Corn	6.90
325999	CUCUMBERS	Vegetables	8.50
330999	EGGPLANT ALL	Vegetables	8.50
331999	ENDIVE ALL	Lettuce	12.75
332999	ESCAROLE ALL	Lettuce	12.75
333999	ANISE (FENNEL)	Lettuce	12.75
335999	GARLIC ALL	Garlic	6.50
337999	KALE	Lettuce	12.75
338999	KOHLRABI	Lettuce	12.75
339196	LETTUCE BULK SALAD PRODS.	Lettuce	12.75
339999	LETTUCE UNSPECIFIED	Lettuce	12.75
340999	LETTUCE HEAD	Lettuce	12.75
341999	LETTUCE ROMAINE	Lettuce	12.75
342999	LETTUCE LEAF	Lettuce	12.75
343999	MELONS CANTALOUPE	Melon	5.70
348999	MELONS HONEYDEW	Melon	5.70
354299	MELONS UNSPECIFIED	Melon	5.70
354999	MELONS WATERMELON	Melon	5.70
355999	MUSHROOMS	No Land Prep.	0.00
356999	MUSTARD	Lettuce	12.75
357999	OKRA	Lettuce	12.75
358999	ONIONS	Onions	6.50
359999	PARSLEY	Lettuce	12.75
361299	PEAS GREEN PROCESSING	DryBeans	7.70
361999	PEAS GREEN UNSPECIFIED	DryBeans	7.70
363999	PEPPERS BELL	Tomatoes	10.10
364999	PEPPERS CHILI HOT	Tomatoes	10.10
366999	PUMPKINS	Melon	5.70
367999	RADISHES	Sugar Beets	22.80
368999	RHUBARB	Lettuce	12.75
370999	RUTABAGAS	Sugar Beets	22.80
372999	ONIONS GREEN & SHALLOT	Onions	6.50
374189	SPINACH FOOD SERVICE	Lettuce	12.75
374199	SPINACH FRESH MARKET	Lettuce	12.75
374299	SPINACH PROCESSING	Lettuce	12.75
374999	SPINACH UNSPECIFIED	Lettuce	12.75
375999	SQUASH	Melon	5.70
376999	SWISS CHARD	Lettuce	12.75
378199	TOMATOES FRESH MARKET	Tomatoes	10.10
378299	TOMATOES PROCESSING	Tomatoes	10.10
378999	TOMATOES UNSPECIFIED	Tomatoes	10.10
380999	TURNIPS ALL	Sugar Beets	22.80
381999	GREENS TURNIP & MUSTARD	Lettuce	12.75
387999	LEEKs	Onions	6.50
391999	POTATOES IRISH ALL	Sugar Beets	22.80
392999	POTATOES SWEET	Sugar Beets	22.80
393999	HORSERADISH	Onions	6.50

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394199	SALAD GREENS NEC.	Lettuce	12.75
394999	PEAS EDIBLE POD (SNOW)	DryBeans	7.70
395999	VEGETABLES ORIENTAL ALL	Vegetables	8.50
396999	SPROUTS ALFALFA & BEAN	Lettuce	12.75
398199	CUCUMBERS GREENHOUSE	No Land Prep.	0.00
398299	TOMATOES GREENHOUSE	No Land Prep.	0.00
398399	TOMATOES CHERRY	Tomatoes	10.10
398499	TOMATILLO	Tomatoes	10.10
398559	CILANTRO	Lettuce	12.75
398599	SPICES AND HERBS	Lettuce	12.75
398899	VEGETABLES BABY	Vegetables	8.50
398999	VEGETABLES UNSPECIFIED	Vegetables	8.50
824999	NURSERY FRT/VINE/NUT N-BEAR	None	
825379	NURSERY PLANTS STRAWBERRY	None	
834999	NURSERY PLANTS VEG. BEDDING	None	
851999	CHRISTMAS TREES & CUT GREENS	None	
861999	NURSERY FLOWER SEEDS	None	
862480	NURSERY BULBS LILY	None	
862999	NURSERY FL BLBS./CRMS./RHZ.	None	
863999	NURSERY FL. PROPG. MTRLS	None	
864663	NURSERY PLANTS ROSE	None	
864999	NURSERY PLANTS BEDDING	None	
866209	FLOWERS MUMS POTTED	None	
866559	NURSERY PLANTS ORCHID	None	
866605	FLOWERS POINSETTIA POTTED	None	
866999	NURSERY PLANTS POT'D UNSP	None	
867055	FLOWERS ASTERS CUT	None	
867170	FLOWERS CARNATION CUT STD.	None	
867171	FLOWERS CARNATION CUT MIN.	None	
867179	FLOWERS CARNATION UNSPEC.	None	
867205	FLOWERS CHRYSNTH. CUT STD.	None	
867206	FLOWERS CHRYSNTH. CUT POM.	None	
867209	FLOWERS CHRYSNTH. UNSPEC.	None	
867360	FLOWERS GARDENIAS CUT	None	
867435	FLOWERS IRISES CUT	None	
867559	FLOWERS ORCHIDS CUT ALL	None	
867663	FLOWERS ROSES CUT STANDARD	None	
867664	FLOWERS ROSES CUT MIN.	None	
867669	FLOWERS ROSES UNSPECIFIED	None	
867899	FLOWERS DECORATIVE DRIED	None	
867999	FLOWERS CUT UNSPECIFIED	None	
868999	FLOWERS FOLIAGE CUT ALL	None	
876130	FLOWERS CACTI SUCCULENTS	None	
879999	FLOWERS FOLIAGE PLANTS	None	
892999	NURSERY TURF	No Land Prep.	0.00
894999	NURSERY HERBAC. PRRNLS	None	
895999	NURSERY WOODY ORNAMNTALS	None	
898999	NURSERY HORT. SPECMN. MISC.	None	
899999	NURSERY PRODUCTS MISC.	None	
933179	FOREST PRODUCTS FIREWOOD	None	